

UTILITY PATENT APPLICATION TRANSMITTAL	Attorney Docket No.	P2921569CON
	First Inventor	Charles SHAMOON
	Title	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.		Address to: Mail Stop Patent Application Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450
1. ☒ Fee Transmittal Form 2. ☒ Applicant claims small entity status 3. ☒ Specification including Claims and Abstract (Total Pages <u>43</u>) 4. ☒ Drawing(s) (35 U.S.C. 113) Total Sheets <u>4</u> A. ☒ Figure to be Published <u>1</u> 5. ☒ Oath or Declaration combined with Power of Attorney Total Sheets <u>3</u> A. ☐ Newly executed; B. ☒ Copy from a prior application (for continuation/divisional with Box 18 completed) i. ☐ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in prior application. 6. ☒ Application Data Sheet (see 37CFR 1.76) 7. ☐ CD-Rom or CD-R in duplicate, large table or computer program 8. ☐ Nucleotide and/or Amino Acid Sequence Submission a. ☐ Computer Readable Form (CRF) b. Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ Paper c. ☐ Statements verifying identity of above copies 9. ☐ Assignment Papers (cover sheet & document(s)) 10. ☐ 37 CFT 3.73(b) Statement (when there is an assignee) 11. ☒ Power of Attorney 12. ☐ English Translation Document 13. ☐ Information Disclosure Statement (PTO-1449) ☐ Copies of IDS citations 14. ☐ Preliminary Amendment 15. ☐ Claim of Priority 16. ☐ Nonpublication Request under 35 U.S.C. 122 17. ☐ Other: Revocation of Attorney of US Application 11/686,993		
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Date Sheet under 37 CFR 1.76: ☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: <u>11/686,993</u> Prior Application information: Examiner <u>Zhang, Xiang</u> Art Unit <u>2617</u> For CONTINUATION OR DIVISIONAL APPLICATIONS only; The entire disclosure of the prior application, from which an oath or declaration is supplied in Box 5b, is considered a part of the disclosure of the accompanying continuation or division application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.		

UTILITY APPLICATION TRANSMITTAL (continued)	Attorney Docket No. P2921569CON

19. The fee due has been calculated as follows:

A. BASIC FILING FEE							
Large Entity		Small Entity		Small Entity e-Filing			
Fee Code	Fee \$	Fee Code	Fee \$	Fee Code	Fee \$	Fee Description	Fee Paid
1011	380	2011	190	4011	95	Utility Filing Fee	95
Subtotal (A)							\$ 95
B. EXTRA CLAIM FEES FOR UTILITY AND REISSUE							
Fee Description		Extra Claims In excess of 20/3		Large Entity		Small Entity	
				Fee Code	Fee \$	Fee Code	Fee \$
7 Total claims		0		1202	60	2202	30
2 Independent		0		1201	250	2201	125
Subtotal (B)							\$ 0
C. ADDITIONAL FEES							
Large Entity		Small Entity					
Fee Code	Fee \$	Fee Code	Fee \$	Fee Description			Fee Paid
1111	620	2111	310	Utility Search Fee			310
1311	250	2311	125	Utility Examination Fee			125
1051	130	2051	65	Surcharge- Late Filing Fee or Oath			
1053	130	1053	130	Non-English Specification			
1251	150	2251	75	Extension for Reply within First Month			
8021	40	8021	40	Recording Each Patent Assignment			
Subtotal (C)							\$ 435
TOTAL							\$ 530

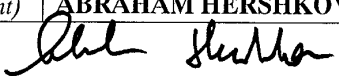
☐ A check in the amount of \$ _____ to cover all fees is attached.

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20. CORRESPONDENCE ADDRESS					
☒ Customer Number: 40401			OR ☐ Correspondence address below		
Name					
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City		State		Zip Code	
Country		Telephone	703-370-4800	Fax	703-370-4809
Name (Type/Print)	ABRAHAM HERSHKOVITZ			Registration No.	45,294
Signature				Date	October 11, 2011

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM
FOR REMOTE LOCATIONS

Related Application

This application is a continuation application of U.S. application Ser. No. 11/686,993, filed March 16, 2007, pending, which is a divisional of U.S. application Ser. No. 11/163,372, filed Oct. 17, 2005, now 7,257,397, patented on August 14, 2007, which is a divisional of U.S. application Ser. No. 11/160,006, filed Jun. 6, 2005, now U.S. Pat. No. 6,990,335, patented on Jan. 24, 2006, which claims the benefit of U.S. Provisional Application No. 60/522,887, filed Nov. 18, 2004, in the name of Charles Shamoon and entitled "Ubiquitous Connectivity and Control System for Remote Locations". All of the above enumerated applications are hereby incorporated by reference in their entirety.

Field of the Invention

The present invention relates to a remote monitoring and control system for an environment. More specifically, the system relates to on demand bidirectional communication between a remote access unit and a multifunctional base control unit in a geographically remote location.

Background of the Invention

In addition to a main residence, modern times provide people and families with vacation homes that are geographically remote from the regular places of residence. Also, owners of businesses generally have their place of business remote from their residence. These structures tend to be affected by changes in environmental characteristics, either natural (i.e., weather conditions), or non-natural (i.e., vandalism, break-ins, etc.). Generally, a thermostat monitors the ambient temperature and regulates a heating/cooling appliance to keep the building within the predefined temperature range thereby accomplishing the typical environmental control. The typical thermostat only monitors the ambient temperatures. Where the building is in a volatile climatic region, it is not always feasible to maintain the full functions of the appliances year round. For example, a building located in a region known for very warm temperatures, if the owner resides several hundred miles away, there would be no need to activate a cooling system on an abnormally warm day during a virtually cool season. There is no system found that monitors the ambient environmental factors

within a predefined range of values, upon an exception to the predefined values, alerts the remotely located owner, and allows the owner to remotely redefine the acceptable environmental parameters. Thus a remote control system solving the aforementioned problem, as well as several others, is desired.

The home control industry is a rapidly growing, multi-billion dollar industry. This growth has been accompanied by the recent development of smart appliances and efforts to develop a universal protocol for home control by major companies. The present invention provides the next major development in today's home control industry, ubiquitous connectivity and control of structure environment.

The home control industry has taken steps toward ubiquitous connectivity and control over the years, but these steps have fallen short until now. The home control industry has moved from ultrasonic remote control to infrared remote control to local RF remote control and on to land-line phone home-away-from-home remote control. The advent of improved cell phone technology provided more mobility and convenience to home-away-from-home control. High-speed and wireless Internet access has allowed

connectivity to the home through home-based and wireless laptop computers. While an advance in connectivity, mobile Internet connectivity, like its predecessors, is not without significant challenges, especially with mobility and convenience.

The invention of the microcontroller and microcomputer has spawned a robust industry in home automation. An endless number of systems have been created by hobbyist, commercial, and industrial developers. Processes and devices for which automation has been pioneered include audio systems, video systems, security and surveillance systems, lighting systems, watering and irrigation systems, systems for measurement of vital statistics for medical patients, and garage door openers, to name a few. The typical control architecture includes a transmitter and a receiver in which a command is issued by the transmitter and is executed in response by the receiver. Communications links have used radio frequency, infrared, and ultrasonic technologies.

Other technologies used for home automation include power line carrier and telephone line. Power line carrier and telephone line systems both have the benefit of being able to use existing facility wiring for communications. Each has its own benefits and

detriments. Power line systems operate on existing building electrical wiring while telephone line systems use existing telephone wiring. Electrical wiring is usually available in more locations within a building than is telephone wiring. Telephone line systems are generally more secure.

By far the most popular and ubiquitous power line carrier system is the X10. This system use transmitter, receiver, and controller modules connected to the building wiring, usually by plugging directly into an electrical outlet. Each module is individually addressed by a companion module, which is responsive to commands issued or received that are encoded with a preset digital address. The X10 system, like most power line carrier technologies, is characteristically confined to operation within a very limited area, such as within a single building. Newer interfaces have been developed to allow control of a broad range of external communications systems with X10 systems.

The need to expand the geographic range of control for a limited system, such as power line carrier, radio frequency, or infrared, led to the development of telephone interfaces, including voice, DTMF, and Caller ID. While such systems allow users to

exercise control of their facilities remotely, they are not as user friendly and often use tones or cryptic, hard-to-understand, digitized voice prompts. Often a long distance call from a pay telephone was required to access the controller, which had to be interfaced with the facility telephone network.

The availability of personal computers, the Internet, and broadband networks has fueled the explosion in the number of home automation methods and devices. Controlling software is available for Windows, Macintosh, Linux, and DOS based computers. Every imaginable type of input-output port has been used to communicate data into and out of a computer. Examples of available interfaces usable for home automation and control purposes include USB, parallel port, joystick, serial (RS-232, RS-422, RS-485 and the like), audio, ActiveX, and TCP/IP. Bidirectional communications have become more prevalent, allowing a remote operator to not only control but also to observe and monitor the tasks performed by the automation system. Internet-based utilities allow control and monitoring of systems from any computer anywhere in the world.

One of the most relevant entries into the home automation universe is the cellular telephone. In their most basic mode, cell phones can be used to control the same systems accessible by conventional telephones through the dial-up POTS network. A more advanced method involves the use of the cell phone network's short message service ("SMS") in which text messages are sent to and received from a controlled system. SMS messages travel on the same cellular network (on the same physical layer) as standard voice calls but on a different logical channel.

Summary of the Invention

The present invention uses an on-demand digital, private, and direct communications interface to overcome the shortcomings and limitations of current communications interfacing. A digital, private, and direct-connect remote controller provides instant wireless connectivity to the home from anywhere in the world without dialing a number or waiting for a number of tones to send a command or to know the status of conditions in the home; provides silent and constant direct two-way communication privately and globally, with the home for control and monitoring of key functions; eliminates

limitations, immobility, and inopportunities to connect, monitor and control the home, globally; can be configured to interface with many existing and future home automation systems and technologies; provides instant ubiquitous control for the end-user; and, if so desired, eliminates the need for the PC, modems and interconnected wiring.

The digital private direct connect controller allows the end-user to finally realize true global connectivity to and control of the home.

Brief Description of the Drawings

The above features and advantages of the present invention will become apparent upon reading the following description taken in conjunction with the accompanying drawings in which:

Figure 1 is a block diagram illustrating a connectivity and control system according to an embodiment of the present invention;

Figure 2 is a block diagram of the remote control unit of the system of Figure 1;

Figure 3 is a block diagram of the essential components of the remote control unit of the system of Figure 1; and

Figure 4 is a block diagram of the base control unit of the system of Figure 1.

Similar reference characters denote corresponding features consistently throughout the attached drawings.

Detailed Description of the Preferred Embodiments

Referring to the drawings, Figure 1 illustrates a ubiquitous connectivity and control system 10 wherein a master remote control unit 12 at a geographically remote location 14 on demand interfaces with a base control unit 16 in a structure 18 to monitor and control associated devices 21 thereat through a short message and/or the data bearer cellular telephone network 22 including control towers 24. The system 10 further includes associated control units 26 that are enabled by the base control unit 16 to undertake select monitoring and controlling activities in a proximate area 28. Associated control units 26 and the master control unit 12 utilize the global position network 27 and/or the cellular telephone network 22 and towers 24 in order to determine their geographical

locations 14, 20 and report this information back to the base control unit 16 using the short message and /or data bearer services of the cellular telephone network 22 and control towers 24.

Referring to Figure 2, the master remote control unit 12 and associated remote control units 26 are Java/J2ME enable cellular telephones 30 having a keypad 32 with a plurality of keys 34 including a select button 36, and an LCD display 38 for displaying textual information 40 and graphical icons 42 responsive to commands received from the base control unit 16 or from other control units configured through base control unit 16 to work with system 10.

Referring to Figure 3, the cellular telephone 30 suitable as a remote control unit 12 or 26 includes a microcontroller 45 electrically interconnected with random access memory 44, read only memory 46, the keypad 32, and the LCD display 38. Power is supplied to the operational components by power control circuits 48 connected to rechargeable batteries 50. Wire 52 electrically interconnects charger 54 to system connector 49. Power from the system connector 49 is controlled through the system bus circuits 47 and microcontroller 45 to charge battery pack 50. The remote

control unit 12 communicates with external devices through the cellular RF interface circuits 56 connected to an antenna 58, a Bluetooth module 60, a universal serial bus (USB) module 62 or through system connector 49 and system bus circuits 47. Cellular voice and data communications are transmitted to and received from the cellular telephone network 22 by the wireless cellular rf circuits 56 in a conventional manner. The Bluetooth data is received and transmitted by the Bluetooth module 60. Global satellite positioning information is received by either an external GPS module 64 or by an integrated GPS receiver incorporated into the cellular RF circuits 56. Data from the external GPS receiver 64 is communicated over serial interface cable 67 connected to system connector 49 and is then transferred to microcontroller 45 through the system bus circuits 47. Audio communications are received on the microphone 66 and are transmitted on the audio speaker 68 through audio interface circuits 69.

The custom JAVA/J2ME application software is transferred into the ROM 46 for access by the microcontroller 45. The application software can be downloaded into the ROM 46 by transmission from the cellular network 22 to the antenna 58 to the microcontroller 45,

which stores the software therein. The application may also be downloaded by an external program device, such as a personal computer (not shown) by Bluetooth module 60, USB interface 62, or from the system connector 49. The RAM 44 provides service or scratchpad memory for computational use by microcontroller 45.

Referring to Figure 4, the base control unit 16 consists a wireless module 70 communicating with a microcontroller 106 for operating a number of separate subsystems. The microcontroller communicates with each of the subsystem components using either a serial or parallel communications bus depending upon the capabilities of the particular subsystem component.

The subsystems contained within the base control unit 16 consist of either off-the-shelf integrated circuits combined with discreet components or complete modules provided by other original equipment manufacturers (OEMs). As there are many different providers of components and modules, only one particular method of systems design and integration is described herein. Those skilled in the art will recognize that there are many ways to put together components and modules to achieve a design with similar features.

The base control unit 16 includes a plurality of communication interfaces 72, 74, 76, 78, 80, 82, 84 86 and 88 for providing the means for remote control and remote monitoring of the various subsystems within the residential environment. Remote monitoring and control can be achieved through either the wireless module 70 or the Ethernet interface 82. A multi-purpose expansion bus 89 is a proprietary bus providing a custom communications interface for accessories developed exclusively for use with the base control unit.

The base control unit 16 consists of an antenna 90 which is attached to the wireless interface module 70. The antenna connection may be made either directly through a connector incorporated as part of the antenna or through a coaxial cable so that the antenna 90 may be mounted at a location remote from the base control unit.

The wireless interface module 70 provides both voice and data communications capabilities to the base control unit 16 through audio interface 94, power interface 96 and I/O interface 98. A microphone 100 and a speaker 102 provide for voice communications to the user through the audio interface 94 of the wireless interface module 70. The power interface 96 provides

power to the module 70 via power supply 104 and also allows a system microcontroller 106 to control the on/off state of the module. The power supply 104 is connected to the structure power supply through connector 108. The I/O interface 98 provides for a data pathway for digital communications over bus 110 as well as providing the means for the system microcontroller 106 to control the various communications aspects of the wireless module 70. Data communicated over bus 110 is RS232 ASCII or text "AT" commands commonly used in telephone modem instruction sets.

The user interacts with the base station through keypad 120 and LCD display 112 to the system microcontroller 106. Applications software embedded into the on-board ROM of the microcontroller 106 provides the functionality for interpreting the keypad 120 input and for displaying appropriate messages on the LCD display 112. Alternatively, the LCD display 112 may be of the well known touch pad design in which the keypad 120 functions are performed by pressing against predetermined screen areas that correspond to key designations. Further, the LCD Display 112 and keypad 120 may be eliminated completely with the base control unit 16 including web services that enable communication through one

of the communications interfaces, such as the Ethernet 82 interface or the USB interface 80, to a connected personal computer equipped with a web browser or other communications software. The base control unit 16 is TCP/IP enabled, permitting its direct connection to a local area network or directly to the Internet. With this configuration, programming and customization of the applications software in the base control unit can be performed from anywhere in the world with an Internet connection.

The interfaces of the base control unit 16 provide for the control and the monitoring of a variety of subsystems within the residential environment as well as providing a means of expanding the functionality of the base station through the use of industry standard interface technologies including universal serial bus (USB) 80; the Ethernet (10/100/1000 Base-T) bus 82 and the RS-232 serial bus 78.

The interface 76, environmental sensor network, is implemented as a 1-Wire® network allowing for a number of various types of temperature, humidity, light-level and other sensors to be monitored by the base control unit 16. The 1-Wire® network is expandable to a wide array of devices including general purpose

digital and analog I/O devices which would allow for the control of actuators and relays that may be useful for control of air dampers, water control valves, electronic windows, vents and other such devices utilized within a typical residential environment.

The interface 74, the air handling control systems interface, provides the means by which the base station serves to control the heating, air conditioning and other air handling equipment within the residence. This interface is designed to replace the standard thermostat that is typically used within residential heating and cooling systems. The interface 74 may provide multi-zone thermostat functions control as well as an interface to electronic air dampers. The thermostat portion of the base control unit is capable of controlling an unlimited number of zones.

The serial data bus interface 78 allows for data communications with the wide range of devices on the market that support this type of communications interface. Examples of such data communications include desk top computers, modems, and fax machines.

The USB interface 80 allows the base control unit 16 to communicate with other devices that support this type of interface.

This bus can be used to expand the capabilities of the base station and add support for: persistent data storage; peripheral expansion devices (digital cameras etc); and other wireless interfaces (Bluetooth, 802.11).

The Digital Analog and I/O interfaces 84 and 86 respectively allow the base control unit to connect to a wide array of devices that interface to the real world. This allows the base control unit to serve as a bridge between simple devices and the networks to which the base station is connected. Examples of such would include: alarm systems; electronic locks; gate controls; pressure transducers; contact closures; and relays.

The multi-purpose expansion bus 89 is a proprietary bus that allows for the addition of custom accessories developed exclusively for use with the base station.

The power line interface 72 allows the base control unit to communicate over the power line to devices that support a power line communications interface. Examples of these type of interfaces are X10 and HomePlug.

The remote control units 12, 26 take advantage of either GPS Assisted ("GPSA") technology, an external GPS unit 64 or location

based information provided by the cellular network 22. GPSA technology uses cellular-based location information provided by cellular infrastructure pursuant to the E911 protocol or mandate. With GPSA, cellular telephone towers locations have their own GPS receivers installed such that their coordinates are already known and can be readily communicated to the remote control units such that the normal three to five minute delay inherent in GPS position determination is avoided. For remote control units without GPSA technology, an external GPS can be used to communicate geographic location to the software within the remote control unit. The cellular carrier can further provide location based information to the cellular handset by using the cellular towers to determine its geographic location.

Each remote control unit 12, 26 communicates with the base control unit 16 to affect the operational aspects thereof and peripheral equipment operatively attached thereto. For example, a remote control unit can command the base control unit 16 to enter an energy conservation mode. The user moves the cursor of the LCD screen 38 until the desired operational icon 42 is highlighted. The function associated with the icon 42 by the applications software is

triggered by pressing the select button 36. The applications software communicates the command to the base control unit 16 through the cellular telephone network 22. The command string so transmitted is received and processed by the base control unit 16. Upon entering this mode the base control unit 16 adjusts air handling systems, open or close dampers, open or close window coverings, and adjusts operation of a hot water heater to conserve power consumption of the home. In the preferred embodiment, the remote control units are conventional cellular telephone handsets that are equipped with a programming kernel, such as Java or J2ME that enables the telephone to be customized to perform functions that are not typical of standard cellular telephone operation. For example, to use a cellular telephone that has a home automation terminal in its conventional mode, the user would have to enter a telephone number, dial into a home automation controller, and press the telephone keys to send DTMF audio signals to the controller. After the session is completed, the user has to manually disconnect from the cellular network. The data path between the remote control unit and the base control unit is SMS ("simple message service".) However, the implemented port addressing

scheme allows short messages to the remote control unit to bypass standard cellular telephone functions and to operate the features of the unit independently. The desired port to be addressed on the receiving unit is configured in the user data header of the SMS message that is transmitted to the receiving unit as is well known in the art. Further, the various remote control units can send SMS information to and from one another, exclusive of the base control unit in order to change the status information for a particular user. For example, if one remote control unit desires to be inactive, a command is sent to the other remote control unit to change the personal status thereof as displayed on the other units. Similarly, the remote control units can send SMS messages to the applications running in the other remote control units to affect operation parameters of those receiving remote control units.

By way of illustration, if the base control unit notifies the remote control unit of an activation of an alarm system associated with the base control unit, the remote control unit receives textual messages and graphical indicators to alert the user. The user acknowledges receipt of the alert by pressing a button or entering a code. The communication does not involve the voice mode for

communicating between the two units. Use of a conventional programmable cellular telephone readily meets the regulatory requirement that a device that participates in the cellular network be FCC or CTIA approved.

SMS port addressing allows Mobile Terminated SMS messages to be processed within the cellular telephone's application software without user intervention. Such uses include Voice Mail notifications, Wireless Access Protocol WAP, E-mail, and Phone Provisioning. The Internet Assigned Numbers Authority (<http://www.iana.com>) is responsible for defining the use of the various ports and specific ranges of numbers have been assigned for use by application software.

When the Java software application is operationally accessed by microcontroller 45 and started within the remote control unit 12, it attaches itself to a specific port for the reception of SMS messages. All Mobile Terminated (MT) SMS messages that contain a User Data Header (UDH) that indicate a port address, such as 50120, will be forwarded to the application software for processing.

The following AT command sequence is illustrative of the commands the base station unit 16 sends to the wireless module 70

over serial communications interface 110 to send a message to the remote control unit 12 to notify it that the temperature in zone 0 is currently 72 degrees:

```
ATE=0 \r      Turn off echoing of characters sent to the
module

AT+CMGF=0 \rSet Module in PDU Message format

AT+CMGS=44 \r  Total length of PDU is 44 octets

0041000AC10294268088000023060504C3C800003C7AB90D
07E9DFEE724F041381EC6176BDDC13DD64A2970F <ctrl-Z>
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The base control unit 16 is configured to interact with and respond to multiple remote control units 12. If multiple remote control units 12, or associate units 26 are deployed, one of the remote control units could be considered a master and all others could be considered slaves. Specific operational characteristics of the base control unit 16 may be configured as to only respond to commands from the master remote control unit. Alternatively, the remote control units may be segregated into classes such that the base control unit responds to commands and communicates

selected information to a class containing one or more remote control units. An example would be a first class consisting of remote control units operated by parents and a second class consisting of remote control units operated by children. Information pertaining to the activities of the children may be selectively reported by the base control unit to the parents. By way of illustration, when a child operating a remote control unit in the second class disarms the alarm system prior to entering the residence controlled by the base control unit, parents in the parent class are notified accordingly that the child has arrived at home. The class assignments and configurations are easily customized to provide the notifications desired by the authoritative system operators, in this case, the parents.

The GPS receiver module 64 including antenna 65 is optionally incorporated into the remote control unit 12 for allowing the remote control unit to communicate position information to the base control unit 16. The GPS may also be incorporated into wireless module 56, as in newer CDMA 2000 compatible cellular modules. This feature allows the base control unit to change its operational characteristics based upon the location of the remote control unit(s).

For example, the base control unit may adjust the water temperature and thermostats when one of the remote control units comes within a specific distance from the house. The geographic information that is acquired by the GPS subsystem in the remote control unit (whether it is a separate GPS unit or part of the module) can be compared to settings stored in either the remote control unit itself or the base control unit to provide capabilities such as Geo-Fencing, Asset Tracking, and Bio-Location (knowing where a living entity is located).

In the preferred embodiment, the position data are derived from NEMA data received from the GPS component. NEMA data includes latitude, longitude, time, velocity, and heading information. Each information packet is streamed once per second. Data are captured by the remote control unit, they are processed by its application software, and the results are transmitted by port-addressed SMS to the base control unit for proximity detection. Specific remote control units can be configured in such a way that they send a status message to the base control unit if they exceed a programmed set of boundary conditions. If desired, the base control

unit can on its own initiative query the remote control unit to learn its geographic location.

Geographic location information is programmed into the base control unit through keypad 120. Additionally, the geographic location of the base control unit may be entered into a GPS-enabled remote control unit through the application software user interface. A user-determined distance is then programmed into the remote control unit. When the remote control unit travels a distance that exceeds the programmed distance from the base control unit, the remote control unit reports this information to the base control unit. The base control unit will then send this information to the appropriate user or to a predetermined class of users. This is an example of geo-fencing and would be typically used to notify parents that one of their children has traveled beyond a set distance from the home.

The base control unit communicates status information to the remote control unit either on a periodic or event-driven basis. It can initiate communications based on its aggregated inputs, or it can respond to individual requests and commands received from the remote control unit.

Examples of events that could cause the base control unit to initiate a communications session with the remote control unit include fire or burglar alarm activation, HVAC or freezer temperature thresholds exceeded, equipment failures, an air filter change necessary, a change in the home state vector, (occupied, unoccupied) or a geographical boundary condition exceeded by one of the other remote control units.

In addition to communicating status information to the remote control unit, the base control unit will, as programmed, initiate corrective action for the indicated event. For example, upon communicating an alarm activation message to a remote control unit, the base control unit, upon detecting the presence of an authorized user arriving at the local location, could disable the alarm system. Upon the detection of a member of an authorized class member, the base control unit can start the operation of the whirlpool bath in anticipation of the user's arrival, turn on specified interior and exterior lighting, or increase or decrease the thermostatic set point for the heater or air conditioner.

Yet additional geographical dependent operation or control may be provided by the inherent aspects of Bluetooth wireless

technology presently available from a wide variety of professional and consumer electronic equipment manufacturers and vendors. Bluetooth radio-frequency protocol enabled devices allow totally wireless operation of devices such as computers, computer keyboards, printers, pointing devices, digital audio players, headphones, computer games, personal digital assistants, remote controls, and the like. Each Bluetooth device is characterized by one of three power classes: Class 1 is designed for long range (approximately 100m) devices, with a maximum output power of 20 dBm; Class 2 is for ordinary range devices (approximately 10m) devices, with a maximum output power of 4 dBm; and Class 3 is for short range devices (approximately 10cm) devices, with a maximum output power of 0 dBm. Class 2 devices are used in the preferred embodiment as they provide a beneficially sized geographic range or fence around the local location to allow the system to provide presence detection functionality.

Each chipset in a Bluetooth enabled device has a unique serial or identification number. To enable the base control unit to recognize and respond to the presence of a Bluetooth enabled device, the device must be physically held within operable range of

the control unit. The user instructs the control unit to request authorization from the Bluetooth device. An authorization code is manually entered into the base control unit and then into Bluetooth device. If the unique identification or serial number entered into each unit matches, it is stored and associated with the particular user or class of users, and the base control unit and the Bluetooth enabled device are authenticated and are in communication with each other. At a periodic interval, the base control unit directs the Bluetooth master unit (located in the base control unit) to do a device discovery and report back the unique identification numbers it finds. If an identification number is not discovered, the user is assumed not within close proximity of the base control unit, which then reports the results to the designated class of users. If desired or necessary based on environmental circumstances, the Bluetooth receiver can be remotely located from the base control unit for controlled reception or to compensate for radio frequency coverage problems. The Bluetooth enabled device could be a cellular telephone, a watch, an MP3 player, a pendant, or any other Bluetooth equipped device compatible with current Bluetooth standards.

In the preferred embodiment, the Bluetooth enabled remote control unit may be programmed using Java J2ME to send a message to other remote control units when they detect a specific base station control units. This feature allows multiple base station control units in a large environment and the case that the remote control unit handles the notification.

While the preferred embodiment employs popular Bluetooth technology, it should be appreciated and understood that other presently available technologies, such as 802.11(x), or future technologies can be used in the same manner as Bluetooth. The base control and remote control units each contain application software that is readily modifiable to adapt to a new or different technology or protocol.

Application software within the systems microcontroller 106 provides for autonomous control that is either preprogrammed at the time of manufacture or customized by the end user of the base station for their specific needs. Examples of autonomous control include: shut down of the air handling system if a fire is detected, thereby the spread of smoke and the possibility of “fanning” the fire; adjusting of indoor temperature and humidity settings depending

upon conditions and information such as outdoor environmental conditions such as temperature, humidity, sun load and wind, short-term weather forecasts, family schedule and activities, structure occupancy, context, location of users; shutdown of sensitive electronic components and subsystems in cases of severe weather, or failures in other subsystems; closing and opening of windows and/or window coverings to conserve energy; control of sprinkler systems based upon current weather conditions and weather forecasts. The application software includes a macro language interpreter to enable efficient end-user customization and future expansion to the system. A macro is a miniature computer program activated by a symbol, name, or key that represents a list of commands, actions, or keystrokes. A macro allows a local or remote user to enter a single character or word to perform a series of predetermined actions.

Base control unit 16 further comprises the Ethernet interface 82 to respond to external web services generally accessible through an Internet connection. For example, at present, weather services on the Internet can be queried using the SOAP protocol. The services respond with timely weather information, typically encoded in XML.

The base control unit 16 understands and interprets that received information and responds according to instructions, including macros, programmed into its application software. Such capability allows the base control unit to take actions, like causing the sprinkler system to bypass its scheduled watering cycle should rain be forecast. Other information services allow other responses. A school system's notification that schools are being released early due to inclement weather conditions could cause the base control unit to notify the class containing the parental remote control users of the decision to afford the parent the opportunity to make transportation and custodial decisions with regard to their children in the schools. The application software is RSS-aware and is capable of receiving and responding accordingly to RSS feeds. RSS ("really simple syndication") is an efficient and popular web content syndication serial data format. Any information that can be broken down into discrete data items can be syndicated via RSS. Once information about each item is in RSS format, in the present invention, the base control unit examines the feed for changes and reacts to the changes in an appropriate way. The Ethernet bridge

function is easily updated and expanded by an upload of revised application software to the base control unit.

Messages from the remote control unit 12 to the base control unit 16 do not need to rely on port addressing for processing. The base control unit 16 uses a cellular telephone module that does not contain a user interface. The processing of SMS messages is handled by the base control unit applications software.

The base control unit 16 commands the cellular module to send newly received SMS messages directly to the base control unit 16 over the serial port using unsolicited result codes. Upon receipt of a new message the cellular module sends the following:

+CMT: <length> <CR> <LF> <pdu>

Where <length> is the length of the <pdu> element

<CR> is carriage return and <LF> is line feed.

<pdu> is the Short Message data in either PDU or text format.

The base control unit 16 processes the data according the content of the message data.

Although port addressing is not currently used when messages are sent from the remote control unit 12 to the base control unit 16 software (it still is used within the base control unit 16 cellular

module for provisioning and control from the carriers), the system can utilize the port addressing to direct messages to specific subsystems that are tied to the base control unit 16.

The present invention thus provides an on-demand bidirectional communications interface for monitoring, controlling, and securing various environment functions and characteristics attendant the interior and exterior of a building. The system may thus monitor and control temperature, and a myriad of other environmental functions of the building include, by way of example and not limitation, temperature, power status for the building and discrete applications therein, humidity/moisture, smoke/toxic gases, structural breaches, security status, visual conditions and a host of other natural and non-natural phenomena.

The base control unit is preferably mounted at an appropriate location on a wall within the building to provide a local access for regulation. The base control unit is locally operatively interfaced with a plurality of sensors and devices systematically distributed throughout the building and communicating according to varying protocols such as infrared, radio frequency, X-10, and hard wiring.

The sensors provide continuous measurement and status of target environmental characteristics. Examples of sensor applications include utilities status, moisture and humidity detection, door and window condition, and the like. Associated controlled devices providing operational functions refrigeration, water heating, security cameras, illumination devices, and the like.

The air handling unit receives signals from the associated sensors and communicates them to the base control unit 16 that, based on the processed measured characteristics thereof, activates or deactivates one or more of the devices of the unit in response to the measurement. For example, if the temperature sensor exceeds a preset value, the HVAC unit is activated, and when the measured characteristic is within a preset value range, the unit is deactivated. In addition, when a measured characteristic exceeds a predetermined value range, an alarm signal may be transmitted to a remote control unit 14 to provide an audible, tactile, and/or visual indication. Thus, if utility sensor S2 indicates a loss of electrical, water, or communications service, a signal is sent to the remote control unit 14 and the operator thereof has the ability to take corrective action in response thereto. Also, the operator may invoke

the a command from the remote control unit 14 to the base control unit 16 to activate a select device such as the HVAC unit, a water heater, a refrigeration appliance or other discrete device remotely in order to prepare the building for occupancy by the operator or designee.

The sensors for the system are distributed throughout the building to detect the environmental characteristics of the building. These characteristics include, but are not limited to, temperature, humidity/moisture, smoke/toxic gases, structural breaches, and a host of other natural and non-natural phenomena.

In a conventional thermostat, a temperature sensor and switch automatically control a heating or cooling appliance when the sensed temperature is beyond a preset value. The thermostatic interface of the invention would include a temperature sensor that constantly monitors the environmental temperature and control of a heating and/or cooling appliance to maintain the building at a substantially constant temperature.

The thermostatic interface also receives other environmental characteristics of the building and responds in a like manner. For example, a sensor would monitor the humidity (or moisture content

of the air) of the building. If the temperature monitored by temperature sensor is within the preset range value, a conventional thermostat would not adjust the heating and/or cooling appliance to regulate the moisture content, thus presenting favorable environment for the growth on molds and mildew. The thermostatic interface receives the humidity value measured by the humidity sensor, determines that the value exceeds a predefined limit, and generates an alarm signal that is transmitted as an alarm signal via the communication link to the remote control unit. The operator receives the information and transmits a control signal from the remote access unit to the base control unit via the communication link and activates the appropriate appliance in response thereto, thus reducing the humidity value to acceptable levels and preventing the progression of mold and mildew growth.

The sensors are distributed according to a predetermined plan that effectively makes the “most likely place” for a change in environmental characteristics to be sensed. For example, several smoke/toxic gas sensors would be distributed about the ceilings and floors so as to identify the presence of smoke (i.e. fire) or carbon monoxide (i.e. toxic gas), and relaying the measured

characteristic to the thermostat. Other types of sensors would be optimally placed in order to monitor the egression of water into the building, lighting striking the building, suspension or cessation of a provided utility (i.e., electric power, water and sewer provisions, natural gas), collapse of the building or a portion thereof due to weather (i.e., tornado, hurricane, blizzard), or breach of the building security (i.e., break-ins). The sensors may be hard wired through the structure of the building. Also, the sensors may have a wireless communication. The optimal presentation would be a dual connection, such a hard-wired and wireless communication, e.g., a transmitter/receiver. This provides maximum effective monitoring of the building because the hard wiring would alleviate the need for constant battery monitoring, likewise, the wireless communication provides monitoring should the absence of electrical power be a factor. For example, the combined hard wired and wireless connection of the sensors to the unit allows the monitoring of the building and generates the alarm when the power is lost due to an area wide electrical outage. The unit transmits that information (i.e., the loss of electrical power) to the remote control unit and the operator is aware that the electrical power is absent. If the loss of

electrical power were due to a nefarious figure seeking to breach the building, i.e., breaking a window to gain access, a security sensor would still be able to provide the base control unit with an indication that the building has a security breach. The base control unit, operating under an alternate electrical power supply such as a backup battery, would generate a subsequent alarm signal and transmit the subsequent alarm signal for routing through the direct connect wireless for immediate transmission to the remote control unit, thereby alerting the operator that in addition to the loss of electrical power, the security of the building has been breached. The operator can thereby contact the law enforcement facility of the local jurisdiction and have an immediate response. If the remote control units are organized in classes, such as “managers”, the information would be almost simultaneously provided to each member of the class who would have a need to receive and react to it.

In addition to main residence use, the system is typically suited for a vacation/second dwelling, a business concern, or any building structure that is not constantly occupied. For example, if the thermostat control system is installed in a vacation home in one

locality, the operator may effectively be in any other portion of the globe so long as an effective communication link is provided with the remote control unit 14.

Multiple base station units could be controlled through a single cellular phone for those instances where a person desires to have systems installed in multiple residences. The application software uses the Source Address field of the message to distinguish between different base control units 16.

It is to be understood that the present invention is not limited to the embodiments described above, but encompasses any and all embodiments within the scope of the following claims.

WHAT IS CLAIMED

1. A slave remote unit configured to receive a command from a master remote unit via a base unit, the slave remote unit comprising:
 - a wireless interface module configured to receive a tower cell identification (ID) information associated with a tower location information;
 - a microprocessor configured to determine a present location of the slave remote unit based upon the tower cell identification (ID) information, and to determine a command based upon the present location;
 - a wireless interface module configured to send the command via the base unit wherein the base unit is further configured to obey a master set of commands from the master remote unit upon a determination that the master remote unit is the master remote unit, and to obey a slave set of commands from the slave remote unit upon a determination that the slave remote unit is slave remote unit; and wherein the master set of commands includes at least one command which is not in the slave set of commands.
2. The slave remote unit as recited in claim 1 wherein said microprocessor is configured to determine a direction of movement from the present location by

comparison with a past location, and to determine a command based upon the current location and direction.

3. The slave remote unit as recited in claim 1 wherein the command is initiated when the present location is within a programmed distance from a predetermined location.

4. The slave remote unit as recited in claim 1 wherein the command is initiated when the present location exceeds a programmed distance from a predetermined location.

5. A base unit configured to communicate with a slave remote unit and a master remote unit, the base unit comprising:

a wireless interface module configured to communicate with the slave remote unit and with the master remote unit; and

a processing portion configured to:

- a) receive a command from an unknown remote unit;
- b) determine an identity of the unknown remote unit;

c) upon a determination that the unknown remote unit is the slave unit and that the command is contained in a set of slave commands, obey the command; and

d) upon a determination that the unknown remote unit is the slave unit and that the command is contained in a set of master commands, obey the command, and

wherein the set of master commands contains at least one command which is not contained in the set of slave commands.

6. The base unit of claim 5, wherein processing portion of the base unit is further configured to: e) query the remote slave unit to learn a present location of the remote slave unit.

7. The base unit of claim 6, wherein the processing portion of the base station is further configured to: f) determine a direction of movement of the remote slave unit by comparing the present location of the remote slave unit against a previous location of the remote slave unit.

ABSTRACT OF THE DISCLOSURE

A thermostat control system for monitoring and controlling environmental characteristics of a building includes a base station unit and a remote access unit continuously interfacing through instant wireless private direct connectivity. The system also includes a plurality of sensors that measure the environmental characteristics and provide the thermostat unit with the measurements.

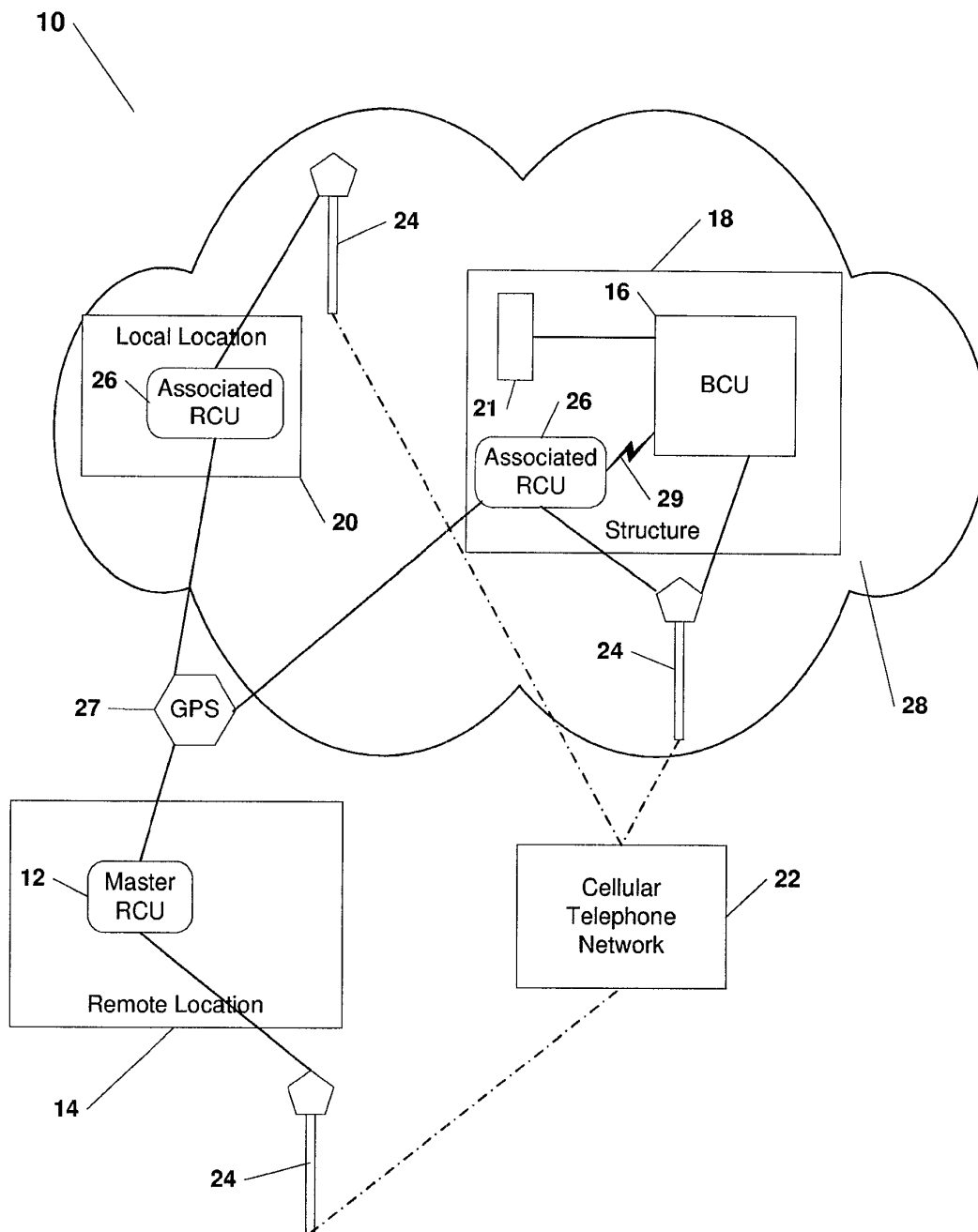


Fig. 1

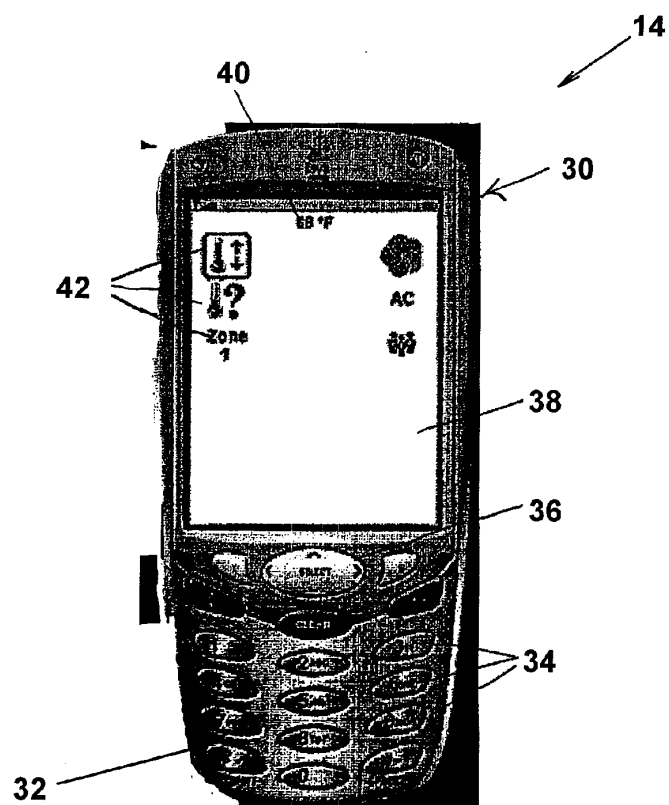


Fig. 2

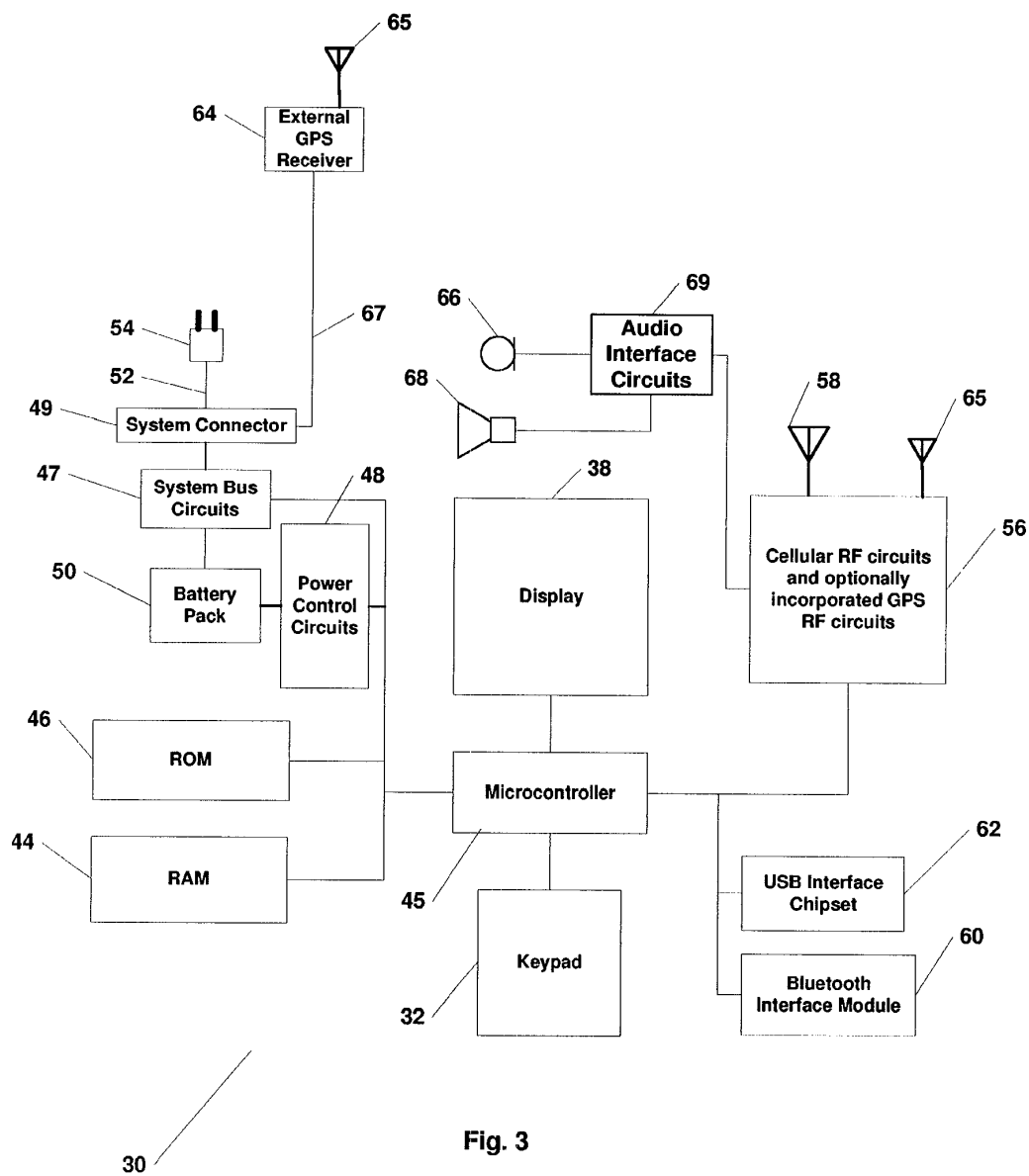


Fig. 3

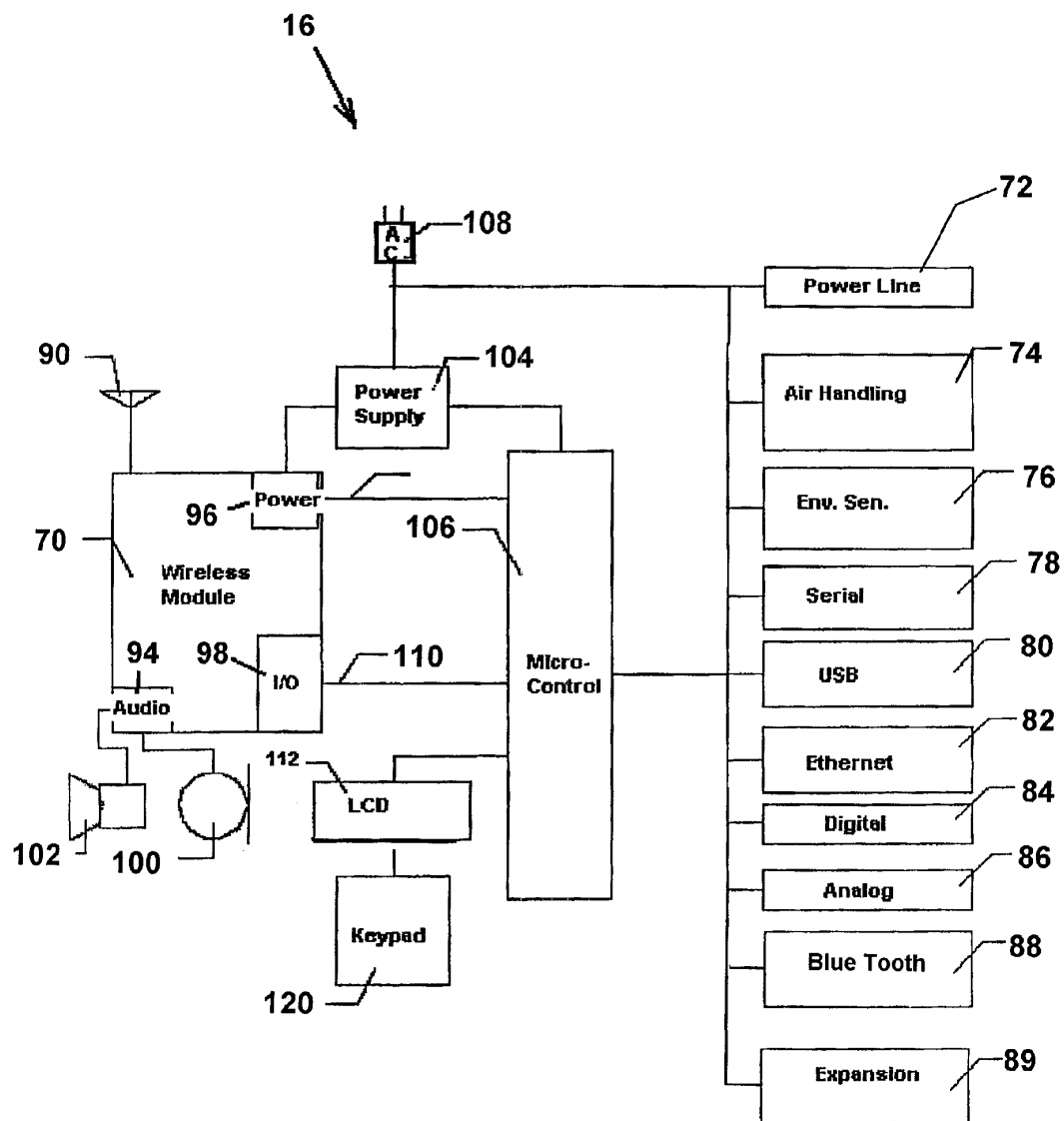


Fig. 4

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) ☒ Declaration Submitted With Initial Filing OR ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	7080-04-04
	First Named Inventor	SHAMOON, Charles G.
	COMPLETE IF KNOWN	
	Application Number	
	Filing Date	
	Art Unit	
	Examiner Name	

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

(Title of the Invention)

the specification of which

☒ is attached hereto
OR
☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

 Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority		Certified Copy Attached?	
			Not Claimed		YES	NO
	US		☐		☐	☐
			☐		☐	☐
			☐		☐	☐
			☐		☐	☐

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to:	☒ The address associated with Customer Number:	23983	OR	☐ Correspondence address below
Name				
Address				
City		State	ZIP	
Country	Telephone		Email	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.				
NAME OF SOLE OR FIRST INVENTOR:		☐ A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any))		Family Name or Surname		
Charles G.		SHAMOON		
Inventor's Signature <i>Charles G. Shamoon</i>			Date 5/24/05	
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Mailing Address 2436 Tisbury Way				
City	State	Zip	Country	
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NAME OF SECOND INVENTOR:		☐ A petition has been filed for this unsigned inventor		
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Deborah H.		SHAMOON		
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Little Elm	TX	75068	US	
☒ Additional inventors or a legal representative are being named on the Q119 supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.				

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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet

Page 1 of 1

Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
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Inventor's Signature: <i>Michael D. Fehnel</i>		Date: 6-2-2005	
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		Country	USA
Mailing Address			
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FUQUAY-VARINA City	N.C. State	27526 Zip	USA Country

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1450.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/686,993	03/16/2007	Charles G. SHAMOON	8006-06-07

40401
Hershkovitz & Associates, LLC
2845 Duke Street
Alexandria, VA 22314

CONFIRMATION NO. 7384

POA ACCEPTANCE LETTER

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OC000000048679508

Date Mailed: 07/13/2011

JUL 13 2011
Jc
HERSHKOVITZ & ASSOCIATES, LLC

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/24/2011.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/ttkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

REVOCATION/NEW POA/CORRES. ADD. CHANGE

**REVOCATION OF POWER OF ATTORNEY
WITH A NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney given in the patent(s) and/or application(s) identified herein.

☐ A Power of Attorney is submitted herewith.
OR

OR

☒ I hereby appoint the practitioners associated with the Customer Number: 000040401 for the patent(s)/application(s) identified herein.
Practitioner Under Customer Number: 000040401

Practitioner Under Customer Number: Abe HersHKovitz, Reg. No. 45,294

☒ Please change the correspondence address for the patent(s)/application(s) identified below to:

CORRESPONDENCE ADDRESS

[X] Customer Number: 000040401 OR [] Correspondence address below

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Address					
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	patent@hershkovitz.net	703-370-4800		Facsimile	

IDENTIFICATION OF PATENT(S)/APPLICATION(S)

[illegible]

REVOCATION/NEW POA/CORRES. ADD. CHANGE - Page 2

SIGNATURE OF INVENTOR(S) OR ASSIGNEE(S)

I/We am/are the:

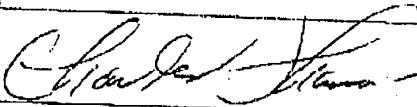
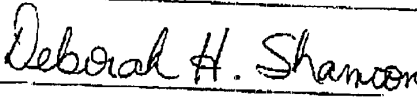
☐ Inventor(s)☒ Assignee(s) of entire and exclusive interest in and to the patent(s) and application(s) identified herein. See 37 CFR §3.71.☒ Statement under 37 CFR §3.73(b):

The documentary evidence of a chain of title from the original owner(s) to the Assignee(s), as recorded/to be recorded in the Assignment records of the Office:

☐ is attached hereto (copy of recorded Assignment or other conveyance, or copy of Assignment being submitted concurrently for recordation);

OR

☒ was recorded on June 6, 2005 at Reel 016096 Frame 0409, for the patent(s)/application(s) identified herein.**The individual(s) whose signature(s) is/are supplied below is/are the Assignees of entire and exclusive interest in the patent(s)/application(s) identified herein.**

Assignees of Entire and Exclusive Interest			
Signature of Assignee CHARLES SHAMOON		Date	6/24/2011
Signature of Assignee DEBORAH H. SHAMOON		Date	6-24-2011

Any additional patent(s)/application(s), or additional signature(s) of Inventor(s), or additional Assignee(s)/Signatory(s), are submitted on the attached page(s).

NUMBER OF PAGES ATTACHED: _____

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P2921569CON
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

☐	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant 1				
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117
		☐ Party of Interest under 35 U.S.C. 118		
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Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117
		☐ Party of Interest under 35 U.S.C. 118		
Prefix	Given Name	Middle Name	Family Name	Suffix
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Citizenship under 37 CFR 1.41(b)		US		
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Address 2				
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Postal Code	75068	Country	US	
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Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117
		☐ Party of Interest under 35 U.S.C. 118		
Prefix	Given Name	Middle Name	Family Name	Suffix
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Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P2921569CON
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

Citizenship under 37 CFR 1.41(b)		US	
Mailing Address of Applicant:			
Address 1		9220 Oak Hill Drive	
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Applicant 4			
Applicant Authority		☒ Inventor ☐ Legal Representative under 35 U.S.C. 117 ☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name
	Michael		Fehnel
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service			
City	Fuquay Varina	State/Province	NC
Country of Residence	US		
Citizenship under 37 CFR 1.41(b)		US	
Mailing Address of Applicant:			
Address 1		3021 Bentwillow Drive	
Address 2			
City	Fuquay Varina	State/Province	NC
Postal Code	27526	Country	US
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add			

Correspondence Information:

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Customer Number	40401
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Application Information:

Title of the Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
Attorney Docket Number	P2921569CON	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P2921569CON
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

Publication Information:

☐	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐	Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	40401		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.					
Prior Application Status	Pending		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
Unknown	Continuation of	11686993	2011-10-11		
Prior Application Status	Pending		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
11686993	Division of	11163372	2007-03-16		
Prior Application Status	Patented		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11163372	Division of	11160006	2005-10-17	7257397	2007-08-14
Prior Application Status	Patented		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11160006	non provisional of	60522887	2005-06-06	6990335	2006-01-24
Prior Application Status	Expired		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
60522887			2004-11-18		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P2921569CON
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

			Remove
Application Number	Country ¹	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☐ Yes ☒ No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1

If the Assignee is an Organization check here. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

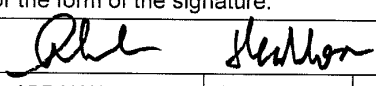
Mailing Address Information:

Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the **Add** button.

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature			Date (YYYY-MM-DD)	2011-10-11
First Name	ABRAHAM	Last Name	HERSHKOVITZ	Registration Number
			45294	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P2921569CON
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles SHAMOON		
Filer:		Abraham HersHKovitz		
Attorney Docket Number:		P2921569CON		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	95	95
Utility Search Fee	2111	1	310	310
Utility Examination Fee	2311	1	125	125
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				530

Electronic Acknowledgement Receipt	
EFS ID:	11165789
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles SHAMOON
Customer Number:	40401
Filer:	Abraham Hershkovitz
Filer Authorized By:	
Attorney Docket Number:	P2921569CON
Receipt Date:	11-OCT-2011
Filing Date:	
Time Stamp:	22:32:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 530
RAM confirmation Number	7065
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Transmittal of New Application	P2921569CON_transmittal.pdf	116858 5b392cc61df5373a2c7a9f5519c9fe29da24694b	no	2
Warnings:					
Information:					
2		P2921569CON_specification.pdf	1460133 05f99c23cbe732f0839a39d5e2f1279a82d03636	yes	43
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	39	
	Claims		40	42	
	Abstract		43	43	
Warnings:					
Information:					
3	Drawings-only black and white line drawings	P2921569CON_drawings.pdf	79609 b2f1b3e566617345214a753fd3c01662da183f1f	no	4
Warnings:					
Information:					
4	Oath or Declaration filed	P2921569CON_declaration.pdf	185638 5068f2e52741a160a28c22ab6e5b7e1e9089a4df	no	3
Warnings:					
Information:					
5	Power of Attorney	P2921569CON_acceptance_of_new_POA.pdf	125922 2041f2d0a898fa40701cb7037f60dcde77b9176	no	3
Warnings:					
Information:					
6	Application Data Sheet	P2921569CON_ADS.pdf	257891 f523631bcb244bc463be0c5bfd3064f3e33831c	no	5
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
7	Fee Worksheet (SB06)	fee-info.pdf	33119 4fab3473b0e5fa38e68eb137dfb7f47ce82e19d2	no	2
Warnings:					
Information:					

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	P2921569CON

CONFIRMATION NO. 1022

FORMALITIES LETTER

40401
Hershkovitz & Associates, LLC
2845 Duke Street
Alexandria, VA 22314



Date Mailed: 10/31/2011

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

An application number and filing date have been accorded to this application. The application is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given TWO MONTHS from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
 - The drawings submitted to the Office are not electronically reproducible because portions of figures 2 are missing and/or blurry.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/tnegash/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	P2921569CON

CONFIRMATION NO. 1022

POA ACCEPTANCE LETTER

40401
HersHKovitz & Associates, LLC
2845 Duke Street
Alexandria, VA 22314



Date Mailed: 10/31/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/11/2011.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/tpnguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
13/271,203	10/11/2011	2612	530	P2921569CON	7	2

CONFIRMATION NO. 1022

40401
HersHKovitz & Associates, LLC
2845 Duke Street
Alexandria, VA 22314

FILING RECEIPT



0000000050596352

Date Mailed: 10/31/2011

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Charles G. Shamon, Little Elm, TX;
Deboral H. Shamon, Little Elm, TX;
Franklin Eugene Neal, Ashland, KY;
Michael Fehnel, Fuquay Varina, NC;

Power of Attorney: The patent practitioners associated with Customer Number 000040401

Domestic Priority data as claimed by applicant

This application is a CON of 11/686,993 03/16/2007 *
which is a DIV of 11/163,372 10/17/2005 PAT 7,257,397 *
which is a DIV of 11/160,006 06/06/2005 PAT 6,990,335 *
which claims benefit of 60/522,887 11/18/2004 *

(*)Data provided by applicant is not consistent with PTO records.

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 10/25/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/271,203**

Projected Publication Date: To Be Determined - pending completion of Corrected Papers

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Preliminary Class

340

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER**Title 35, United States Code, Section 184****Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

page 2 of 3

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/271,203			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	95		N/A			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	310		N/A			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	125		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))	7	minus 20 = *	x 30 =	0.00	OR				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *	x 125 =	0.00					
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00					
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00					
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	530		TOTAL			
APPLICATION AS AMENDED - PART II									
AMENDMENT A	(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA	OR OTHER THAN SMALL ENTITY		
	Total (37 CFR 1.16(i))	*	Minus	**	=		RATE(\$)	ADDITIONAL FEE(\$)	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		RATE(\$)	ADDITIONAL FEE(\$)	
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL			TOTAL		
				ADD'L FEE			ADD'L FEE		
AMENDMENT B	(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA	OR OTHER THAN SMALL ENTITY		
	Total (37 CFR 1.16(i))	*	Minus	**	=		RATE(\$)	ADDITIONAL FEE(\$)	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		RATE(\$)	ADDITIONAL FEE(\$)	
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL			TOTAL		
				ADD'L FEE			ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Charles G. SHAMOON et al.

Examiner: Unknown

Group AU: Unknown

Appl. No.: 13/271,203

Att'y Dkt. No.: P2921569CON

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

Mail Stop Missing Parts
Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

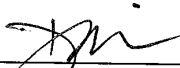
In response to the Notice to File Corrected Application Papers mailed on October 31, 2011, Applicant submits herein a Replacement Sheet for Figure 2 which cures the deficiencies noted in the Notice to File Corrected Application Papers. More specifically, the Notice indicated that portions of Figure 2 were missing and/or blurry. The Replacement Sheet as submitted herein simply provides a clearer drawing of Figure 2, and thus, no new matter is added.

Inasmuch as the Notice sets a two-month shortened statutory period which expired on December 31, 2011, this Response is accompanied by a request for a one-month extension of time, extending the due date to January 31, 2012, and therefore is considered timely.

However, if an extension is deemed by the Patent and Trademark Office to be necessary, the same is hereby requested and the Patent and Trademark Office is hereby authorized to charge any necessary fees in connection therewith or any fees necessary to preserve the pendency of this application to deposit account No. 50-2929, referencing Docket No: P2921569CON.

Should the Examiner have any questions or comments regarding this matter, the Examiner is invited to contact the undersigned at the below listed number.

Respectfully submitted,
Charles G. SHAMOON et al.



Abraham HersHKovitz
Reg. No. 45,294
Dinh Nguyen
Reg. No. 54, 923

Date: January 5 2012
HERSHKOVITZ & ASSOCIATES, LLC
2845 DUKE STREET
ALEXANDRIA, VA 22314
(703) 370-4800
(703) 370-4809 (FAX)

P2921569CON.A02; AH/DN/dg

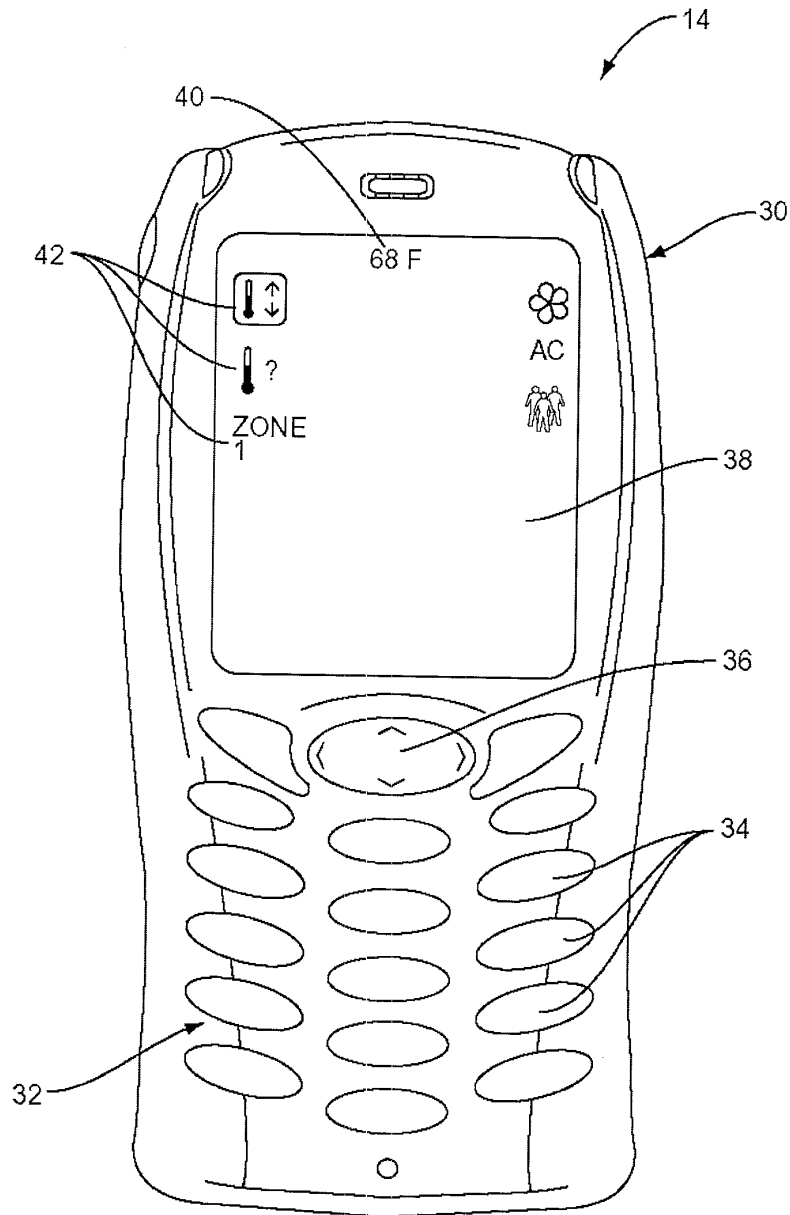


FIG. 2

Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Abraham HersHKovitz/Daniel Gordon		
Attorney Docket Number:		P2921569CON		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with \$0 paid	2251	1	75	75

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				75

Electronic Acknowledgement Receipt	
EFS ID:	11781487
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	40401
Filer:	Abraham HersHKovitz/Dinh Nguyen
Filer Authorized By:	Abraham HersHKovitz
Attorney Docket Number:	P2921569CON
Receipt Date:	06-JAN-2012
Filing Date:	11-OCT-2011
Time Stamp:	17:35:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$75
RAM confirmation Number	4857
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1		P2921569CON_A02_Resp_NFC AP_Repl_Sheet_and_EOT.pdf	156929 32d77dfdc4cf0b5544d94df874b4177a8fe3445	yes	5
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	1	
	Extension of Time		2	2	
	Miscellaneous Incoming Letter		3	4	
	Drawings-only black and white line drawings		5	5	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30536 459473485d907266735830746e2e0b11b9b0f3ac	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			187465		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



HERSHKOVITZ & ASSOCIATES, LLC

PATENT AGENCY

2845 DUKE STREET, ALEXANDRIA, VA 22314
TEL. 703-370-4800 ~ FACSIMILE 703-370-4809
patent@hershkovitz.net ~ www.hershkovitz.net

Applicant: Charles G. SHAMOON et al.

Examiner: Unknown

Group AU: Unknown

Appl. No.: 13/271,203

Att'y Dkt. No.: P2921569CON

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Commissioner:

Transmitted herewith is a **RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS**, a **REPLACEMENT SHEET** and a **REQUEST FOR EXTENSION OF TIME** in connection with the above-captioned matter.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
*Total Claims:			x 30=	\$	x 60=	\$
**Indep. Claims:			x 125=	\$	x250=	\$
Extension Fee for 1 Month				\$ 75		\$
Other:				\$		\$
Total:				\$ 75	Total:	\$

☒ Fee Payment made through EFS.

☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☒ The Director is hereby authorized to charge all fees under 37 CFR §§ 1.16 and 1.17 which may be required to maintain pendency of this application to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 CFR § 1.18 which may be required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,

Date: January 5, 2012

Abraham HersHKovitz
Registration No. 45,294
Dinh Nguyen
Registration No. 54,923

P2921569CON.A02; AH/DN/dg

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Charles G. SHAMOON et al.

Examiner: Unknown

Group AU: Unknown

Appl. No.: 13/271,203

Att'y Dkt. No.: P2921569CON

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

REQUEST FOR EXTENSION OF TIME

Mail Stop Missing Parts
Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Please extend the time for response to the Notice to File Corrected Application Papers dated October 31, 2011, having a due date of December 31, 2011, by one month, from December 31, 2011 to January 31, 2012.

The fee for this Request is being submitted concurrently herewith through EFS. However, the Patent and Trademark Office is hereby authorized to charge any fees necessary to preserve the pendency of this application, or credit any overpayment, to Deposit Account No. 50-2929, referencing Docket No. P2921569CON.

Respectfully submitted,
Charles G. SHAMOON et al.



Abraham HersHKovitz, Reg. No. 45,294
Dinh Nguyen, Reg. No. 54, 923

Date: January 5 2012
HERSHKOVITZ & ASSOCIATES, LLC
2845 DUKE STREET
ALEXANDRIA, VA 22314
(703) 370-4800
(703) 370-4809 (FAX)

P2921569CON.A02; AH/DN/dg

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/271,203	
APPLICATION AS FILED - PART I							
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	95		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	310		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	125		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	7	minus 20 = *	x 30 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *	x 125 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
			TOTAL	530		TOTAL	
* If the difference in column 1 is less than zero, enter "0" in column 2.							
APPLICATION AS AMENDED - PART II							
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		OTHER THAN SMALL ENTITY
	Total (37 CFR 1.16(i))	*	Minus **	=	x =		RATE(\$)
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =		ADDITIONAL FEE(\$)
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
				TOTAL ADD'L FEE		TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		OTHER THAN SMALL ENTITY
	Total (37 CFR 1.16(i))	*	Minus **	=	x =		RATE(\$)
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =		ADDITIONAL FEE(\$)
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
				TOTAL ADD'L FEE		TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.							



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
13/271,203	10/11/2011	2612	530	P2921569CON	7	2

CONFIRMATION NO. 1022

UPDATED FILING RECEIPT



0000000051971481

40401
HersHKovitz & Associates, LLC
2845 Duke Street
Alexandria, VA 22314

Date Mailed: 01/13/2012

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Charles G. Shamon, Little Elm, TX;
Deboral H. Shamon, Little Elm, TX;
Franklin Eugene Neal, Ashland, KY;
Michael Fehnel, Fuquay Varina, NC;

Power of Attorney: The patent practitioners associated with Customer Number 000040401

Domestic Priority data as claimed by applicant

This application is a CON of 11/686,993 03/16/2007 PAT 8064935 *
which is a DIV of 11/163,372 10/17/2005 PAT 7257397 *
which is a DIV of 11/160,006 06/06/2005 PAT 6990335 *
which claims benefit of 60/522,887 11/18/2004 *

(*)Data provided by applicant is not consistent with PTO records.

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 10/25/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/271,203**

Projected Publication Date: 04/19/2012

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Preliminary Class

340

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Form PTO-1449				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	13/271,203
				Filing Date	October 11, 2011
				First Named Inventor	Charles G. Shamoon
				Art Unit	2617
				Examiner Name	Xiang ZHANG
Sheet	1	of	3	Attorney Docket Number	P2921565
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A01	US 4,918,439	04-17-1990	Steve Wozniak et al.	
	A02	US 4,965,557	10-23-1990	Charles Schepers et al.	
	A03	US 5,109,222 A	04-28-1992	John Welty	
	A04	US 5,247,580 A	09-21-1993	Toshiyuki Kimura et al.	
	A05	US 5,544,036 A	08-06-1996	Robert J. Brown et al.	
	A06	US 5,545,857 A	08-13-1996	Sang-Su Lee et al	
	A07	US 5,579,496 A	11-26-1996	Bernard V. Steenbrugge	
	A08	US 5,621,662 A	04-15-1997	L. Scott Humphries et al.	
	A09	US 5,778,256 A	07-07-1998	Paul V. Darbee et al.	
	A10	US 5,805,530 A	09-08-1998	C. Eric Youngberg	
	A11	US 5,818,428 A	10-06-1998	Gerald Eisenbrandt et al.	
	A12	US 5,917,105 A	06-29-1999	Xiaojie Xu et al.	
	A13	US 5,924,486 A	07-20-1999	Gregory A. Ehlers et al.	
	A14	US 6,005,490 A	12-21-1999	Mario Higashihara	
	A15	US 6,014,089 A	01-11-2000	Michael J. Tracy et al.	
	A16	US 6,081,750 A	06-27-2000	Steven M. Hoffberg et al.	
	A17	US 6,104,334 A	08-15-2000	David E. Allport	
	A18	US 6,192,282 B1	02-20-2001	Marjorie L. Smith et al.	
	A19	US 6,195,589 B1	02-27-2001	Carl Ketcham	
	A20	US 6,216,956 B1	04-17-2001	Gregory A. Ehlers et al.	
	A21	US 6,260,765 B1	07-17-2001	Nicholas A. Natale et al.	
	A22	US 6,264,559 B1	07-24-2001	Lee G. Lawrence et al.	
	A23	US 6,301,481 B1	10-09-2001	Ivan P. Parra	
	A24	US 6,393,297 B1	05-21-2002	Ho J. Song	
Examiner Signature				Date Considered	

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Substitute for form PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13/271,203
				Filing Date	October 11, 2011
				First Named Inventor	Charles G. Shamoon
				Art Unit	2617
				Examiner Name	Xiang ZHANG
Sheet	2	of	3	Attorney Docket Number	P2921565
U.S. PATENT DOCUMENTS (cont'd)					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A25	US 6,394,359 B1	05-28-2002	Arthur Morgan	
	A26	US 6,398,727 B1	06-04-2002	Tuan Bui et al..	
	A27	US 6,476,714 B2	11-05-2002	Rika Mizuta	
	A28	US 6,650,249 B2	11-18-2003	Peter R. Meyer et al.	
	A29	US 6,813,474 B2	11-02-2004	Torrence Robinson et al.	
	A30	US 6,820,049 B1	11-16-2004	Daniel R. Monroe et al.	
	A31	US 6,847,822 B1	01-25-2005	Everett Dennison et al.	
	A32	US 6,854,660 B2	02-15-2005	Sang C. Yoon et al.	
	A33	US 6,873,824 B2	03-29-2005	Kenneth E. Flick	
	A34	US 6,919,790 B2	07-19-2005	Ritsuko Kanazawa	
	A35	US 6,934,862 B2	08-23-2005	John N. Sherwood et al.	
	A36	US 6,957,393 B2	10-18-2005	Andrew E. Fano et al.	
	A37	US 6,959,196 B1	10-25-2005	Mark L. Yarkosky	
	A38	US 6,970,539 B2	11-29-2005	M. Yamamoto et al.	
	A39	US 6,990,335 B1	01-24-2006	Charles G. Shamoon et al.	
	A40	US 7,005,979 B2	02-28-2006	Joseph L. Houghawout et al.	
	A41	US 7,031,663 B2	04-18-2006	Pekka Heinonen et al.	
	A42	US 7,257,397 B2	08-14-2007	Charles G. Shamoon et al.	
	A43	US 7,610,113 B2	10-27-2009	E. Cocciadiferro et al.	
	A44	US 2002/0149705 A1	10-17-2002	Paul G. Allen et al.	
	A45	US 2003/0034897 A1	02-20-2003	Charles G. Shamoon et al.	
	A46	US 2003/0034898 A1	02-20-2003	Charles G. Shamoon et al.	
	A47	US 2004/0092282 A1	05-13-2004	Kyoung-Won Kim et al.	
	A48	US 2004/0128033 A1	07-01-2004	Chia-Lin Ku et al.	
	A49	US 2004/0235446 A1	11-25-2004	J. Christopher Flaherty et al.	
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Substitute for form PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13/271,203
				Filing Date	October 11, 2011
				First Named Inventor	Charles G. Shamoon
				Art Unit	2617
				Examiner Name	Xiang ZHANG
Sheet	3	of	3	Attorney Docket Number	P2921565
U.S. PATENT DOCUMENTS (cont'd)					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A50	US 2004/0260406 A1	12-23-2004	Per H. Ljunggren et al.	
	A51	US 2005/0044225 A1	02-24-2005	Seiya Ota et al.	
	A52	US 2005/0259618 A1	11-24-2005	Deepak P. Ahya et al.	
	A53	US 2005/0079880 A1	04-14-2005	Peter J. Donner et al.	
	A54	US 2007/0167179 A1	07-19-2007	Charles G. Shamoon et al.	
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	C1	Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal "Intelligent and Versatile Control Terminal", 2 pages LZT 123 7602 R1D, 2003			
	C2	Sony Ericsson Mobile Communications International GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003			
	C3	Cellgard – Use your GSM cellphone as a remote control for almost anything, "Cellgard", http://www.cellgard.com/index.html , 2 pages (10/17/2005)			
	C4	Cellgard – Cellgard Technical Specifications, "Cellgard", http://www.cellgard.com/specs/index.html , 3 pages (10/17/2005)			
	C5	Cellgard – Frequently Asked Questions, "Cellgard", http://www.cellgard.com/faq/index.html , 4 pages (10/17/2005)			
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Electronic Acknowledgement Receipt	
EFS ID:	12261390
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	40401
Filer:	Abraham HersHKovitz/Dinh Nguyen
Filer Authorized By:	Abraham HersHKovitz
Attorney Docket Number:	P2921569CON
Receipt Date:	09-MAR-2012
Filing Date:	11-OCT-2011
Time Stamp:	09:31:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	P2921569_03-08-12_TLforCorr OFRand_Submissionof_ADS. pdf	54658 ae35257fc890bd0c9749ef849e6e9f41f3d6da3f	no	1
Warnings:					
Information:					

2	Miscellaneous Incoming Letter	P2921569_03-08-12_ReqforCor rOFRand_Submissionof_ADS. pdf	51134 6b2dd577641bb66e0c9d230dbc7d247913 362d29	no	2
Warnings:					
Information:					
3	Miscellaneous Incoming Letter	P2921569_03-08-12_corrected_ OFR.pdf	167236 f160130cdc5fc068565ed9b5d23d2048a65 05963	no	3
Warnings:					
Information:					
4	Application Data Sheet	P2921569_03-08-12_ADS.pdf	300071 ca3eeb0832e175f8c5922a62b0643d44a0b 3752c	no	6
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
5	Miscellaneous Incoming Letter	P2921569_03-08-12_Resubmis sionofInfo_TL.pdf	55000 275423f4c0336b0db799c0e7026285edf80 8e97	no	1
Warnings:					
Information:					
6	Miscellaneous Incoming Letter	P2921569_03-08-12_Resubmis sionofInfo.pdf	83875 3cc6ee2ad84b8d80fc9b273a311a0e89b19 015e8	no	4
Warnings:					
Information:					
7	Information Disclosure Statement (IDS) Form (SB08)	P2921569_03-08-12_PTO1449. pdf	211454 b153f7deae03d17f56b75cecd1432d0940 3e90	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
Total Files Size (in bytes):			923428		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



HERSHKOVITZ & ASSOCIATES, LLC

PATENT AGENCY

2845 DUKE STREET, ALEXANDRIA, VA 22314

TEL. 703-370-4800 ~ FACSIMILE 703-370-4809

patent@hershkovitz.net ~ www.hershkovitz.net

Applicant: Charles G. SHAMOON et al.

Examiner: Xiang ZHANG

Group AU: 2617

Appl. No.: 13/271,203

Att'y Dkt. No.: P2921569CON

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Dear Commissioner:

Transmitted herewith is a **REQUEST FOR CORRECTED FILING RECEIPT AND SUBMISSION OF CORRECTED APPLICATION DATA SHEET** in connection with the above-captioned matter.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
*Total Claims:			x 30=	\$	x 60=	\$
**Indep. Claims:			x 125=	\$	x250=	\$
Extension Fee for				\$		\$
Other:				\$		\$
Total:				\$	Total:	\$

☐ Fee Payment made through EFS.

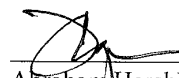
☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☒ The Director is hereby authorized to charge all fees under 37 CFR §§ 1.16 and 1.17 which may be required to maintain pendency of this application to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 CFR § 1.18 which may be required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,

Date: March 8, 2012


Abraham HersHKovitz
Registration No. 45,294
Dinh Nguyen
Registration No. 54,923

P2921569CON.A03; AH/DN/RMN

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Charles G. SHAMOON et al.

Examiner: Xiang ZHANG
Group AU: 2617

Appl. No.: 13/271,203

Appl. Filed: October 11, 2011

Att'y Dkt. No.: P2921569CON
Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

**REQUEST FOR CORRECTED FILING RECEIPT AND SUBMISSION OF
CORRECTED APPLICATION DATA SHEET**

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 23313-1450

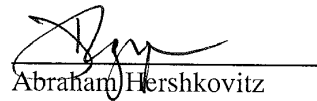
Sir:

A Filing Receipt and an Updated Filing Receipt were issued by the USPTO on October 31, 2011 and January 13, 2012, respectively, for the above-captioned matter. In the Receipts, the name of inventor Deborah H. SHAMOON is misspelled as "Deboral H. SHAMOON." Furthermore, Applicant filed concurrently with the application an Information Data Sheet that incorrectly lists the domestic priority data. While the domestic priority data listed in the Updated Filing Receipt is correct, applicant files herewith a correct Information Data Sheet. Applicant requests that the USPTO review the priority data in the Updated Filing Receipt again, which Applicant believes should be consistent with USPTO records.

An annotated copy of the January 13, 2012 Updated Filing Receipt is attached to show the incorrect information. Applicant courteously requests the Office to issue a complete and corrected Filing Receipt showing the corrected Inventors, as indicated in the Declaration filed with this application.

Should the Examiner have any questions or comments regarding this matter, the Examiner is invited to contact the undersigned at the below listed number.

Respectfully submitted,
Charles G. SHAMOON et al.



Abraham HersHKovitz
Reg. No. 45,294
Dinh Nguyen
Reg. No. 54, 923

Date: March 6, 2012
HERSHKOVITZ & ASSOCIATES, LLC
2845 DUKE STREET
ALEXANDRIA, VA 22314
(703) 370-4800
(703) 370-4809 (FAX)

P2921569CON.A03; AH/DN/rmn



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	TOT CLAIMS	IND CLAIMS
13/271,203	10/11/2011	2612	530	P2921569CON	7	2

CONFIRMATION NO. 1022

UPDATED FILING RECEIPT



OC000000051971481

40401
Hershkovitz & Associates, LLC
2845 Duke Street
Alexandria, VA 22314

Date Mailed: 01/13/2012

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Charles G. Shamon, Little Elm, TX;
Deborah H Deborah H. Shamon, Little Elm, TX;
Franklin Eugene Neal, Ashland, KY;
Michael Fehnel, Fuquay Varina, NC;

Power of Attorney: The patent practitioners associated with Customer Number 000040401

Domestic Priority data as claimed by applicant

This application is a CON of 11/686,993 03/16/2007 PAT 8064935 *
which is a DIV of 11/163,372 10/17/2005 PAT 7257397 *
which is a DIV of 11/160,006 06/06/2005 PAT 6990335 *
which claims benefit of 60/522,887 11/18/2004 *
(*)Data provided by applicant is not consistent with PTO records.

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 10/25/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/271,203**

Projected Publication Date: 04/19/2012

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Preliminary Class

340

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER**Title 35, United States Code, Section 184****Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

page 2 of 3

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage, facilitate, and accelerate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P2921569CON
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant 1					
Applicant Authority ☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Charles		Shamoon		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Little Elm	State/Province	TX	Country of Residence	US
Citizenship under 37 CFR 1.41(b)		US			
Mailing Address of Applicant:					
Address 1		2436 Tisbury Way			
Address 2					
City	Little Elm	State/Province	TX		
Postal Code	75068	Country	US		
Applicant 2					
Applicant Authority ☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Deborah		Shamoon		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Little Elm	State/Province	TX	Country of Residence	US
Citizenship under 37 CFR 1.41(b)		US			
Mailing Address of Applicant:					
Address 1		2436 Tisbury Way			
Address 2					
City	Little Elm	State/Province	TX		
Postal Code	75068	Country	US		
Applicant 3					
Applicant Authority ☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Franklin	Eugene	Neal		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Ashland	State/Province	KY	Country of Residence	US

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number		P2921569CON	
		Application Number			
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS				
Citizenship under 37 CFR 1.41(b)		US			
Mailing Address of Applicant:					
Address 1	9220 Oak Hill Drive				
Address 2					
City	Ashland	State/Province	KY		
Postal Code	41102	Country	US		
Applicant 4					
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117	
				☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Michael		Fehnel		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Fuquay Varina	State/Province	NC	Country of Residence	US
Citizenship under 37 CFR 1.41(b)		US			
Mailing Address of Applicant:					
Address 1	3021 Bentwillow Drive				
Address 2					
City	Fuquay Varina	State/Province	NC		
Postal Code	27526	Country	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					

Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
☐ An Address is being provided for the correspondence information of this application.	
Customer Number	40401
Email Address	Docket@hershkovitz.net
	Add Email Remove Email

Application Information:

Title of the Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
Attorney Docket Number	P2921569CON	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	P2921569CON
	Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐ Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	40401		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
Unknown	Continuation of	11686993	2007-03-16
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
11686993	Division of	11163372	2005-10-17
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
11163372	Division of	11160006	2005-06-06
Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
11160006	non provisional of	60522887	2004-11-18
Prior Application Status	Expired	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
60522887			2004-11-18
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P2921569CON
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

				Remove
Application Number	Country ¹	Parent Filing Date (YYYY-MM-DD)	Priority Claimed	
			☐ Yes ☒ No	
Additional Foreign Priority Data may be generated within this form by selecting the Add button.				

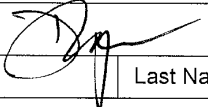
Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1				
If the Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information:				
Address 1				
Address 2				
City		State/Province		
Country		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee Data may be generated within this form by selecting the Add button.				

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature			Date (YYYY-MM-DD)	2012-03-08
First Name	DINH	Last Name	NGUYEN	Registration Number
			54923	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P2921569CON
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

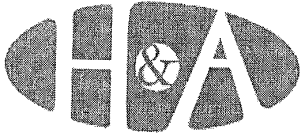
This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



HERSHKOVITZ & ASSOCIATES, LLC

PATENT AGENCY

2845 DUKE STREET, ALEXANDRIA, VA 22314

TEL. 703-370-4800 ~ FACSIMILE 703-370-4809

patent@hershkovitz.net ~ www.hershkovitz.net

Applicant: Charles G. SHAMOON et al.

Examiner: Xiang ZHANG

Group AU: 2617

Appl. No.: 13/271,203

Att'y Dkt. No.: P2921569CON

Confirmation No.: 1022

Appl. Filed: October 11, 2011

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Dear Commissioner:

Transmitted herewith is a **RESUBMISSION OF INFORMATION AND SUBSTITUTE PTO 1449 FORM AND REFERENCES** in connection with the above-captioned matter.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
*Total Claims:			x 30=	\$	x 60=	\$
**Indep. Claims:			x 125=	\$	x250=	\$
Extension Fee for				\$		\$
Other:				\$		\$
Total:				\$	Total:	\$

☐ Fee Payment made through EFS.

☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☒ The Director is hereby authorized to charge all fees under 37 CFR §§ 1.16 and 1.17 which may be required to maintain pendency of this application to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 CFR § 1.18 which may be required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,

Date: March 8, 2012


Abraham Hershkovitz

Registration No. 45,294

Dinh Nguyen

Registration No. 54,923

P2921569CON.A03; AH/DN/rmn

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Charles G. SHAMOON et al.

Examiner: Xiang ZHANG

Group AU: 2617

Appl. No.: 13/271,203

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Appl. Filed: October 11, 2011

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For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

RESUBMISSION OF INFORMATION

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 23313-1450

Dear Commissioner:

Pursuant to MPEP §609.02(A)(2), Applicant hereby directs the Examiner's attention to the following references which were cited and considered in the parent application of the present case upon which benefit is claimed under 35 USC §120:

1. 4,918,439
2. 4,965,557
3. 5,109,222
4. 5,247,580
5. 5,544,036
6. 5,545,857
7. 5,579,496
8. 5,621,662
9. 5,778,256
10. 5,805,530
11. 5,818,428
12. 5,917,105
13. 5,924,486
14. 6,005,490

15. 6,014,089
16. 6,081,750
17. 6,104,334
18. 6,192,282
19. 6,195,589
20. 6,216,956
21. 6,260,765
22. 6,264,559
23. 6,301,481
24. 6,393,297
25. 6,394,359
26. 6,398,727
27. 6,476,714
28. 6,650,249
29. 6,813,474
30. 6,820,049
31. 6,847,822
32. 6,854,660
33. 6,873,824
34. 6,919,790
35. 6,934,862
36. 6,957,393
37. 6,959,196
38. 6,970,539
39. 6,990,335
40. 7,005,979
41. 7,031,663
42. 7,257,397
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44. 2002/0149705
45. 2003/0034897

46. 2003/0034898
47. 2004/0092282
48. 2004/0128033
49. 2004/0235446
50. 2004/0260406
51. 2005/0044225
52. 2005/0079880
53. 2005/0259618
54. 2007/0167179

Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal “Intelligent and Versatile Control Terminal”, 2 pages LZT 123 7602 R1D, 2003;

Sony Ericsson Mobile Communications International GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003;

Cellgard – Use your GSM cellphone as a remote control for almost anything, “Cellgard”, <http://www.cellgard.com/index.html>, 2 pages (10/17/2005);

Cellgard – Cellgard Technical Specifications, “Cellgard”, <http://www.cellgard.com/specs/index.html>, 3 pages (10/17/2005); and

Cellgard – Frequently Asked Questions, “Cellgard”, <http://www.cellgard.com/faq/index.html>, 4 pages (10/17/2005)

In accordance with MPEP §609.02(A)(2), a new listing of the above references (Form PTO-1449) complying with the requirements of 37 CFR §1.98 is submitted concurrently herewith. No copies of the references are enclosed or are required in accordance with MPEP §609.02(A)(2). Additionally, no fee or statement is required for consideration of the above references.

Therefore, the Examiner is courteously requested to include a signed copy of the attached Form PTO-1449 with the next Communication from the USPTO to indicate consideration of the references listed herein.

The Examiner is invited to direct any questions to the undersigned at the below-listed contact numbers.

Respectfully submitted,
Charles G. SHAMOON et al.



Abraham HersHKovitz
Reg. No. 45,294

Dinh X. Nguyen
Reg. No. 54,294

Date: March 8, 2012

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P2921569CON.A03; AH/DN/rn



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
13/271,203	10/11/2011	2617	530	P2921569CON	7	2

CONFIRMATION NO. 1022

CORRECTED FILING RECEIPT



0000000033154376

40401
HersHKovitz & Associates, LLC
2845 Duke Street
Alexandria, VA 22314

Date Mailed: 03/19/2012

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Charles G. Shamon, Little Elm, TX;
Deborah H. Shamon, Little Elm, TX;
Franklin Eugene Neal, Ashland, KY;
Michael Fehnel, Fuquay Varina, NC;

Power of Attorney: The patent practitioners associated with Customer Number 000040401

Domestic Priority data as claimed by applicant

This application is a CON of 11/686,993 03/16/2007 PAT 8064935
which is a DIV of 11/163,372 10/17/2005 PAT 7257397
which is a DIV of 11/160,006 06/06/2005 PAT 6990335
which claims benefit of 60/522,887 11/18/2004

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 10/25/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/271,203**

Projected Publication Date: 04/19/2012

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Preliminary Class

455

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER**Title 35, United States Code, Section 184****Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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United States Patent and Trademark Office
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P.O. Box 1450
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	P2921569CON

CONFIRMATION NO. 1022

40401
Hershkovitz & Associates, LLC
2845 Duke Street
Alexandria, VA 22314

PUBLICATION NOTICE



Title:UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Publication No.US-2012-0094638-A1

Publication Date:04/19/2012

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publicly available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoan	P2921569CON	1022
40401 7590 02/07/2013 Hershkovitz & Associates, LLC 2845 Duke Street Alexandria, VA 22314			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 02/07/2013	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTO@hershkovitz.net
patent@hershkovitz.net

Office Action Summary	Application No.	Applicant(s)	
	13/271,203	SHAMOON ET AL.	
	Examiner	Art Unit	
	EDWARD ZHANG	2641	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 October 2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-7 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-7 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 11 October 2011 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)	3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. ____
2) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>03/09/2012</u>	4) ☐ Other: ____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of 35 U.S.C. 112(a):

(a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), first paragraph:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-7 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding claim 1, Applicant claims wherein a microprocessor configured to determine a present location of the slave remote unit based upon the tower cell identification (ID) information, and to determine a command based upon the present location. Applicants' claim as written includes "tower cell identification (ID) information" (emphasis added), including those unknown to applicant at the time of filing. Applicants' specification (i.e., [0057]) merely describes the bluetooth chipset identification.

Regarding claim 5, Applicant claims wherein the base station comprising: a processing portion configured to: receive a command from an unknown remote unit; b) determine an identity of the unknown remote unit. Applicants' claim as written includes

“determine an identity of the unknown remote unit” (emphasis added). Applicants' specification (i.e., “the operator may invoke the a command from the remote control unit 14 to the base control unit 16 to activate a select device such as the HVAC unit “, [0069]) merely teaches the command is sent by the remote control unit which may be known.

3. Therefore, the disclosure does not provide sufficient support to enable one skilled in the art to make and/or use the full scope of the claimed invention without undue experimentation. In re Wright, 999 F. 2d, 1557, 1562, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to XIANG ZHANG whose telephone number is (571)270-7693. The examiner can normally be reached on Monday-Thursday, 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah, can be reached on (571)272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/XIANG ZHANG/
Patent Examiner, Art Unit 2641

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

Receipt date: 03/09/2012

Form PTO-1449				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	13/271,203
				Filing Date	October 11, 2011
				First Named Inventor	Charles G. Shamoon
				Art Unit	2617
				Examiner Name	Xiang ZHANG
Sheet	1	of	3	Attorney Docket Number	P2921565
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/X.Z./	A01	US 4,918,439	04-17-1990	Steve Wozniak et al.	
/X.Z./	A02	US 4,965,557	10-23-1990	Charles Schepers et al.	
/X.Z./	A03	US 5,109,222 A	04-28-1992	John Welty	
/X.Z./	A04	US 5,247,580 A	09-21-1993	Toshiyuki Kimura et al.	
/X.Z./	A05	US 5,544,036 A	08-06-1996	Robert J. Brown et al.	
/X.Z./	A06	US 5,545,857 A	08-13-1996	Sang-Su Lee et al	
/X.Z./	A07	US 5,579,496 A	11-26-1996	Bernard V. Steenbrugge	
/X.Z./	A08	US 5,621,662 A	04-15-1997	L. Scott Humphries et al.	
/X.Z./	A09	US 5,778,256 A	07-07-1998	Paul V. Darbee et al.	
/X.Z./	A10	US 5,805,530 A	09-08-1998	C. Eric Youngberg	
/X.Z./	A11	US 5,818,428 A	10-06-1998	Gerald Eisenbrandt et al.	
/X.Z./	A12	US 5,917,105 A	06-29-1999	Xiaojie Xu et al.	
/X.Z./	A13	US 5,924,486 A	07-20-1999	Gregory A. Ehlers et al.	
/X.Z./	A14	US 6,005,490 A	12-21-1999	Mario Higashihara	
/X.Z./	A15	US 6,014,089 A	01-11-2000	Michael J. Tracy et al.	
/X.Z./	A16	US 6,081,750 A	06-27-2000	Steven M. Hoffberg et al.	
/X.Z./	A17	US 6,104,334 A	08-15-2000	David E. Allport	
/X.Z./	A18	US 6,192,282 B1	02-20-2001	Marjorie L. Smith et al.	
/X.Z./	A19	US 6,195,589 B1	02-27-2001	Carl Ketcham	
/X.Z./	A20	US 6,216,956 B1	04-17-2001	Gregory A. Ehlers et al.	
/X.Z./	A21	US 6,260,765 B1	07-17-2001	Nicholas A. Natale et al.	
/X.Z./	A22	US 6,264,559 B1	07-24-2001	Lee G. Lawrence et al.	
/X.Z./	A23	US 6,301,481 B1	10-09-2001	Ivan P. Parra	
/X.Z./	A24	US 6,393,297 B1	05-21-2002	Ho J. Song	
Examiner Signature	/Xiang Zhang/			Date Considered	01/24/2013

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Receipt date: 03/09/2012

Substitute for form PTO-1449				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	13/271,203
				Filing Date	October 11, 2011
				First Named Inventor	Charles G. Shamoon
				Art Unit	2617
				Examiner Name	Xiang ZHANG
Sheet	2	of	3	Attorney Docket Number	P2921565
U.S. PATENT DOCUMENTS (cont'd)					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/X.Z./	A25	US 6,394,359 B1	05-28-2002	Arthur Morgan	
/X.Z./	A26	US 6,398,727 B1	06-04-2002	Tuan Bui et al..	
/X.Z./	A27	US 6,476,714 B2	11-05-2002	Rika Mizuta	
/X.Z./	A28	US 6,650,249 B2	11-18-2003	Peter R. Meyer et al.	
/X.Z./	A29	US 6,813,474 B2	11-02-2004	Torrence Robinson et al.	
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/X.Z./	A31	US 6,847,822 B1	01-25-2005	Everett Dennison et al.	
/X.Z./	A32	US 6,854,660 B2	02-15-2005	Sang C. Yoon et al.	
/X.Z./	A33	US 6,873,824 B2	03-29-2005	Kenneth E. Flick	
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/X.Z./	A36	US 6,957,393 B2	10-18-2005	Andrew E. Fano et al.	
/X.Z./	A37	US 6,959,196 B1	10-25-2005	Mark L. Yarkosky	
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/X.Z./	A46	US 2003/0034898 A1	02-20-2003	Charles G. Shamoon et al.	
/X.Z./	A47	US 2004/0092282 A1	05-13-2004	Kyoung-Won Kim et al.	
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/X.Z./	A49	US 2004/0235446 A1	11-25-2004	J. Christopher Flaherty et al.	
Examiner Signature	/Xiang Zhang/			Date Considered	01/24/2013

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Sheet	3	of	3	Attorney Docket Number	P2921565
U.S. PATENT DOCUMENTS (cont'd)					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/X.Z./	A50	US 2004/0260406 A1	12-23-2004	Per H. Ljunggren et al.	
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/X.Z./	A52	US 2005/0259618 A1	11-24-2005	Deepak P. Ahya et al.	
/X.Z./	A53	US 2005/0079880 A1	04-14-2005	Peter J. Donner et al.	
/X.Z./	A54	US 2007/0167179 A1	07-19-2007	Charles G. Shamoon et al.	
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
/X.Z./	C1	Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal "Intelligent and Versatile Control Terminal", 2 pages LZT 123 7602 R1D, 2003			
/X.Z./	C2	Sony Ericsson Mobile Communications International GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003			
/X.Z./	C3	Cellgard – Use your GSM cellphone as a remote control for almost anything, "Cellgard", http://www.cellgard.com/index.html , 2 pages (10/17/2005)			
/X.Z./	C4	Cellgard – Cellgard Technical Specifications, "Cellgard", http://www.cellgard.com/specs/index.html , 3 pages (10/17/2005)			
/X.Z./	C5	Cellgard – Frequently Asked Questions, "Cellgard", http://www.cellgard.com/faq/index.html , 4 pages (10/17/2005)			
Examiner Signature		/Xiang Zhang/		Date Considered	01/24/2013

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Search Notes 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	466,404.2,414.2,456.1-456.6	01/31/2013	X.Z

SEARCH NOTES		
Search Notes	Date	Examiner
See East Search Notes	02/01/2013	X.Z
Consulted Primary Examiner Olumide	01/29/2013	X.Z

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	11995	(determin\$6 judg\$6 distinguish\$4) with master with slave	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 14:03
S2	18805	455/466,404.2,414.2,456.1-456.6.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 14:06
S3	154	((master with slave with ((according base\$4) near5 (command cmd message signal\$3 pilot sms beacon)) with (location coordinat\$4 position))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 14:07
S4	154	((master with slave with ((according base\$4) near5 (command cmd message signal\$3 pilot sms beacon)) with (location coordinat\$4 position))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 14:08
S5	63	S1 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 14:08
S6	1	"13271203"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 14:10
S7	27	S5 and @ad<"20050106"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 14:10
S8	3	(slave with (bsid "base station identifier" "base station identification" "cell ID" "cell identifier") with (location position coordinat\$4)) and @ad<"20050106"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 15:22
S9	1	"13271023"	US-PGPUB;	OR	OFF	2013/01/24 15:25

			USPAT; USOCR; EPO; JPO; DERWENT			
S10	3	(slave with (bsid "base station identifier" "base station identification" "cell ID" "cell identifier") same (location position coordinat\$4)) and @ad<"20050106"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 15:32
S11	3	(slave same (bsid "base station identifier" "base station identification" "cell ID" "cell identifier") same (location position coordinat\$4)) and @ad<"20050106"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 15:33
S12	14	(slave same ((cell bst bts (base adj3 station) enode nodeb) adj2 ("ID" identifier identification)) same (location position coordinat\$4)) and @ad<"20050106"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 15:34
S13	2327	"5247580" "5109222" "5544036" "5545857" "5579496" "5621662" "5778256" "5805530" "5917105" "5924486" "6005490" "6014089" "6081750" "6104334" "6081750" "6192282" "6195589" "6216956" "6260765" "6264559" "6301481" "6393297" "6394359" "6398727" "9476714" "6650249" "6813474" "6820049" "6847822" "6854660" "6873824" "6919790" "6934862" "6957393" "6959196" "6970539" "6990335" "7005979" "7031663" "7257397" "7640113" "20020149705" "20060064897" "20030034898" "20040092282" "20040128033" "50040235446" "20040260406" "20050044225" "20050259618" "20050079880" "20070167179"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 15:40
S14	6	S13 and ((bsid "base station identifier" "base station identification" "cell ID" "cell identifier") same (location position coordinat\$4))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 15:40
S15	2	(slave with (bsid "base station identifier" "base station identification" "cell ID" "cell identifier") same (locat\$4 trac\$6)) and @ad<"20050106"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 15:49
S16	564	(slave with (obey\$4 follow\$5 command\$4) with determin\$5 with master) and @ad<"20050106"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 15:57
S17	6	S2 and S16	US- PGPUB;	OR	OFF	2013/01/24 15:58

			USPAT; USOCR; EPO; JPO; DERWENT			
S18	0	(slave with (obey\$4 follow\$5 command\$4) with determin\$5 with master with (enode "access point" nodeb bst bts (base adj3 station))) and @ad< "20050106"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 16:14
S19	60	(slave with determin\$5 with master with (enode "access point" nodeb bst bts (base adj3 station))) and @ad< "20050106"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 16:14
S20	2	"7164887" and (slave with (signal message sms ims pilot command\$4) with master)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 16:33
S21	2	"20030124979" and (("access point" "base station") same master same slave)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/24 16:53
S22	5974	455/466.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 17:55
S23	10	S22 and (master with slave with ((base adj3 station) (access adj point) controller enode nodeb bst))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 17:55
S24	5	S23 and @ad< "20050106"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 17:56
S25	1	S23 and @ad< "20050106" and ("ID" identifier mac)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 17:56
S26	2096	@ad< "20050106" and ("ID" identifier mac) and (master with slave with ((base adj3 station) (access adj point) controller enode nodeb bst))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 17:57
S27	244	@ad< "20050106" and (("ID" identifier mac) same (master with slave with ((base	US- PGPUB;	OR	OFF	2013/01/31 17:57

		adj3 station) (access adj point) controller enode nodeb bst)))	USPAT; USOCR; EPO; JPO; DERWENT			
S28	196	@ad<"20050106" and (("ID" identifier) same (master with slave with ((base adj3 station) (access adj point) controller enode nodeb bst)))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 17:57
S29	8	@ad<"20050106" and (("ID" identifier) same (master with slave with ((base adj3 station) (access adj point) controller enode nodeb bst)) with (command "cmd"))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 17:58
S30	189	@ad<"20050106" and (("ID" identifier) same (master with slave with (computer server)))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 18:06
S31	7	@ad<"20050106" and (("ID" identifier) same (master with slave with (computer server)) with (cmd command))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 18:06
S32	0	@ad<"20050106" and (("ID" identifier) same (master with slave with (gateway)) with (cmd command))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 18:08
S33	49	@ad<"20050106" and (("ID" identifier) same (master with slave same (gateway server (base adj3 station) (access adj point) controller enode nodeb bst)) same (cmd command))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 18:09
S34	360	@ad<"20050106" and (master with (gateway server (base adj3 station) (access adj point) controller enode nodeb bst)) with (slave near6 (cmd command))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 18:20
S35	78	S34 and ("709".clas. "370".clas. "455".clas. "345".clas. "340".clas.)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 18:21
S36	34	S34 and ("709".clas. "370".clas. "455".clas. "345".clas. "340".clas.) and (("id" identifier identification mac))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 18:22
S37	56	@ad<"20050106" and (master with (gateway server (base adj3 station)	US- PGPUB;	OR	OFF	2013/01/31 18:29

EAST Search History

		(access adj point) enode nodeb bst)) with (slave near6 (cmd command))	USPAT; USOCR; EPO; JPO; DERWENT			
S38	81	@ad<"20050106" and (master with (gateway server (base adj3 station) (access adj point) enode nodeb bst)) with (slave with(cmd command))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/01/31 18:29

EAST Search History (Interference)

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2/ 1/ 2013 1:39:17 AM**C:\ Users\ xzhang\ Documents\ EAST\ Workspaces\ 13271203.wsp**



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BIB DATA SHEET

CONFIRMATION NO. 1022

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
13/271,203	10/11/2011	455	2641	P2921569CON		
APPLICANTS Charles G. Shamoan, Little Elm, TX; Deborah H. Shamoan, Little Elm, TX; Franklin Eugene Neal, Ashland, KY; Michael Fehnel, Fuquay Varina, NC;						
** CONTINUING DATA ***** This application is a CON of 11/686,993 03/16/2007 PAT 8,064,935 which is a DIV of 11/163,372 10/17/2005 PAT 7,257,397 which is a DIV of 11/160,006 06/06/2005 PAT 6,990,335 which claims benefit of 60/522,887 11/18/2004						
** FOREIGN APPLICATIONS *****						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 10/25/2011						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/EDWARD ZHANG/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY TX	SHEETS DRAWINGS 4	TOTAL CLAIMS 7	INDEPENDENT CLAIMS 2
ADDRESS Hershkovitz & Associates, LLC 2845 Duke Street Alexandria, VA 22314 UNITED STATES						
TITLE UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS						
FILING FEE RECEIVED 530	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Charles G. Shamoon *et al.*

Confirmation No. 1022

Appl. No. 13/271,203

Group Art Unit: 2641

Filed: October 11, 2011

Examiner: Zhang, Xiang

For: UBIQUITOUS CONNECTIVITY AND CONTROL
SYSTEM FOR REMOTE LOCATIONS

AMENDMENT UNDER 37 C.F.R. §1.111

Mail Stop: Amendments

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313

Dear Commissioner:

Please enter the following response, amending the above-identified application. In reply to the Office Action of February 7, 2013, reconsideration and withdrawal of the rejection made therein are respectfully requested, in view of the following amendments and remarks.

This Amendment is timely filed because the Office Action sets a three-month statutory period for response and the Applicants file herewith a petition for a three-month extension of time, with the required fee, thus extending the due date to August 7, 2013. However, if the Commissioner determines that an additional fee is needed, the U.S. Patent & Trademark Office is hereby authorized to charge any fees in connection therewith or any fee necessary to preserve the pendency of this application or credit any overpayment to Deposit Account No. 50-2929, making reference to Attorney Docket No. P2921569CON.

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-7 and add new claims 8-10. No new matter is added. Each claim is accompanied by a status identifier.

1-7. (Canceled)

8. (New) A base unit configured to communicate with an environmental device and to communicate with a master remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the master remote unit via a communications network and to receive a second message from the master remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command to the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device.

9. (New) The base unit according to claim 8,
wherein the wireless communication interface is configured to send a third message to a
subordinate remote unit via the communications network and to receive a fourth message
from the subordinate remote unit via the communications network,
wherein the fourth message includes a subordinate command to the environmental
device; and
wherein the microcontroller is configured to process the fourth message and to send selectively a
second control instruction based on the subordinate command via the first
communication interface to the environmental device.
10. (New) The base unit according to claim 8, wherein the communications network is a
cellular communications network.

REMARKS**Claim Rejections Under 35 U.S.C. §112**

In the Office Action, claims 1-7 were rejected under 35 U.S.C. §112 (pre-AIA), first paragraph, because they allegedly fail to comply with the enablement requirement. In order to overcome this rejection, Applicant has cancelled claims 1-7 without prejudice to re-filing them in this application or in a related application.

To expedite prosecution, Applicants have submitted new claims 8-10 which are believed to comply with the enablement requirement. Support for the recitations contained in new claims 8-10 is found throughout the original specification. Thus, no new matter is added.

Applicants' representative will telephone the Examiner shortly for the purpose of arranging a personal interview in order to discuss new claims 8-10 and their patentability over known prior art. Thus, the Examiner is requested to refrain from issuing another Office Action until sometime after the interview is held.

Conclusion

Accordingly, withdrawal of the rejection of canceled claims 1-7 is in order and allowance of the new claims 8-10 is earnestly solicited in the next communication from the Examiner.

It is believed that all pending issues have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be other reasons for patentability of any or all pending claims or other claims that have not been expressed. Finally, nothing in this reply should be construed as an intent to concede any issue with regard to any claim, and the cancellation of any claim does not necessarily signify concession of the unpatentability of the claim prior to its cancellation.

If the Examiner has any questions or comments regarding this application before the Applicants' representative telephones him for a personal interview, the undersigned first practitioner may be called at the below-listed telephone number.

Respectfully submitted,

Charles G. Shamoon *et al.*

/Dinh X. Nguyen/

Date: August 6, 2013

Abraham HersHKovitz

Reg. No. 45,294

Dinh X. Nguyen

Reg. No. 54,923

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P2921569CON.A04; AH/DXN/JS

Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Abraham HersHKovitz/Rose Nichols		
Attorney Docket Number:		P2921569CON		
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Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
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Extension - 3 months with \$0 paid	2253	1	700	700

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
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Electronic Acknowledgement Receipt	
EFS ID:	16514596
Application Number:	13271203
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First Named Inventor/Applicant Name:	Charles G. Shamoon
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1	Transmittal Letter	P2921569CON-A04-TL.pdf	134390 e1b11fba49ca150d12199f774f124497dd2e8df	no	1
Warnings:					
Information:					
2	Extension of Time	P2921569-A04-3Mos-EOT.pdf	97635 dc108cebfa8dd80c71afe529f8bf283fa098556	no	1
Warnings:					
Information:					
3	Amendment/Req. Reconsideration-After Non-Final Reject	P2921569CON-A04-08-06-13-Amdt.pdf	119514 e2ffc8e52a547cc4ca84e7f27e5c03bb8db5374d	no	5
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30614 8a09c31688671059c0b1868e863d1de4dbceee15a	no	2
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Information:					
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Applicants: Charles G. SHAMOON *et al.*

Examiner: Xiang ZHANG

Appl. No. 13/271,203

Group Art Unit: 2617

Appl. Filed: October 11, 2011

Confirmation No. 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Mail Stop: Amendments

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313

Dear Commissioner:

Transmitted herewith are an **AMENDMENT UNDER 37 C.F.R. §1.111** and a **REQUEST FOR EXTENSION OF TIME** in connection with the above-captioned application.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
Total Claims:	20	0	x 40=	\$ 0	x 80=	\$
Indep. Claims:	3	0	x 210=	\$ 0	X420=	\$
Extension Fee for 3 months				\$700.		\$
Other: None				\$ 0		\$
Total:				\$700.	Total:	\$

☐ Fee Payment made through EFS.

☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☒ The Director is hereby authorized to charge all fees under 37 C.F.R. §1.16 and §1.17 which may be required to maintain pendency of this application to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 C.F.R. §1.18 which may be required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,
Charles G. SHAMOON *et al.*

/Dinh X. Nguyen/

Date: August 6, 2013

Abraham Hershkovitz
Registration No. 45,294
Dinh X. Nguyen
Registration No. 54,923
Joseph Scafetta Jr.
Registration No. 26,803

P2921569CON.A04; AH/DXN/JS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICEApplicants: Charles G. SHAMOON *et al.*

Examiner: Xiang ZHANG

Appl. No. 13/271,203

Group Art Unit: 2617

Appl. Filed: October 11, 2011

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For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

REQUEST FOR EXTENSION OF TIME**Mail Stop: Amendments**

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313

Dear Commissioner:

Please extend the time for response to the Office Action dated February 7, 2013, having a due date of May 7, 2013, by three months, from May 7, 2013 to August 7, 2013.

The fee for this Request is being submitted concurrently herewith through EFS. However, the U.S. Patent and Trademark Office is hereby authorized to charge any more fees necessary to preserve the pendency of this application, or credit any overpayment, to Deposit Account No. 50-2929, referencing Docket No. P2921569CON.

Respectfully submitted,

Charles G. SHAMOON *et al.*

/Dinh X. Nguyen/

Abraham HersHKovitz, Reg. No. 45,294

Dinh X. Nguyen, Reg. No. 54, 923

Joseph Scafetta Jr., Reg. No. 26,803

Date: August 6, 2013

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	08/06/2013		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		* 3		Minus	** 20	= 0		
	Independent (37 CFR 1.16(h))		* 1		Minus	*** 3	= 0		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$40 =		0	
						X \$210 =		0	
						TOTAL ADD'L FEE		0	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		*		Minus	**	=		
	Independent (37 CFR 1.16(h))		*		Minus	***	=		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$ =			
						X \$ =			
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form PTO-1449				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	13/271,203
				Filing Date	October 11, 2011
				First Named Inventor	Charles G. SHAMOON
				Art Unit	2641
				Examiner Name	Xiang ZHANG
Sheet	1	of	1	Attorney Docket Number	P2921569CON
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US 7,130,719	10-31-2006	Ehlers et al.	
	A2	US 7,363,031	04-22-2008	Aisa	
	A3	US 7,379,997	05-27-2008	Ehlers et al.	
	A4	US 7,418,428	08-26-2008	Ehlers et al.	
	A5	US 7,639,157	12-29-2009	Whitley et al.	
	A6	US 7,792,256	09-07-2010	Arledge et al.	
	A7	US 7,904,074	03-08-2011	Karaoguz et al.	
	A8	US 8,180,336	05-15-2012	Wesby	
	A9	US 2004/0063446	04-01-2004	Kennett	
	A10	US 2006/0147003	07-06-2006	Archacki, Jr. et al.	
	A11	US 2006/0149395	07-06-2006	Archacki, Jr. et al.	
	A12				
FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	B1	WO 0165875 A1	09-07-2001	Sabie	
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	C1				
	C2				
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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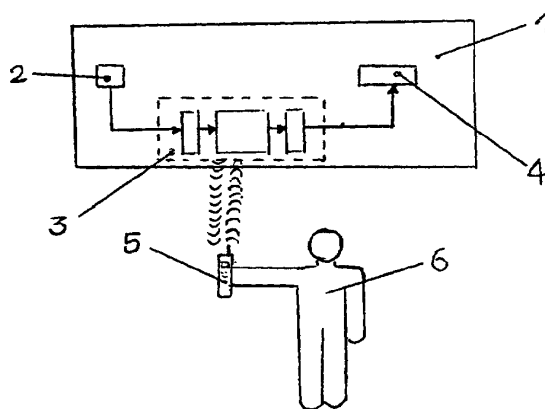
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND DEVICE FOR REMOTE CONTROL AND REMOTE MONITORING VIA SHORT MESSAGE SERVICE



(57) Abstract: Information and Remote Control and Administration Method and Device. It uses a mobile phone network SMS (short messages service) service. Features: the user receives to a mobile phone data as SMS messages; data refer to certain parameters from a certain long distance area of interest, through sensors/measuring devices which transmit all measured data from the area of interest to a device for applying the method. The device for applying the method is characterized by a data reception interface, which transforms the received data in digital signals. These signals are locally transmitted to a two way pager (or any other device able to transmit - receive SMS messages). The pager sends SMS messages, through the mobile phone network, according to the loaded program, to the user's mobile phone. The user, using the same mobile phone, can send SMS messages, through the mobile phone network, to the device for applying the method. The above mentioned device controls/commands the devices/plants from the area of interest, through a control interface, according to the instructions contained by the control messages received from the user.

WO 01/65875 A1

METHOD AND DEVICE FOR REMOTE CONTROL AND REMOTE MONITORING VIA SHORT MESSAGE SERVICE

This present invention refers to both the information process and the remote control & administration process, as method and device, based on any mobile phone network' Short Message Service (SMS).

The industrial information and the remote control & administration methods and devices are well known. All of these are generally used in factories, plants, power stations in such purposes as supervising and controlling the industrial processes. These information and remote control & administration methods and devices have the following disadvantages:

- the application area is exclusively an industrial one
- the devices are dedicated by application (especially built for each application)
- the devices are extremely complicated
- all these devices involve high costs

This present invention removes all the disadvantages mentioned above by having universal application, being versatile, being a simple device and easy to be used.

According to this present invention, specific to the information and remote control & administration method and device is the fact that the user receives data from certain parameters which belongs to a certain long distance area of interest, through sensors or measuring devices. These sensors/ measuring devices are transmitting the measured data from that specific area of interest to the information and remote control & administration device. Specific to this device is the fact that it is constituted of one reception interface, one control interface and a two-way pager (or any other device for SMS messages transmission reception) connected to the both above mentioned interfaces. The reception interface has the following functions: to take data from the sensors/ measuring devices, to translate all these information and to send them to the two-way pager. The control interface has the following functions: to take all data from the two-way pager and according to these data to make the command for those devices and plants from the area of interest. The two-way pager has the following functions: to receive data from the reception interface, to give the command to the control interface and to transmit and receive SMS messages to & from the user's mobile phone. In this way, the user has the possibility to be well informed about what is going on in his area of interest and to be able to take action as he likes to, without being actually in the

area of interest. The user can easily do these by transmitting, through his mobile phone, commands, as SMS commands, to the information and remote control & administration device, which controls all the devices & plants from the area of interest. In this way, all the parameters' values of the devices & plants from the area of interest get changed as the user wishes.

The method and the device can be "Information Method and Device" just in case the device used for applying the method is equipped just for transmitting data from the area of interest to the user. In this case, the device doesn't include the control interface and the pager is an one-way pager.

The method and the device can be "Information and Remote Control & Administration Method and Device" just in case the device used for applying the method can administrate the process. In this case the two-way pager is programmed to:

- operate devices & plants from the area of interest, through the control interface, at certain values of the measured parameters;
- transmit all data to the user, in certain conditions according to the program in it, so the user can control the devices & plants from the area of interest as he wishes.

By using devices and usual technologies, this present invention has the following advantages:

- the user is movable, being not tied down to any particularly location;
- all its applications are universal, the personal ones as well as the industrial ones;
- all areas of interest can be easily supervised by the user just using an ordinary mobile phone;
- the user can have as many area of interest as he wishes, by using any number of devices for applying the method he wants to. All these devices are receiving & sending messages from & to only one mobile phone;
- the distance between the areas of interest can be a large one. Distances are depending only on the mobile phone network coverage and its roaming, so the user can use the system from outside his country;
- all commands can be made also from any computer which is connected to the Internet, through any SMS messages site;
- these are very adaptable;
- these have an extensive application area and the user can easily combine the needed fields, as private, industrial, business a.s.o.;
- these are simple and costs are low;
- these are extremely fast in action.

A complete and detailed description of the invention's object can be found below, as the draws no. 1, 2, 3 and 4 picture.

Draw no. 1 pictures a general scheme for achieving the method. This one uses only one sensor or measuring device and control only one device or plant from a single area of interest. It has the following components:

- 1: area of interest
- 2: sensor or measuring device
- 3: device for applying the method
- 4: controlled device or plant
- 5: mobile phone
- 6: user

Draw no. 2 pictures the necessary scheme for building the method application device. It has the following components:

- 7: two-way pager or any other device capable to transmit receive an SMS message
- 8: reception interface
- 9: control interface

Draw no. 3 pictures the general scheme of that method which uses more than one sensors or measuring devices and more than one controlled devices and plants, placed in more than one area of interest.

According to this present invention, the information and remote control method and device are meant for the following purpose: a movable or not user, 6, being placed to any distance away from the area of interest 1, to be able to receive information referring to some certain parameters from that area and also to be able to control certain devices or plants 4, from that area of interest 1, in order to modify the values of those parameters as the user 6 wants.

All values of those parameters are measured by using sensors or measuring devices 2, which are transmitting the measured data to the device for applying the method 3.

The device for applying the method 3 is constituted of: the reception interface 8, a two-way pager 7 (or any other device capable to transmit receive an SMS message) and a control interface 9.

The reception interface 8 is receiving data from the sensors or measuring devices 2 and also is transforming all those data in digital signals which are locally sent to a two-way pager 7 (or any other device capable to transmit receive

an SMS message). The pager is receiving and transforming data, based on the contained program, as SMS messages.

Next the same pager is transmitting the messages through the mobile phone network to the user's 6 mobile phone 5. The mobile phone 5 is noticing and informing the user 6. When the messages are received by the user, he has the possibility to send control messages, as SMS messages, through the mobile phone network, to the device for applying the method 3. This device is receiving the messages through the two-way pager 7 and is transforming these in digital signals. The obtained digital signals are sent to the control interface 9 which is controlling the devices/ plants 4 from the area of interest 1, according to the received messages/ commands from the user 6.

If the user 6 is only informed about what are the changes in the area of interest 1, the method and the device are "Information Method and Device". In this particularly case, the device for applying the method 3 is having only the following components: the reception interface 8 and a one-way pager 7, and it is only transmitting data from the area of interest 1 to the user 6.

The method and the device are "Control Method and Device" if: the user 6 can control devices & plants 4, placed in his area of interest 1; the user is transmitting through his mobile phone 5 control messages as SMS messages, to a device for applying the method 3. The mentioned device for applying the method has the following components: one-way pager 7 (or any other device which can receive SMS messages), which is receiving SMS messages, and a control interface 9, through which it's controlling the devices & plants 4, from the user's 6 area of interest 1, as the user wishes.

The method and the device are "Information and Remote Control & Administration Method and Device" if: inside the device for applying the method 3, the two way pager 7 is programmed to control the devices & plants 4 from the area of interest 1, at certain values of the measured parameters and in certain conditions according to the loaded program, to transmit all data to the user 6, so the user can control as he wishes the devices & plants 4 from the area of interest 1. The area of interest 1 can be any location where from the user wants to receive data/ information. That supposes that the area of interest can be any location where technological process takes place, any machine, any room, any house, any office, any building, any plant, any car a.s.o. The sensors/ measuring devices 2 notice and measure parameters as: the electric current' intensity, the temperature, the pressure, the humidity, fluid flows, the luminosity, the smoke quantity, any motion, any touch, any data transfer a.s.o., generally speaking any parameter which can be measured. Data transmission from the sensors/ measuring devices 2 to the reception interface can be realized by wire as well as wireless (for instance by using infra-red technology, radio waves a.s.o.). The sensor can be a video

camera. In this case, the transmitted data are even images from the area of interest 1, which can be received on the user's mobile phone display 5, as the current technologies facilitate it.

The device for applying the information & remote control method 3 has the following components:

- reception interface 8 – its duties are: receiving the signals from the sensors and measuring devices 2, transforming these signals in digital signals, sending these to the two way pager 7 through a port.
- the two way pager 7 – its duties are: the first main duties category is to receive data from the reception interface 8, to process these data and to send them to the user 6 as SMS messages, according to the contained program. The second main duties category is to receive messages as SMS messages from the user 6 and to control the controlled devices/plants 4 according to their own instructions. The third duties category (an optional one) is to confirm the change of parameters values' as user 6 wanted. If the sensors/ measuring devices 2 or the controlled devices & plants 4 are spread over to a larger area can be used a bigger number of two way pagers. The contained program by the two way pager works in an external computer and can be loaded in the pager's internal flash memory, based on the same procedure the program is loaded into the mobile phone. The two way pagers can be replaced with fixed cellular phones or any other device able to transmit SMS messages in order to avoid the data transmission problems, as SMS messages between pagers and mobile phones, or in order to avoid the two way pagers manufacturing with new technologies. A two way pager can achieve both the information duty and the control duty or it can achieve separately the information duty or the control one (the user 6 can be informed through the pager and control the parameters through another pager). These pagers can achieve also the administration duty, the administration program complexity and its administration capacity as many devices and plants being limited only by the internal memory capacity (in which the above mentioned program is loaded). If the memory isn't large enough, the administration duty can be achieve by a computer which is communicating with the mentioned pager and this one is sending the messages forward.
- the control interface 9 – its duty is to control the controlled devices/plants 4, placed in the area of interest 1, according to the user's messages 6 sent through the two way pager 7. This kind of interfaces (with digital command) is generally used in the industry. A private applications world

wide can generate these applications' standardization (for the labor saving devices remote control and for lower costs).

- the controlled devices/ plants 4 – their duty is to modify the parameters values from the area of interest 1. These devices can be controlled through the control interface 9. These devices can be: technological/ private devices/ plants for cooling/ heating, illuminating devices, alarm systems, audio video equipment, devices for doors' blocking up, video camera, or any other machine/ device/ plant to which can be adjusted a control interface.
- the mobile phone 5 – it can be any digital mobile phone which can receive SMS messages. The communication network can be any one that allows the SMS messages transmission: GSM type, satellite transmission a.s.o.
- the user 6 – is a person and just in case can be a group of persons which share the area of interest or segments of it. In this particularly case some of the used sensors/ measuring devices 2 or some of the used controlled devices/ plants 4 can simultaneous serve, in different combinations, more than one user 6 and being connected to more than one device for applying the method 3. The user 6 will be informed in those ways, events and time stipulated in the program. The user 6 will be able to send control messages according to the specific program mode of operation.

There are few practical samples for the invention' application:

- If in the user's home the temperature lowered too much, the sensor transmits the parameter value to the two way pager; the pager transmits the above mentioned value to the user, as SMS message; the user has the choice to transmit the command to turn on the hitting system or to limit the temperature, as he wishes.
- If in a green house the humidity lowers too much, the parameter value is transmitted to the user which can control the irrigation plants as he wants to.
- The traffic or anybody's presence in certain locations (houses, offices, fields a.s.o.) can be monitoring by simple intimation or by messages or even by images transmission on the user's mobile phone display; if the user notices that the intruders are unknown persons, he can easily activate the alarm/ the doors blocking up device, call the police, go to his area of interest a.s.o.
- Certain equipment/ other devices usage can be monitoring.

- If the water dangerously penetrates into certain spaces, if there is enough light in the area of interest a.s.o.
- Un-hospitalized sick persons and also children home alone can be monitored; for instance if the child home alone wakes up and cries, the noise/ movement sensor informs the user; the user can turn on the lights, turn on the CD player (nice relaxing music) from long distance; in the mean while the video camera, having its certain location, can be activated and able to transmit images to the user's mobile phone display.
- If the user is away (vacation for instance) no matter where in the world but he can receive SMS messages, he can easily find out if an intruder goes in his home, if it is a fire in his home, if it is cold/ hot in his home, if it is a flood in his home a.s.o. and he can take action consequently.
- If the user is away for a certain period of time he can discourage any burglar by remote control the illumination system, the CD player, the TV set a.s.o. every evening so any outsider gets the impression that the user is at home.

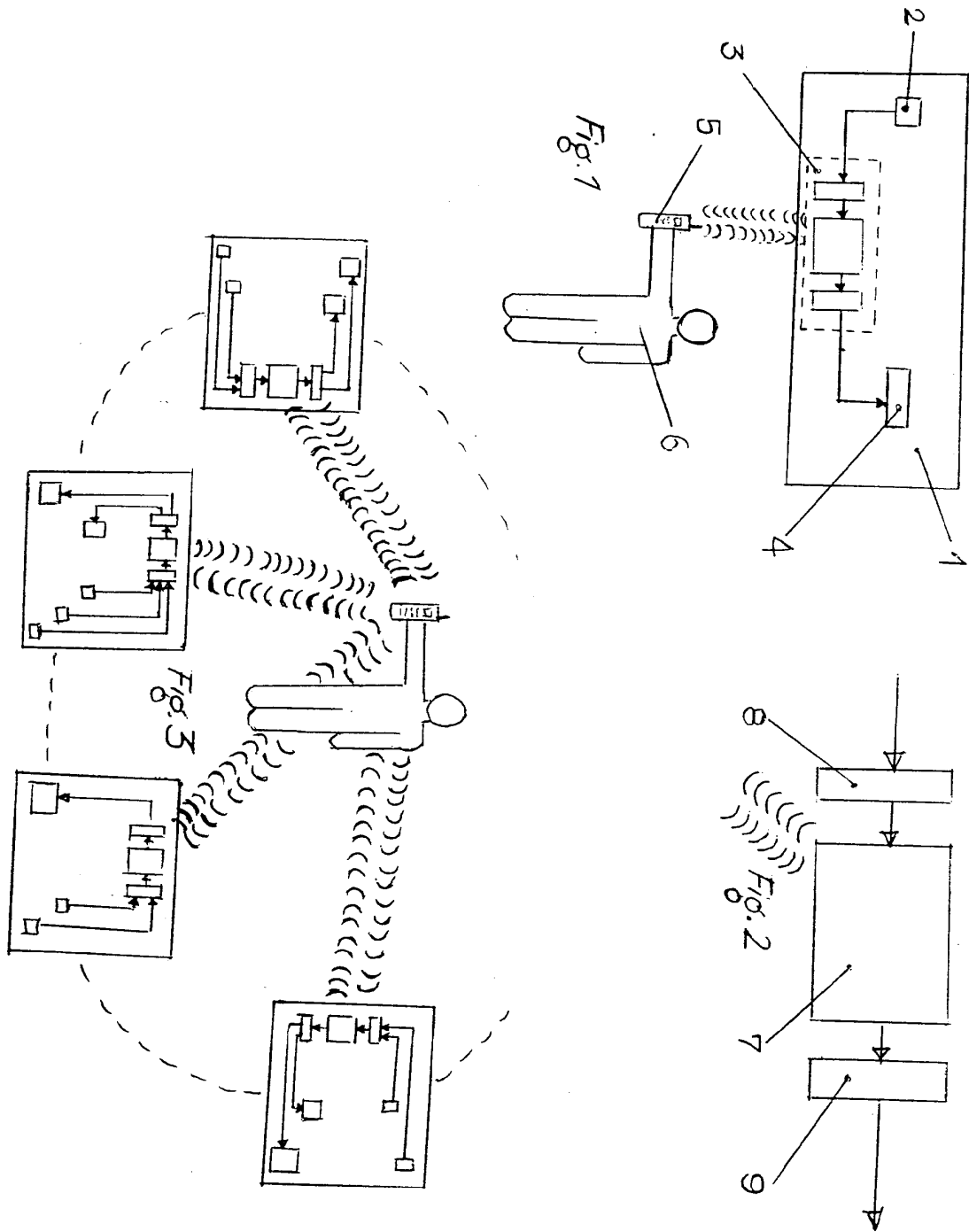
Practically, the user decides what are the purpose, the way and the configuration in which he uses the information and remote control & administration method and device. The location where from the above mentioned device and method can be used is practically world wide. For particularly isolated locations can be accessed the satellite mobile phone service.

CLAIMS

1. Information and Remote Control & Administration Method and Device. It uses a mobile phone network SMS (short messages service) service. Features: the user 6 receives to a mobile phone 5 data as SMS messages; data refer to certain parameters from a certain long distance area of interest 1, through sensors/ measuring devices 2 which transmit all measured data from the area of interest 1 to a device for applying the method 3. The device for applying the method is characterized by a data reception interface 8, which transforms the received data in digital signals. These signals are locally transmitted to a two way pager 7 (or any other device able to transmit - receive SMS messages). The pager sends SMS messages, through the mobile phone network, according to the loaded program, to the user's 6 mobile phone 5. The user, using the same mobile phone 5, can send SMS messages, through the mobile phone network, to the device for applying the method 3. The above mentioned device controls/ commands the devices/ plants 4 from the area of interest 1, through a control interface 9, according to the instructions contained by the control messages received from the user 6.

2. Long Distance Information Method and Device. It uses a mobile phone network SMS (short messages service) service. Features: the user 6 receives long distance data. Data refer to certain parameters from a user's certain area of interest 1. Data are collected using sensors/ measuring devices 2, which transmit the measured data from the area of interest 1 to the device for applying the method 3. The device for applying the method is characterized by a data reception interface 8, which transforms the received data in digital signals. These signals are transmitted to a one way pager 7 (or any other device able to transmit SMS messages). The pager sends SMS messages, through the mobile phone network, according to the loaded program, to the user's 6 mobile phone 5, so the user gets informed about parameters' values from the area of interest.

3. Remote Control Method and Device. It uses a mobile phone network SMS (short messages service) service. Features: the user 6 can control/ command devices/ plants 4, placed in a certain area of interest 1 of his. To achieve the control, the user sends the command as SMS messages, through his mobile phone 5, to the device for applying the method 3. The device for applying the method is characterized by a one way pager 7 (or any other device able to receive SMS messages), which receives the SMS messages, and a control interface 9, through which the devices/ plants 4 from the user 6 area of interest 1 are controlled/ commanded, as the user wishes.



2/2

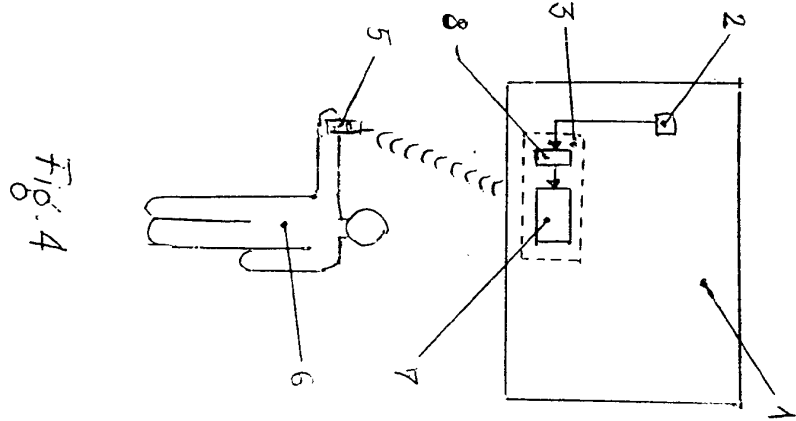


Fig. 4

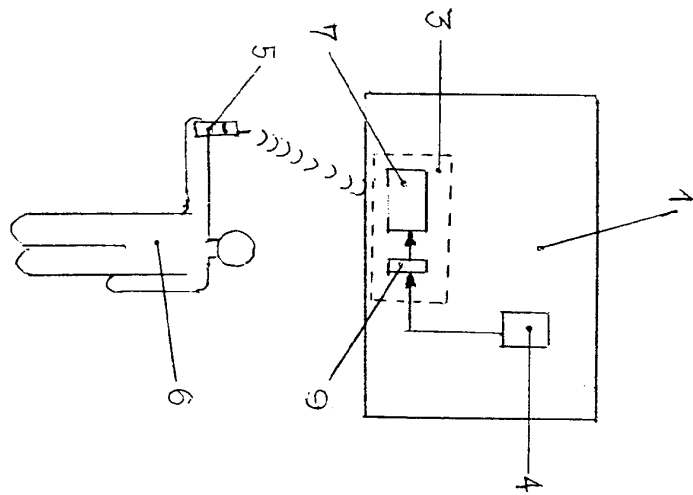


Fig. 5

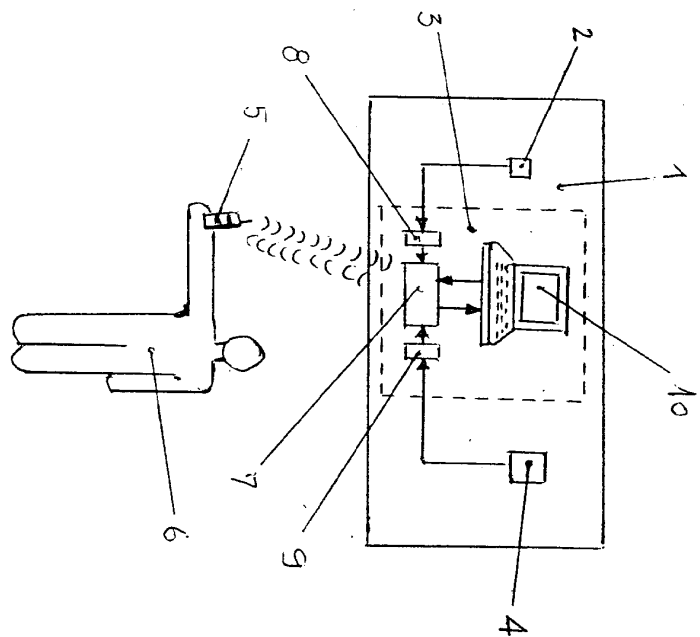


Fig. 6

INTERNATIONAL SEARCH REPORT

International Application No
PCT/RO 00/00007

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 930 792 A (NOKIA MOBILE PHONES LTD) 21 July 1999 (1999-07-21) column 11, line 16 -column 14, line 46 ---	1-3
X	WO 99 49680 A (WARFEL KARL B ;SHAND ARTHUR M (US); WHITLEY KEVIN T (US); BELLSOUT) 30 September 1999 (1999-09-30) page 7, line 26 -page 9, line 25 page 11, line 22 -page 13, line 9 ---	1
X	EP 0 417 944 A (NOKIA MOBILE PHONES LTD) 20 March 1991 (1991-03-20) column 3, line 26 -column 4, line 44 -----	2

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

27 October 2000

Date of mailing of the international search report

03/11/2000

Name and mailing address of the ISA

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Authorized officer

Pham, P

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/RO 00/00007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0930792 A	21-07-1999	FI 980115 A	21-07-1999
WO 9949680 A	30-09-1999	AU 3201599 A	18-10-1999
EP 0417944 A	20-03-1991	FI 894370 A	16-03-1991
		AT 121035 T	15-04-1995
		DE 69018550 D	18-05-1995
		DE 69018550 T	14-12-1995
		JP 3112751 A	14-05-1991

Form PCT/ISA/210 (patent family annex) (July 1992)

Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Abraham HersHKovitz/Rose Nichols		
Attorney Docket Number:		P2921569CON		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
Total in USD (\$)				90

Electronic Acknowledgement Receipt	
EFS ID:	16545655
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	40401
Filer:	Abraham HersHKovitz/Dinh Nguyen
Filer Authorized By:	Abraham HersHKovitz
Attorney Docket Number:	P2921569CON
Receipt Date:	09-AUG-2013
Filing Date:	11-OCT-2011
Time Stamp:	14:47:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 90
RAM confirmation Number	1209
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Transmittal Letter	P2921569CON-A05-TL.pdf	132458 ef9fd9b05328b25ccf5660575215029d460e39ec	no	1
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	P2921569CON-08-09-13-IDS.pdf	109146 c3614bc4708eff849a8af4e357f8ad126311b9b7	no	3
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	P2921569-A05-08-09-13-PTO-1449.pdf	179319 b6b4f735968f722c903aa7a02a09efe7c8275c2d	no	1
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
4	Foreign Reference	WO0165875A1.pdf	662151 b246c2c8053f7dd2aaff3e80ac9da3b5d875d48f	no	13
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30567 71a1c60fe3d8a927103de20bffa092f5793dafb	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1113641		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



HERSHKOVITZ & ASSOCIATES, PLLC

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Applicants: Charles G. SHAMOON *et al.*

Examiner: Xiang ZHANG

Appl. No. 13/271,203

Group Art Unit: 2641

Appl. Filed: October 11, 2011

Confirmation No. 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Mail Stop: Amendments

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313

Dear Commissioner:

Transmitted herewith are an **SECOND INFORMATION DISCLOSURE STATEMENT**, **SUBSTITUTE FORM PTO-1449** and **REFERENCES** in connection with the above-captioned application.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
Total Claims:		0	x 40=	\$ 0	x 80=	\$
Indep. Claims:		0	x 210=	\$ 0	X420=	\$
Fee for IDS				\$ 90.00		\$
Total:				\$ 90.00	Total:	\$

☐ Fee Payment made through EFS.

☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☒ The Director is hereby authorized to charge all fees under 37 C.F.R. §1.16 and §1.17 which may be required to maintain pendency of this application to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 C.F.R. §1.18 which may be required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,
Charles G. SHAMOON *et al.*

/Dinh X. Nguyen/

Date: August 9, 2013

Abraham Hershkovitz
Registration No. 45,294
Dinh X. Nguyen
Registration No. 54,923
Joseph Scafetta Jr.
Registration No. 26,803

P2921569CON.A05; AH/DXN/JS/rmm

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Charles G. SHAMOON et al.

Examiner: Xiang ZHANG

Appl. No.: 13/271,203

Group AU: 2641

Att'y Dkt. No.: P2921569CON

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 23313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. 1.56, 37 C.F.R. 1.97, and 37 C.F.R. 1.98, Applicant hereby directs the Examiner's attention to the following references that were brought to the attention of the undersigned by Applicant:

- (1) US 7,130,719;
- (2) US 7,363,031;
- (3) US 7,379,997;
- (4) US 7,418,428;
- (5) US 7,639,157;
- (6) US 7,792,256;
- (7) US 7,904,074;
- (8) US 8,810,336;
- (9) US 2004/0063446;

- (10) US 2006/0147003;
- (11) US 2006/0149395; and
- (12) WO 0 165 875 A1.

A copy of the above-listed document (12) and a completed copy of the Substitute Form PTO-1449, listing all the cited documents, are attached. Copies of documents (1) – (11) are not enclosed since they are U.S. patents or published applications, which are readily available to the Examiner. Accordingly, the Examiner is requested to consider these documents and to indicate such consideration by returning a signed and initialed copy of the Substitute Form PTO-1449 with the first official communication.

In accordance with 37 CFR 1.97(c), this Information Disclosure Statement is filed before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, and it is accompanied by the fee set forth in § 1.17(p). **The required fee of \$90.00, for small entity, is also attached.**

However, should a fee not be attached, or if the attached fee is insufficient, please charge any fees and refund excess payments to Deposit Account No. 50-2929, referencing attorney Docket No.: P2921569CON.

P2921569CON.A05

Should the Examiner have any questions, the undersigned may be contacted at the below-listed telephone number.

Respectfully submitted,
Charles G. SHAMOON et al.

/Dinh X. Nguyen/
Abraham HersHKovitz
Reg. No. 45,294

Date: August 9, 2013
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P2921569.A05; AH/DN/rmn



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoan	P2921569CON	1022
40401 7590 09/20/2013 HersHKovitz & Associates, PLLC 2845 Duke Street Alexandria, VA 22314			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 09/20/2013	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTO@hershkovitz.net
patent@hershkovitz.net

<i>Applicant-Initiated Interview Summary</i>	Application No.	Applicant(s)	
	13/271,203	SHAMOON ET AL.	
	Examiner	Art Unit	
	EDWARD ZHANG	2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) Edward Zhang (Examiner). (3) Charles Appiah (SPE).

(2) Joseph Scafetta Jr. (Reg#26,803). (4) _____.

Date of Interview: 17 September 2013.

Type: ☐ Telephonic ☐ Video Conference
 ☒ Personal [copy given to: ☐ applicant ☒ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☐ 103 ☒ Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 8.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The applicant's representative discussed the terms and support for the elements in light of the drawings and specification recited in new independent claim 8. No agreement has been reached.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/Xiang Zhang/ Patent Examiner, Art Unit 2641	/Charles N. Appiah/ Supervisory Patent Examiner, Art Unit 2641

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Charles G. SHAMOON *et al.*

Examiner: Xiang ZHANG

Appl. No. 13/271,203

Group Art Unit: 2641

Appl. Filed: October 11, 2011

Confirmation No. 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

STATEMENT OF SUBSTANCE OF INTERVIEW

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 23313

Dear Commissioner:

This Statement is filed in reply to the Office Communication of September 20, 2013. On September 17, 2013, a personal interview was conducted by the Applicants' representative, Joe Scafetta, with the Examiner and his Supervisor in the U.S. Patent & Trademark Office.

During the course of the interview, the Applicants' representative discussed the terms and the support for the elements recited in new independent claim 8 in light of the drawings and the original specification. The Examiner indicated that further searching and consideration would be required in regard to new claims 8-10. Thus, Applicant thanks the Examiner and his Supervisor for the courtesies extended during the interview and requests the Examiner to contact the undersigned if there are any remaining issues that can be clarified in order to advance prosecution of the instant application.

If a fee is required, please charge any fees to Deposit Account No. 50-2929, referencing Attorney Docket No. P2921569CON.

If the Examiner has any questions, the first undersigned practitioner may be contacted at the below-listed telephone number.

Respectfully submitted,

Charles G. SHAMOON *et al.*

/Dinh X. Nguyen/

Abraham HersHKovitz

Reg. No. 45,294

Dinh Nguyen

Reg. No. 54,923

Joseph Scafetta Jr.

Reg. No. 26,803

Date: October 23, 2013
HERSHKOVITZ & ASSOCIATES, PLLC
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P2921569.A06; AH/DXN/JS/rmn

Electronic Acknowledgement Receipt	
EFS ID:	17215935
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	40401
Filer:	Abraham HersHKovitz/Dinh Nguyen
Filer Authorized By:	Abraham HersHKovitz
Attorney Docket Number:	P2921569CON
Receipt Date:	24-OCT-2013
Filing Date:	11-OCT-2011
Time Stamp:	14:23:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	P2921569CON-A06-TL.pdf	149567	no	1
			a22cd63a533ed7c9f09825f627e771c38585af19		
Warnings:					
Information:					

2	Miscellaneous Incoming Letter	P2921569CON-A06-Stmt-of-Sub-of-Intrvw.pdf	111396 29783a9d1eb09fe6e8c0167db7e5c375db5c2be	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			260963		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



HERSHKOVITZ & ASSOCIATES, PLLC

PATENT AGENCY

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Applicants: Charles G. SHAMOON *et al.*

Examiner: Xiang ZHANG

Appl. No. 13/271,203

Group Art Unit: 2641

Appl. Filed: October 11, 2011

Confirmation No. 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Mail Stop: Amendments

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313

Dear Commissioner:

Transmitted herewith is a **STATEMENT OF SUBSTANCE OF INTERVIEW** in connection with the above-captioned application.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
Total Claims:		0	x 40=	\$ 0	x 80=	\$
Indep. Claims:		0	x 210=	\$ 0	X420=	\$
						\$
Total:				\$ 0	Total:	\$

☐ Fee Payment made through EFS.

☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☒ The Director is hereby authorized to charge all fees under 37 C.F.R. §1.16 and §1.17 which may be required to maintain pendency of this application to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 C.F.R. §1.18 which may be required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,
Charles G. SHAMOON *et al.*

/Dinh X. Nguyen/

Date: October 23, 2013

Abraham Hershkovitz
Registration No. 45,294
Dinh X. Nguyen
Registration No. 54,923
Joseph Scafetta Jr.
Registration No. 26,803

P2921569CON.A06; AH/DXN/JS/rmn



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoan	P2921569CON	1022
40401 7590 11/18/2013 HersHKovitz & Associates, PLLC 2845 Duke Street Alexandria, VA 22314			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 11/18/2013	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTO@hershkovitz.net
patent@hershkovitz.net

Office Action Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 108/16/2013.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5) ☒ Claim(s) 8-10 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☒ Claim(s) 8-10 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some * c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 08/09/2013.

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

4) ☐ Other: _____.

DETAILED ACTION

Double Patenting

1. Upon cancelling claims 1-7 and adding claims 8-10, the present application pertaining the nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 8-10 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 18 of U.S. Patent No. 8064935 B2.

Although the conflicting claims are not identical, they are not patentably distinct from each other because all the claimed limitations recited the present application are transparently found in U.S. Pat 8064935 B2 with obvious wording variations. Take an example of comparing claims 8 of pending application and claim 18 of US Patent 8064935 B2:

Claims from instant application 13/271,203	Claims from U.S Pat 8023947 B2
8. A base unit configured to communicate with an environmental device and to communicate with a master remote unit having wireless connectivity, the base unit comprising: a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device; a wireless communication interface configured to send a first message to the master remote unit via a communications network and to receive a second message from the master remote unit via the communications network, wherein the first message is a first digital communications message including a representation of the environmental	18. A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising: a communication interface configured to receive environmental information from the environmental device and to send a command to the environmental device; a wireless module configured to send a first message to the remote unit and to receive a second message from the remote unit, wherein the first message is a first short message service (SMS) message including the environmental information,

information, and wherein the second message is a second digital communications message including a command to the environmental device; and a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device.	and wherein the second message is a second short message service (SMS) message including the command to the environmental device; and a microcontroller configured to process the second message including the command, and to send the command through the communication interface to the environmental device.

Claims 9 and 10 are also rejected on the ground of nonstatutory obviousness-type double patenting because they depend on the independent claim 8.

The claims of the instant application (**13/271203**) encompass the same subject matter except the instant “**control instruction**” wherein US Patent **8023947 B2** claims “**command**”. In addition, the instant application claims “wireless communication interface configured to send a **first message** to the master remote unit via a communications network and to receive a **second message** from the master remote unit via the communications network, and wherein the second message is a **second digital communications message** including a command to the environmental device” wherein US Patent 8023947 B2 claims “a wireless module configured to send a **first message** to the remote unit and to receive a **second message** from the remote unit, wherein the first message is a **first short message service (SMS)** message including the environmental information, and wherein the second message is a **second short message service (SMS)** message including the command to the environmental device”.

Since the term "control instruction" can be equivalent and interchangeable with the term "command", it would have been obvious to one ordinary skill in the art at the time of the invention to implement the term "command" as claimed by US Patent 8023947.

In addition, the limitation of "a **first message** to the master remote unit via a communications network and to receive **a second message** from the master remote unit via the communications network, and wherein the second message is a **second digital communications message** including a command to the environmental device" as claimed by the instant application is more broad than the limitation of "a **first message** to the remote unit and to receive a **second message** from the remote unit, wherein the first message is a **first short message service (SMS)** message including the environmental information, and wherein the second message is a **second short message service (SMS)** message including the command to the environmental device" as claimed by US Pat 8023947 B2 as evidenced by the term "message" generously encompass any short message service. As a result, claim 8 of the instant application is broader and it encompasses the limitation of claim 18 of the patent.

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah, can be reached on (571)274-7901. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 13/271,203
Art Unit: 2641

Page 7

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/XIANG ZHANG/
Patent Examiner, Art Unit 2641

/Charles N. Appiah/
Supervisory Patent Examiner, Art Unit 2641

/Charles N. Appiah/
Supervisory Patent Examiner, Art Unit 2641

Receipt date: 08/09/2013

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /X.Z./

13271203 - GAU: 2641

Substitute for form PTO-1449				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	13/271,203	
				Filing Date	October 11, 2011	
				First Named Inventor	Charles G. SHAMOON	
				Art Unit	2641	
				Examiner Name	Xiang ZHANG	
Sheet	1	of	1	Attorney Docket Number	P2921569CON	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
/X.Z./	A1	US 7,130,719	10-31-2006	Ehlers et al.		
/X.Z./	A2	US 7,363,031	04-22-2008	Aisa		
/X.Z./	A3	US 7,379,997	05-27-2008	Ehlers et al.		
/X.Z./	A4	US 7,418,428	08-26-2008	Ehlers et al.		
/X.Z./	A5	US 7,639,157	12-29-2009	Whitley et al.		
/X.Z./	A6	US 7,792,256	09-07-2010	Arledge et al.		
/X.Z./	A7	US 7,904,074	03-08-2011	Karaoguz et al.		
/X.Z./	A8	US 8,180,336	05-15-2012	Wesby		
/X.Z./	A9	US 2004/0063446	04-01-2004	Kennett		
/X.Z./	A10	US 2006/0147003	07-06-2006	Archacki, Jr. et al.		
/X.Z./	A11	US 2006/0149395	07-06-2006	Archacki, Jr. et al.		
	A12					
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
/X.Z./	B1	WO 0165875 A1	09-07-2001	Sabie		
NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	C1					
	C2					
Examiner Signature		/Xiang Zhang/		Date Considered	11/07/2013	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Search Notes 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	466,404.2,414.2,456.1-456.6	01/31/2013	X.Z

SEARCH NOTES		
Search Notes	Date	Examiner
See East Search Notes	02/01/2013	X.Z
Consulted Primary Examiner Olumide	01/29/2013	X.Z
See East Search Notes	11/08/2013	X.Z

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	1506274	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:33
S3	1	((base adj unit) controller) near5 remote\$3) with (S2 near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC spinkker damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:35
S4	1	((base adj unit) controller) near5 remote\$3) with (S2 near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" "air conditioning" AC spinkker damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:36
S6	0	((base adj unit) controller) near5 location) with (S2 near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" "air conditioning" AC spinkker damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:39
S7	0	((base adj unit) controller bus usb ethernet) near5 location) with (S2 near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" "air conditioning" AC spinkker damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:40
S8	7	((base adj unit) controller) with (S2 near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC spinkker damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:41
S9	8	((base adj unit) controller bus ethernet) with (S2 near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC spinkker damper dehumidifier	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2013/11/07 14:41

		de\$humidifier valves vents ventilation)))	DERWENT			
S11	13	((base adj unit) controller bus ethernet) same (\$2 near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC spinkker damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:44
S13	39	((base adj unit) controller bus ethernet) same ((bluetooth infrared hoc "wireless sensors" "wireless receiver" "wireless receivers" "wireless node" "wireless nodes") near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC spinkker damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:47
S15	0	S14 and ("455".clas. "home automation" "vacation home" "vacation homes" "vacation dwelling")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:49
S16	48	((base adj unit) controller bus ethernet) same ((bluetooth infrared hoc "wireless sensors" "wireless receiver" "wireless receivers" "wireless node" "wireless nodes") near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC sprinkler fan fans damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:50
S18	24	((base adj unit) controller bus ethernet) same ((bluetooth infrared hoc "wireless sensors" "wireless receiver" "wireless receivers" "wireless node" "wireless nodes") near9 ((adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (appliance\$ door doors window\$)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:53
S19	9	S18 and (thermostate heater "air conditioner" AC sprinkler fan fans damper dehumidifier de\$humidifier valves vents ventilation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/11/07 14:53

EAST Search History (Interference)

< This search history is empty >

11/ 8/ 2013 3:52:58 PM**C:\Users\xzhang\Documents\EAST\Workspaces\13271203.wsp**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Charles E. Shamoon et al.

Examiner: Xiang ZHANG

Appl. No.: 13/271,203

Group Art Unit: 2641

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

RESPONSE AFTER FINAL REJECTION UNDER 37 CFR §1.116

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, Virginia 22313-1450

Honorable Commissioner:

Responsive to the final Office Action mailed November 8, 2013, reconsideration and withdrawal of the rejections made therein are respectfully requested in view of the following remarks and submission of a Terminal Disclaimer.

The fee for the Terminal Disclaimer is being submitted concurrently herewith. Inasmuch as the final Action sets a shortened statutory period expiring February 8, 2014, this Response is timely filed, and no extension or other fee is believed necessary. However, if any extension is deemed by the Office to actually be required, the same is hereby requested, and the Director is authorized to charge any necessary fees in connection herewith or any fee required to maintain the pendency of this application, to Deposit Account No. 50-2929, referencing Docket No. P2921569CON.

Remarks

As an initial matter, although the Office Action Summary Form PTOL-236 of the final Office Action indicates it is in responsive to Applicant's communications filed "108/16/2013," it is believed that the Action is directed to Applicants' Response filed on August 6, 2013.

In the final Office Action, claims 8-10 are rejected on the grounds of nonstatutory obviousness-type double patenting as being unpatentable over claim 18 of U.S. Patent No. 8,064,935 B2. (Applicants note that, while the correct Patent No. 8,064,935 B2 was identified in the first statement of rejection on page 3 of the final Action, an unknown and unrelated Patent No. 8,023,947 is identified throughout the remainder of the Action.)

Applicants do not agree with the double patenting rejection of claims 8-10 made in the final Office Action. However, in order to advance allowance of the present application, a Terminal Disclaimer is submitted herewith. It is to be noted that the filing of a Terminal Disclaimer to obviate a rejection based on nonstatutory double patenting is not an admission of the propriety of the rejection. *Quad Environmental Technologies Corp. v. Union Sanitary District*, 946 F.2d 870, 20 USPQ2d 1392 (Fed. Cir. 1991) (The Court indicated that "the filing of a terminal disclaimer simply serves the statutory function of removing the rejection of double patenting, and raises neither a presumption nor estoppel on the merits of the rejection.")

Statement Under 37 CFR §3.73(c):

The Terminal Disclaimer has been properly executed by an individual who is authorized to act on behalf of the Assignee of entire interest in the present application in accordance with 37 CFR §3.71, and the following is the required Statement Under 37 CFR §3.73(c): the documentary evidence of a chain of title from the original owners to the Assignee of entire interest was recorded in the Assignment records of the Office on June 6, 2005 at Reel/Frame

Numbers 016096/0409, recorded on May 12, 2008 at Reel/Frame Numbers 020951/0111, and on April 30, 2012 at Reel/Frame Numbers 028125/0242.

Accordingly, it is believed that the single rejection of claims 8-10 on the grounds of nonstatutory obviousness-type double patenting as being unpatentable over claim 18 of U.S. Patent No. 8,064,935 is rendered moot. Therefore, Applicants respectfully request withdrawal of the rejection and mailing of a Notice of Allowance.

The Examiner is invited to direct any questions to the undersigned practitioner at the telephone or e-mail identified hereinbelow.

Respectfully submitted,
Charles E. Shamoon et al.

/Abe Herhskovitz/
Abraham Herskovitz
Reg. No. 45,294

Concurrent Submission: Terminal Disclaimer

HERSHKOVITZ & ASSOCIATES, PLLC
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Alexandria, Va 22314
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P2921569CON.A08; AH/dj/pjj

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Charles G. SHAMOON *et al.*

Examiner: Xiang ZHANG

Appl. No. 13/271,203

Group Art Unit: 2641

Appl. Filed: October 11, 2011

Confirmation No. 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

TERMINAL DISCLAIMER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

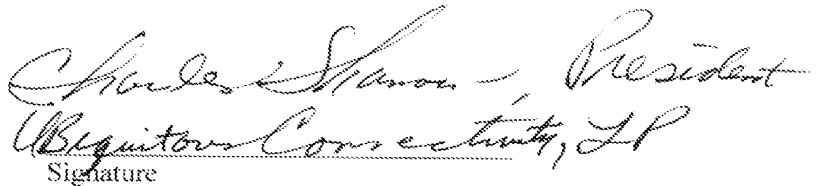
The owner, UBIQUITOUS CONNECTIVITY, LP, having 100 percent interest in the instant application, hereby disclaims the terminal part of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term defined in 35 USC §§154 and 173, as presently shortened by any terminal disclaimer, of US Patent Number 8,064,935, and hereby agree that any patent so granted on the instant application shall be enforceable only for and during such period that the ownership of US Patent Number 8,064,935 shall be the same as the ownership of any patent granted on the instant application, this agreement to run with any patent granted on the instant application and to be binding upon the grantee, its successors, or assigns.

The owner, UBIQUITOUS CONNECTIVITY, LP, does not disclaim any terminal part of any patent granted on the instant application prior to the expiration date of the full statutory term of US Patent Number 8,064,935, in the event that US Patent Number 8,064,935 later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed

in whole or further terminally disclaimed under 37 CFR §1.321(a), has all claims canceled by a reexamination certificate, is reissued, or is otherwise terminated prior to the expiration of its full statutory term, except for the failure of common ownership stated above. Furthermore, the owner, UBIQUITOUS CONNECTIVITY, LP, does not forfeit or disclaim any patent term adjustment to which the instant application might be entitled.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

November 26, 2013
Date


Signature

Charles G. SHAMOON
Printed Name

President, UBIQUITOUS CONNECTIVITY, LP
Printed Title

Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Abraham HersHKovitz		
Attorney Docket Number:		P2921569CON		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Statutory or Terminal Disclaimer	1814	1	160	160
Total in USD (\$)				160

Electronic Acknowledgement Receipt	
EFS ID:	17515942
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	40401
Filer:	Abraham HersHKovitz
Filer Authorized By:	
Attorney Docket Number:	P2921569CON
Receipt Date:	26-NOV-2013
Filing Date:	11-OCT-2011
Time Stamp:	23:13:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$160
RAM confirmation Number	11728
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Miscellaneous Incoming Letter	P2921569CON-A08_Transmittal.pdf	150614 816ac3dec18cc42db86cedb9a1103b58cd27c1a3	no	1
Warnings:					
Information:					
2	Response After Final Action	P2921569CON-A08_Rule-116-Resp.pdf	122359 1ed1192f2416e7685efcde717b711e1079f2cf4	no	3
Warnings:					
Information:					
3	Terminal Disclaimer Filed	P2921569CON-A08_Terminal-Disclaimer.pdf	794917 0da2f0cd35d22027b6d9748f7c1857831e97534e	no	2
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30521 9a5d4540871d6d4196be73d6faa1f74b17a48f4f	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1098411		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



HERSHKOVITZ & ASSOCIATES, PLLC

PATENT AGENCY

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patent@hershkovitz.net ~ www.hershkovitz.net

Applicant: Charles E. Shamoon et al.

Examiner: Xiang ZHANG

Appl. No.: 13/271,203

Group Art Unit: 2641

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Honorable Commissioner:

Transmitted herewith are RESPONSE AFTER FINAL REJECTION UNDER 37 CFR §1.116 (WITH STATEMENT UNDER 37 CFR §3.73(c)) AND TERMINAL DISCLAIMER in connection with the above-captioned matter.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
*Total Claims:		0	x 40=	\$	x 80=	\$
**Indep. Claims:		0	x210=	\$	x420=	\$
Extension Fee for Months				\$		\$
Other: Terminal Disclaimer				\$160.00		\$
Other:				\$		\$
Other:				\$		\$
Total:				\$160.00	Total:	\$

☒ Fee Payment made through EFS.

☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☒ The Director is hereby authorized to charge all fees, including those under 37 CFR §§1.16 and 1.17, which are required for entry of the papers submitted herewith, and any fees which may be required to maintain pendency of this application, to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 CFR § 1.18 which may be required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,

Date: November 26, 2013

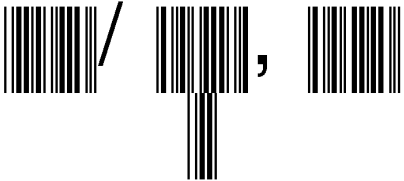
/Abe HersHKovitz/
Abraham HersHKovitz
Registration No. 45,294

P2921569CON.A08; AH/pjj

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (j), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	11/26/2013		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(j))		* 3		Minus	** 20	= 0	X \$40 =	0
	Independent (37 CFR 1.16(h))		* 1		Minus	***3	= 0	X \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(j))		*		Minus	**	=	X \$ =	
	Independent (37 CFR 1.16(h))		*		Minus	***	=	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Application Number 	Application/Control No. 13/271,203	Applicant(s)/Patent under Reexamination SHAMOON ET AL.	
Document Code - DISQ		Internal Document – DO NOT MAIL	

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 11/26/13	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
jean proctor

U.S. Patent and Trademark Office



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoan	P2921569CON	1022
40401 7590 04/10/2014 HersHKovitz & Associates, PLLC 2845 Duke Street Alexandria, VA 22314			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 04/10/2014	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTO@hershkovitz.net
patent@hershkovitz.net

Office Action Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 11/26/2013.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 8-10 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 8 nad 10 is/are rejected.

8) ☒ Claim(s) 9 is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____.

3) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date. 20140121.

4) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

2. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (**pre-AIPA** 35 U.S.C. 102(e)).

3. Claim 8 is rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Kates (US PGPub 2005/0275530 A1).

Regarding claim 8, Kates teaches a base unit ("repeater unit", [0013]) configured to communicate with an environmental device ("wireless sensor", [0013]) and to

communicate with a master remote unit having wireless connectivity ("base unit", [0013]), the base unit comprising: a first communication interface configured to receive environmental information from the environmental device ("the sensor information is relayed through the repeater units", also see "emergency condition (e.g., a fire or excess smoke, temperature, water", [0013], also see Fig. 1, wherein the environmental information collected by the sensor is relayed through the repeater unit before arriving at the remote master unit/"base unit" and the repeater unit is the intermediary node between the environmental device and the remote master unit) and to send a control instruction to the environmental device ("the base unit sends instructions to activate one or more additional sensors near the first sensor", [0013]); a wireless communication interface configured to send a first message to the master remote unit via a communications network ([0013], lines 1-3 wherein the first message/"measured sensor data" is sent to the master remote unit/"base unit") and to receive a second message from the master remote unit via the communications network ("base unit sends instructions to activate one or more additional sensors near the first sensor", [0013]), wherein the first message is a first digital communications message including a representation of the environmental information ("emergency condition (e.g., a fire or excess smoke, temperature, water", [0013]), and wherein the second message is a second digital communications message including a command to the environmental device ([0074], and [0083]); and a microcontroller configured to process the second message and to send the control instruction based on the command via the first

communication interface to the environmental device ("base unit sends instructions to activate one or more additional sensors near the first sensor", [0013]).

Claim Rejections - 35 USC § 103

4. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

5. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 10 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Oh (US Pat 7565106 B1).

Regarding claim 10, Kates teaches the base unit as discussed in claim 8.

However, Kates lacks the teaching wherein the communications network is a cellular communications network.

In the same field of endeavor, Oh (abstract) teaches the base unit ("wireless repeater", col. 3, lines 37-38) wherein the communications network is a cellular

communications network ("cellular base station", col. 3, line 40, also see "cellular receiver", col. 4, line 19).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Oh in order to provide ubiquitous communication for the client.

Allowable Subject Matter

7. Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to XIANG ZHANG whose telephone number is (571)270-7693. The examiner can normally be reached on Monday-Thursday, 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah, can be reached on (571)272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/XIANG ZHANG/
Patent Examiner, Art Unit 2641

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

Notice of References Cited	Application/Control No. 13/271,203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
*	B	US-2005/0275530 A1	12-2005	Kates, Lawrence	340/539.22
*	C	US-7,565,106 B1	07-2009	Oh et al.	455/7
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
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	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant										☐ CPA										☐ T.D.										☐ R.1.47									
CLAIM		DATE																																					
Final	Original	02/01/2013	11/08/2013	03/13/2014																																			
	1	✓																																					
	2	✓																																					
	3	✓																																					
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	5	✓																																					
	6	✓																																					
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	8		✓	✓																																			
	9		✓	○																																			
	10		✓	✓																																			

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	1554	(command cmd signal\$4 inquir\$6 quer\$4) same (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) same (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$) same (response acknow\$6 "ack" confirm\$4) same (repeater relay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 12:51
L13	1590726	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 12:56
L14	12171	(command cmd signal\$4 inquir\$6 quer\$4) same (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$ thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$) same (response acknow\$6 "ack" confirm\$4) same (repeater relay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 12:56
L15	463	14 and (cellular cdma gsm umts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 12:57
L16	15	15 and automation and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 12:57
L19	18203	(command cmd signal\$4 inquir\$6 quer\$4) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$ thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$) with (repeater relay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 14:44

		repeats relays)				
L20	417	19 and automation and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 14:45
L21	4	(19 with 13) and automation and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 14:45
L22	16	(19 with 13) and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 15:05
S37	1566986	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/02/06 00:17
S38	180080	("sms" "short message" "short messages" "short messaging" "instant message" "instant messaging" "instant messages")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/02/06 00:18
S39	45	((base adj unit) controller manager) with (S37 near9 ((control controls controlled controlling adjust adjusts adjusted adjusting trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC spinkker damper dehumidifier de\$humidifier valves vents ventilation)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/02/06 00:18
S40	2	S38 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/02/06 00:19
S41	16	S39 and (messages message)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/02/06 00:19
S43	3	S41 and @ad<"20041103"	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2014/02/06 00:20

			DERWENT			
S46	1587014	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/06 11:32
S47	179	((base adj unit) controller bus ethernet) same (S46 near9 ((controls control controlled controlling adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/06 11:32
S48	8	S47 and ((cmd command) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/06 11:34
S50	2	S48 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/06 11:35
S62	1588994	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:01
S63	179	((base adj unit) controller bus ethernet) same (S62 near9 ((controls control controlled controlling adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:01
S64	8	S63 and ((cmd command) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:01
S65	8	S63 and ((cmd command quer\$4 inquir\$4) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4))	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/03/11 11:20

			EPO; JPO; DERWENT			
S66	1718257	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas laptop "laptops"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:42
S67	1210	(S62 near9 ((controls control controlled controlling adjust\$3 trigger\$4 activat\$4 configur\$4) near3 (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:43
S68	66	S67 with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:45
S69	0	S68 and ((cmd command quer\$4 inquir\$4) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:46
S70	0	S68 and ((cmd command quer\$4 inquir\$4) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:46
S71	36781	(command cmd signal\$4 inquir\$6 quer\$4) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) with (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:55
S72	1	S71 and (S62 same (cmd command quer\$4 inquir\$4) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 11:55
S73	1588994	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 16:33

		pdas				
S74	36781	(command cmd signal\$4 inquir\$6 quer\$4) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) with (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 16:33
S75	1	S74 and (S73 same (cmd command quer\$4 inquir\$4) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4 forward\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 16:33
S76	1718257	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas "laptops" laptop	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 16:35
S77	2	S74 and (S76 same (cmd command quer\$4 inquir\$4) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4 forward\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 16:35
S82	50158	(command cmd signal\$4 inquir\$6 quer\$4 transmit\$4 send sent sending sends) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) with (thermostat heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 18:02
S83	45	S82 and (S76 same (cmd command quer\$4 inquir\$4 signal\$4) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4 forward\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 18:03
S85	8	S83 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/11 18:03
S86	12826	(reapeater forwards forwarding forward forwarded repeat\$3 relay\$3) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) with (thermostat heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 13:17

		lighting\$)				
S87	33	S86 same (cmd command quer\$4 inquir\$4) same (response acknow\$6 "ack" confirm\$4)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 13:17
S88	19	S87 and @ad<"20041118"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 13:18
S89	1588994	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 13:26
S90	36781	(command cmd signal\$4 inquir\$6 quer\$4) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) with (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 13:26
S91	1718257	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas "laptops" laptop	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 13:26
S92	2	S90 and (S91 same (cmd command quer\$4 inquir\$4) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4 forward\$4))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 13:26
S93	2	S89 and S92	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 13:26
S94	2606	(command cmd signal\$4 inquir\$6 quer\$4) same (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) same (thermostate heater "air conditioner" AC sprinkler damper dehumidifier	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 17:47

EAST Search History

		de\$humidifier valves vents ventilation lights lighting\$) same (response acknow\$6 "ack" confirm\$4) same (repeat\$4 relay\$4 forward\$4)				
S95	123	S94 and automation	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 17:47
S96	1554	(command cmd signal\$4 inquir\$6 quer\$4) same (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) same (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$) same (response acknow\$6 "ack" confirm\$4) same (repeater relay)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 17:48
S97	23	S96 and @ad<"20041118" and automation	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/12 17:49

EAST Search History (Interference)

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EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	(base adj2 station) near6 repeater with command with cellular	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/31 11:49
L2	676	(base adj2 station) near6 repeater same (cdma gsm cellular umts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/31 11:50
L3	316	2 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/31 11:50
L4	20	(base adj2 station) near6 repeater same (cdma gsm cellular umts) same command	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/31 11:50
L5	18	4 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/31 11:50
L6	195	(base adj2 station) near6 repeater with (cdma gsm cellular umts) and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/31 11:58
L7	115	"455".clas. and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/31 11:59

EAST Search History (Interference)

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S157	56	sensor with actuator same (server master) same (measur\$ humidity temperature hot cold) same (instruction\$1 command\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/18 07:18
S158	1593474	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/18 07:47
S159	28	S157 and S158	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/18 07:47
S168	20	sensor with actuator with (server master S158) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$ thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation) with (configur\$5 instruction\$1 command\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/18 11:21
S176	373	(sensor actuator thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation) with ("remote controller" "remote controll" S158) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) with (configur\$5 instruction\$1 command\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/18 12:29
S177	10	S176 and automation and @ad< "20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/18 12:30
S178	4	(sensor actuator thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves	US-PGPUB; USPAT;	OR	OFF	2014/03/18 12:31

EAST Search History

		vents ventilation) with ("remote controller" "remote controll" S158) with (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) with (configur\$5 instruction\$1 command\$1) same (relay repeater)	USOCR; EPO; JPO; DERWENT			
S179	175	(sensor actuator thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation) same ("remote controller" "remote controll" S158) same (humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$) same (configur\$5 instruction\$1 command\$1) same (relay repeater)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/18 12:32

EAST Search History (I nterference)

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3/ 24/ 2014 5:08:19 PM**C:\ Users\ xzhang\ Documents\ EAST\ Workspaces\ 13271203.w sp**

Search Notes 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	466,404.2,414.2,456.1-456.6	01/31/2013	X.Z
455	418-420	12/30/2013	X.Z

SEARCH NOTES		
Search Notes	Date	Examiner
See East Search Notes	02/01/2013	X.Z
Consulted Primary Examiner Olumide	01/29/2013	X.Z
See East Search Notes	11/08/2013	X.Z
See East Search Notes	12/30/2013	X.Z
See East Search Notes	03/13/2014	X.Z

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Charles G. Shamoan *et al.*

Confirmation No. 1022

Appl. No. 13/271,203

Group Art Unit: 2641

Filed: October 11, 2011

Examiner: Zhang, Xiang

For: UBIQUITOUS CONNECTIVITY AND CONTROL
SYSTEM FOR REMOTE LOCATIONS

AMENDMENT UNDER 37 C.F.R. §1.111

Mail Stop: Amendments

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313

Dear Commissioner:

Please enter the following response, amending the above-identified application. In reply to the Non-final Office Action of April 10, 2014, reconsideration and withdrawal of the rejections made therein are respectfully requested, in view of the following amendments and remarks.

This Amendment is timely filed because the Office Action sets a three-month statutory period for response and the Applicants are filing this Amendment not later than July 10, 2014. However, if the Commissioner determines that an additional fee is needed, the U.S. Patent & Trademark Office is hereby authorized to charge any fees in connection therewith or any fee necessary to preserve the pendency of this application or credit any overpayment to Deposit Account No. 50-2929, making reference to Attorney Docket No. P2921569CON.

AMENDMENTS TO THE CLAIMS

Please amend claim 8, cancel claim 9, and add new claims 11-24. No new matter is added. Each claim is accompanied by a status identifier.

1-7. (Canceled)

8. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a ~~master~~ remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the ~~master~~ remote unit via a communications network and to receive a second message from the ~~master~~ remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command [[to]] regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction ~~based on the command to the environmental device~~ via the first communication interface ~~to the environmental device~~.

9. (Canceled)

10. (Previously Presented) [A] The base unit according to claim 8, wherein the communications network is a cellular communications network.

11. (New) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the

environmental device and to send a control instruction to the environmental device;
a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,
wherein the first message is a first digital communications message including a representation of the environmental information, and
wherein the second message is a second digital communications message including a command regarding the environmental device; and
a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device,
and
wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,
wherein the fourth message includes a subordinate command to the environmental device, and
wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (New) The base unit of claim 8, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.
13. (New) The base unit of claim 12, wherein the command is associated with an icon on the remote unit.
14. (New) The base unit of claim 8, wherein the control instruction is configured to adjust a temperature of a water heater.
15. (New) The base unit of claim 8, wherein the control instruction is configured to adjust an air handling system.

16. (New) The base unit of claim 8, wherein the communications network includes a data bearer service.
17. (New) The base unit of claim 8, wherein the remote unit is a mobile remote unit.
18. (New) The base unit of claim 8,
wherein the control instruction includes an environmental control instruction; and
wherein the command includes an environmental command.
19. (New) The base unit of claim 8, wherein the second message includes an energy conservation command associated with multiple environmental devices.
20. (New) The base unit of claim 8,
wherein the communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction; and
wherein the command includes an environmental command.
21. (New) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.
22. (New) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.
23. (New) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:
a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;
a wireless communication interface configured to send a first message to the remote unit via a

communications network and to receive a second message from the remote unit via the communications network,
wherein the first message is a first digital communications message including a representation of the environmental information, and
wherein the second message is a second digital communications message including a command regarding the environmental device; and
a microcontroller configured to process the environmental information, to provide the representation, and to send the representation in the first message to the remote unit via the wireless communication interface.

24. (New) The base unit according to claim 23,
wherein the microcontroller is further configured to process the command of the second message, to provide the control instruction, and to send the control instruction to the environmental device via the first communication interface.

REMARKS**Status of Claims**

Claims 8 and 10-24 are currently pending. Claim 8 is amended to clarify that the first message includes a representation of the environmental information, the second message includes a command, and the command in the second message is “regarding” the environmental device. Claim 8 is also amended to make it clear that the microcontroller is configured to process the command of the second message, to provide the control instruction, and to send the control instruction to the environmental device via the first communication interface.

The command is processed by the microcontroller which generates a control instruction that is sent to the environmental device. For example, the command may be a command to “enter an energy conservation mode.” See paragraph [0038] of Patent Application Publication 2012/0094638. Upon receiving this command, the microprocessor may send a control instruction to a hot water heater to “adjust operation” and “to conserve power consumption of the home.” See paragraph [0038] of Patent Application Publication 2012/0094638. The microcontroller may, in response to the same command, also send another control instruction to adjust an air handling system. Alternatively, an additional message with an additional command may be used to control the air handling system.

Thus, the microcontroller in the base unit may process a single command in the second message, such as an SMS message, and generate one or more control instructions that a hot water heater and/or an air handling system can understand. In general, environmental devices such as a hot water heater and an air handling system may be manufactured by different companies and in different countries, and may communicate with the microcontroller using completely different control instructions and/or codes.

New claim 11 generally corresponds to former claim 9 placed in independent form, as discussed below.

New claims 12-24 are also added. These new claims are supported by, at a minimum, paragraphs [0020], [0021], [0039] and operation icon 42 in Figure 2 of Patent Application Publication 2012/0094638.

Thus, claim 8 is amended, claim 9 is canceled, and new claims 11-24 are added. In summary, claims 8 and 10-24 are currently pending.

Allowable Subject Matter

Applicants appreciate the Examiner's indication of allowable subject matter in claim 9, which was objected to and would be patentable if placed in independent form. Applicants have added new claim 11, which corresponds to claim 9 in independent form, except that the word "master" has been omitted from the claim.

Claim Rejection Under 35 U.S.C. §102

Claim 8 is rejected under pre-AIA 35 U.S.C. §102(b) as allegedly being anticipated by Kates (US PApub 2005/0275530). Applicants respectfully traverse this rejection.

Claim 8 (Currently Amended) recites:

A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to **receive a second message from the remote unit via the communications network**,

wherein the first message is a first digital communications message

including a representation of the environmental information, and
wherein **the second message is a second digital communications message including a command regarding the environmental device; and a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface.** (Emphasis added.)

The Office Action, in the bridging paragraph at pages 2-3, asserts that, “Kates teaches a base station (‘repeater unit’, [0013]) configured to communicate with an environmental device (‘wireless sensor’, [0013]) and to communicate with a master remote unit having wireless connectivity (‘base unit’, [0013]).” The Office Action, in the bridging paragraph at pages 3-4, further asserts that Kates teaches “a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device (‘base unit sends instructions to activate one or more additional sensors near the first sensor’, [0013]).” Applicants respectfully disagree with this analysis.

The repeater units 110 and 111 of Kates do not teach or suggest the base unit of claim 8. At a minimum, the repeater units 110 and 111 do not comprise a “microcontroller configured to process the command of the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface.” Rather, the repeater units 110 and 111 simply relay messages between base unit 112 and sensors 102-106, as seen in Figure 1.

In Figure 1 of Kates, repeater unit 110 is in two-way (bi-directional) communication with base unit 112 and with sensor units 102, 103, and 104, as indicated by the double arrows. Kates explains that the repeater units receive a message and forward the message to the intended recipient device. Kates states: “[i]n one embodiment, the sensor information is relayed through the repeater units.” (Kates, [0013]) (Emphasis added). “When the sensor unit 102 detects an

anomalous condition (e.g., smoke, fire, water, etc.) the sensor unit communicates with the appropriate repeater unit 110 and provides data regarding the anomalous condition. The repeater unit 110 forwards the data to the base unit 112.” (Kates, [0032]) (Emphasis added). “The repeater unit 110 is configured to relay communications traffic between the sensor 102 ... and the base unit 112.” (Kates, [0039]) (Emphasis added).

The repeater units disclosed by Kates simply receive data from one device and relay the data to another device. The repeater units disclosed by Kates do not receive a message which is a command from a remote unit, process the message, and send a control instruction. Thus, Kates does not teach or suggest “a microcontroller configured to process the command of the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface.” Accordingly, Kates does not teach or suggest the base unit of claim 8. For at least the above reasons, claim 8 is patentable over Kates.

Claim Rejection Under 35 U.S.C. §103

Claim 10 is rejected under pre-AIA 35 U.S.C. §103(a) as allegedly being rendered obvious over Kates in view of Oh *et al.* (US Pat 7,565,106). Applicants respectfully traverse this rejection. Dependent claim 10 depends from claim 8, and is patentable for at least the same reasons as claim 8, as well as on its own merits. Therefore, careful reconsideration and withdrawal of the rejection of dependent claim 10 for obviousness over Kates in view of Oh *et al.* are respectfully requested in view of the amendments and arguments made above in regard to its independent parent claim 8.

New Claims

New claim 11 corresponds to former claim 9 in independent form, except that the word “master” has been deleted. Applicants appreciate the Examiner’s indication of allowable subject matter in claim 9, which was objected to and which would be patentable if placed in independent form. New dependent claims 12-22 depend from claim 8, and are patentable for at least the same reasons as claim 8, as well as on their own merits.

New independent claim 23 requires: “a microcontroller configured to process the environmental information, to provide the representation, and to send the representation in the first message to the remote unit via the wireless communication interface.” New dependent claim 24 requires that “the microcontroller is further configured to process the command of the second message, to provide the control instruction, and to send the control instruction to the environmental device via the first communication interface.” Kates fails to teach or suggest these limitations. Thus, claims 23 and 24 are believed to be patentable for at least this reason.

Conclusion

Accordingly, withdrawal of the rejections of claims 8 and 10 is in order, and allowance of the new claims 11-24 is earnestly solicited in the next communication from the Examiner.

It is believed that all pending issues have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be other reasons for patentability of any or all pending claims or other claims that have not been expressed. Finally, nothing in this reply should be construed as an intention to concede any issue with regard to any claim, and the cancellation of any claim does

not necessarily signify concession of the unpatentability of the claim prior to its cancellation.

If the Examiner has any questions or comments regarding this application before the Applicants' representative telephones him for a personal interview, the undersigned first practitioner may be called at the below-listed telephone number.

Respectfully submitted,

Charles G. Shamoon *et al.*

/Dinh X. Nguyen/

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P2921569CON.A09 AH/DX/JS

Electronic Acknowledgement Receipt	
EFS ID:	19106120
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	40401
Filer:	Abraham HersHKovitz/Dinh Nguyen
Filer Authorized By:	Abraham HersHKovitz
Attorney Docket Number:	P2921569CON
Receipt Date:	23-MAY-2014
Filing Date:	11-OCT-2011
Time Stamp:	10:38:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	Transmittal.pdf	106913	no	1
			8b07acbe7005bd82b65684fd2cf55b8d1e2f830b		
Warnings:					
Information:					

2	Amendment/Req. Reconsideration-After Non-Final Reject	Amendment.pdf	137677 68e7753ee3c5f2dee219ea4588cde13edb3 aef46	no	11
Warnings:					
Information:					
Total Files Size (in bytes):			244590		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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Applicant: Charles E. Shamoon et al.

Examiner: Xiang ZHANG

Appl. No.: 13/271,203

Group Art Unit: 2641

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Honorable Commissioner:

Transmitted herewith is a **AMENDMENT UNDER 37 C.F.R. §1.111** in connection with the
above-captioned matter.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
*Total Claims: 16	0	0	x 40=	\$	x 80=	\$
**Indep. Claims: 3	0	0	x210=	\$	x420=	\$
Extension Fee for Months				\$		\$
				\$		\$
				\$		\$
				\$		\$
Total:				\$	Total:	\$

☒ Fee Payment made through EFS.

☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☒ The Director is hereby authorized to charge all fees, including those under 37 CFR §§1.16
and 1.17, which are required for entry of the papers submitted herewith, and any fees which
may be required to maintain pendency of this application, to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 CFR § 1.18 which may be
required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,

Date: May 22, 2014

/Dinh X. Nguyen/
Abraham Hershkovitz
Registration No. 45,294
Dinh X. Nguyen
Registration No. 54, 923

P2921569CON.A09; AH/DN/mc

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (j), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	05/23/2014		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))		* 16	Minus	** 20	= 0	X \$40 =		0
	Independent (37 CFR 1.16(h))		* 3	Minus	***3	= 0	X \$210 =		0
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))		*	Minus	**	=	X \$ =		
	Independent (37 CFR 1.16(h))		*	Minus	***	=	X \$ =		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoan	P2921569CON	1022
40401 7590 08/27/2014 HersHKovitz & Associates, PLLC 2845 Duke Street Alexandria, VA 22314			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 08/27/2014	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTO@hershkovitz.net
patent@hershkovitz.net

Office Action Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 05/23/2014.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 8 and 10-24 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☒ Claim(s) 11 is/are allowed.

7) ☒ Claim(s) 8, 10 and 12-24 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____.

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.

4) ☐ Other: ____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on 05/23/2014 regarding claim 8 have been fully considered but they are not persuasive.
2. On page 8, [0002], lines 5-6 of the applicants' remark, the applicant argues that Kates lacks the teaching of "a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device.

The examiner respectfully disagrees, since Kates et. al. does teach "a microcontroller (to further clarify, see "controller 303", [0054]) configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device" ([0013], and to further clarify, see [0065], wherein the base unit/"repeater unit 111" repeats the second message that is the control instruction/"operation control" information between the remote master device/"base unit" and the environmental device/"sensor unit". Note that the first message indicates measured sensor data).

Claim Rejections - 35 USC § 102

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of

rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

4. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (**pre-AIPA** 35 U.S.C. 102(e)).

5. Claims 8, 12, 16, and 17 and 23 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Kates (US PGPub 2005/0275530 A1).

Regarding claims 8, 23 and 24, Kates teaches a base unit ("repeater unit", [0013]) configured to communicate with an environmental device ("wireless sensor", [0013]) and to communicate with a master remote unit having wireless connectivity ("base unit", [0013]), the base unit comprising: a first communication interface configured to receive environmental information from the environmental device ("the sensor information is relayed through the repeater units", also see "emergency condition (e.g., a fire or excess smoke, temperature, water", [0013], also see Fig. 1, wherein the

environmental information collected by the sensor is relayed through the repeater unit before arriving at the remote master unit/"base unit" and the repeater unit is the intermediary node between the environmental device and the remote master unit) and to send a control instruction to the environmental device ("the base unit sends instructions to activate one or more additional sensors near the first sensor", [0013]); a wireless communication interface configured to send a first message to the master remote unit via a communications network ([0013], lines 1-3 wherein the first message/"measured sensor data" is sent to the master remote unit/"base unit") and to receive a second message from the master remote unit via the communications network ("base unit sends instructions to activate one or more additional sensors near the first sensor", [0013]), wherein the first message is a first digital communications message including a representation of the environmental information ("emergency condition (e.g., a fire or excess smoke, temperature, water", [0013]), and wherein the second message is a second digital communications message including a command to the environmental device ([0074], and [0083]); and a microcontroller ("controller 303", [0054]) configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device ("base unit sends instructions to activate one or more additional sensors near the first sensor", [0013], and to further clarify, see [0065], wherein the base unit/"repeater unit 111" repeats the second message that is the control instruction/"operation control" information between the remote master device/"base unit" and the environmental device/"sensor unit". Note that the first message indicates measured sensor data).

Regarding claim 12, Kates further teaches the method wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices ([0033], lines 1-3).

Regarding claim 16, Kates further teaches the method wherein the communication network includes a data bearer service ("Internet and/or local area network 124", [0029]).

Regarding claim 17, Kates further teaches the base unit of claim 8, wherein the remote unit is a mobile remote unit ("cellular telephone 123", [0029]).

Claim Rejections - 35 USC § 103

6. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

7. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 10 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Oh (US Pat 7565106 B1).

Regarding claim 10, Kates teaches the base unit as discussed in claim 8. However, Kates lacks the teaching wherein the communications network is a cellular communications network.

In the same field of endeavor, Oh (abstract) teaches the base unit ("wireless repeater", col. 3, lines 37-38) wherein the communications network is a cellular communications network ("cellular base station", col. 3, line 40, also see "cellular receiver", col. 4, line 19).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Oh in order to provide ubiquitous communication for the client.

9. Claim 13 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Shamoon (US PGPub 2003/0034898 A1).

Regarding claim 13, Kates teaches the base unit as discussed in claim 12. However, Kates lacks the teaching wherein the command is associated with an icon on the remote unit.

In the same field of endeavor, Shamoon teaches the base unit wherein the command is associated with an icon on the remote unit ([0019], [0043]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Shamoon in order to provide visual configuration for remote devices.

10. Claimd 14 and 18 and 20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Meada (US PGPub 2001/0048376 A1).

Regarding claim 14, Kate teaches the base unit as discussed in claim 8. However, Kates lacks the teaching wherein the control instruction is configured to adjust a temperature of a water heater.

In the same field of endeavor, Meada teaches the base unit wherein the control instruction is configured to adjust a temperature of a water heater ([0027]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Meada in order to provide consumer value added service.

Regarding claim 18, Kate teaches the base unit as discussed in claim 8. However, Kates lacks the teaching wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

In the same field endeavor, Meada teaches the base unit wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command ([0027]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Meada in order to provide consumer value added service.

Regarding claim 20, Kates further teaches the base unit wherein the communications network includes a data bearer service ("Internet and/or local area network 124", [0029]); wherein the remote unit is a mobile remote unit ("cellular telephone 123", [0029]); wherein the control instruction includes an environmental control instruction ([0013], lines 1-3).

However, Kates lacks the teaching wherein the command includes an environmental command.

In the same field of endeavor, Meada teaches wherein the command includes an environmental command ([0027]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Meada in order to provide consumer value added service.

10. Claim 15 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Naidoo (US PGPub 2004/0086090 A1).

Regarding claim 15, Kate teaches the method as discussed in claim 8. However, Kates lacks the teaching wherein the control instruction is configured to adjust an air handling system.

In the same field of endeavor, Naidoo teaches the method wherein the control instruction is configured to adjust an air handling system ([0090]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Naidoo in order to provide consumer value added service.

11. Claims 19, 21, and 22 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Bailey (US PGPub 2005/0107924 A1).

Regarding claims 19 and 21, Kate teaches the base unit as discussed in claim 8. However, Kates lacks the teaching wherein the second message includes an energy conservation command associated with multiple environmental devices.

In the same field of endeavor, Bailey teaches the base unit wherein the second message includes an energy conservation command associated with multiple environmental devices (claim 4).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Bailey in order to optimize the battery life for the end equipments.

Regarding claim 22, Kate teaches the base unit as discussed in claim 20. However, Kates lacks the explicit teaching wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

In the same field of endeavor, Bailey teaches the base unit wherein the microcontroller is configured to process the environmental information into the representation ("decode", [0010], [0021]) and to process the command into the control instruction (claim 1).

It would have been obvious for one having ordinary skill in the art at the time of the invention to modify the teachings of Bailey in order to optimize the battery life for the end equipments.

Allowable Subject Matter

12. Claim 11 is allowed.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah, can be reached on (571)272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/XIANG ZHANG/
Patent Examiner, Art Unit 2641

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

Notice of References Cited	Application/Control No. 13/271,203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2001/0048376 A1	12-2001	Maeda et al.	340/870.17
*	B	US-2003/0034898 A1	02-2003	Shamoon et al.	340/825.72
*	C	US-2004/0086090 A1	05-2004	Naidoo et al.	379/037
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant		☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE							
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014				
	1	✓							
	2	✓							
	3	✓							
	4	✓							
	5	✓							
	6	✓							
	7	✓							
	8		✓	✓	✓				
	9		✓	○	-				
	10		✓	✓	✓				
	11				=				
	12				✓				
	13				✓				
	14				✓				
	15				✓				
	16				✓				
	17				✓				
	18				✓				
	19				✓				
	20				✓				
	21				✓				
	22				✓				
	23				✓				
	24				✓				

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	("455".clas. "340".clas.) and ((adjust\$3 increas\$4 decreas\$4) near3 temperature near6 (thermostate heater "air conditioner") with remote\$3 with (config\$6 control\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 14:50
L2	18	("455".clas. "340".clas. "709".clas.) and ((adjust\$3 increas\$4 decreas\$4) near6 (thermostate heater "air conditioner") with remote\$3 with (config\$6 control\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 14:51
L3	6	2 and @ad< "20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 14:51
L4	381	("455".clas. "340".clas. "709".clas.) and ((adjust\$3 shut\$4 activat\$4 control\$4) near6 (venti\$6 vent fan\$1) with remote\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 14:56
L5	58	("455".clas. "340".clas. "709".clas.) and ((adjust\$3 shut\$4 activat\$4 control\$4) near6 (venti\$6 vent fan\$1) with remote\$3) and automation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 14:56
L6	21	5 and @ad< "20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 14:57
L7	1	"13271203" and bearer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:00
L8	3	"20050275530" and (telecommunication cellular cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:01
L9	2	"20050275530" and network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:02
L10	17	("455".clas. "340".clas. "709".clas.) and automation and ((conserv\$4) with (energy power battery) near6 (control\$4 command) with remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:11

L11	4	10 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:11
L12	43	("455".clas. "340".clas. "709".clas.) and automation and ((conserv\$4 minim\$6 shut\$4) with (energy power battery) near6 (control\$4 command) with remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:12
L13	11	12 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:13
L14	10	automation and ((conserv\$4 minim\$6 shut\$4) with (energy power battery) with control\$4 with command with remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:16
L15	26	automation and ((conserv\$4 minim\$6 shut\$4) with (energy power battery) with control\$4 with command same remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:16
L16	4	15 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:16
L17	164	automation and ((conserv\$4 minim\$6 shut\$4) with (energy power battery) with control\$4 with command)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:17
L18	38	17 and (remot\$6 near4 (command control\$4 configu\$6)) and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:17
L19	3222	((conserv\$4 minim\$6 shut\$4) with (energy power battery) with control\$4 with command)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:20
L20	276	19 and (remot\$6 near4 (command control\$4 configu\$6)) and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:21
L21	276	20 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:21
L22	169	21 and (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:22

L23	0	"20050275530" and (encod\$4 decod\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:41
L24	3	"20090280817"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:43
L25	3	"20050275530"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 15:57
L26	8	"20010048376" "20040086090" "20050107924"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:06
L27	3	26 and (encod\$4 decod\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:06
L28	11	"20050275530" 26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:14
L29	0	28 and (icon shortcut)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:14
L30	1	("455".clas. "340".clas. "709".clas.) and automation and (controller same (server repeater) same icon with (control\$4 command) with remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:15
L31	7	("455".clas. "340".clas. "709".clas.) and automation and (controller same (server repeater) same icon same (control\$4 command) same remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:15
L32	10	("455".clas. "340".clas. "709".clas.) and automation and (controller same (server repeater) same menu same (control\$4 command) same remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:16
L33	209	("455".clas. "340".clas. "709".clas.) and automation and (icon same (control\$4 command) same remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:16
L34	284	("455".clas. "340".clas. "709".clas.) and automation and (icons same (control\$4 command) same remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2014/08/20 16:16

EAST Search History

L35	107	34 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:16
L36	89	("455".clas. "340".clas. "709".clas.) and automation and (icon\$1 with (control\$4 command) with remot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2014/08/20 16:18
L37	970907	"37" and (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:18
L38	55	36 and (thermostate heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation lights lighting\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:18
L39	21	38 and @ad<"20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/08/20 16:18

EAST Search History (Interference)

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8/ 20/ 2014 4:28:27 PM**C:\ Users\ xzhang\ Documents\ EAST\ Workspaces\ 13271203.wsp**

Doc Code: PET.POA.WDRW

Document Description: Petition to withdraw attorney or agent (SB83)

PTO/SB/83 (04-13)

Approved for use through 11/30/2014. OMB 0651-0035

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	13271203
	Filing Date	2011-10-11
	First Named Inventor	Charles G. Shamoon
	Art Unit	2641
	Examiner Name	Xiang Zhang
	Practitioner Docket Number	P2921569CON

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Please withdraw me as attorney or agent for the above-identified patent application, and

- ☐ all the practitioners of record;
- ☐ the practitioners (with registration numbers) of record listed on the attached paper(s); or
- ☒ the practitioners of record associated with Customer Number, 40401

NOTE: The immediately preceding box should only be marked when the practitioners were appointed using the listed Customer Number.

The reason(s) for this request are those described in 37 CFR:

☐ 11.116(a)(1)	☐ 11.116(a)(2)	☐ 11.116(a)(3)
☐ 11.116(b)(1)	☐ 11.116(b)(2)	☐ 11.116(b)(3)
☐ 11.116(b)(4)	☐ 11.116(b)(5)	☒ 11.116(b)(6)
☐ 11.116(b)(7) Please explain below:		

Certifications

Check each box below that is factually correct. WARNING: If a box is left unchecked, the request will likely not be approved.

- ☒ I/We have given reasonable notice to the client, prior to the expiration of the response period, that the practitioner(s) intend to withdraw from employment.
- ☒ I/We have delivered to the client or a duly authorized representative of the client all papers and property (including funds) to which the client is entitled.
- ☒ I/We have notified the client of any responses that may be due and the time frame within which the client must respond.

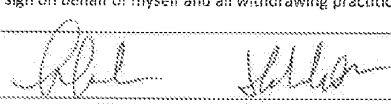
Please provide an explanation, if necessary:

[Page 1 of 2]

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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City Little Elm	State TX	Zip 75068	Country US
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I am authorized to sign on behalf of myself and all withdrawing practitioners.			
Signature 			
Name Abraham HersHKovitz		Registration No. 45,294	
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Date 2014-09-24		Telephone No. 2026386666	
NOTE: Withdrawal is effective when approved rather than when received.			

[Page 2 of 2]

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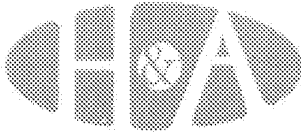
Electronic Acknowledgement Receipt

EFS ID:	20232133
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	40401
Filer:	Abraham HersHKovitz/Dinh Nguyen
Filer Authorized By:	Abraham HersHKovitz
Attorney Docket Number:	P2921569CON
Receipt Date:	25-SEP-2014
Filing Date:	11-OCT-2011
Time Stamp:	07:37:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		p2921569con_20140924081746.pdf	190373	yes	3
			6d3fc551ca8b541448afdfcc58e0966f3eb113b1		

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Transmittal Letter	1	1
	Petition to withdraw attorney or agent (SB83)	2	3
Warnings:			
Information:			
Total Files Size (in bytes):		190373	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.			



HERSHKOVITZ & ASSOCIATES, PLLC

PATENT AGENCY

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Applicant: Charles E. Shamoon et al.

Examiner: Xiang ZHANG

Appl. No.: 13/271,203

Group Art Unit: 2641

Appl. Filed: October 11, 2011

Confirmation No.: 1022

For: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Honorable Commissioner:

Transmitted herewith: **REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND
CHANGE OF CORRESPONDENCE ADDRESS** in connection with the above-captioned matter.

The fee has been calculated as shown below:

Claims After Amendment	No. of Claims Previously Paid	Present Extra	Small Entity		Large Entity	
			Rate	Fee	Rate	Fee
*Total Claims:	0	0	x 40=	\$	x 80=	\$
**Indep. Claims:	0	0	x210=	\$	x420=	\$
Total:				\$	Total:	\$

☐ Fee Payment made through EFS.

☐ Payment is made herewith by Credit Card (see attached Form PTO-2038).

☐ The Director is hereby authorized to charge all fees, including those under 37 CFR §§1.16 and 1.17, which are required for entry of the papers submitted herewith, and any fees which may be required to maintain pendency of this application, to Deposit Account No. 50-2929.

☐ The Director is hereby authorized to charge all fees under 37 CFR § 1.18 which may be required to complete issuance of this application to Deposit Account No. 50-2929.

Respectfully submitted,

Abe HersHKovitz
Abraham HersHKovitz
Registration No. 45,294

Date: September 24, 2014

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Docket No. 2032-20

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SEP 25 2014

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Charles G. Shamoon *et al.*

Confirmation No. 1022

Appl. No. 13/271,203

Group Art Unit: 2641

Filed: October 11, 2011

Examiner: Zhang, Xiang

For: UBIQUITOUS CONNECTIVITY AND
CONTROL SYSTEM FOR REMOTE
LOCATIONS

**REQUEST FOR CONTINUED EXAMINATION (RCE)
AND AMENDMENT UNDER 37 C.F.R. §1.114**

Mail Stop: RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Dear Commissioner:

This is a Request for Continued Examination (RCE) with Amendment under 37 C.F.R. §1.114. The \$600 fee under 37 C.F.R. §1.17(e)(1) for a first RCE by a small entity is submitted concurrently by credit card payment.

In reply to the final Office Action of August 27, 2014, reconsideration and withdrawal of the rejections made therein is respectfully requested, in view of the following amendments and remarks.

This Amendment is timely filed because the Office Action sets a three-month statutory period for response and the Applicants file this Amendment not later than November 27, 2014.

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AMENDMENTS TO THE CLAIMS

*Please amend claim 8 as shown, and add new claims 26-29. No new matter is added.
Each claim is accompanied by a status identifier.*

1-7. (Canceled)

8. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

- a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;
- a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,
- wherein the first message is a first digital communications message including a representation of the environmental information, and
- wherein the second message is a second digital communications message including a command regarding the environmental device; and
- a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and
- wherein the command is an enter mode command for the base unit, and
- wherein the control instruction to the environmental device is associated with the enter mode command for the base unit.

9. (Canceled)

10. (Previously Presented) The base unit according to claim 8, wherein the communications network is a cellular communications network.

Docket No. 2032-20

13/271,203

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Previously Presented) The base unit of claim 8, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Previously Presented) The base unit of claim 12, wherein the command is associated with an icon on the remote unit.

14. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust a temperature of a water heater.

15. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust an air handling system.
16. (Previously Presented) The base unit of claim 8, wherein the communications network includes a data bearer service.
17. (Previously Presented) The base unit of claim 8, wherein the remote unit is a mobile remote unit.
18. (Previously Presented) The base unit of claim 8, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.
19. (Previously Presented) The base unit of claim 8, wherein the second message includes an energy conservation command associated with multiple environmental devices.
20. (Previously Presented) The base unit of claim 8,
 wherein the communications network includes a data bearer service; wherein the remote unit is a mobile remote unit;
 wherein the control instruction includes an environmental control instruction; and
 wherein the command includes an environmental command.
21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.
22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.
23. (Currently Amended) A base unit configured to communicate with an environmental device

Docket No. 2032-20

13/271,203

and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the environmental information, to provide the representation, and to send the representation in the first message to the remote unit via the wireless communication interface, and

wherein the command is an enter mode command for the base unit, and

wherein the control instruction to the environmental device is associated with the enter mode command for the base unit.

24. (Previously Presented) The base unit according to claim 23, wherein the microcontroller is further configured to process the command of the second message, to provide the control instruction, and to send the control instruction to the environmental device via the first communication interface.

26. (New) The base unit of claim 8, wherein the environmental device comprises a thermostat.

27. (New) The base unit of claim 8, wherein the remote unit is a cellular telephone, and wherein the environmental unit comprises a thermostat.

28. (New) The base unit of claim 8, wherein the environmental device comprises a light.

29. (New) The base unit of claim 8, wherein the environmental device comprises an alarm system.

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Docket No. 2032-20

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REMARKS

SEP 25 2014

Status of Claims

Claims 8 and 10-29 are pending. Claims 8 and 23 are hereby amended, and claims 26-29 are new. The amendments and new claims are supported by the specification, claims, and figures as originally filed. Claims 8, 11, and 23 are the only independent claims.

Claim 11 allowed

Applicants appreciate the Examiner's indication that claim 11 is allowed.

Telephone Interview

Applicants appreciate the courtesies extended by Examiner Xiang Zhang and Primary Examiner Olumide T. Ajibade Akonai at the telephone interview held on September 17, 2014 with Ed Garcia-Otero.

Based on the telephone interview, Applicants have amended independent claims 8 and 23 to recite:

**wherein the command is an enter mode command for the base unit, and
wherein the control instruction to the environmental device is associated with
the enter mode command for the base unit.**

Applicants respectfully submit that this amendment clarifies the distinction between independent claims 8 and 23 over the cited art.

As an illustrative and non-limiting example, the command may be a command to "enter an energy conservation mode." See paragraph [0039] of Patent Application Publication 2012/0094638. Upon receiving this command, the microprocessor may send a control instruction to a hot water heater to adjust "operation of a hot water heater to conserve power consumption of the home." See paragraph [0039] of Patent Application Publication 2012/0094638. The microcontroller may (in response to the same command) also send another control instruction to adjust an air handling system.

Thus, the microcontroller in the base unit may process a single command in the second message (such as an SMS message) to generate one or more control instructions that a hot water heater and/or an air handling system can understand. In general, environmental devices such as a hot water heater and an air handling system may be manufactured by different companies (and by different countries), and may communicate with the microcontroller using

Docket No. 2032-20

13/271,203

completely different control instructions and/or codes.

Thus, processing of the command by the base station may be a relatively complex operation, similar to a supervisor receiving a broad command in English (like "build a house") and then "translating" the broad command into very specific instructions in a first language for a first employee that is laying water pipe, and into different specific instructions in a second language for a second employee that is wiring electrical outlets.

Claim Rejections Under 35 U.S.C. § 102

Claims 8, 12, 16, 17, and 23 are rejected under pre-AIA 35 U.S.C. § 102(b) as allegedly being anticipated by Kates (US PGPub 2005/0275530). Applicants respectfully traverse.

Currently amended independent claim 8 recites, in part:

A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:
a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;
a wireless communication interface configured to send a first message to the remote unit via a communications network and to **receive a second message from the remote unit** via the communications network,
wherein the first message is a first digital communications message including a representation of the environmental information, and
wherein **the second message** is a second digital communications message **including a command** regarding the environmental device; and
a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and
wherein **the command is an enter mode command for the base unit**, and
wherein **the control instruction to the environmental device is associated with the enter mode command for the base unit.**

As an illustrative and non-limiting example, Figure 1 of the Specification is provided below.

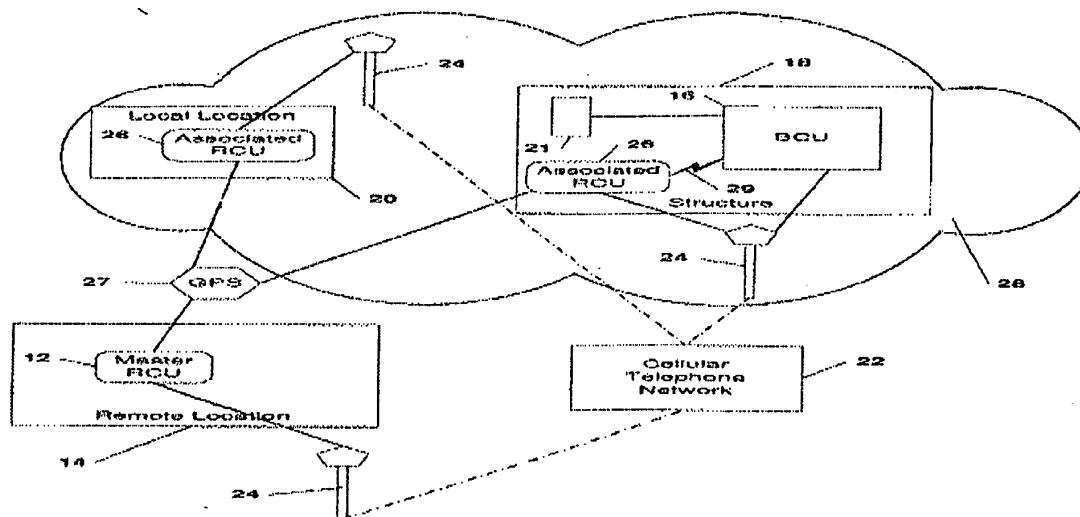


FIGURE 1 OF SPECIFICATION (SYSTEM)

In Figure 1, base unit (or base control unit "BCU") 16 communicates with associated devices (such as an environmental device like a hot water heater) 21 and communicates with master remote unit (or master remote control unit "Master RCU") 12. The master remote control unit may be a cellular telephone 30, as shown in Figure 2.

Further, base unit 16 may include multiple interfaces and a microcontroller. An illustrative and non-limiting example of a base unit with multiple interfaces is shown in Figure 4 of the Specification, and is provided below.

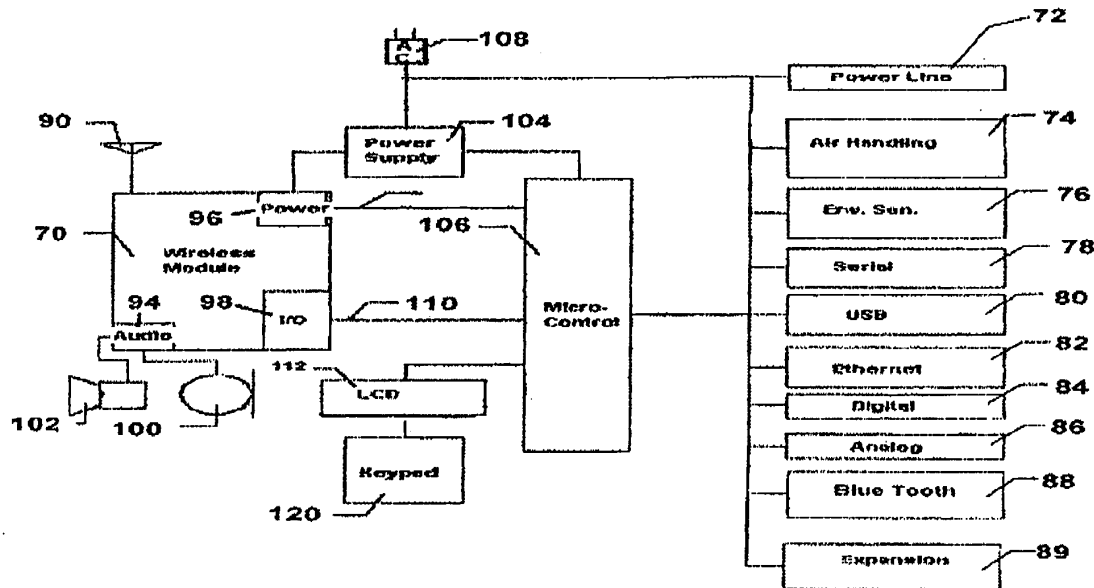


FIGURE 4 OF SPECIFICATION (BASE UNIT BCU)

For example, microcontroller 106 may communicate with master remote unit 12 via wireless module 70, and may communicate with an environmental device either through wireless module 70 or through one (or more) of the component interfaces (72, 74, 76, 78, 80, Ethernet 82, 84, 86, Blue Tooth 88, or 89).

In one illustrative and non-limiting embodiment, base unit 16 receives environmental information from an environmental device 21 through a first communication interface such as Ethernet 82. Base unit 16 then sends a first message to master remote unit 12 through a wireless communication interface such as wireless module 70. The first message may be a first digital communications message including a representation of the environmental information. For example, the first message may indicate that a child has arrived at or has left the home. See paragraph [0048]. Base station 16 may then receive a second message from master remote unit 12.

In claim 8, the command in the second message is an **“enter mode command.”** In response to receiving the command, the base station will **“provide the control instruction based on the command”** to the environmental device as required by claim 8. Additionally, the control instruction is **“associated with the enter mode command”** as required by claim 8.

Docket No. 2032-20

13/271,203

As an illustrative and non-limiting example, the enter mode command may be a command to **"enter an energy conservation mode."** See paragraph [0039] of Patent Application Publication 2012/0094638. Upon receiving this command, the microprocessor may (for example) send a control instruction (associated with the energy conservation mode) to a hot water heater that "adjusts operation of a hot water heater to conserve power consumption of the home." See paragraph [0039] of Patent Application Publication 2012/0094638. Alternatively, the environmental device may be an air handling system.

The Office Action, at pages 3 and 4, asserts that the "repeater unit" 110 in Figure 1 of Kates discloses the base unit of claim 8. Applicant respectfully traverses this interpretation of Kates. Figure 1 of Kates is provided below for the convenience of the Examiner.

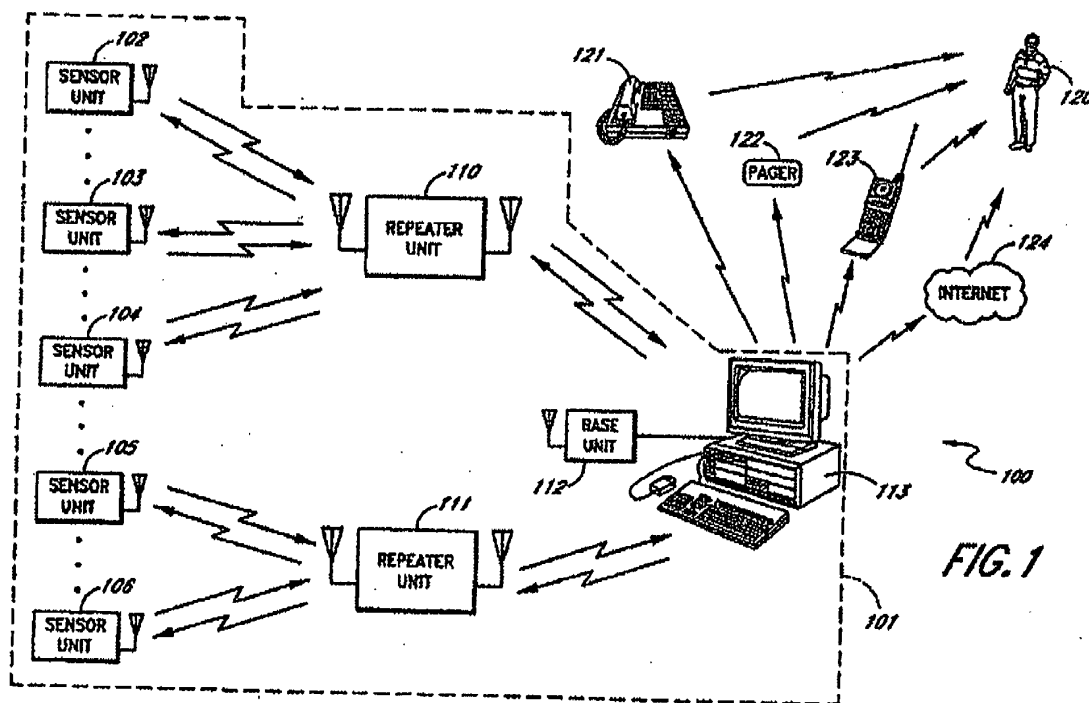


FIGURE 1 OF KATES

Specifically, the Office Action asserts that the repeater unit 110 of Kates receives a "command," and then sends a "control instruction" to an environmental device, referring to paragraphs [0074] and [0083] of Kates. However, these paragraphs of Kates merely state:

[0074] In one embodiment, the sensor 201 includes a moisture sensor. The moisture sensor can be placed under a sink or a toilet (to detect plumbing leaks) or in an attic space (to detect roof leaks).

[0083] In one embodiment, a water flow sensor is provided to the sensor unit 102. The sensor unit 102 obtains water flow data from the water flow sensor and provides the water flow data to the monitoring computer 113. The monitoring computer 113 can then calculate water usage. Additionally, the monitoring computer can watch for water leaks, by, for example, looking for water flow when there should be little or no flow. Thus, for example, if the monitoring computer detects water usage throughout the night, the monitoring computer can raise an alert indicating that a possible water leak has occurred.

Thus, paragraphs [0074] and [0083] of Kates merely monitor moisture or water flow, and merely "raise an alert indicating that a possible water leak has occurred." This alert of Kates is raised by monitoring computer 113, and is sent to, for example, mobile phone 123. Note that the arrow between monitoring computer 113 and mobile phone 123 is unidirectional, from the computer to the mobile phone!

The repeater unit 110 of Kates never even receives this alert that is generated by monitoring computer 113, and certainly does not generate this alert indicating that a possible water leak has occurred.

Thus, Applicant respectfully submits that the repeater unit 110 of Kates does not teach or suggest a base unit configured to:

"receive a second message from the remote unit ... including a command"
(wherein **"the command is an enter mode command for the base unit"**),
"provide the control instruction based on the command," and
"send the control instruction to the environmental device" ("**wherein the control instruction to the environmental device is associated with the enter mode command for the base unit**") as required by claim 8.

At best, repeater unit 110 of Kates might repeat a control instruction, while making slight changes to a header that accompanies the control instruction.

Thus, claim 8 is patentable over Kates for at least the above reasons. Independent claim 23 is patentable for similar reasons, as well as on its own merits.

Dependent claims 12, 16, and 17 are patentable over Kates for the same reasons as their base claims, as well as on their own merits. Applicant respectfully submits that this rejection should be withdrawn.

Claim Rejections under 35 U.S.C. § 103

Claims 10, 13-15, and 18-22 are rejected under pre-AIA 35 U.S.C. § 102(b) as allegedly being unpatentable over Kates (US PGPub 2005/0275530) in view of various combinations of other cited art. Applicants respectfully traverse.

As discussed above independent claims 8 and 23 are patentable over Kates. The other cited art does not remedy the deficiencies of Kates. Thus, dependent claims 10, 13-15, and 18-22 are patentable for the same reasons as their base claims, as well as on their own merits.

Applicant respectfully submits that this rejection should be withdrawn.

New Claims 26-29

Applicant respectfully submits that new claims 26-29 are patentable over the cited art for the same reasons as their base claims, as well as on their own merits.

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Docket No. 2032-20

CONCLUSIONS

The present application is now in condition for allowance and such action is respectfully requested. The Examiner is encouraged to contact Applicant's representative regarding any remaining issues in an effort to expedite allowance and issuance of the present application.

Respectfully submitted,

By: /Ed Garcia-Otero/

Ed Garcia-Otero
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Enclosures: Power of Attorney
Statement under 37 CFR 3.73(b)
Credit Card Payment Form for RCE fee (small entity, first RCE, \$600)

Date: September 25, 2014

REMARKS

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Status of Claims

Claims 8 and 10-29 are pending. Claims 8 and 23 are hereby amended, and claims 26-29 are new. The amendments and new claims are supported by the specification, claims, and figures as originally filed. Claims 8, 11, and 23 are the only independent claims.

Claim 11 allowed

Applicants appreciate the Examiner's indication that claim 11 is allowed.

Telephone Interview

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Thus, the microcontroller in the base unit may process a single command in the second message (such as an SMS message) to generate one or more control instructions that a hot water heater and/or an air handling system can understand. In general, environmental devices such as a hot water heater and an air handling system may be manufactured by different companies (and by different countries), and may communicate with the microcontroller using completely different control instructions and/or codes.

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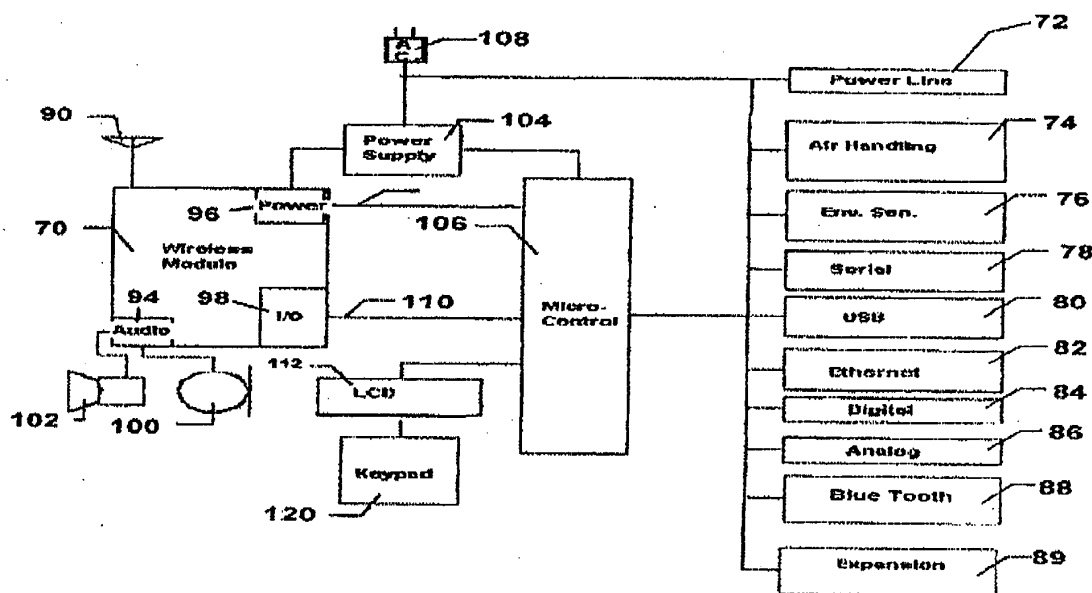


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In claim 8, the command in the second message is an **"enter mode command."** In response to receiving the command, the base station will **"provide the control instruction based on the command"** to the environmental device as required by claim 8. Additionally, the control instruction is **"associated with the enter mode command"** as required by claim 8.

As an illustrative and non-limiting example, the enter mode command may be a command to **"enter an energy conservation mode."** See paragraph [0039] of Patent Application Publication 2012/0094638. Upon receiving this command, the microprocessor may (for example) send a control instruction (associated with the energy conservation mode) to a hot water heater that "adjusts operation of a hot water heater to conserve power consumption of the home." See paragraph [0039] of Patent Application Publication 2012/0094638. Alternatively, the environmental device may be an air handling system.

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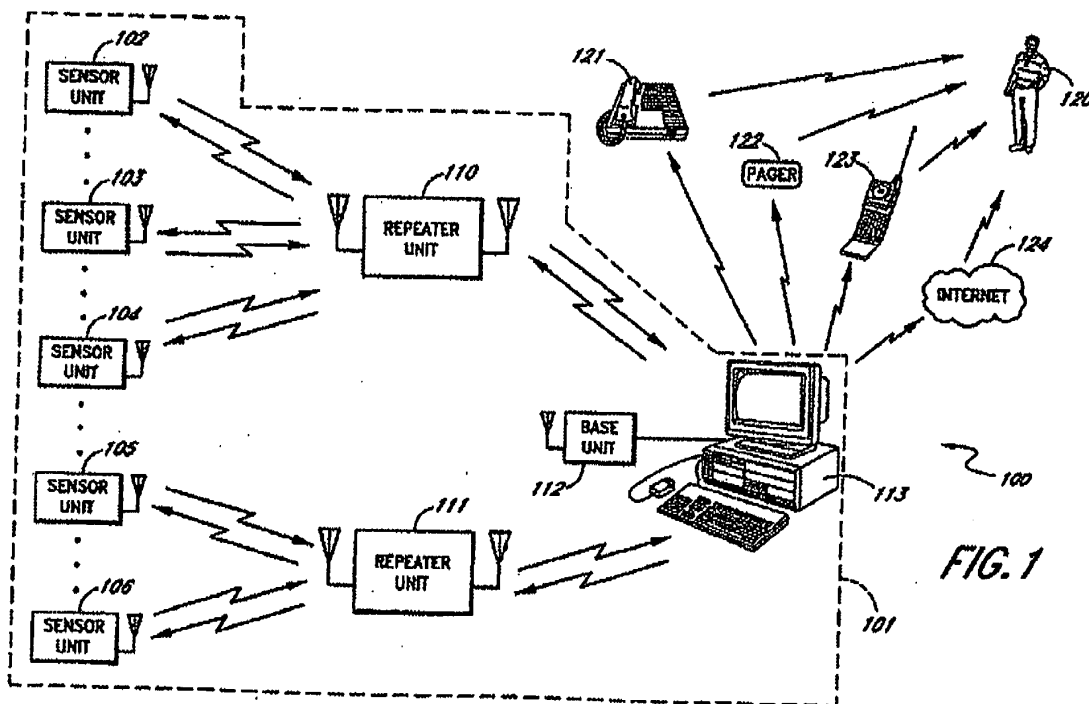


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"receive a second message from the remote unit ... including a command" (wherein **"the command is an enter mode command for the base unit"**),

"provide the control instruction based on the command," and

"send the control instruction to the environmental device" ("wherein **the control instruction to the environmental device is associated with the enter mode command for the base unit**") as required by claim 8.

At best, repeater unit 110 of Kates might repeat a control instruction, while making slight changes to a header that accompanies the control instruction.

Thus, claim 8 is patentable over Kates for at least the above reasons. Independent claim 23 is patentable for similar reasons, as well as on its own merits.

Dependent claims 12, 16, and 17 are patentable over Kates for the same reasons as their base claims, as well as on their own merits. Applicant respectfully submits that this rejection should be withdrawn.

Claim Rejections under 35 U.S.C. § 103

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As discussed above independent claims 8 and 23 are patentable over Kates. The other cited art does not remedy the deficiencies of Kates. Thus, dependent claims 10, 13-15, and 18-22 are patentable for the same reasons as their base claims, as well as on their own merits.

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New Claims 26-29

Applicant respectfully submits that new claims 26-29 are patentable over the cited art for the same reasons as their base claims, as well as on their own merits.

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CONCLUSIONS

The present application is now in condition for allowance and such action is respectfully requested. The Examiner is encouraged to contact Applicant's representative regarding any remaining issues in an effort to expedite allowance and issuance of the present application.

Respectfully submitted,

By: /Ed Garcia-Otero/

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Enclosures: Power of Attorney
Statement under 37 CFR 3.73(b)
Credit Card Payment Form for RCE fee (small entity, first RCE, \$600)

Date: September 25, 2014

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	13/271,203
	Filing Date	10/11/2011
	First Named Inventor	Charles G. Shamoon
	Title	UBIQUITOUS CONNECTIVITY AND CONTROL...
	Art Unit	2641
	Examiner Name	ZHANG, XIANG
	Attorney Docket Number	2032-20

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☐ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

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☒ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

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ED GARCIA-OTERO	56,609

Please recognize or change the correspondence address for the above-identified application to:

☐ The address associated with the above-mentioned Customer Number.

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☐ The address associated with Customer Number:

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☒ Firm or Individual Name: GARCIA PATENT LAW PLLC

Address: 100 KENNON CT

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I am the:

☐ Applicant/Inventor.

OR

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____ submitted herewith

SIGNATURE of Applicant or Assignee of Record

Signature	<i>Charles G. Shamoon</i>	Date	9/25/2014
Name	Charles G. Shamoon	Telephone	214 491 7247
Title and Company	President, Ubiquitous Connectivity, LP		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ *Total of ONE forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: UBIQUITOUS CONNECTIVITY, LPApplication No./Patent No.: 13/271,203Filed/Issue Date: FILED Oct. 11, 2011

Titled:

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

UBIQUITOUS CONNECTIVITY, LP

a PARTNERSHIP

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s) of the patent application/patent identified above, to the current assignee as follows:

1. From: SHAMOON, C. AND SHAMOON, D. To: UBIQUITOUS CONNECTIVITY, LP

The document was recorded in the United States Patent and Trademark Office at
Reel 028125, Frame 0418, or for which a copy thereof is attached.

2. From: TURKOW, A. AND TURKOW, L. To: UBIQUITOUS CONNECTIVITY, LP

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☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.


Signature

9/25/2014

Date

Charles G. Shamon

President

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PAGE 17/17 * RCVD AT 9/25/2014 11:57:40 AM [Eastern Daylight Time] * SVR:W-PTOFAX-002/43 * DNIS:2738300 * CSID:8045240009

* DURATION (mm-ss):06-35

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Fax number 571-273-8300 Fax number _____
Date 9/25/2014 Total pages 17
Job number 13/271,203 NEEDING
Doc# 2032-20 COVER

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Docket No. 2032-20

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SEP 25 2014

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Charles G. Shamon *et al.*

Confirmation No. 1022

Appl. No. 13/271,203

Group Art Unit: 2641

Filed: October 11, 2011

Examiner: Zhang, Xiang

For: UBIQUITOUS CONNECTIVITY AND
CONTROL SYSTEM FOR REMOTE
LOCATIONS

**REQUEST FOR CONTINUED EXAMINATION (RCE)
AND AMENDMENT UNDER 37 C.F.R. §1.114**

Mail Stop: RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Dear Commissioner:

This is a Request for Continued Examination (RCE) with Amendment under 37 C.F.R. §1.114. The \$600 fee under 37 C.F.R. §1.17(e)(1) for a first RCE by a small entity is submitted concurrently by credit card payment.

In reply to the final Office Action of August 27, 2014, reconsideration and withdrawal of the rejections made therein is respectfully requested, in view of the following amendments and remarks.

This Amendment is timely filed because the Office Action sets a three-month statutory period for response and the Applicants file this Amendment not later than November 27, 2014.

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AMENDMENTS TO THE CLAIMS

*Please amend claim 8 as shown, and add new claims 26-29. No new matter is added.
Each claim is accompanied by a status identifier.*

1-7. (Canceled)

8. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is an enter mode command for the base unit, and

wherein the control instruction to the environmental device is associated with the enter mode command for the base unit.

9. (Canceled)

10. (Previously Presented) The base unit according to claim 8, wherein the communications network is a cellular communications network.

Docket No. 2032-20

13/271,203

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Previously Presented) The base unit of claim 8, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Previously Presented) The base unit of claim 12, wherein the command is associated with an icon on the remote unit.

14. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust a temperature of a water heater.

15. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust an air handling system.
16. (Previously Presented) The base unit of claim 8, wherein the communications network includes a data bearer service.
17. (Previously Presented) The base unit of claim 8, wherein the remote unit is a mobile remote unit.
18. (Previously Presented) The base unit of claim 8, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.
19. (Previously Presented) The base unit of claim 8, wherein the second message includes an energy conservation command associated with multiple environmental devices.
20. (Previously Presented) The base unit of claim 8,
wherein the communications network includes a data bearer service; wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction; and
wherein the command includes an environmental command.
21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.
22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.
23. (Currently Amended) A base unit configured to communicate with an environmental device

Docket No. 2032-20

13/271,203

and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the environmental information, to provide the representation, and to send the representation in the first message to the remote unit via the wireless communication interface, and

wherein the command is an enter mode command for the base unit, and

wherein the control instruction to the environmental device is associated with the enter mode command for the base unit.

24. (Previously Presented) The base unit according to claim 23, wherein the microcontroller is further configured to process the command of the second message, to provide the control instruction, and to send the control instruction to the environmental device via the first communication interface.

26. (New) The base unit of claim 8, wherein the environmental device comprises a thermostat.

27. (New) The base unit of claim 8, wherein the remote unit is a cellular telephone, and wherein the environmental unit comprises a thermostat.

28. (New) The base unit of claim 8, wherein the environmental device comprises a light.

29. (New) The base unit of claim 8, wherein the environmental device comprises an alarm system.

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Docket No. 2032-20

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REMARKS

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Status of Claims

Claims 8 and 10-29 are pending. Claims 8 and 23 are hereby amended, and claims 26-29 are new. The amendments and new claims are supported by the specification, claims, and figures as originally filed. Claims 8, 11, and 23 are the only independent claims.

Claim 11 allowed

Applicants appreciate the Examiner's indication that claim 11 is allowed.

Telephone Interview

Applicants appreciate the courtesies extended by Examiner Xiang Zhang and Primary Examiner Olumide T. Ajibade Akonai at the telephone interview held on September 17, 2014 with Ed Garcia-Otero.

Based on the telephone interview, Applicants have amended independent claims 8 and 23 to recite:

**wherein the command is an enter mode command for the base unit, and
wherein the control instruction to the environmental device is associated with
the enter mode command for the base unit.**

Applicants respectfully submit that this amendment clarifies the distinction between independent claims 8 and 23 over the cited art.

As an illustrative and non-limiting example, the command may be a command to "enter an energy conservation mode." See paragraph [0039] of Patent Application Publication 2012/0094638. Upon receiving this command, the microprocessor may send a control instruction to a hot water heater to adjust "operation of a hot water heater to conserve power consumption of the home." See paragraph [0039] of Patent Application Publication 2012/0094638. The microcontroller may (in response to the same command) also send another control instruction to adjust an air handling system.

Thus, the microcontroller in the base unit may process a single command in the second message (such as an SMS message) to generate one or more control instructions that a hot water heater and/or an air handling system can understand. In general, environmental devices such as a hot water heater and an air handling system may be manufactured by different companies (and by different countries), and may communicate with the microcontroller using

Docket No. 2032-20

13/271,203

completely different control instructions and/or codes.

Thus, processing of the command by the base station may be a relatively complex operation, similar to a supervisor receiving a broad command in English (like "build a house") and then "translating" the broad command into very specific instructions in a first language for a first employee that is laying water pipe, and into different specific instructions in a second language for a second employee that is wiring electrical outlets.

Claim Rejections Under 35 U.S.C. § 102

Claims 8, 12, 16, 17, and 23 are rejected under pre-AIA 35 U.S.C. § 102(b) as allegedly being anticipated by Kates (US PGPub 2005/0275530). Applicants respectfully traverse.

Currently amended independent claim 8 recites, in part:

A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:
a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;
a wireless communication interface configured to send a first message to the remote unit via a communications network and to **receive a second message from the remote unit** via the communications network,
wherein the first message is a first digital communications message including a representation of the environmental information, and
wherein **the second message** is a second digital communications message **including a command** regarding the environmental device; and
a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and
wherein **the command is an enter mode command for the base unit**, and
wherein **the control instruction to the environmental device is associated with the enter mode command for the base unit.**

As an illustrative and non-limiting example, Figure 1 of the Specification is provided below.

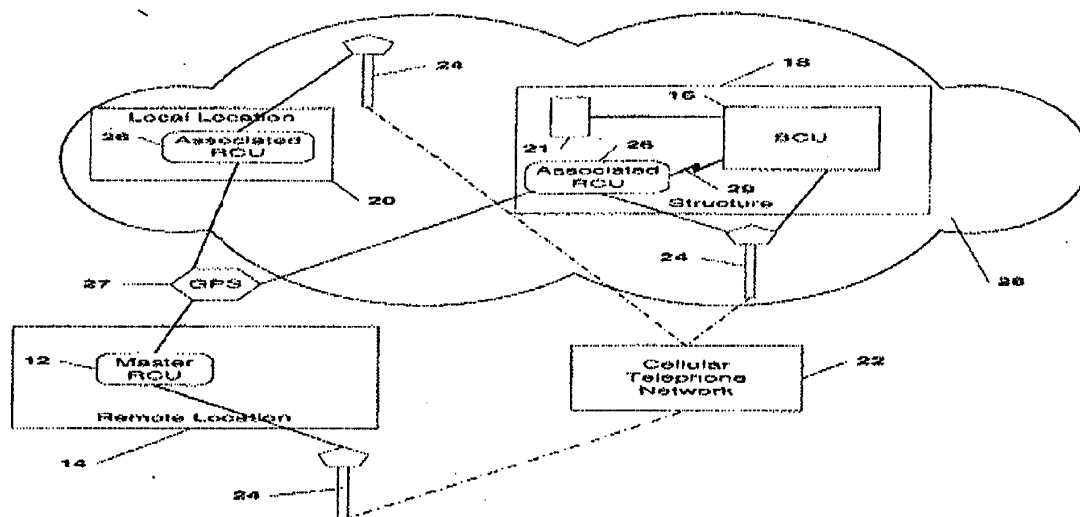


FIGURE 1 OF SPECIFICATION (SYSTEM)

In Figure 1, base unit (or base control unit "BCU") 16 communicates with associated devices (such as an environmental device like a hot water heater) 21 and communicates with master remote unit (or master remote control unit "Master RCU") 12. The master remote control unit may be a cellular telephone 30, as shown in Figure 2.

Further, base unit 16 may include multiple interfaces and a microcontroller. An illustrative and non-limiting example of a base unit with multiple interfaces is shown in Figure 4 of the Specification, and is provided below.

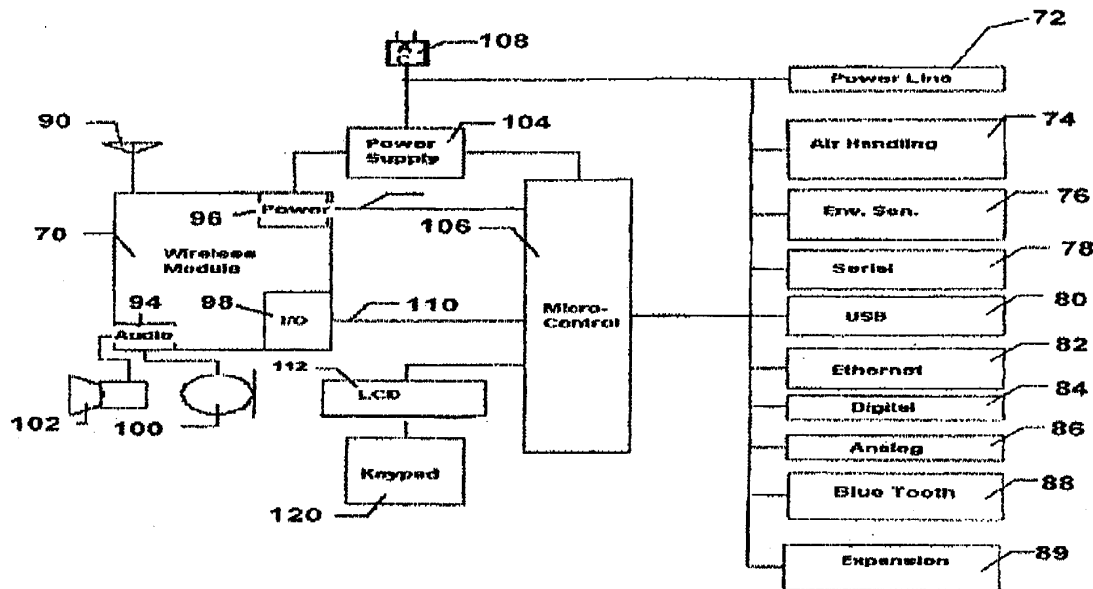


FIGURE 4 OF SPECIFICATION (BASE UNIT BCU)

For example, microcontroller 106 may communicate with master remote unit 12 via wireless module 70, and may communicate with an environmental device either through wireless module 70 or through one (or more) of the component interfaces (72, 74, 76, 78, 80, Ethernet 82, 84, 86, Blue Tooth 88, or 89).

In one illustrative and non-limiting embodiment, base unit 16 receives environmental information from an environmental device 21 through a first communication interface such as Ethernet 82. Base unit 16 then sends a first message to master remote unit 12 through a wireless communication interface such as wireless module 70. The first message may be a first digital communications message including a representation of the environmental information. For example, the first message may indicate that a child has arrived at or has left the home. See paragraph [0048]. Base station 16 may then receive a second message from master remote unit 12.

In claim 8, the command in the second message is an **“enter mode command.”** In response to receiving the command, the base station will **“provide the control instruction based on the command”** to the environmental device as required by claim 8. Additionally, the control instruction is **“associated with the enter mode command”** as required by claim 8.

Docket No. 2032-20

13/271,203

As an illustrative and non-limiting example, the enter mode command may be a command to **"enter an energy conservation mode."** See paragraph [0039] of Patent Application Publication 2012/0094638. Upon receiving this command, the microprocessor may (for example) send a control instruction (associated with the energy conservation mode) to a hot water heater that "adjusts operation of a hot water heater to conserve power consumption of the home." See paragraph [0039] of Patent Application Publication 2012/0094638. Alternatively, the environmental device may be an air handling system.

The Office Action, at pages 3 and 4, asserts that the "repeater unit" 110 in Figure 1 of Kates discloses the base unit of claim 8. Applicant respectfully traverses this interpretation of Kates. Figure 1 of Kates is provided below for the convenience of the Examiner.

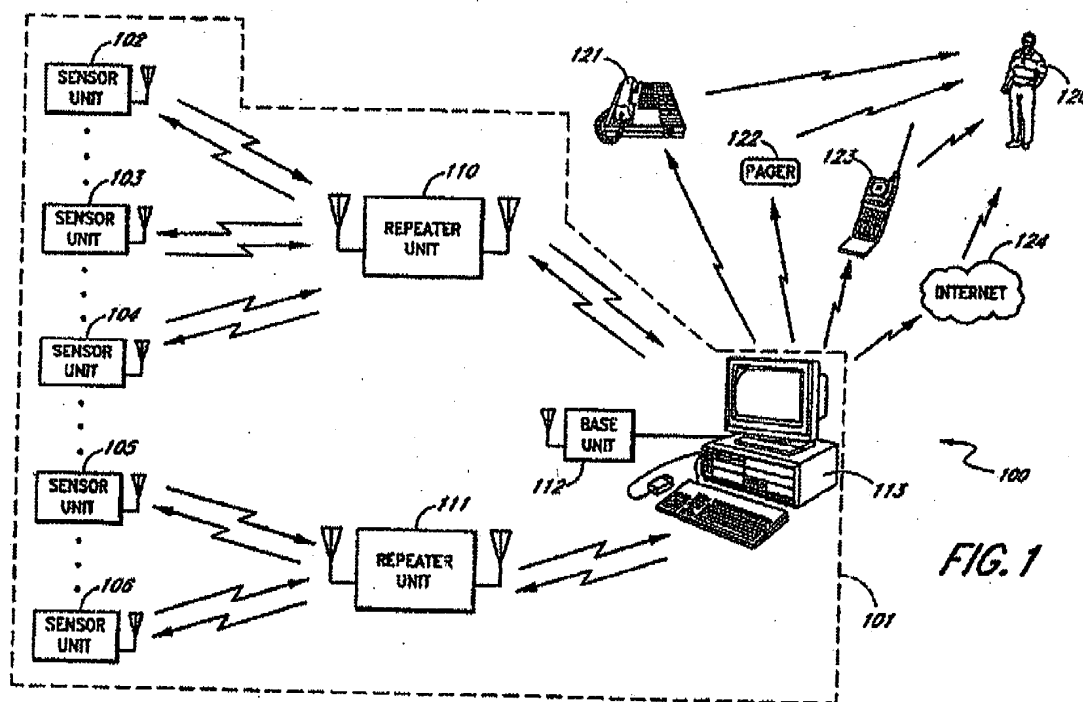


FIGURE 1 OF KATES

Specifically, the Office Action asserts that the repeater unit 110 of Kates receives a "command," and then sends a "control instruction" to an environmental device, referring to paragraphs [0074] and [0083] of Kates. However, these paragraphs of Kates merely state:

Docket No. 2032-20

13/271,203

[0074] In one embodiment, the sensor 201 includes a moisture sensor. The moisture sensor can be place under a sink or a toilet (to detect plumbing leaks) or in an attic space (to detect roof leaks).

...

[0083] In one embodiment, a water flow sensor is provided to the sensor unit 102. The sensor unit 102 obtains water flow data from the water flow sensor and provides the water flow data to the monitoring computer 113. The monitoring computer 113 can then calculate water usage. Additionally, the monitoring computer can watch for water leaks, by, for example, looking for water flow when there should be little or no flow. Thus, for example, if the monitoring computer detects water usage throughout the night, the monitoring computer can raise an alert indicating that a possible water leak has occurred.

Thus, paragraphs [0074] and [0083] of Kates merely monitor moisture or water flow, and merely "raise an alert indicating that a possible water leak has occurred." This alert of Kates is raised by monitoring computer 113, and is sent to, for example, mobile phone 123. Note that the arrow between monitoring computer 113 and mobile phone 123 is unidirectional, from the computer to the mobile phone!

The repeater unit 110 of Kates never even receives this alert that is generated by monitoring computer 113, and certainly does not generate this alert indicating that a possible water leak has occurred.

Thus, Applicant respectfully submits that the repeater unit 110 of Kates does not teach or suggest a base unit configured to:

"receive a second message from the remote unit ... including a command"

(wherein **"the command is an enter mode command for the base unit"**),

"provide the control instruction based on the command," and

"send the control instruction to the environmental device" (**"wherein the control instruction to the environmental device is associated with the enter mode command for the base unit"**) as required by claim 8.

At best, repeater unit 110 of Kates might repeat a control instruction, while making slight changes to a header that accompanies the control instruction.

Thus, claim 8 is patentable over Kates for at least the above reasons. Independent claim 23 is patentable for similar reasons, as well as on its own merits.

Dependent claims 12, 16, and 17 are patentable over Kates for the same reasons as their base claims, as well as on their own merits. Applicant respectfully submits that this rejection should be withdrawn.

Claim Rejections under 35 U.S.C. § 103

Claims 10, 13-15, and 18-22 are rejected under pre-AIA 35 U.S.C. § 102(b) as allegedly being unpatentable over Kates (US PGPub 2005/0275530) in view of various combinations of other cited art. Applicants respectfully traverse.

As discussed above independent claims 8 and 23 are patentable over Kates. The other cited art does not remedy the deficiencies of Kates. Thus, dependent claims 10, 13-15, and 18-22 are patentable for the same reasons as their base claims, as well as on their own merits.

Applicant respectfully submits that this rejection should be withdrawn.

New Claims 26-29

Applicant respectfully submits that new claims 26-29 are patentable over the cited art for the same reasons as their base claims, as well as on their own merits.

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Docket No. 2032-20

CONCLUSIONS

The present application is now in condition for allowance and such action is respectfully requested. The Examiner is encouraged to contact Applicant's representative regarding any remaining issues in an effort to expedite allowance and issuance of the present application.

Respectfully submitted,

By: /Ed Garcia-Otero/

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Enclosures: Power of Attorney
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Date: September 25, 2014

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	09/25/2014		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		* 20		Minus	** 20	= 0		
	Independent (37 CFR 1.16(h))		* 3		Minus	***3	= 0		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		*		Minus	**	=		
	Independent (37 CFR 1.16(h))		*		Minus	***	=		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoan	P2921569CON	1022
40401 7590 09/30/2014 Jacobson Holman HersHKovitz PLLC 400 Seventh Street N.W. Suite 600 Washington, DC 20004			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 09/30/2014	DELIVERY MODE ELECTRONIC

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patent@jhhip.com
patmark@jhhip.com

<i>Applicant-Initiated Interview Summary</i>	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) EDWARD ZHANG. (3) Olumide Ajibade-Akonai .

(2) Ed Garcia (Reg#56,609). (4) _____.

Date of Interview: 18 September 2014.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
 If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☒102 ☐103 ☐Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 8.

Identification of prior art discussed: Kates et. al.

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The applicants' representative discussed the merits of claim 8 in which the applicants' representative stated the distinction between the recited claim of "the first message is a first digital communications message including a command regarding the environmental device" and "to send the control instruction to the environmental device via the first communication interface". The applicants' representative further stated that the repeater cited in the prior art of record of Kates et. al does not have the capability to receive the commands and send the control instruction. No agreements are reached. The examiner will respond to the subsequent amendment.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/Olumide T. Ajibade-Akonai/ Primary Examiner, AU 2641	Xiang Zhang/ Patent Examiner, Art Unit 2641

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	P2921569CON

CONFIRMATION NO. 1022

POWER OF ATTORNEY NOTICE

40401
Jacobson Holman Hershkovitz PLLC
400 Seventh Street N.W. Suite 600
Washington, DC 20004



OC000000071104376

Date Mailed: 10/03/2014

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/25/2014.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/snguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	2032-20

GARCIA PATENT LAW PLLC
100 KENNON CT
COLONIAL HEIGHTS, VA 23824

CONFIRMATION NO. 1022
POA ACCEPTANCE LETTER



OC000000071104474

Date Mailed: 10/03/2014

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/25/2014.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/snguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	2032-20	1022

7590 12/22/2014
GARCIA PATENT LAW PLLC
100 KENNON CT
COLONIAL HEIGHTS, VA 23824

EXAMINER

ZHANG, XIANG

ART UNIT	PAPER NUMBER

2641

MAIL DATE	DELIVERY MODE

12/22/2014

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 09/25/2014.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 8, 10, 11, and 12-29 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☒ Claim(s) 11 is/are allowed.

7) ☒ Claim(s) 8, 10 and 12-29 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

4) ☐ Other: _____.

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/25/2014 has been entered.

Response to Arguments

Applicant's arguments with respect to claims 8, 10, 12-29 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 103

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.
2. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been

obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 8, 10, 12, 15-18, 20, and 23 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Ko (US PGPub 2003/0186690 A1).

Regarding claims 8, 23 and 24, Kates teaches a base unit ("repeater unit", [0013]) configured to communicate with an environmental device ("wireless sensor", [0013]) and to communicate with a master remote unit having wireless connectivity ("base unit", [0013]), the base unit comprising: a first communication interface configured to receive environmental information from the environmental device ("the sensor information is relayed through the repeater units", also see "emergency condition (e.g., a fire or excess smoke, temperature, water", [0013], also see Fig. 1, wherein the environmental information collected by the sensor is relayed through the repeater unit before arriving at the remote master unit/"base unit" and the repeater unit is the intermediary node between the environmental device and the remote master unit) and to send a control instruction to the environmental device ("the base unit sends instructions to activate one or more additional sensors near the first sensor", [0013]); a wireless communication interface configured to send a first message to the master remote unit via a communications network ([0013], lines 1-3 wherein the first message/"measured sensor data" is sent to the master remote unit/"base unit") and to receive a second message from the master remote unit via the communications network ("base unit sends instructions to activate one or more additional sensors near the first

sensor", [0013]), wherein the first message is a first digital communications message including a representation of the environmental information ("emergency condition (e.g., a fire or excess smoke, temperature, water", [0013]), and wherein the second message is a second digital communications message including a command to the environmental device ([0074], and [0083]); and a microcontroller ("controller 303", [0054]) configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device ("base unit sends instructions to activate one or more additional sensors near the first sensor", [0013], and to further clarify, see [0065], wherein the base unit/"repeater unit 111" repeats the second message that is the control instruction/"operation control" information between the remote master device/"base unit" and the environmental device/"sensor unit". Note that the first message indicates measured sensor data).

However, Kates lacks the teaching wherein the command is an enter mode command for the base unit, and wherein the control instruction to the environmental device is associated with the enter mode command for the base unit.

In the same field of endeavor, Ko teaches wherein the command is an enter mode command ("adjust the thermostat of an air-conditioner", [0038]) for the base unit ("remote controller", [0043] wherein the remote controller is within the remote control system 100/200), and wherein the control instruction to the environmental device is associated with the enter mode command for the base unit ("air conditioner control", [0038]).

It would have been obvious for one having ordinary skill in the art at the time of

the invention to combine the teachings of Ko with the teaching of Kates in order to remotely configure and control the setting of the environmental device via the controller.

Regarding claim 10, Kates further discloses wherein the communications network is a cellular communications network (see [0029], computer system contacting a building manager, and other responsible personnel using one or more of several communication systems, such as for example cellular telephone 123).

Regarding claim 12, Kates further teaches the method wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices ([0033], lines 1-3).

Regarding claim 15, Kate in view of Ko teaches the method wherein the control instruction is configured to adjust an air handling system (Ko, "air-conditioner", [0038]).

Regarding claim 16, Kates further teaches the method wherein the communication network includes a data bearer service ("Internet and/or local area network 124", [0029]).

Regarding claim 17, Kates further teaches the base unit of claim 8, wherein the remote unit is a mobile remote unit ("cellular telephone 123", [0029]).

Regarding claim 18, Kate in view of Ko teaches the base unit wherein the control instruction ("the responsible party 120 sends instructions", [0068]) includes an environmental control instruction; and wherein the command includes an environmental

command ("instructing the monitoring computer 113 to send water shut off instructions to the sensor unit", [0068]).

Regarding claim 20, Kates further teaches the base unit wherein the communications network includes a data bearer service ("Internet and/or local area network 124", [0029]); wherein the remote unit is a mobile remote unit ("cellular telephone 123", [0029]); wherein the control instruction includes an environmental control instruction ([0013], lines 1-3), and wherein the command includes an environmental command ("instructing the monitoring computer 113 to send water shut off instructions to the sensor unit", [0068]).

8. Claim 13 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Ko (US PGPub 2003/0186690 A1) and further in view of Shamoon (US PGPub 2003/0034898 A1).

Regarding claim 13, Kates in view of Ko teaches the base unit as discussed in claim 12. However, the combination lacks the teaching wherein the command is associated with an icon on the remote unit.

In the same field of endeavor, Shamoon teaches the base unit wherein the command is associated with an icon on the remote unit ([0019], [0043]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to combine the teachings of Shamoon with the teaching of Kates as modified by the teaching of KO in order to provide visual configuration for remote devices.

9. Claim 14 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Ko (US PGPub 2003/0186690 A1) and further in view of Meada (US PGPub 2001/0048376 A1).

Regarding claim 14, Kate in view of Ko teaches the base unit as discussed in claim 8. However, the combination lacks the teaching wherein the control instruction is configured to adjust a temperature of a water heater.

In the same field of endeavor, Meada teaches the base unit wherein the control instruction is configured to adjust a temperature of a water heater ([0027]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to combine the teachings of Meada with Kate as modified by Ko in order to provide consumer value added service.

10. Claims 19, 21, and 22 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Ko (US PGPub 2003/0186690 A1) and further in view of Bailey (US PGPub 2005/0107924 A1).

Regarding claims 19 and 21, Kate in view of Ko teaches the base unit as discussed in claim 8. However, the combination lacks the teaching wherein the second message includes an energy conservation command associated with multiple environmental devices.

In the same field of endeavor, Bailey teaches the base unit wherein the second message includes an energy conservation command associated with multiple

environmental devices ([0045]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to combine the teachings of Bailey with Kate as modified by Ko in order to enable the capability to control a group of wireless irrigation control devices with a single command rather than sending commands to each controller in the group individually as suggested by Bailey ([0045], lines 1-2).

Regarding claim 22, Kate in view of Ko teaches the base unit as discussed in claim 20. However, the combination lacks the explicit teaching wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

In the same field of endeavor, Bailey teaches the base unit wherein the microcontroller is configured to process the environmental information into the representation ("decode", [0010], [0021]) and to process the command into the control instruction ("Signals of the pager type are processed by a pager receiver and decoder 40 and passed to the microcomputer 30 over line 42. As indicated by lines 44 and 46, the microcomputer 30 sends control signals to the local receiver 36 and the pager receiver and decoder 40, respectively, to control operation of these components", [0027]).

It would have been obvious for one having ordinary skill in the art at the time of the invention to combine the teachings of Bailey with Kate as modified by Ko in order to process the encoded control information.

Allowable Subject Matter

11. Claim 11 is allowed.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to XIANG ZHANG whose telephone number is (571)270-7693. The examiner can normally be reached on Monday-Thursday, 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah, can be reached on (571)272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 13/271,203
Art Unit: 2641

Page 10

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/XIANG ZHANG/
Patent Examiner, Art Unit 2641

/CHARLES APPIAH/
Supervisory Patent Examiner, Art Unit 2641

Notice of References Cited	Application/Control No. 13/271,203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2003/0186690 A1	10-2003	Ko, Siu Ling	455/420
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5629	("455".clas. "340".clas. "709".clas.) and automation and @ad< "20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/12/09 16:48
L2	5	L1 and ((controller "base unit" bsc repeater relay) near6 (command instruct\$4) same (conservation sleep dormant drx dtx))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/12/09 16:48
S229	5629	("455".clas. "340".clas. "709".clas.) and automation and @ad< "20041118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/12/09 13:38
S231	25	S229 and ((controller "base unit" bsc repeater relay) near6 (command instruct\$4) with mode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/12/09 13:40
S232	14	(humidity temperature "degrees" "water levels" "water level" moist moisture humidity lumen\$ thermostat heater "air conditioner" AC sprinkler damper dehumidifier de\$humidifier valves vents ventilation) and S231	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/12/09 13:41
S233	1768093	((mobile or telecommunication or wireless or cellular or cell) adj (station or apparatus or terminal or device or client or node phone)) or wtru or plmn or ue or (user adj equipment) pda ((mobile or telecommunication or wireless or cellular or cell) adj (stations or apparatuses or terminals or devices or clients nodes phones)) or wtrus or plmns or ues or (user adj equipments) pdas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/12/09 13:43
S234	1	S232 and S233	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/12/09 13:43
S235	8	S232 and (wireless mobile)	US-PGPUB; USPAT;	OR	OFF	2014/12/09 13:44

EAST Search History

			USOCR; EPO; JPO; DERWENT			

12/ 9/ 2014 5:40:57 PM

C:\Users\xzhang\Documents\EAST\Workspaces\13271203.wsp

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant										☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE													
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014									
	8		✓	✓	✓	✓									
	9		✓	○	-	-									
	10		✓	✓	✓	✓									
	11				=	=									
	12				✓	✓									
	13				✓	✓									
	14				✓	✓									
	15				✓	✓									
	16				✓	✓									
	17				✓	✓									
	18				✓	✓									
	19				✓	✓									
	20				✓	✓									
	21				✓	✓									
	22				✓	✓									
	23				✓	✓									
	24				✓	✓									

Search Notes 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

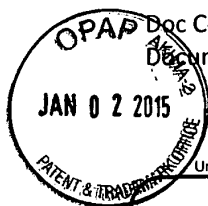
CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	466,404.2,414.2,456.1-456.6	01/31/2013	X.Z
455	418-420	12/30/2013	X.Z

SEARCH NOTES		
Search Notes	Date	Examiner
See East Search Notes	02/01/2013	X.Z
Consulted Primary Examiner Olumide	01/29/2013	X.Z
See East Search Notes	11/08/2013	X.Z
See East Search Notes	12/30/2013	X.Z
See East Search Notes	03/13/2014	X.Z
Consulted with Primary Examiner Olumide Ajibade-Akonai	11/22/2014	X.Z
See East Search Notes	12/09/2014	X.Z

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner



Doc Code: PET.POA.WDRW

Document Description: Petition to withdraw attorney or agent (SB83)

PTO/SB/83 (04-13)

Approved for use through 11/30/2014. OMB 0651-0035

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**REQUEST FOR WITHDRAWAL
AS ATTORNEY OR AGENT AND
CHANGE OF
CORRESPONDENCE ADDRESS**

Application Number	13/271,203
Filing Date	10/11/2011
First Named Inventor	Charles G. Shamoon
Art Unit	2641
Examiner Name	ZHANG, XIANG
Practitioner Docket Number	2032-20

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Please withdraw me as attorney or agent for the above-identified patent application, and

- ☐ all the practitioners of record;
- ☐ the practitioners (with registration numbers) of record listed on the attached paper(s); or
- ☐ the practitioners of record associated with Customer Number: _____

NOTE: The immediately preceding box should only be marked when the practitioners were appointed using the listed Customer Number.

The reason(s) for this request are those described in 37 CFR:

☐ 11.116(a)(1)	☐ 11.116(a)(2)	☒ 11.116(a)(3)
☐ 11.116(b)(1)	☐ 11.116(b)(2)	☐ 11.116(b)(3)
☐ 11.116(b)(4)	☐ 11.116(b)(5)	☐ 11.116(b)(6)
☐ 11.116(b)(7) Please explain below:		

I was discharged in writing on 12/29/14 ("This email will serve as my official notice that your professional services are no longer needed.").

Certifications

Check each box below that is factually correct. WARNING: If a box is left unchecked, the request will likely not be approved.

- ☐ I/We have given reasonable notice to the client, prior to the expiration of the response period, that the practitioner(s) intend to withdraw from employment.
- ☒ I/We have delivered to the client or a duly authorized representative of the client all papers and property (including funds) to which the client is entitled.
- ☒ I/We have notified the client of any responses that may be due and the time frame within which the client must respond.

Please provide an explanation, if necessary:

Box 1 is not checked, because I was discharged in writing on 12/29/14, so there is no need for me to give notice to the client. Assignee statement under 3.73(b) is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS

Complete the following section only when the correspondence address will change. Changes of address will only be accepted to the first named inventor or an assignee that has properly made itself of record pursuant to 37 CFR 3.71.

Change the correspondence address and direct all future correspondence to:

A. ☒ The address of the first named inventor or assignee associated with Customer Number: _____

OR

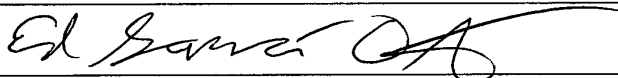
B. ☒ First Named Inventor or Assignee Name CHARLES G. SHAMOON, PRESIDENT
UBIQUITOUS CONNECTIVITY, LP

Address 2436 Tisbury Way

City Little Elm	State TX	Zip 75068	Country United States

Telephone 214-491-7247	Email cshamoon@grandecom.net

I am authorized to sign on behalf of myself and all withdrawing practitioners.

Signature 

Name **Ed Garcia-Otero** Registration No. **56,609**

Address 100 Kennon Ct

City Colonial Heights	State VA	Zip 23834	Country United States

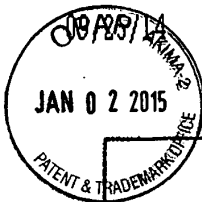
Date **December 31, 2014** Telephone No. **804-731-9743**

NOTE: Withdrawal is effective when approved rather than when received.

[Page 2 of 2]

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



10:49AM

HP LASERJET FAX

8045240009

p.17

RECEIVED
CENTRAL FAX CENTER

SEP 25 2014

PTO/SB/08 (07-09)

Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: UBIQUITOUS CONNECTIVITY, LPApplication No./Patent No.: 13/271,203Filed/Issue Date: FILED Oct. 11, 2011Titled: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

UBIQUITOUS CONNECTIVITY, LP

a PARTNERSHIP

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above, by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: SHAMOON, C. AND SHAMOON, D. To: UBIQUITOUS CONNECTIVITY, LP

The document was recorded in the United States Patent and Trademark Office at
Reel 028125, Frame 0418, or for which a copy thereof is attached.

2. From: TURKOW, A. AND TURKOW, L. To: UBIQUITOUS CONNECTIVITY, LP

The document was recorded in the United States Patent and Trademark Office at
Reel 028125, Frame 0242, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Charles G. Shamon
Signature

9/25/2014

Date

Charles G. Shamon

President

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-0199 and select option 2

PAGE 17/17 * RCVD AT 9/25/2014 11:57:40 AM [Eastern Daylight Time] * SVR:WPTOFAX-00243 * DNIS:2738300 * CSID:8045240009 * DURATION (mm:ss):06:35

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

22858

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

22858

OR

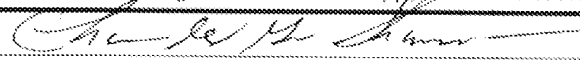
☐	Firm or Individual Name			
	Address			
	City	State	Zip	
	Country			
	Telephone	Email		

Assignee Name and Address: Ubiquitous Connectivity LP
2436 Tisbury Way
Little Elm, TX 75068

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	1/23/2015
Name	Charles G. Shamoon	Telephone	214 491 7247
Title	President		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9198 and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	21355538
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Correspondence Address:	GARCIA PATENT LAW PLLC - 100 KENNON CT - COLONIAL HEIGHTS VA 23824 US 8047319743 EDGARCIALAW@GMAIL.COM
Filer:	Vincent J. Allen./Carolyn Bridwell
Filer Authorized By:	Vincent J. Allen.
Attorney Docket Number:	2032-20
Receipt Date:	30-JAN-2015
Filing Date:	11-OCT-2011
Time Stamp:	12:55:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73.	3-73b_statement.pdf	427315 908b85d17105af93c3fc3d98887073bbd78ab704	no	2
Warnings:					
Information:					
2	Power of Attorney	Signed-POAA.pdf	620644 c341564b3dad1d66d615c0f09f1b68a65fed2a51	no	1
Warnings:					
Information:					
Total Files Size (in bytes):			1047959		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Ubiquitous Connectivity, LPApplication No./Patent No.: 13/271,203Filed/Issue Date: October 11, 2011

Titled:

Ubiquitous Connectivity And Control System For Remote Locations

Ubiquitous Connectivity, LP

, a Partnership

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Shamoon, Charles and Shamoon, Deborah To: Ubiquitous Connectivity, LP

The document was recorded in the United States Patent and Trademark Office at

Reel 028125, Frame 0418, or for which a copy thereof is attached.

2. From: Turkow, Allen and Turkow, Lucy To: Ubiquitous Connectivity, LP

The document was recorded in the United States Patent and Trademark Office at

Reel 028125, Frame 0242, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Vincent J. Allen/

January 30, 2015

Signature

Date

Vincent J. Allen

Attorney for Applicant

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	2032-20

22858
CARSTENS & CAHOON, LLP
P.O. Box 802334
DALLAS, TX 75380-2334

CONFIRMATION NO. 1022
POA ACCEPTANCE LETTER



Date Mailed: 02/06/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/30/2015.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/agizaw/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	2032-20

GARCIA PATENT LAW PLLC
100 KENNON CT
COLONIAL HEIGHTS, VA 23824

CONFIRMATION NO. 1022
POWER OF ATTORNEY NOTICE



OC000000073275161

Date Mailed: 02/06/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/30/2015.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/agizaw/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
22858 7590 03/11/2015 CARSTENS & CAHOON, LLP P.O. Box 802334 DALLAS, TX 75380-2334			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			MAIL DATE 03/11/2015	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Application of
Charles G. Shamoon, et. al.
Application No. 13/271,203
Filed: October 11, 2011
Attorney Docket No. GSHAM.00101

:
:
:
:
:

DECISION ON PETITION
TO WITHDRAW FROM
RECORD

This is a decision on the Request to Withdraw as attorney or agent of record under 37 CFR §1.36(b) filed September 25, 2014 and January 2, 2015.

The request is MOOT.

A review of the file record indicates that power of attorney was revoked on January 30, 2015. Accordingly, the request to withdraw is unnecessary.

All future communications from the Office will be directed to the above address of record unless otherwise instructed.

There is an outstanding Office action mailed December 22, 2014, that requires a reply from the applicant.

Telephone inquiries concerning this decision should be directed to the undersigned at (571) 272-3226.

/Andrea Smith
Andrea Smith
Lead Paralegal Specialist
Office of Petitions

Office of Petitions: Routing Sheet



Application No. 13/271,203

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

☐ **GRANTED**

☒ **DISMISSED (9/25/14 & 1/2/15)**

☐ **DENIED**

Office of Petitions: Decision Count Sheet

Mailing Month

3

Application No.

13271203



For US serial numbers: enter number only, no slashes or commas. Ex: 10123456

For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official:

SMITH, ANDREA

Count (1) - Palm Credit

13/271,203

FINANCE WORK NEEDED

Decision: DISMISSED

☐ Select Check Box for YES

Decision Type: 307 - WITHDRAWAL OF ATTORNEY (37 CFR 1.36)

Notes:

PLS. ENTER DECISION CODE FOR BOTH REQUESTS & ENTER MY NAME AS THE DECIDING OFFICIAL FOR THE REQUEST FILED 1/2/2015. THANKS!**Count (2)**

Decision: n/a

FINANCE WORK NEEDED

☐ Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED

☐ Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach
2nd count sheet & mark this box ☐

Printed on: 3/10/2015

Office of Petitions Internal Document - Ver. 5.0

**IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE**

Applicant: SHAMOON, Charles G.
Serial Number: 13/271,203
Filing Date: October 11, 2011
Title: Ubiquitous Connectivity and Control System for Remote Locations
Confirmation No.: 1022
Examiner: ZHANG, Xiang
Art Unit: 2641
Attorney File: GSHAM.00101

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE TO OFFICE ACTION

This paper is being filed responsive to an Office Action mailed December 22, 2014. Applicants note that the three-month deadline for filing a response expires on March 22, 2014; thus, this response is timely and no extension of time fees are believed to be due with the present filing.

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.

Conclusion begins on page 9 of this paper.

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-7. (Canceled)

8. (Currently Amended) A base unit configured to communicate with an environmental device

and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the cellular remote unit via a communications network and to receive a second message from the cellular remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is an enter mode command for the base unit initiated by a user from the cellular remote unit, and

wherein the control instruction to the environmental device is associated with the enter mode command for the base unit.

9. (Canceled)

10. (Currently Amended) The base unit according to claim 11~~8~~, wherein the communications network is a cellular communications network.

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Currently Amended) The base unit of claim 118, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Currently Amended) The base unit of claim 112, wherein the command is associated with an icon on the remote unit.

14. (Currently Amended) The base unit of claim 118, wherein the control instruction is

configured to adjust a temperature of a water heater.

15. (Currently Amended) The base unit of claim 118, wherein the control instruction is configured to adjust an air handling system.

16. (Currently Amended) The base unit of claim 118, wherein the communications network includes a data bearer service.

17. (Currently Amended) The base unit of claim 118, wherein the remote unit is a mobile remote unit.

18. (Currently Amended) The base unit of claim 118, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

19. (Currently Amended) The base unit of claim 118, wherein the ~~second command is message~~
~~includes~~ an energy conservation command associated with multiple environmental devices.

20. (Currently Amended) The base unit of claim 118,
wherein the communications network includes a data bearer service; wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction; and
wherein the command includes an environmental command.

21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.

22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

23-25. (Canceled)

26. (Currently Amended) The base unit of claim 118, wherein the environmental device comprises a thermostat.

27. (Currently Amended) The base unit of claim 118, wherein the remote unit is a cellular telephone, and wherein the environmental device unit comprises a thermostat.

28. (Currently Amended) The base unit of claim 118, wherein the environmental device comprises a light.

29. (Currently Amended) The base unit of claim 118, wherein the environmental device comprises an alarm system.

30. (New) The base unit of claim 11, wherein the base unit and the environmental device are contained in the same enclosure.

31. (New) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive a current status from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first status message relating to the current status to the cellular remote unit, and to receive a command message from the cellular remote unit, and to send a second status message to the cellular remote unit indicating a change in the current status of the environmental device after execution of the command message,

wherein the first status message is a first digital communications message comprising a representation of the current status, wherein the command message is a second digital communications message comprising a command to be acted upon by the environmental device, and wherein the second status message is a third digital communications message comprising a

an indication that the command has been executed by the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface.

32. (New) The base unit of claim 31, wherein the first status message is sent to the cellular remote unit using a data bearer service.

33. (New) The base unit of claim 31, wherein cellular remote unit is a mobile remote unit.

34. (New) The base unit of claim 33, wherein the command message is associated with an icon on the cellular remote unit.

35. (New) The base unit of claim 34, wherein the environmental device comprises a thermostat.

36. (New) The base unit of claim 35, wherein the base unit and the environmental device are contained in the same enclosure.

REMARKS

Claims 8, 10-29 were previously pending in the present application. In the present Amendment, Applicants amend claims 8, 10, 12-20, and 26-29. Claims 1-7 and 9 were previously cancelled, without prejudice or disclaimer. In the present Amendment, Applicants have canceled claims 23-25. Claims 30-36 have been added, including independent claim 31 and no new matter has been added by the present amendments. Accordingly, claims 8, 10-22 and 26-36, as herein amended, remain pending in the present application, and Applicants respectfully request reconsideration of the present application in view of the foregoing amendments and the following remarks.

I. INTERVIEW SUMMARY

On March 17, 2015 an interview was conducted with Examiner Zhang and Examiner Appiah wherein the present rejection and proposed amendments were discussed. Present for Applicants were Vincent Allen and inventor Charles Shamoon. Applicants gave an overview of the invention and its nature and discussed the differences between the Kates and Ko references and the claimed invention. The examiners agreed that the claims as proposed to be amended would overcome the art cited, but indicated an additional search would need to be conducted.

II. REJECTIONS UNDER 35 U.S.C. § 103

The Office Action rejects claims 8, 10, 12, 15-18, 20 and 23 under 35 U.S.C. §103(a) as being unpatentable over Kates (US Publication No. 2005/0275530 A1) in view of Ko (US Publication No. 2003/0186690 A1). Claim 11 has been allowed.

Kates Reference

The primary reference cited, Kates, discloses a wireless sensor system where sensors are used to detect anomalous conditions such as smoke or water and then notify a responsible person. Although Kates discloses giving notification via cell phone, there is no discussion or suggestion of the use of the cell phone to send a command to the base station. Thus, Kates does not teach the two-way communications with a cellular remote unit as claimed in claims 8, 11, and 31. Moreover, the problem addressed by Kates is that adding wired sensors is cost prohibitive, and thus a system of using wireless sensors with repeaters as necessary to increase the range of the

system is disclosed, which is a different problem than that solved by the present invention. Therefore, Kates does not teach all of the elements of the claimed invention, and thus all claims are in condition for allowance.

Ko Reference

Ko discloses a crude remote control system for wireless control of a system via touch tone operation of a telephone to which a transmitter module is attached. The telephone is used to provide DTMF tones to the transmitter. Ko does not teach a cellular remote unit that can control an environmental device from a geographically remote location nor does it teach the ability to perform an enter mode command as taught by claim 8 of the present application. Rather, in the paragraphs cited by examiner, Ko only teaches that the circuitry can be configured to control a number of different devices. There is no mention of an enter mode command that can be initiated by a user at the cellular remote unit as claimed in claim 8. Rather, Ko teaches away from the claimed invention by indicating that the different digits on the keypad can be used to control multiple devices. There is no discussion of entering a particular mode of operation for an environmental device or devices. Also, it is important to note that the cellular communication system is not used for control in Ko; instead, the headset is used only to generate the DTMF tones that are transmitted and then decoded.

CONCLUSION

Applicants assert that the present claims are patentable over the references cited and are therefore in condition for allowance; thus, Applicants request reconsideration and allowance of the pending claims. If there are any outstanding issues in the present application, the examiner is cordially invited to contact the undersigned Attorney of Record to discuss these issues.

Applicants note that the three-month deadline for filing a response expires on March 22, 2015; thus, this response is timely and no extension of time fees are believed to be due with the present filing. If it is determined that any fees are due, the Director is hereby authorized to charge any additional fees to Deposit Account 50-0392, referencing the Attorney Docket Number specified herein.

Respectfully submitted,

By: /Vincent J. Allen/
Vincent J. Allen
Registration No. 45,514
Attorney for Applicant

Date: March 19, 2015

CARSTENS & CAHOON, LLP
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Dallas, TX 75380
(972) 367-2001 Telephone
(972) 367-2002 Facsimile

Electronic Acknowledgement Receipt	
EFS ID:	21818515
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	22858
Filer:	Vincent J. Allen./Jana Sanders
Filer Authorized By:	Vincent J. Allen.
Attorney Docket Number:	GSHAM.00101
Receipt Date:	19-MAR-2015
Filing Date:	11-OCT-2011
Time Stamp:	16:10:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	GSHAM00101_ROA.pdf	118082 69cc6f4a071925004fdb472e7256e1d4bc e40c9	no	9
Warnings:					
Information:					

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (j), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	03/19/2015		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(j))		* 25		Minus	** 20	= 5	X \$40 =	200
	Independent (37 CFR 1.16(h))		* 3		Minus	***3	= 0	X \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		200	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(j))		*		Minus	**	=	X \$ =	
	Independent (37 CFR 1.16(h))		*		Minus	***	=	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
22858 7590 03/20/2015 CARSTENS & CAHOON, LLP P.O. Box 802334 DALLAS, TX 75380-2334			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			MAIL DATE 03/20/2015	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

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Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13271203
	Filing Date	2011-10-11
	First Named Inventor	SHAMOON, Charles
	Art Unit	2641
	Examiner Name	ZHANG, Xiang
	Attorney Docket Number	GSHAM.00101

U.S.PATENTS						Remove		
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	7343226	B2	2008-03-11	Ehlers et al.			
	2	7643823	B2	2010-01-05	Shamoon et al.			
	3	7949615	B2	2011-05-24	Ehlers et al.			
	4	8064935	B2	2011-11-22	Shamoon et al.			
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	20050033707	A1	2005-02-10	Ehlers et al.			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13271203	
	Filing Date		2011-10-11	
	First Named Inventor		SHAMOON, Charles	
	Art Unit		2641	
	Examiner Name		ZHANG, Xiang	
	Attorney Docket Number		GSHAM.00101	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button **Add**

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13271203
	Filing Date	2011-10-11
	First Named Inventor	SHAMOON, Charles
	Art Unit	2641
	Examiner Name	ZHANG, Xiang
	Attorney Docket Number	GSHAM.00101

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Vincent J. Allen/	Date (YYYY-MM-DD)	2015-04-23
Name/Print	Vincent J. Allen	Registration Number	45514

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: SHAMOON, Charles et al.
Serial Number: 13/271,203
Filing Date: October 11, 2011
Title: Ubiquitous Connectivity and Control System for Remote Locations
Confirmation No.: 1022
Examiner: ZHANG, Xiang
Art Unit: 2641
Attorney File: GSHAM.00101

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 CFR §1.56, and in accordance with the provisions of 37 C.F.R. §§1.97 and 1.98, Applicant hereby makes disclosure of the patents, publications, and/or other information listed on the accompanying form PTO/SB/08A, which references are considered to be potentially material to the patentability of the invention disclosed in the above-referenced application. Copies of the non-US listed references are submitted herewith.

In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the undersigned to be material under the new standards of materiality defined in 37 C.F.R. §1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. §1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(c)(2) before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application. Accordingly, the fee set forth in 37 CFR 1.17(p) is enclosed.

Written notification that these references have been considered in their entirety by return copy of the enclosed form, completed by the Examiner, is respectfully requested.

No additional fees are believed to be due at this time. However, the Commissioner is hereby authorized to charge any additional payment that may be due or credit any overpayment to Deposit Account 50-0392.

Respectfully submitted,

By: /Vincent J. Allen/
Vincent J. Allen
Registration No. 45,514
Attorney for Applicant

Date: April 23, 2015

CARSTENS & CAHOON, LLP
P.O. Box 802334
Dallas, TX 75380
(972) 367-2001 Telephone
(972) 367-2002 Facsimile

Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Vincent J. Allen./Jana Sanders		
Attorney Docket Number:		GSHAM.00101		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
Total in USD (\$)				90

Electronic Acknowledgement Receipt	
EFS ID:	22145533
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	22858
Filer:	Vincent J. Allen./Jana Sanders
Filer Authorized By:	Vincent J. Allen.
Attorney Docket Number:	GSHAM.00101
Receipt Date:	23-APR-2015
Filing Date:	11-OCT-2011
Time Stamp:	11:44:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 90
RAM confirmation Number	10956
Deposit Account	500392
Authorized User	ALLEN, VINCENT J.
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	GSHAM00101_IDS.pdf	612304 9c59540f56da9de4f8925fd4675373fb3987332b	no	4
Warnings:					
Information:					
2	Transmittal Letter	GSHAM00101_IDS_Statement.pdf	66245 27eea4b04cbdee3caeea66c8ff592d173203ee31	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30540 9127ea776ef7aa935e5b8d8a9ee863280e06bcd5	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			709089		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
22858 7590 07/21/2015 CARSTENS & CAHOON, LLP P.O. Box 802334 DALLAS, TX 75380-2334			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			MAIL DATE 07/21/2015	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on March 19, 2015.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 8, 10-22 and 26-36 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☒ Claim(s) 10-30 is/are allowed.

7) ☒ Claim(s) 8 and 31-36 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date _____.

3) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date. 20150706.

4) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

Applicant's arguments have been fully considered and are persuasive.

Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the amendments and newly added claims.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 8 is rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Bradfield (US PGPub 2002/0198990 A1).

Regarding claim 8, Bradfield teaches a base unit ("communication interface 20...DCMP interface 18...gateway controller 14", [0021] wherein these three elements are considered as base unit"), configured to communicate with an environmental device ("transducer 12", [0021]) and to communicate with a cellular remote unit ("such information may be delivered to...by ...cellular telephone", [0025]) having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising: a first communication interface ("communication interface 20", [0021]) configured to receive environmental information ("oil pressure", [0021]) from the

environmental device (“compressor”, [0021]) and to send a control instruction to the environmental device (“sent to the gateway controller 14 in order to effect operation of the appropriate transducer 12”, [0021]); a wireless communication interface configured to send a first message to the cellular remote unit via a communications network (“sent to the gateway controller 14 in order to effect operation of the appropriate transducer 12”, [0021]) and to receive a second message from the cellular remote unit via the communications network (“The user may then respond by issuing a message to the server 26 to effect operation of one of the transducers of the physical system”, [0025]), wherein the first message is a first digital communications message including a representation of the environmental information (“sent to the gateway controller 14 in order to effect operation of the appropriate transducer 12”, [0021], also see “the system effects similar functionality with one or more sensors that monitor one or more characteristics of one or more remote devices, passing sensor data from the sensors to each device management environment via one or more communicators, and passing instructions, as necessary, back to the sensors via the one or more communicators to achieve remote management and control of the remote devices”, [0023]), and wherein the second message is a second digital communications message including a command regarding the environmental device (“The user may then respond by issuing a message to the server 26 to effect operation of one of the transducers of the physical system”, [0025]); and a microcontroller configured to process the second message, to provide the control instruction based on the command (“user inputs are then translated by the server into appropriate command messages to be issued to the gateway

controller 14”, [0028]), and to send the control instruction to the environmental device via the first communication interface ([0028]), and wherein the command is an enter mode command for the base unit initiated by a user from the cellular remote unit, and wherein the control instruction to the environmental device is associated with the enter mode command for the base unit (“turn off the compressor AND send an urgent alarm”, [0021]).

3. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claim 8 is rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by Kates (US PGPub 2005/0275530 A1).

Regarding claim 8, Kates teaches a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location (“The computer system 113 contacts a building

manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113"), the base unit comprising: a first communication interface configured to receive environmental information from the environmental device ("the computer 113 automatically performs routine maintenance by sending commands to each sensor unit 102-106 to run a self-diagnostic and report the results", [0047] wherein the base unit/"computer 113" receives environmental reporting information from the environmental device/"sensor unit", also see [0032]) and to send a control instruction to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047]); a wireless communication interface configured to send a first message to the cellular remote unit via a communications network and to receive a second message from the cellular remote unit via the communications network ([0032], monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel, [0029], monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*), [0068], [0029] responsible personnel 120 (*~using remote device*) sends instructions to monitoring computer 113); wherein the first message is a first digital communications message including a representation of the environmental information ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that

the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]), and wherein the second message is a second digital communications message including a command to the environmental device ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); and a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is associated with the enter mode command for the base unit ("the sensor unit 102 receives instructions from the base unit 112 to shut off the water supply to the heater 801", [0068]), and wherein the command is an enter mode command for the base unit initiated by a user from the cellular remote unit ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068], also see [0029]).

Claim Rejections - 35 USC § 103

5. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 8 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Stenman (US Pat 6,223,029).

Regarding Claim 8, Stenman teaches configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location (col. 7, lines 2-6, Fig. 4, the local communications module 2027 forms a local communications link 2045 between the mobile station 2000 (~cellular remote unit) and the peripheral devices 2040 (~environmental device) through local interface modules 2035 to control the peripheral devices using command control module 2025):

a first communication interface (Fig. 4, connection between local interface module 2035 and peripheral device 2040) configured to receive environmental information from the environmental device and to send a control instruction to the environmental device (col. 7, lines 14-23, Fig. 4, local interface modules 2035 are associated with (~send signals to and from) a variety of peripheral devices 2014, including but not limited to a hands-free headset, television, radio, stereo, VCR, home base station, answering machine, light, thermostat, door, alarm, and others (~each of

these devices serving a different function, some of which pertain to environmental information such as light, thermostat, door, and any information sent to or from these devices would pertain to the environmental aspect they control), and using the local communications link 2045 each of these devices may be controlled from the mobile station 2000);

a wireless communication interface (Fig. 4, connection between local interface module 2035 and mobile station 2000 over link 2045) configured to send a first message to the cellular remote unit via a communications network and to receive a second message from the cellular remote unit via the communications network (col. 7, lines 7-14, Fig. 4, the local interface modules 2035 are coupled to the command control module 2025 of the mobile station 2000 via a local communication link 2045 involving electromagnetic waves, such as radio, which may be analog or digital, with any suitable modulation known in the art),

wherein the first message is a first digital communications message including a representation of the environmental information (col. 7, lines 24-31, Fig. 4, the remote control and mobile telephony functionalities may work in concert, a user equipped with a peripheral device 2040 comprising a personal alarm associated with a mobile station 2000 via a local communications link 2045 (~communication between peripheral devices 2040 and mobile station 2000 shown in Fig. 4 to pass through local interface module 2035) may activate an alarm that transmits a signal to the mobile station via the communications link (~alarm or alert signaling some form of event associated with peripheral device is sent to mobile station), and

wherein the second message is a second digital communication message including a command regarding the environmental device (col. 7, lines 48-52, Fig. 4, a user enters control commands through a user interface of the mobile station 2000, the control commands are transmitted to an associated local peripheral device 2040 via communications link 2045 (~passing through local interface module 2035)); and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface (col. 7, lines 2-6, Fig. 4, the command control module 2025 generates instructions for controlling the peripheral devices 2040 in response to user input, lines 48-52, the control commands are processed by the command control module 2025 and transmitted to an associated local peripheral device 2040), and

wherein the command is an enter mode command initiated by a user from the cellular remote unit, and wherein the control instruction to the environmental device is associated with the enter mode command (col. 7, lines 38-47, Fig. 4, a mobile station 2000 and a wireless vibrator (~peripheral device) may work in concert to notify a user of a call to the mobile station 2000, when a mobile station is initially turned on, an identification code is transmitted to the vibrator, after this initialization, the vibrator will actuate upon detection of a ring signal from a mobile station 2000 transmitting the correct ID code (~the mobile station sends an initialization command in the form of an identification intended to set the vibrator into an actuation mode, which is forwarded to the peripheral device through the local interface module, which sends the corresponding

instruction to the vibrator to enter actuation mode) after this initialization , the vibrator will actuate upon detection of a ring signal from mobile station 2000 transmitting the correct ID code (~upon initialization the peripheral device enters indicated actuation mode)).

While Stenman discloses a command control module that uses a local interface to control peripheral devices based on received user input (col. 7, lines 2-6), Stenman does not explicitly disclose the command control module and local interface module being integrated into a single base unit.

At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to move the functionality of the command module from the mobile station to the local interface module (*See* MPEP 2144.04). Applicant has not disclosed that having this functionality in this particular unit provides an advantage, is used for a particular purpose, or solves a stated problem.

Furthermore, one of ordinary skill in the art would have expected Applicant's invention to perform equally well with the command module functionality incorporated into the mobile station, as disclosed in Stenman, because the only purpose the command module serves is to communicate commands between the mobile station and the local interface module based on the user's input. Therefore, whether the input is received directly through incorporation into the mobile station, or wirelessly through a communication link with the mobile station, the functionality of the command module is unchanged, and the functionalities of the mobile station and local interface modules are neither helped nor hindered.

Thus it would have been an obvious to move the functionality of the command module from the mobile station to the local interface module as specified in the claim.

6. Claims 31, 32 33, and 35 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Thibault (US Pat 7502656 B2).

Regarding claim 31, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113"), the base unit comprising: a first communication interface configured to receive a current status from the environmental device ("the computer 113 automatically performs routine maintenance by sending commands to each sensor unit 102-106 to run a self-diagnostic and report the results", [0047] wherein the base unit/"computer 113" receives environmental reporting status information from the environmental device/"sensor unit") and to send a control instruction to the

environmental device (“the computer 113 sends instructions to each sensor unit”, [0047]); a wireless communication interface configured to send a first status message relating to the current status to the cellular remote unit (“the computer 113 contacts the appropriate personnel 120”, [0032]) and to receive a command message from the cellular remote unit (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]), and to send a second status message to the cellular remote unit indicating a change in the current status of the environmental device after execution of the command message (“a command to change reporting interval is forwarded to one of the sensor units 102 in the list (table) of sensor units or when a new sensor unit is added to the list (table) of sensor units”, [0056] wherein the base unit sends a command change report status message), wherein the first status message is a first digital communications message comprising a representation of the current status (“The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120”, [0032]), wherein the command message is a second digital communications message comprising a command to be acted upon by the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]), and a microcontroller configured to process the second message (“conventional programmable microcontroller”, [0051]), to provide the control instruction based on the

command (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]), and to send the control instruction to the environmental device via the first communication interface (“the computer 113 sends instructions to each sensor unit”, [0047]).

However, Kates lacks the teaching comprising sending a second status message to the cellular remote unit indicating a change in the current status of the environmental device after execution of the command message; and wherein the second status message is a third digital communications message comprising an indication that the command has been executed by the environmental device.

In the same field of endeavor, Thibault teaches a base unit (“the server”, col.1, line 46) comprising sending a status message (“temperature reading”, col. 1, line 51) to the cellular remote unit (“notify the client”, col. 1, line 52, also see “network 18 comprises any conventional digital data processing network (e.g., LAN or WAN), cable television-based network, wireless network and/or any telecommunications-based network capable of supporting communications between server digital data processor 16 and client digital data processors 12, 14”, col. 4, lines 14-21) indicating a change in the current status of the environmental device after execution of the command message; and wherein the second status message is a third digital communications message comprising an indication that the command has been executed by the environmental device (“the server notify the client each time the temperature changes”, col. 1, lines 52-54).

It would have been obvious for one having ordinary skill in the art at the time of the invention to combine the teachings of Thibault with the teaching of Kates in order to ensure the status update to be received by the client device.

Regarding claim 32, Kates further teaches the base unit of claim 31, wherein the first status message is sent to the cellular remote unit using a data bearer service ("Internet and/or local area network 124", [0029]).

Regarding claim 33, Kates further teaches the base unit of claim 31, wherein cellular remote unit is a mobile remote unit ("cellular telephone 123", [0029]).

Regarding claim 35, Kates teaches the base unit as discussed in 34. However, Kates lacks the teaching comprising the base unit wherein the environmental device comprises a thermostat.

In the same field of endeavor, Thibault teaches the base unit wherein the environmental device comprises a thermostat (col. 1, lines 25-26).

It would have been obvious for one having ordinary skill in the art at the time of the invention to combine the teachings of Thibault with the teaching of Kates in order to provide user value added feature in the automation system.

7. Claim 36 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kates (US PGPub 2005/0275530 A1) in view of Thibault (US Pat 7502656 B2) and further in view of Ruutu (US PGPub 2005/0131551 A1).

Regarding claim 36, Kates in view of Thibault further teaches the base unit of claim 35. However, the combination lacks the teaching wherein the base unit and the environmental device are contained in the same enclosure.

In the same field of endeavor, Ruutu teaches the base unit ("heater control module 444", [0050], also see item 444 on Fig. 4) wherein the base unit and the environmental device are contained in the same enclosure ("The SMS/WAN communications module 448 forwards 512 this command via the module inter-communications bus to the heater control module 444, which then turns the heater on", [0050], also see Fig. 4).

It would have been obvious for one having ordinary skill in the art at the time of the invention to combine the teachings of Ruutu with the teaching of Kates, as modified by the teaching of Thibault in order to maintain compact form factor of the environmental device while achieving wireless control capability.

8. Claim 31 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over by Bradfield (US PGPub 2002/0198990 A1) in view of Thibault (US Pat 7502656 B2).

Regarding claim 31, Bradfield teaches a base unit ("communication interface 20...DCMP interface 18...gateway controller 14", [0021] wherein these three elements are considered as base unit") configured to communicate with an environmental device "transducer 12", [0021]) and to communicate with a cellular remote unit ("such information may be delivered to...by ...cellular telephone", [0025]) having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising: a first communication interface ("communication interface 20", [0021]) configured to receive a current status ("oil pressure", [0021]) from the environmental device ("compressor", [0021]) and to send a control instruction to the environmental

device (“sent to the gateway controller 14 in order to effect operation of the appropriate transducer 12”, [0021]); a wireless communication interface configured to send a first status message relating to the current status to the cellular remote unit (“sent to the gateway controller 14 in order to effect operation of the appropriate transducer 12”, [0021]), and to receive a command message from the cellular remote unit (“The user may then respond by issuing a message to the server 26 to effect operation of one of the transducers of the physical system”, [0025], also see “then the gateway controller proceeds to step 62 wherein the command is executed”, [0035]), and to send a second status message to the cellular remote unit indicating a change in the current status of the environmental device after execution of the command message (“proceeds to step 68 to update the server’s record of the physical status of the system”, [0036]), wherein the first status message is a first digital communications message comprising a representation of the current status (“measurements or status indications of the transducers”, [0015]).

However, Bradfield lacks the teaching wherein the second status message is a third digital communications message comprising an indication that the command has been executed by the environmental device.

In the same field of endeavor, Thibault teaches a base unit (“the server”, col.1, line 46) comprising sending a status message (“temperature reading”, col. 1, line 51) to the cellular remote unit (“notify the client”, col. 1, line 52, also see “network 18

comprises any conventional digital data processing network (e.g., LAN or WAN), cable television-based network, wireless network and/or any telecommunications-based network capable of supporting communications between server digital data processor 16 and client digital data processors 12, 14”, col. 4, lines 14-21) indicating a change in the current status of the environmental device after execution of the command message; and wherein the second status message is a third digital communications message comprising an indication that the command has been executed by the environmental device (“the server notify the client each time the temperature changes”, col. 1, lines 52-54).

It would have been obvious for one having ordinary skill in the art at the time of the invention to combine the teachings of Thibault with the teaching of Bradfield in order to ensure the appropriate reception of needed status updates.

Allowable Subject Matter

8. Claims 10-30 are allowed.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to XIANG ZHANG whose telephone number is (571)270-7693. The examiner can normally be reached on Monday-Thursday, 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah, can be reached on (571)272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

Art Unit: 2641

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/XIANG ZHANG/
Patent Examiner, Art Unit 2641

/CHARLES APPIAH/
Supervisory Patent Examiner, Art Unit 2641

<i>Examiner-Initiated Interview Summary</i>	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) CHARLES APPIAH. (3) ____.

(2) Vincent J. Allen (Reg # 45,514). (4) ____.

Date of Interview: 03/19/2015.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
 If Yes, brief description: ____.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☐ 103 ☐ Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: all.

Identification of prior art discussed: Kates (US PGPub 2005/0275530 A1); Bradfield (US PGPub 2002/0198990 A1) & Stenman (US Pat 6,223,029).

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant's representative was informed of newly found prior art that are being used to reject at least claims 8 and newly added claims 31-35. However, in order to expedite prosecution, examiner proposed canceling claims 8 and 31-35 and amending claim 11 in order to place the application in condition for allowance. Mr. Allen asked for the detailed Office Action to sent for further review.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

	/CHARLES APPIAH/ Supervisory Patent Examiner, Art Unit 2641

Notice of References Cited	Application/Control No. 13/271,203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,223,029 B1	04-2001	Stenman et al.	455/420
*	B	US-2002/0198990 A1	12-2002	Bradfield et al.	709/224
*	C	US-2005/0131551 A1	06-2005	Ruutu et al.	700/001
*	D	US-7,502,656 B2	03-2009	Thibault et al.	700/83
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015		
	8		✓	✓	✓	✓	✓			
	9		✓	○	-	-	-			
	10		✓	✓	✓	✓	=			
	11				=	=	=			
	12				✓	✓	=			
	13				✓	✓	=			
	14				✓	✓	=			
	15				✓	✓	=			
	16				✓	✓	=			
	17				✓	✓	=			
	18				✓	✓	=			
	19				✓	✓	=			
	20				✓	✓	=			
	21				✓	✓	=			
	22				✓	✓	=			
	23				✓	✓	=			
	24				✓	✓	=			
	25						=			
	26						=			
	27						=			
	28						=			
	29						=			
	30						=			
	31						✓			
	32						✓			
	33						✓			
	34						✓			
	35						✓			
	36						✓			

Search Notes 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner EDWARD ZHANG	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	466,404.2,414.2,456.1-456.6	01/31/2013	X.Z
455	418-420	12/30/2013	X.Z

SEARCH NOTES		
Search Notes	Date	Examiner
See East Search Notes	02/01/2013	X.Z
Consulted Primary Examiner Olumide	01/29/2013	X.Z
See East Search Notes	11/08/2013	X.Z
See East Search Notes	12/30/2013	X.Z
See East Search Notes	03/13/2014	X.Z
Consulted with Primary Examiner Olumide Ajibade-Akonai	11/22/2014	X.Z
See East Search Notes	12/09/2014	X.Z
See East Search Notes	06/17/2015	X.Z

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 13/271,203 Group Art Unit: 2641

Filing Date: 10/11/2011 Examiner: Zhang

Applicant: Charles G. Shamoon Confirmation No: 1022

Title: Ubiquitous Connectivity And Control Systems For Remote

Mailstop: AF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-

1450 Dear Sir:

AMENDMENT UNDER 37 C.F.R. §1.116

Sir or Madam:

In response to the current Office Action, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

Amendments to the Claims begin on page 2 of this Amendment.

Remarks begin on page 10 of this Amendment.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	32	-	25	=	7
Independent	3	-	3	=	0

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

1-7. (Canceled)

8. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is ~~an enter mode command~~ for the base unit initiated by a user from the cellular remote unit, and

wherein the control instruction to the environmental device is associated with the ~~enter mode~~ command for the base unit.

9. (Canceled)

10. (Canceled)

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the

environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the command is associated with an icon on the remote unit.

14. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the control instruction is configured to adjust a temperature of a water heater.

15. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the control instruction is configured to adjust an air handling system.

16. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the cellular communications network includes a data bearer service.

17. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the remote unit is a mobile remote unit.

18. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

19. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the command is an energy conservation command associated with multiple environmental devices.

20. (Currently Amended) The base unit of claim 8 ~~11~~,
wherein the cellular communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction;
and
wherein the command includes an environmental command.

21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.

22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

23-25. (Canceled)

26. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the environmental device comprises a thermostat.

27. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the remote unit is a cellular telephone, and wherein the environmental device comprises a thermostat.

28. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the environmental device comprises a light.

29. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the environmental device comprises an alarm system.

30. (Previously Presented) The base unit of claim 8 ~~11~~, wherein the base unit and the environmental device are contained in the same enclosure.

31. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive a current status from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send, over a cellular communications network, a first status message relating to the current status to the cellular remote unit, and to receive a command message from the cellular remote unit, and to send a second status message to the cellular remote unit indicating a change in the current status of the environmental device after execution of the command message,

wherein the first status message is a first digital communications message comprising a representation of the current status, wherein the command message is a second digital communications message comprising a command to be acted upon by the environmental device, and wherein the second status message is a third digital communications message comprising an indication that the command has been executed by the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface.

32. (Previously Presented) The base unit of claim 31, wherein the first status message is sent to the cellular remote unit using a data bearer service.

33. (Previously Presented) The base unit of claim 31, wherein cellular remote unit is a mobile remote unit.

34. (Canceled)

35. (Currently Amended) The base unit of claim ~~[[34]]~~31, wherein the environmental device comprises a thermostat.

36. (Previously Presented) The base unit of claim 35, wherein the base unit and the environmental device are contained in the same enclosure.

37. (New) The base unit of claim 8, wherein the cellular communications network includes a simple message service.

38. (New) The base unit of claim 8, wherein the environmental device comprises an appliance.

39. (New) The base unit of claim 8, wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is within a geo-fence, wherein the command is received from the cellular remote unit responsive to determining that the remote control unit is within the geo-fence.

40. (New) The base unit of claim 8, wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is outside a geo-fence, wherein the remote control unit is configured to transmit a notification via a simple message service responsive to determining that the remote control unit is outside of the geo-fence.

41. (New) The base unit of claim 8, wherein the base unit is configured to receive data from an external web service, and responsive to receiving the data the base unit sends the first message.

42. (New) The base unit of claim 41, wherein the external web service is a weather service.

43. (New) The base unit of claim 8, wherein the command includes cellular data.

44. (New) The base unit of claim 8, wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.

45. (New) The base unit of claim 8, wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network.

REMARKS

Favorable reconsideration of this application, in light of the preceding amendments and following remarks, is respectfully requested. Claims 8, 11, and 31 are the pending independent claims in this application, with the independent claims 8 and 31 being amended. No new matter is added. Support for the amendments can be found in at least pages 10 and 18-20 of the pending application.

Allowable Subject Matter

Applicant appreciates the indication by the Examiner that claims 10-30 stand allowed. As a note, the base claims from which the dependent claims depend from has changed from independent claim 11 to independent claim 8.

Rejections under 35 U.S.C. § 102 and § 103

Claim 8 stands rejected under 35 USC 102(b) as being anticipated by Bradfield (US 2002/0198990). Claim 8 stands rejected under 35 USC 102(e) as being anticipated by Kates (US 2005/0275530). Claim 8 stands rejected under 35 USC 103(a) as being unpatentable over Stenman (US 6,223,029). Claims 31, 32-33, and 35 stand rejected as being unpatentable over Kates in view of Thibault (US 7,502,656). Claim 36 stands rejected under 35 USC 103(a) as being unpatentable over Kates in view of Thibault and further in view of Ruttu. Claim 31 stands rejected under 35 USC 103(a) as being unpatentable by Bradfield in view of Thibault.

For an invention to be anticipated, it must be demonstrated that each and every element of the claimed invention is present in the "four corners" of a single prior art, either expressly described therein or under the principle of inherency. Lewmar Marine Inc. v Barient Inc., 3 USPQ2d 1766, 1767-1768 (Fed. Cir. 1987) (emphasis added).

The absence from a prior art reference of any claimed element negates anticipation. Kloster Speedsteel AB v. Crucible, Inc., 230 USPQ 81, 84 (Fed. Cir. 1986).

When determining whether a claim is obvious, an examiner must make “a searching comparison of the claimed invention – including all its limitations – with the teaching of the prior art.” *In re Ochiai*, 71 F.3d 1565, 1572 (Fed. Cir. 1995) (emphasis added). Thus, “obviousness requires a suggestion of all limitations in a claim.” *CFMT, Inc. v. Yieldup Intern. Corp.*, 349 F.3d 1333, 1342 (Fed. Cir. 2003) (citing *In re Royka*, 490 F.2d 981, 985 (CCPA 1974)). Moreover, as the Supreme Court recently stated, “there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness.” *KSR Int’l v. Teleflex Inc.*, 127 S. Ct. 1727, 1741 (2007) (quoting *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006) (emphasis added)).

To render claim 1 unpatentable, however, the Office must do more than merely “consider” each and every feature for this claim. Instead, the asserted combination of the patents to Smith and Jones must also teach or suggest each and every claim feature. See *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974) (emphasis added) (to establish *prima facie* obviousness of a claimed invention, all the claim features must be taught or suggested by the prior art). In sum, it remains well-settled law that obviousness requires at least a suggestion of all of the features in a claim. See *In re Wada and Murphy*, citing *CFMT, Inc. v. Yieldup Intern. Corp.*, 349 F.3d 1333, 1342 (Fed. Cir. 2003) and *In re Royka*, 490 F.2d 981, 985 (CCPA 1974)).

To expedite prosecution and without conceding to the Examiner’s positions, Applicants have amended the independent claims to recite, *inter alia*, “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message

from the cellular remote unit via the cellular communications network.” For at least the following reasons, the cited art fails to meet these limitations.

Bradfield discloses a system for use in remotely monitoring and controlling devices. *See Bradfield, abstract*. In Bradfield, when a predetermined condition is met, an email may be transmitted to a user. *See Bradfield, paragraph [0025]*. To respond to the email, the user may transmit a message to a server. *See Bradfield, paragraph [0025]*. In Bradfield, these messages are transmitted over HTML or in SNP messages to a gateway controller. *See Bradfield, paragraph [0017]*. Accordingly, these messages are transmitted over WiFi or local connections, and are not transmitted over a cellular network.

Kates discloses a system with a base unit and sensors that communicate with each other. *See Kates, abstract*. In Kates, the base unit is configured to receive sensor data from the sensors and attempt to notify a reasonable party. *See Kates, paragraph [0046]*. For example, in Kates, a responsible party sends instructions to a monitoring computer instructing the monitoring computer to send water shut off instructions to the sensor. *See Kates, paragraph [0068]*. In Kates, the responsible party must actually enter data on a monitoring computer 113 that is in communication with a base unit via Ethernet, USB port, or Bluetooth. *See Kates, paragraph [0029]*. Accordingly, these messages are transmitted over WiFi or local connections, and are not transmitted over a cellular network.

Stenmen discloses a system enabling a mobile station to remote control peripheral devices through user inputs. *See Stenmen, abstract*. In Stenmen, a mobile device may include a command module and local communications module for local control and communications with devices via a local communications link over a local medium involving electromagnetic waves, such as radio, infrared, optic spectra

microwaves, or magnetic waves. *See Stenmen, col. 7, lines 8-15.* However, these messages are transmitted over electromagnetic waves, and are not transmitted over a cellular network.

In view of the above, the cited art alone or in combination, fails to meet each and every feature disclosed in the amended independent claims. The examiner does not use, nor do the other references over the above mentioned deficiencies of the cited art. Specifically, the cited art fails to disclose “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network” as recited in the amended independent claims.

Therefore, the independent claims should be allowable, and withdrawal of these rejections is respectfully requested. The dependent claims are allowable at least base on virtue of their dependency from an allowable base claims.

New Claims

New claims 37-45 have been added. Limitations within these dependent claims are not taught by the cited art of record. Additionally, these new claims are dependent claims, which include further limitations to independent claim 8. For example, new claim 44 clarifies that “the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.”

The cited art fails to disclose a user interacting with an icon, and thus fails to disclose this limitation.

CONCLUSION

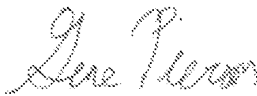
In view of the above remarks and amendments, the Applicants respectfully submit that each of the pending objections and rejections has been addressed and overcome, placing the present application in condition for allowance. A notice to that effect is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned, at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 506047 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

Pierson Intellectual Property, LLC

BY: 

Gene Pierson, Reg. No. 67,359
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(703) 598-9443

Doc Code: A.NE.AFCP

Document Description: After Final Consideration Pilot Program Request

PTO/SB/434 (05-13)

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0		
Practitioner Docket No.: SHAM1010	Application No.: 13/271,203	Filing Date: 10/11/2011
First Named Inventor: CHARLES G. SHAMOON	Title: Ubiquitous Connectivity And Control Systems For Remote Locations	
APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116. - The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (e.g., a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c). - The above-identified application contains an outstanding final rejection. - Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect. - This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection. - Applicant is willing and available to participate in any interview requested by the examiner concerning the present response. - This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web). - Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, e.g., extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.] - By filing this certification and request, applicant acknowledges the following: - Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0. - The examiner will verify that the AFCP 2.0 submission is compliant, i.e., that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions: - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, e.g., by mailing an advisory action. - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview. - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate. - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.		
Signature /Gene Pierson/		Date 10/14/2015
Name (Print/Typed) Gene Pierson		Practitioner Registration No. 67359
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.		
☐ * Total of _____ forms are submitted.		

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Ubiquitous Connectivity, LP
Application No./Patent No.: 13/271,203 Filed/Issue Date: October 11, 2011
Titled: Ubiquitous Connectivity And Control Systems For Remote Locations
Ubiquitous Connectivity, LP, a Partnership
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Shamoon, Charles and Shamoon, Deborah To: Ubiquitous Connectivity, LP

The document was recorded in the United States Patent and Trademark Office at
Reel 028125, Frame 0418, or for which a copy thereof is attached.

2. From: Turkow, Allen and Turkow, Lucy To: Ubiquitous Connectivity, LP

The document was recorded in the United States Patent and Trademark Office at
Reel 028125, Frame 0242, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Gene Pierson/

Signature

Gene Pierson

Printed or Typed Name

10/14/2015

Date

67359

Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒

Practitioners associated with Customer Number:

109967

OR

☐

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒

The address associated with Customer Number:

109967

OR

☐	Firm or Individual Name			
	Address			
	City		State	Zip
	Country			
	Telephone		Email	

Assignee Name and Address: Ubiquitous Conectivity, LP
2436 Tisbury Way
Little Elm, TX 75068

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	/Charles G. Shamoon/	Date	10/14/2015
Name	Charles G. Shamoon	Telephone	
Title	President		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Eugene Gordon Pierson		
Attorney Docket Number:		GSHAM.00101		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	2202	7	40	280
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				280

Electronic Acknowledgement Receipt	
EFS ID:	23844194
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	22858
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	GSHAM.00101
Receipt Date:	21-OCT-2015
Filing Date:	11-OCT-2011
Time Stamp:	09:36:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$280
RAM confirmation Number	7677
Deposit Account	506047
Authorized User	PIERSON, GENE
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response After Final Action	Shamoon1010RFOA.pdf	137146 8729f764da86c5f69371123f035cc60f66bdf67f	no	14
Warnings:					
Information:					
2	After Final Consideration Program Request	SHAM1010AfterFinalPilot.pdf	226007 97a0cb01f0826caba17d432f4b7983be5ab81d1	no	2
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73	SHAM1010chainoftitle.pdf	119590 39defddd55a5833836f7baef79b24972e85ee131	no	3
Warnings:					
Information:					
4	Power of Attorney	SHAM1010POA.pdf	80255 5161928fcc01c5ea146c8737eb32d7b80c65f99d	no	2
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30570 71f1555d7ff9a57bc0d5a23dfdd532e9e84aef9c	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			593568		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	10/21/2015	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 32	Minus	** 20	= 12	X \$40 =		480	
	Independent (37 CFR 1.16(h))	* 4	Minus	***3	= 1	X \$210 =		210	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		690	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =			
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101

22858
CARSTENS & CAHOON, LLP
P.O. Box 802334
DALLAS, TX 75380-2334

CONFIRMATION NO. 1022
POWER OF ATTORNEY NOTICE



Date Mailed: 10/30/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/21/2015.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/qtran/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101

CONFIRMATION NO. 1022

POA ACCEPTANCE LETTER

109967

Pierson Intellectual Property, PLLC
7000 N. Mopac Expressway, Second Floor
Austin, TX 78731



OC000000078341359*

Date Mailed: 10/30/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/21/2015.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/qtran/



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
109967 7590 11/25/2015 Pierson Intellectual Property, PLLC 7000 N. Mopac Expressway, Second Floor Austin, TX 78731			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 11/25/2015	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com

Advisory Action Before the Filing of an Appeal Brief	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner EDWARD ZHANG	Art Unit 2641	AIA (First Inventor to File) Status No

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED / FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.

b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires _____ months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because:

a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);

b) ☐ They raise the issue of new matter (see NOTE below);

c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicant's reply has overcome the following rejection(s): _____.

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☒ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____.

13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____

14. ☐ Other: _____.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: 11-22 and 26-30.

Claim(s) objected to: _____.

Claim(s) rejected: 8,9,31-33 and 35-45.

Claim(s) withdrawn from consideration: _____.

/Xiang Zhang/ Patent Examiner, WG 2641	/Olumide T. AJibade-Akonai/ Primary Examiner, Art Unit 2641

The amendments does NOT place the application in condition for allowance because: Applicant's request for entry into AFCP 2.0 is acknowledged, but is denied because the response cannot be reviewed and a searched conducted in the limited amount of time authorized for this pilot program. Therefore, the response is being reviewed under pre-pilot practice.

AFCP 2.0 Decision

Application No.

13/271,203

Applicant(s)

SHAMOON ET AL.

Examiner

EDWARD ZHANG

Art Unit

2641

This is in response to the After Final Consideration Pilot request filed 21 October 2015.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

- ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.
- ☐ A non-broadening amendment to at least one independent claim was not submitted.
- ☐ A proper AFCP 2.0 request was submitted in response to the most recent final rejection.
- ☐ Other:

2. Proper Request

- A. After final amendment submitted with the request will not be treated under AFCP 2.0.

The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

- ☐ The after final amendment will be treated under pre-pilot procedure.

- B. Updated search and/or completed additional consideration.

The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

- ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.
- ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action. See attached interview summary for further details.
- ☐ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.
- ☒ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.
- ☐ 5. Other:

Examiner Note: Please attach an interview summary when necessary as described above.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
109967 7590 12/08/2015 Pierson Intellectual Property, PLLC 7000 N. Mopac Expressway, Second Floor Austin, TX 78731			EXAMINER ZHANG, XIANG	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 12/08/2015	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	13/271,203	SHAMOON ET AL.	
	Examiner	Art Unit	
	EDWARD ZHANG	2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) OLUMIDE T. AJIBADE-AKONAI. (3) Charles Shamoon.

(2) Gene Pierson (67359). (4) ____.

Date of Interview: 12/03/2015.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: ____.

Issues Discussed ☐101 ☐112 ☒102 ☒103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 8.

Identification of prior art discussed: Kates 20050275530.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The Advisory action mailed on 11/25/25 in response to the after final submission filed on 10/21/2015 was not fully response and is therefore being vacated and withdrawn. A corrected advisory action will issued in due course. Applicant further discussed differences between the invention of claim 8 and the Kates reference. In an attempt to expedite prosecution, the examiner proposed amendments to claim 8 similar to claim 11 in order to place the application in condition for allowance. However, no agreement was reached and Applicant requested the appropriate response to the response filed on 11/25/2015.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoan	GSHAM.00101	1022
109967 7590 12/18/2015 Pierson Intellectual Property, PLLC 7000 N. Mopac Expressway, Second Floor Austin, TX 78731			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 12/18/2015	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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gene.pierson@piersonip.com
USPTO@dockettrak.com

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	13/271,203	SHAMOON ET AL.	
	Examiner	Art Unit	
	OLUMIDE T. AJIBADE AKONAI	2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) OLUMIDE T. AJIBADE AKONAI. (3) Gene Pierson (67359).

(2) Charles Shamoon. (4) _____.

Date of Interview: 03 December 2015.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☒102 ☐103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 8.

Identification of prior art discussed: Kates 20050275530.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The examiner notified applicant and applicant's representative that the advisory action mailed 11/25/2015 is being vacated and withdrawn. No agreement was reached on the allowability of claims submitted 10/21/2015, and on proposed amendments to the claims in order to place the application in condition for allowance.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	



UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
13/271,203	11 October, 2011	SHAMOON ET AL.	GSHAM.00101

Pierson Intellectual Property, PLLC 7000 N. Mopac Expressway, Second Floor Austin, TX 78731		EXAMINER	
		OLUMIDE T. AJIBADE AKONAI	
		ART UNIT	PAPER
		2641	12102015

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

This action supersedes and replaces the previous Advisory Action mailed on 12/08/2015 which is hereby vacated and withdrawn.

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

Advisory Action Before the Filing of an Appeal Brief	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 21 October 2015 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.
NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance;
 (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.

b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires _____ months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because

a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);

b) ☐ They raise the issue of new matter (see NOTE below);

c) ☒ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicant's reply has overcome the following rejection(s): _____.

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☐ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.

13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____

14. ☒ Other: PTOL-2323, PTOL-413B, PTO-90C.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
 Claim(s) allowed: 10-22 and 26-30.
 Claim(s) objected to: _____
 Claim(s) rejected: 8 and 31-36.
 Claim(s) withdrawn from consideration: _____

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641

Continuation of 12. does NOT place the application in condition for allowance because: The amendments to claims 8 and 31 do not put the claims in condition for allowance.

The applicant's remarks regarding the claims submitted 10/21/2015 are persuasive over the prior art references to Bradfield and Stenman. However, the applicant's remarks are not persuasive over the prior art reference to Kates.

In the remarks, the applicant's representative argues that in Kates, the responsible party must enter data on a monitoring computer 113 that is in communication with a base unit via Ethernet, USB port, or Bluetooth, and therefore the messages are not transmitted over a cellular network as cited in the amended claims 8 and 31. The examiner respectfully disagrees.

As indicated in the final office action, the computer system 113 in Kates is equivalent to applicant's claimed base unit (see fig. 1: monitoring computer or computer system 113; the computer system 113 has a USB port/Ethernet/Bluetooth port that is attached a base unit to in order to communicate with the sensor units 102-106, [0029]). The monitoring computer 113 (~base unit) communicates with a responsible personnel 120 using one or more several communication systems such as a communication system for communicating with a cellular telephone 123 (~cellular communications network) ([0029]). The communication from the monitoring computer 113 to the cellular telephone can be data from the sensor units 102-106 that is sent to the monitoring computer 113 ([0032]). This clearly reads on a wireless interface configured to send the data from the sensor unit(s) (~first message), via cellular communications, to a cellular remote device 123 (~cellular remote unit). In response to receiving the data from the monitoring computer 113, the responsible personnel/party 120, then sends instructions to the monitoring station ([0013], [0068], the examiner interprets this as the responsible personnel/party sending instructions, via the cellular telephone 123, to the monitoring computer 113, thus indicating transmission of the instructions via cellular communication to the monitoring computer 113). This reads on the wireless interface configured to receive a instructions (~second message), via cellular communications, from the from the cellular remote device 123 (~cellular remote device). The examiner therefore maintains that Kates discloses transmitting the first and second messages over a cellular network, as recited in claims 8 and 31.

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	13/271,203	SHAMOON ET AL.	
	Examiner	Art Unit	
	OLUMIDE T. AJIBADE AKONAI	2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) OLUMIDE T. AJIBADE AKONAI. (3) Gene Pierson (67359).

(2) Charles Shamoon. (4) _____.

Date of Interview: 03 December 2015.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☒102 ☐103 ☐Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 8.

Identification of prior art discussed: Kates 20050275530.

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The examiner notified applicant and applicant's representative that the advisory action mailed 11/25/2015 is being vacated and withdrawn. No agreement was reached on the allowability of claims submitted 10/21/2015, and on proposed amendments to the claims in order to place the application in condition for allowance.

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☐ Attachment

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	

AFCP 2.0 Decision

Application No.

13/271,203

Applicant(s)

SHAMOON ET AL.

Examiner

OLUMIDE T. AJIBADE AKONAI

Art Unit

2641

This is in response to the After Final Consideration Pilot request filed 21 October 2015.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

- ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.
- ☐ A non-broadening amendment to at least one independent claim was not submitted.
- ☐ A proper AFCP 2.0 request was submitted in response to the most recent final rejection.
- ☐ Other:

2. Proper Request

A. After final amendment submitted with the request will not be treated under AFCP 2.0.

The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

- ☐ The after final amendment will be treated under pre-pilot procedure.

B. Updated search and/or completed additional consideration.

The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

- ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.
- ☒ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action. See attached interview summary for further details.
- ☐ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.
- ☐ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.
- ☐ 5. Other:

Examiner Note: Please attach an interview summary when necessary as described above.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 13/271,203

Group Art Unit: 2641

Filing Date: 10/11/2011

Examiner: Zhang

Applicant: Charles G. Shamoon

Confirmation No: 1022

Title: Ubiquitous Connectivity And Control Systems For Remote Locations

Mailstop: RCE

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT UNDER 37 C.F.R. §1.114

Sir or Madam:

In response to the current Office Action and the advisory action issued on 12/18/2015, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

Amendments to the Claims begin on page 2 of this Amendment.

Remarks begin on page 10 of this Amendment.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	30	-	32	=	0
Independent	3	-	3	=	0

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

1-7. (Canceled)

8. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is ~~an enter mode command~~ for the base unit initiated by a user from the cellular remote unit, and

wherein the control instruction to the environmental device is associated with the ~~enter mode~~ command for the base unit.

9. (Canceled)

10. (Canceled)

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the

environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the command is associated with an icon on the remote unit.

14. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the control instruction is configured to adjust a temperature of a water heater.

15. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the control instruction is configured to adjust an air handling system.

16. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the cellular communications network includes a data bearer service.

17. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the remote unit is a mobile remote unit.

18. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

19. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the command is an energy conservation command associated with multiple environmental devices.

20. (Currently Amended) The base unit of claim 8 ~~11~~,
wherein the cellular communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction;
and
wherein the command includes an environmental command.

21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.

22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

23-25. (Canceled)

26. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the environmental device comprises a thermostat.

27. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the remote unit is a cellular telephone, and wherein the environmental device comprises a thermostat.

28. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the environmental device comprises a light.

29. (Currently Amended) The base unit of claim 8 ~~11~~, wherein the environmental device comprises an alarm system.

30. (Previously Presented) The base unit of claim 8 ~~11~~, wherein the base unit and the environmental device are contained in the same enclosure.

31. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive a current status from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send, over a cellular communications network, a first status message relating to the current status to the cellular remote unit, and to receive a command message from the cellular remote unit, and to send a second status message to the cellular remote unit indicating a change in the current status of the environmental device after execution of the command message,

wherein the first status message is a first digital communications message comprising a representation of the current status, wherein the command message is a second digital communications message comprising a command to be acted upon by the environmental device, and wherein the second status message is a third digital communications message comprising ~~a~~an indication that the command has been executed by the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface.

32. (Previously Presented) The base unit of claim 31, wherein the first status message is sent to the cellular remote unit using a data bearer service.

33. (Previously Presented) The base unit of claim 31, wherein cellular remote unit is a mobile remote unit.

34. (Canceled)

35. (Canceled).

36. (Currently Amended) The base unit of claim 31 [[35]], wherein the base unit and the environmental device are contained in the same enclosure.

37. (New) The base unit of claim 8, wherein the cellular communications network includes a simple message service.

38. (New) The base unit of claim 8, wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is within a geo-fence, wherein the command is received from the cellular remote unit responsive to determining that the remote control unit is within the geo-fence.

39. (New) The base unit of claim 8, wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is outside a geo-fence, wherein the remote control unit is configured to transmit a notification via a simple message service responsive to determining that the remote control unit is outside of the geo-fence.

40. (New) The base unit of claim 8, wherein the base unit is configured to receive data from an external web service, and responsive to receiving the data the base unit sends the first message.

41. (New) The base unit of claim 40, wherein the external web service is a weather service.

41. (New) The base unit of claim 8, wherein the command includes cellular data.

42. (New) The base unit of claim 8, wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.

43. (New) The base unit of claim 8, wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network.

REMARKS

Favorable reconsideration of this application, in light of the preceding amendments and following remarks, is respectfully requested. Claims 8, 11, and 31 are the pending independent claims in this application, with the independent claims 8 and 31 being amended. No new matter is added. Support for the amendments can be found in at least pages 10 and 18-20 of the pending application.

Allowable Subject Matter

Applicant appreciates the indication by the Examiner that claims 10-30 stand allowed. As a note, the base claims from which the dependent claims depend from has changed from independent claim 11 to independent claim 8.

Rejections under 35 U.S.C. § 102 and § 103

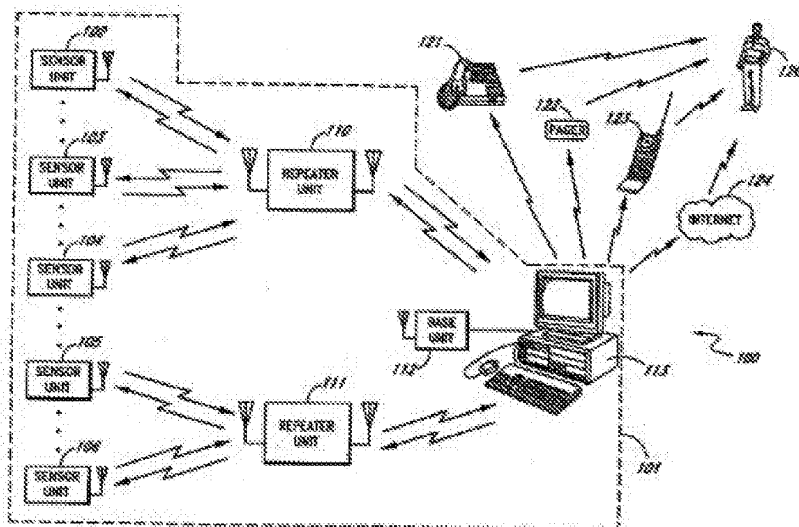
1. Claim 8 stands rejected under 35 USC 102(e) as being anticipated by Kates (US 2005/0275530). Claims 31, 32-33, and 35 stand rejected as being unpatentable over Kates in view of Thibault (US 7,502,656). Claim 36 stands rejected under 35 USC 103(a) as being unpatentable over Kates in view of Thibault and further in view of Ruttu.

To expedite prosecution and without conceding to the Examiner's positions, Applicants have amended the independent claims to recite, *inter alia*, "a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network" in combination with "wherein the first message is a first digital communications message including a representation of the environmental information" and

“wherein the second message is a second digital communications message including a command regarding the environmental device.” For at least the following reasons, the Kates fails to meet these limitations.

Kates discloses a system with a base unit and sensors that communicate with each other. *See Kates, abstract*. In Kates, the base unit is configured to receive sensor data from the sensors and attempt to notify a reasonable party. *See Kates, paragraph [0046]*. For example, in Kates, a responsible party sends instructions to a monitoring computer instructing the monitoring computer to send water shut off instructions to the sensor. *See Kates, paragraph [0068]*. To accomplish this the responsible party must actually enter data on a monitoring computer 113 that is in communication with a base unit via Ethernet, USB port, or Bluetooth. *See Kates, paragraph [0029]*.

Accordingly, this message is manually entered, and is not a message received “from the cellular remote unit via the cellular communications network” and is not “a second digital communications message including a command regarding the environmental device” as recited by the amended independent claims. This is further shown in FIGURE 1 of Kates, reproduced below.



As depicted in FIGURE 1 of Kates computer 113 is configured to transmit a first message over different protocols. However, Kates does not disclose how computer 113 would, nor is computer 113 enabled to “receive a second message from the cellular remote unit via the cellular communications network...” wherein the second message is a second digital communications message including a command regarding the environmental device.” (Emphasis added).

The one way arrows depicted in FIGURE 1 of Kates clearly shows that computer 113 is not able receive communications from remote devices 121, 122, 123, or 124. A person operating computer 113 is not a cellular remote, nor can a person operating computer 113 be a “digital communications message.” Thus, Kates requires an additional step and user intervention to receive a phone call and manually operate computer 113. Thus, Kates cannot disclose the above mentioned limitations of Kates.

Additionally, Kates, nor any other devices at the time, are enabled to disclose the above recited limitations. The non-enablement of Kates is further supported by the

attached expert declaration. The attached declaration asserts that Kates is inoperative to disclose these limitations.

Additionally, on page 5 of the current Office Action the examiner states that paragraphs [0029] and [0068] disclose “a wireless communication interface to send a first message to the cellular remote unit... and to receive a second message from the cellular unit.” The sensors in Kates are devices controlled by a PC. But the sensors themselves in Kates do not control other devices. More so, neither paragraph [0068] or [0029] of Kates effectively discloses how a wireless sensor would communicate and/or control devices, and nowhere does Kates disclose a wireless interface on the PC to the cellular remote unit. Accordingly, Kates does not effectively disclose how the wireless sensors communicate with and/or control other devices as alleged by the Examiners. As noted in the attached declaration, wireless sensors as used by the examiner did not exist in May 27, 2004. The wireless sensor in paragraph [0068] of Kates could not receive and/or perform a remote instruction to a shut off valve. Therefore, if the wireless sensor in Kates could not receive instructions from a cellular remote, the wireless sensor could not execute an instruction from the cellular remote.

Furthermore, on page 13 of the current outstanding office action, the Examiner admits that Kates fails to teach “send a second status message to the cellular remote unit indicating a change in the current status of the environmental device after execution of the command message” in combination with “wherein the second status message is a third digital communications message comprising an indication that the command has been executed by the environmental device.”

Thibault discusses controlling a “plant” or “environmental device.” More specifically, Thibault teaches a status-response system for a thermocouple where the thermocouple ONLY transmits a status message to the end-user. However, Thibault

never explains how the plant or environmental device is controlled. The system in Thibault solely gathers data and is a trend plotting system, but does not actually control hardware.

The control program in Thibault does not mention that a user interface is involved but simply states there is a control program. To those skilled in the art, a control program is a closed loop software application for control that does not require user intervention to monitor and adjust the operation of the device under control.

As recited in claim 31, a second status message is sent “to the cellular remote unit indicating a change in the current status of the environmental device **after** execution of the command message.” (Emphasis added) Accordingly, in claim 31, the second status message is only sent after the user intervention. Thus, the recitation in claim 31 discloses that the system is not a closed loop software application like Thibault which requires no user intervention. Furthermore, Thibault does not teach the components that would allow user intervention as recited in claim 31, wherein the end-user sends a command and the status message is transmitted in response to the end-user who first sends a command.

Accordingly, Thibault fails to overcome the above mentioned and admitted deficiencies of Kates.

In view of the above, the cited art alone or in combination, fails to meet each and every feature disclosed in the amended independent claims. The examiner does not use, nor do the other references overcome the above mentioned deficiencies of the cited art. Specifically, the cited art fails to disclose “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular

remote unit via the cellular communications network” as recited in the amended independent claims.

Therefore, the independent claims should be allowable, and withdrawal of these rejections is respectfully requested. The dependent claims are allowable at least base on virtue of their dependency from an allowable base claims.

2. Claim 8 stands rejected under 35 USC 102(b) as being anticipated by Bradfield (US 2002/0198990). Claim 8 stands rejected under 35 USC 103(a) as being unpatentable over Stenman (US 6,223,029). Claim 31 stands rejected under 35 USC 103(a) as being unpatentable by Bradfield in view of Thibault.

Applicant notes that on page 2 of the Advisory action dated 12/18/2015 the Examiner states that the remarks submitted on 10/21/2015, also submitted below, overcome the above rejections. Therefore, these rejections are rendered moot, and withdrawal of these rejections is respectfully requested.

Bradfield discloses a system for use in remotely monitoring and controlling devices. *See Bradfield, abstract*. In Bradfield, when a predetermined condition is met, an email may be transmitted to a user. *See Bradfield, paragraph [0025]*. To respond to the email, the user may transmit a message to a server. *See Bradfield, paragraph [0025]*. In Bradfield, these messages are transmitted over HTML or in SNP messages to a gateway controller. *See Bradfield, paragraph [0017]*. Accordingly, these messages are transmitted over WiFi or local connections, and are not transmitted over a cellular network.

Stenmen discloses a system enabling a mobile station to remote control peripheral devices through user inputs. *See Stenmen, abstract*. In Stenmen, a mobile device may include a command module and local communications module for local

control and communications with devices via a local communications link over a local medium involving electromagnetic waves, such as radio, infrared, optic spectra microwaves, or magnetic waves. *See Stenmen, col. 7, lines 8-15.* However, these messages are transmitted over electromagnetic waves, and are not transmitted over a cellular network.

As stated above, the Examiner states that these rejections were previously overcome. Therefore, these rejections are rendered moot, and withdrawal of these rejections is respectfully requested.

New Claims

New claims 37-45 have been added. Limitations within these dependent claims are not taught by the cited art of record. Additionally, these new claims are dependent claims, which include further limitations to independent claim 8. For example, new claim 44 clarifies that “the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.”

The cited art fails to disclose a user interacting with an icon, and thus fails to disclose this limitation. More specifically, Kates fails to disclose how any icons on cell phone 123 that would allow a user would interact with cell phone 123 to initiate a command. As discussed above, in Kates, the communications entered on computer 113 are manually entered by a responsible party operating the computer, and are not “initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.”

CONCLUSION

In view of the above remarks and amendments, the Applicants respectfully submit that each of the pending objections and rejections has been addressed and overcome, placing the present application in condition for allowance. A notice to that effect is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned, at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 506047 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

Pierson Intellectual Property, LLC

BY: 

Gene Pierson, Reg. No. 67,359
7000 N. Mopac Expressways,
Second Floor
Austin, Texas 78731
(703) 598-9443

- Serial No.
13/271,203

Declaration- Price

Declaration

I, Thomas A. Price III declare that:

I am a resident of North Carolina for more than 50 years

I have more than 40 years experience in mobile communications and electronics.

1. I was requested to review Kates' patent, US2005/0275530A1 Wireless Sensor System having a priority date of May 27, 2004, to provide my opinion as to whether Kates provided enough information and detail to build an operative device using the disclosures in the patent.
2. As of the filing date, May 27, 2004, it is my opinion that based on the disclosures in Kates, it would not be possible to build an operable system as described, for the reasons described below.
3. I have read and understood Kates' patent, US2005/0275530A1 Wireless Sensor System and the claims in it.
4. I have read and understood Shamoon's patent application, US 13/271,203 Ubiquitous Connectivity and Control System for Remote Locations and the claims in it.
5. I am familiar with electronic systems, mobile phones, pagers and cellular systems due to my experience in the field of electronics. See my attached resume for further reference.

6. For my evaluation, I mainly considered the embodiment in paragraph (0029) in Kates which in my opinion would be most representative to one ordinary skilled in the art.
- A. Kates does not effectively disclose how the wireless sensors communicate and or control as described in paragraph 68.

Wireless sensors did not exist as described in paragraph 68 in May 27, 2004. The wireless sensor in paragraph 68 could not receive a remote instruction from the responsible party and therefore could not perform a remote instruction to shut off a valve. Also, the monitoring computer in paragraph 68 has no interface to receive instructions from a cellular remote. Therefore; the monitoring computer could not send a shut off-instruction because it could not receive from the cellular remote.

- B. There is not enough detail in the paragraph 68 to build wireless sensors as mentioned. The block diagram indicates the following parts:

1. Signal conditioning from the sensor used.
2. Controller.
3. Transceiver.
4. Power source.

Mentioning the above parts does not disclose how they work. Substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system. Kates made an attempt to describe certain frequency bands and transmission techniques that were popular and active at the time of the filing. For instance, spread spectrum, frequency hopping spread spectrum, 900MHz, above and below 900MHz are legitimate but do not convey detail.

- C. There is not enough detail to build or execute the communication methods shown in Kates to notify the responsible party. As of the filing date, May 27, 2004, the generally expected way to communicate with a PC would be through a PC telephone modem. No modem is disclosed. A modem would allow the PC to contact a telephone, pager, or a cellular phone through the normal telephone service as it is pictured in the Kates patent. A standard PC Ethernet connection would allow communication to the internet as pictured in Kates. No Ethernet connection is described in Kates except an Ethernet connection from the base unit

in Kates' Figure 1. Although phone modems were available at the time, it is my opinion that one having ordinary skill in the art would have understood the disclosure of Kates to describe sending a voice message to the responsible party. There is not enough detail provided in Kates that would have provided someone skilled in the art to produce a system to communicate with a cellular phone other than through voice messaging.

- E. There is no description of the responsible party controlling the sensor system through a telephone, pager, cellular phone or the internet. The description is of the PC controlling the sensor system through the base unit. The responsible party is mentioned 4 times in Kates.

Paragraphs (0029), (0032), and (0046) describe one way notification to the responsible party of an anomalous condition in the sensor system. In these three paragraphs, no mention of response or control is present in Kates.

Paragraph (0068) states:

In one embodiment, the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send Water shut off instructions to the sensor unit 102.

Paragraph (0068) has no description or detail of the communication method used to control the PC (monitoring computer). No remote control method over a cellular network is described. It is my opinion that one having ordinary skill in the art would have understood the disclosure of Kates in (0068) not to have described sending a control message over a cellular network to the monitoring computer. This disclosure is not sufficient for someone of ordinary skill in the art to produce a remote control message over the cellular network without undue experimentation.

Serial NO.

13/271,203

Declaration- Price

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment or under 18 USC 1001.

Dated: January 8 2016

Thomas A Price

Thomas A. Price

THOMAS A. PRICE
1005 Windemere Lane • Wake Forest, NC 27587
919-815-1328 • tprice417@earthlink.net

Serial NO.

13/271,203

Declaration: Price

TELECOMMUNICATIONS SYSTEMS ENGINEER
SW Test and Verification – RF HW Test and Performance Verification

Systems engineering, software and hardware experience. Software test and QA best practices experience and knowledge. Extensive knowledge of RF performance, test, and product development.

SW Test	SW QA, ISTQB Certified
HW Design	RF HW Test Automation
Product Development	New Product Introduction

PROFESSIONAL EXPERIENCE

Engineering Contractor **Raleigh, NC** **6/2014-8/2014**
Electronic Test Engineer

- Modernized temperature control and measurement project with LabView hardware and software.
- Designed and delivered PCB layout project to local contract manufacturer.

Sensus Metering Systems **RTP, NC** **8/2011-11/2013**
Electronic Design Engineer

- Setup and commissioned an automated water meter test bench for product development, quality assurance and reliability testing of new water meter products
- Delivered AMI lighting product to high volume production after development and regulatory testing

Component Engineer

- Conducted alternate component selection and testing support to engineering and supply chain departments.

P3 Communications, Inc. **RTP, NC** **1/2010-5/2010**
Systems Engineer

- Conducted interoperability field testing (IOT) for cellular mobile devices using cellular protocols including CDMA, GSM, GPRS, EDGE, WCDMA, HSDPA, and HSUPA in major US markets. Used Tcl/Tk and Perl scripts for log parsing and debugging. Used mapping tools to verify coverage.
- Performed RF spectrum scan, analysis, and interference search in new LTE band allocations in major US markets. Used mapping tools with signal levels and log analysis to find interference.

Ericsson Inc. **RTP, NC** **5/2005-12/2009**
Systems Engineer

- Provided interoperability field testing (IOT) for cellular platform devices using GSM, GPRS, EDGE, WCDMA, HSDPA, and HSUPA in selected major US markets. Used GPS, maps and coverage logs to prove performance in multiple designated markets
- Performed interoperability development testing and product support for LTE (4G) mobile platform development. Tested LTE base station compliance to 3GPP standards.
- Developed and maintained a hardware and software test environment for customer acceptance testing using live cellular network equipment and test equipment using Tcl/Tk and Perl scripting
- Conducted tests and verified RAB performance (CS, PS, HSDPA, EUL and mRAB) in core network and mobile devices.
- Used Ericsson Element Manager and custom scripts to automate live cellular network setup and parameter changes.

Serial NO.

13/271,203

Declaration- Price

- Used Aruba Airwave management tool for local wireless network management with Unix/Linux scripting, Perl and SNMP for network administration.

Thales Mackay Radio Systems, Inc. Raleigh, NC 3/2004-1/2005
Consulting Engineer

- Provided electrical and mechanical design support for HF radio products during prototype and product release builds of new products.
- Managed the MIL-STD EM/EMC and environmental testing regime on new products at offsite testing laboratories.
- Customer Service Manager.

Arrisphere, LLC Raleigh, NC 6/2003-12/2003
Consulting Engineer

- Built and tested prototype DSL interconnect and cross connect outdoor cabinets.
- Provided electrical and mechanical lab support for DSL and Gigabit Ethernet products during preproduction builds.

Integrian, Inc. RTP, NC 8/1998-5/2002
Technical Manager / Test and Verification

- Provided test and verification analysis for an RF power amplifier product.
- Managed a parametric, protocol, and environmental verification team of 8 team members using a LabVIEW based automated test system in an Ericsson M2M group.
- Managed alternate source RF component test group for an Ericsson phone product group.
- Performed regulatory certification testing (FCC, UL, CE) and document submission for cellular M2M products.
- Specified and acquired RF parametric, protocol and environmental test equipment for the design and verification group assigned to M2M group.

Early Career Experience:

Ericsson, Base Station Products, 1993-1998, Senior Staff Engineer and Configuration Specialist for self contained cell site products.

AER/Aerotron, Software Engineer, designed hardware and software for microcontroller based land mobile radio products.

Communication Specialist Company, Lead Technician/Shop Manager for, land mobile radio sales and service. Obtained FCC General Class License with Ship Radar Endorsement.

EDUCATION & TRAINING

North Carolina State University Raleigh, NC 1998
• Completed 80 semester hours towards BS in Electrical Engineering

TECHNICAL PROFICIENCIES

Platforms / OS:	Unix, Linux, Windows, Solaris
Software / Tools:	Ericsson Element Manager, TEMS, NetHawk, Wireshark, Ericsson DebugMux, QXDM, MA, Artemis, LabVIEW, ISTQB Certified Software Tester Certification, Eagle PCB, AutoCAD, Altium, Mentor Graphics, Orcad, Cadence, Spice, MS Office, Project, Visio, Google Maps, Google Earth, Rhode & Schwarz MapView
Languages:	C, C++, Expect, Perl, Python, Tcl/Tk

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e)** (Page 1 of 1)

First Named Inventor:	Charles G. Shamoon	Nonprovisional Application Number (if known):	13/271,203
Title of Invention:	Ubiquitous Connectivity And Control Systems For Remote Locations		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

I. ☐ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
---OR---
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☒ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature <u>/Gene Pierson/</u>	Date <u>01/06/2016</u>
Name (Print/Typed) <u>Gene Pierson</u>	Practitioner Registration Number <u>67359</u>
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.*	
☐ *Total of _____ forms are submitted.	

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Request
for
Continued Examination (RCE)
Transmittal**

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	13/271,203
Filing Date	10/11/2011
First Named Inventor	Charles G. Shamoon
Art Unit	2641
Examiner Name	ZHANG
Attorney Docket Number	SHAM1010

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).
- a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
- i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ii. ☐ Other _____
- b. ☒ Enclosed
- i. ☒ Amendment/Reply
- iii. ☐ Information Disclosure Statement (IDS)
- ii. ☒ Affidavit(s)/ Declaration(s)
- iv. ☐ Other _____
2. **Miscellaneous**
- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- b. ☐ Other _____
3. **Fees** The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
- The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to
- a. ☒ Deposit Account No. 506047
- i. ☒ RCE fee required under 37 CFR 1.17(e)
- ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17)
- iii. ☐ Other _____
- b. ☐ Check in the amount of \$ _____ enclosed
- c. ☒ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	/Gene Pierson/	Date	01/13/2016
Name (Print/Type)	Gene Pierson	Registration No.	67359

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature	/Gene Pierson/	Date	01/13/2016
Name (Print/Type)	Gene Pierson	Date	01/13/2016

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Instruction Sheet for RCEs

(not to be submitted to the USPTO)

NOTES:

An RCE is not a new application, and filing an RCE will not result in an application being accorded a new filing date.

Filing Qualifications:

The application must be a utility or plant application filed on or after June 8, 1995. The application cannot be a provisional application, a utility or plant application filed before June 8, 1995, a design application, or a patent under reexamination. See 37 CFR 1.114(e).

Filing Requirements:

Prosecution in the application must be closed. Prosecution is closed if the application is under appeal, or the last Office action is a final action, a notice of allowance, or an action that otherwise closes prosecution in the application (e.g., an Office action under *Ex parte Quayle*). See 37 CFR 1.114(b).

A submission and a fee are required at the time the RCE is filed. If reply to an Office action under 35 U.S.C. 132 is outstanding (e.g., the application is under final rejection), the submission must meet the reply requirements of 37 CFR 1.111. If there is no outstanding Office action, the submission can be an information disclosure statement, an amendment, new arguments, or new evidence. See 37 CFR 1.114(c). The submission may be a previously filed amendment (e.g., an amendment after final rejection).

WARNINGS:

Request for Suspension of Action:

All RCE filing requirements must be met before suspension of action is granted. A request for a suspension of action under 37 CFR 1.103(c) does not satisfy the submission requirement and does not permit the filing of the required submission to be suspended.

Improper RCE will NOT toll Any Time Period:

Before Appeal - If the RCE is improper (e.g., prosecution in the application is not closed or the submission or fee has not been filed) and the application is not under appeal, the time period set forth in the last Office action will continue to run and the application will be abandoned after the statutory time period has expired if a reply to the Office action is not timely filed. No additional time will be given to correct the improper RCE.

Under Appeal - If the RCE is improper (e.g., the submission or the fee has not been filed) and the application is under appeal, the improper RCE is effective to withdraw the appeal. Withdrawal of the appeal results in the allowance or abandonment of the application depending on the status of the claims. If there are no allowed claims, the application is abandoned. If there is at least one allowed claim, the application will be passed to issue on the allowed claim(s). See MPEP 1215.01.

See MPEP 706.07(h) for further information on the RCE practice.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Eugene Gordon Pierson		
Attorney Docket Number:		GSHAM.00101		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Request for Prioritized Examination	2817	1	2000	2000
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	2830	1	70	70
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	2253	1	700	700
Miscellaneous:				
RCE- 2nd and Subsequent Request	2820	1	850	850
Total in USD (\$)				3620

Electronic Acknowledgement Receipt	
EFS ID:	24612513
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	GSHAM.00101
Receipt Date:	13-JAN-2016
Filing Date:	11-OCT-2011
Time Stamp:	15:43:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$3620
RAM confirmation Number	2143
Deposit Account	506047
Authorized User	PIERSON, GENE
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

Charge any Additional Fees required under 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment Submitted/Entered with Filing of CPA/RCE	Shamoon1010RFOARCE.pdf	337847 71203c8c9aefadb03ddb884f873ac907da3f5b0f	no	17
Warnings:					
Information:					
2	Applicant Arguments/Remarks Made in an Amendment	SHAMOON1010expert.pdf	2310120 180dfbb7d87e20c2a6a48a763cc0bebf367831c3	no	6
Warnings:					
Information:					
3	TrackOne Request	SHAMOON1010Track1.pdf	113939 77f783932b46e14f2168699c0d9d7f8f6a717c27	no	2
Warnings:					
Information:					
4	Amendment Submitted/Entered with Filing of CPA/RCE	SHAMOON1010RCE.pdf	307516 03563116b8c8f4a7fb186c88db6cc08f2294e9fa	no	3
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	35983 ce29d0d7c425b3d176f9db462241c7ec161279c0	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			3105405		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (j), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	01/13/2016		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(j))		* 30		Minus	** 32	= 0		
	Independent (37 CFR 1.16(h))		* 3		Minus	***4	= 0		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$40 =		0	
						X \$210 =		0	
						TOTAL ADD'L FEE		0	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(j))		*		Minus	**	=		
	Independent (37 CFR 1.16(h))		*		Minus	***	=		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$ =			
						X \$ =			
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
109967 7590 02/11/2016 Pierson Intellectual Property, PLLC 7000 N. Mopac Expressway, Second Floor Austin, TX 78731			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 02/11/2016	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com



United States Patent and Trademark Office

Commissioner for Patents
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Doc Code:
TRACK1.GRANT

Decision Granting Request for Prioritized Examination (Track I or After RCE)	Application No.: 13/271,203
1. THE REQUEST FILED <u>1/13/16</u> IS GRANTED. The above-identified application has met the requirements for prioritized examination A. ☐ for an original nonprovisional application (Track I). B. ☒ for an application undergoing continued examination (RCE). 2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs: A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply; B. filing an <u>amendment to amend the application to contain more than four independent claims request for continued examination</u>; C. filing a notice of appeal; D. filing a request for suspension of action; E. mailing of a notice of allowan F. ce; G. mailing of a final Office action, <u>more than thirty total claims</u>, or a multiple dependent claim; H. filing a I. ; completion of examination as defined in 37 CFR 41.102; or J. abandonment of the application. Telephone inquiries with regard to this decision should be directed to Terri Johnson at 571-272-2991 /Terri Johnson/ Paralegal Specialist _____ [Signature] (Title)	

Office of Petitions: Decision Count Sheet

Mailing Month

2

Application No.

13271203



For US serial numbers: enter number only, no slashes or commas. Ex: 10123456

For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official:

Johnson, Terri

Count (1) - Palm Credit

13/271,203

Decision: GRANT

FINANCE WORK NEEDED

☐ Select Check Box for YES

Decision Type: 643 - Track One request



Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED

☒ Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED

☐ Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach
2nd count sheet & mark this box ☐

Printed on: 2/6/2016

Office of Petitions Internal Document - Ver. 5.0

Office of Petitions: Routing Sheet



Application No. 13/271,203

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below.

For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

☒ **GRANTED**

☐ **DISMISSED**

☐ **DENIED**



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
109967 7590 02/22/2016 Pierson Intellectual Property, PLLC 7000 N. Mopac Expressway, Second Floor Austin, TX 78731			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 02/22/2016	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com

<i>Examiner-Initiated Interview Summary</i>	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) OLUMIDE T. AJIBADE AKONAI. (3) ____.

(2) Gene Pierson (67359). (4) ____.

Date of Interview: 11 February 2016.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: ____.

Issues Discussed ☐ 101 ☒ 112 ☐ 102 ☐ 103 ☒ Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 8 and 31.

Identification of prior art discussed: none.

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The examiner discussed potential amendments to claims 8 and 31 to overcome the prior art and place the application in condition for allowance, and possible 112 issues with claim 31. No agreement was reached.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	

Office Action Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 01/13/2016.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 8, 11-22, 26-33 and 36-44 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☒ Claim(s) 11 is/are allowed.

7) ☒ Claim(s) 8, 12-22, 26-33, 36-38 and 40-44 is/are rejected.

8) ☒ Claim(s) 39 is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____.

3) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.

4) ☐ Other: ____.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 13, 2016 has been entered.

Response to Amendment

2. The declaration under 37 CFR 1.132 filed January 13, 2016 is insufficient to overcome the rejection of claims 8 and 31 Kates reference because:

The declaration submitted January 13, 2016 is not persuasive.

The declaration states that Kates does not effectively disclose how wireless sensors communicate or control as described in paragraph [0068]. However, Kates clearly discloses a sensor unit having transceiver circuitry attached to an antenna 204 capable of performing wireless communication with a repeater (see fig. 2, [0037]-[0038]). Kates discloses the sensor unit receiving instructions, via wireless communication with the repeater ([0036], [0038]). The instructions are transmitted to the sensor unit from the base unit 112 connected to computer 113 (fig. 1, [0040], [0042]-

[0040]). Paragraph [0037] discloses a programming the sensors according to type, and programming the power and control signals. Paragraph [0068] then discloses how the programmed sensor unit receives control instructions from the computer and controls water shutoff or gas shutoff. Kates therefore effectively discloses how wireless sensors communicate and control.

The declaration asserts that the wireless sensor disclosed in paragraph 68 of Kates could not receive a remote instruction from the responsible party and therefore could not perform a remote instruction to shut off a valve. However, the examiner notes that in Kates, the responsible party instructs the computer/base unit to send water shut off or gas shut off instructions to the sensor unit (i.e., the remote instruction from the responsible party is received at the base unit/computer, not at the sensor unit. The examiner did not indicate in office action Kate discloses the sensor unit receiving instructions directly from the responsible party, as the declaration seems to assert). Thus, the wireless sensor units disclosed in Kates are not receiving the remote instructions from the responsible party. The wireless sensors receive the instruction from the base unit via the repeater (see [0036], [0038], [0042]).

The declaration asserts that monitoring computer could not send shut off instructions because it could not receive instructions from the cellular remote. A review of Kates discloses the computer 113 communicating with the responsible party using a variety of networks (see fig. 1) including cellular (i.e., cellular telephone network if via cellular phone), Internet, text ([0029]). Paragraph [0068] discloses sending instructions from the responsible party 120 (connected to the base computer via cellular, Internet, or

other networks) to the computer 113. Therefore, the monitoring computer is capable of receiving the instructions from the responsible party.

The declaration asserts that there is not enough detail to build wireless sensors as mentioned in paragraph 68 of Kates, and substantial experimentation would have been required by one of ordinary skill in the art to produce a working system. However, the examiner notes that the declaration has provided no objective factual evidence as to: (1) why substantial experimentation will be required; and (2) the inoperability of a working system of the wireless sensors as disclosed in Kates. The declaration asserts that the parts (i.e., signal conditioning, controller, transceiver, power source) in the wireless sensor disclosed in Kates will require substantial experimentation to produce a working system. However, this is not supported by any factual evidence established or produced in the declaration. Therefore, the assertion that there is not enough detail in paragraph 68 to build wireless sensors constitutes an opinion that is not supported by any factual evidence (See MPEP 716.01(c)). Although an affidavit or declaration which states only conclusions may have some probative value, such an affidavit or declaration may have little weight when considered in light of all the evidence of record in the application. *In re Brandstadter*, 484 F.2d 1395, 179 USPQ 286 (CCPA 1973). In this case, the paragraphs already cited above in Kates discloses in detail use of sensor units as wireless sensors in a building (see fig. 1, [0029]-[0030], [0032]-[0033]). Therefore, the declaration statement regarding the use of the wireless sensors are conclusory statements unsupported by objective factual evidence.

The declaration asserts that there is not enough detail to build or execute the communication methods in Kates to notify the responsible party. The declaration makes this assertion by admitting that it would have been possible to perform the communication via a modem which was available at the time, but is of the opinion that one of ordinary skill in the art would have understood the disclosure in Kates to describe sending a voice message to the responsible party, and that there is not enough detail in Kates that would have provided someone skilled in the art to produce a system to communicate with the cell phone other than through voice messaging. However, the examiner notes that the declaration has not provided any objective evidence that can be weighed against Kates and evaluated by the examiner to support the assertions in the declaration that one of ordinary skill in the art would have understood the disclosure in Kates to describe sending a voice message to the responsible party. Kates discloses the communication between the computer 113 and responsible party with a cellular telephone via one or more of the several communication networks (see [0029]).

Since U.S. patent 7,102,505 (Kates) is presumed valid (35 U.S.C. 282), and since that presumption includes the presumption of operability (*Metropolitan Eng. Co. v. Coe*, 78 F.2d 199, 25 USPQ 216 (D.C. Cir. 1935)), the examiner cannot express any opinion on the operability of a patent. Affidavits or declarations attacking the operability of a patent cited as a reference must rebut the presumption of operability by a preponderance of the evidence. *In re Sasse*, 629 F.2d 675, 207 USPQ 107 (CCPA 1980). In this case, the declaration has not provided any evidence to support the opinion as to why the computer 113 cannot contact the responsible user via text, instant message, for

example, through the cellular networks or other communication networks, as disclosed in Kates ([0029], [0032]).

The declaration further asserts that there is no description of the responsible party controlling the sensor through a telephone, pager, cellular phone, or the Internet, and that the disclosure is not sufficient for someone of ordinary skill in the art to produce a remote control message over the cellular network without undue experimentation. The examiner notes that the assertion in the declaration (regarding undue experimentation) seems to be a conclusory statement. The declaration is not supported by objective evidence regarding the inoperability of Kates to send instructions from the responsible party to send instructions to the monitoring computer 113 through a telephone, pager, cellular phone, or the Internet, as disclosed in Kates ([0029], [0068]). Although an affidavit or declaration which states only conclusions may have some probative value, such an affidavit or declaration may have little weight when considered in light of all the evidence of record in the application. *In re Brandstadter*, 484 F.2d 1395, 179 USPQ 286 (CCPA 1973).

Therefore, the declaration filed January 13, 2016 under 37 CFR 1.132 is insufficient to overcome the Kates reference.

Response to Arguments

3. Applicant's arguments regarding the rejection of claims 8 and 31 have been fully considered but they are not persuasive. Regarding claims 8 and 31, the applicants' asserts that in order to send instructions to the monitoring computer to send water shut off instructions to the sensor, the responsible data enters data on a monitoring

computer, and therefore, the message from the responsible party/remote unit is manually entered. The examiner respectfully disagrees. Kates does not even mention manually entering the instructions on the monitoring computer 113, as asserted by the applicants. Kates specifically teaches sending instructions to the monitoring computer 113 to send water shut off instructions to the sensor ([0029]). Sending instructions from the responsible user/remote unit 120 (i.e., via one of devices 121-123, and associated networks) to the monitoring computer will require communication via a wireless network (in the case of the responsible party using cellular telephone 123, a cellular network, fig. 1, [0023]). Therefore, Kates discloses a second digital communications message, as recited in the claims.

In response to applicants' arguments that Kates discloses one way arrows and thus the responsible party cannot send instructions to the monitoring computer, the applicant notes that the applicants' are not taking into account that Kate also explicitly discloses sending instructions from the responsible party 120 to the monitoring unit 113. In order to send the instructions, the responsible party (via cellular telephone 123) has to communicate with the monitoring computer 113, and since paragraph [0029] of Kates discloses multiple ways of communication between the computer 113 and responsible party 123 (i.e., including via cellular), the examiner maintains that the responsible user/remote unit communicates with the computer 113 via cellular communication (i.e., cellular network).

The applicants' further argue that the sensors in Kates do not control other devices. Specifically, the applicants assert that Kates does not effectively disclose how

the wireless sensors communicate with and/or control other devices. The examiner respectfully disagrees. Kates explicitly discloses that the sensor unit shuts off water supply or controls the gas valve ([0068]). This clearly discloses how the sensor unit effectively controls other devices (i.e., gas shutoff valve, water supply shutoff valve).

The examiner agrees with applicants' assertion that Thibault fails to disclose "a second status message"... after execution of the command message, as recited in claim 31. The 35 USC 103(a) rejection of claim 31 is therefore withdrawn. However, this issue is addressed in the 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, rejection below, as failing to comply with the written description requirement.

The Applicant's arguments, see remarks, filed 10/21/2015, with respect to the 103(a) rejection of claim 8 as being unpatentable over Stenman 6223029, and under 102(b) as being anticipated by Bradfield 20020198990 have been fully considered and are persuasive. The 35 USC 102(b) (of Bradfield) and 103(a) (of Stenman) rejections of claim 8 have been withdrawn.

Claim Objections

4. Claim 41-43 are objected to because of the following informalities: There are two claims numbered claim 41. The claims should be properly renumbered as claims 41-44. For the purposes of proper examination of the claims, claim 43 is rejected as claim 44, claim 42 is rejected as claim 43, and the second instance of claim 41 is rejected as claim 42. Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

(a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 31-33, 35, 36 and 38-41 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for pre-AIA the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 31 recites "...and to **send a second status message** to the cellular remote unit indicating a change in the current status of the environmental device **after execution of the command message**". A review of applicants' specification (US PGPUB 20120094638) discloses instances of the base unit sending status message to a remote control unit. Paragraphs [0039], [0043], [0048], and [0053] disclose the remote control unit sending commands to the base control unit. For example, paragraph [0053] discloses that the base control unit can respond to request and commands received from the remote control unit. However, according to the applicants' specification, the base control unit's response to the command from the remote control unit is to activate

environmental devices (see paragraph [0069] of the applicants' specification, "...operator may invoke the command from the a remote control unit 14 to the base station to activate a select device such as..."). The specification does not disclose the base control unit sending a "**second status message** to the cellular remote unit indicating a change in the current status of the environmental device after **execution of the command message**". The specification only mentions sending a status message on a periodical or event driven basis. Paragraph [0054] discloses example events for sending a status message, and they don't include "**second status message** to the cellular remote unit indicating a change in the current status of the environmental device after **execution of the command message**". Therefore, this limitation is not disclosed by the applicants' specification and thus constitutes new matter. For the purpose of proper examination of the claim, the examiner will interpret this limitation as the base control unit sending a second status message similar to the first status message, on the current status, to the cellular remote unit. Claims 32, 33, 35, and 36 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph by virtue of their dependency on claim 31.

Claim 38 recites the limitation "...wherein the command is received from the cellular unit responsive to determining that the remote control unit is within the geo-fence". According to the applicants' specification (US PGPUB 20120094638), this means that the command regarding the environmental device is received by the base unit from the cellular remote unit when it is determined that the remote unit is within a geo-fence. Paragraphs [0050] and [0052] of the applicants' specification are the

paragraphs that refer to a geo-fence, and none of these paragraphs recite a receiving the command regarding the environmental device responsive to determining that the remote device is within a geo-fence. These paragraphs disclose reporting information from the remote control unit to the base control unit based on the geo-fence, but this information reported by the remote control unit is that it has traveled a distance that exceeds a programmed distance from the base control unit. Therefore, this limitation is not disclosed by the applicants' specification and thus constitutes new matter. The examiner respectfully requests that the applicants' provide page(s), draw(s) in the instant specification that support this claim.

Claim 40 recites "...and responsive to receiving the data the base station sends the first message". This means that responsive to receiving data from an external web service, the base unit sends the first message including a representation of the environmental device. Paragraph [0061] of the applicants' limitation discloses the base control unit receiving data via web services/ the Internet, for example, from a weather service. In response to receiving the data, the base control unit takes actions such as controlling the environmental devices (e.g., causing the sprinkler device to bypass its scheduled watering cycle if the data received from the weather service forecast rains), or notifying the remote control users to make transportation or custodial decisions. However, this messages are different from the first message as defined in claim 8. The first message is **representation of environmental information from the environmental device**, sent from the base station unit. The message in paragraph [0061] of applicants' specification is control message to the environmental devices a

message to remote users that does not include a representation of the environmental information from the environmental device. Therefore, the limitation "...and responsive to receiving the data the base station sends the first message", as recited in claim 40 is not disclosed by the applicants' specification and thus constitutes new matter. The examiner respectfully requests that the applicants' provide page(s), draw(s) in the instant specification that support this claim.

Claim 41 is rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph by virtue of being dependent on claim 40.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 8, 11, 12, 14-22, 26, 27, 29-33, 36, 37, 42, and 44 are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by **Kates 20050275530**.

Regarding **claim 8**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a

cellular remote unit (cellular telephone 123, [0029]) having wireless connectivity capable of communicating from a geographically remote location ("The computer system 113 contacts a building personnel 120 using one or more of several communication systems such as, for example, cellular telephone 123, [0029]), the base unit comprising: a first communication interface configured to receive environmental information from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]) and to send a control instruction to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]); a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*); [0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions to monitoring computer 113); wherein the first message is a first digital communications message including a representation of the environmental information ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]), and wherein the second

message is a second digital communications message including a command to the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]); and a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is associated with the enter mode command for the base unit (“the sensor unit 102 receives instructions from the base unit 112 to shut off the water supply to the heater 801”, [0068]), and wherein the command for the base unit initiated by a user from the cellular remote unit (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068], also see [0029]), and wherein the control instruction to the environmental device is associated with the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 31**, Kates teaches a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer

113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location (“The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail”, [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/”computer 113”), the base unit comprising: a first communication interface configured to receive a current status from the environmental device (“the computer 113 automatically performs routine maintenance by sending commands to each sensor unit 102-106 to run a self-diagnostic and report the results”, [0047] wherein the base unit/”computer 113” receives environmental reporting status information from the environmental device/”sensor unit”) and to send a control instruction to the environmental device (“the computer 113 sends instructions to each sensor unit”, [0047]); a wireless communication interface configured to send, over a cellular communications network, a first status message relating to the current status to the cellular remote unit (“the computer 113 contacts the appropriate personnel 120”, [0032], where the computer 113 contacts the appropriate personnel 120 via cellular telephone 123, indicating a cellular communication network, [0029]) and to receive a command message from the cellular remote unit (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water

shut off instructions to the sensor unit 102”, [0068]), and to send a second status message to the cellular remote unit indicating a change in the current status of the environmental device after execution of the command message (computer 113 contacts the appropriate personnel 120 via cellular telephone 123 (i.e., over cellular network), anytime an emergency condition is detected ([0029], [0032]). There can be multiple emergency conditions (fire, smoke, water..., [0032]), all not occurring at same time, therefore second status message can be a status message regarding another emergency condition anytime they happen, either individually, or as a combination of conditions, [0029], [0032], [0033], [0068]-[0072]), wherein the first status message is a first digital communications message comprising a representation of the current status (“The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120”, [0032]), wherein the command message is a second digital communications message comprising a command to be acted upon by the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]), and wherein the second status message is a third digital communications message comprising an indication that the command has been executed by the environmental device (computer 113, sends contacts the appropriate personnel 120 via cellular telephone 123 (i.e., over cellular network), anytime an emergency condition is detected ([0029], [0032]). There can be multiple emergency conditions (fire, smoke, water...,

[0032]), all not occurring at same time, therefore second status message can be a status message regarding another emergency condition, [0029], [0032], [0068]); and a microcontroller configured to process the second message (“conventional programmable microcontroller”, [0051]), to provide the control instruction based on the command (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]), and to send the control instruction to the environmental device via the first communication interface (“the computer 113 sends instructions to each sensor unit”, [0047]).

Regarding **claim 12** as applied to claim 8, Kates further discloses wherein the command regards entering an energy conservation mode ([0069]-[0071]), and wherein the energy conservation mode is associated with multiple environmental devices ([0069]-[0071], optional temperature sensor and sensor unit 102, also see [0030]).

Regarding **claim 14** as applied to claim 8, Kates further discloses wherein the control instruction is configured to adjust a temperature of a water heater ([0068]-[0071]).

Regarding **claim 15** as applied to claim 8, Kates further discloses wherein the control instruction is configured to adjust an air handling system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 16** as applied to claim 8, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claims 17 and 33** as applied to claims 8 and 31, Kates further discloses wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 18** as applied to claim 8, Kates further discloses wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 19** as applied to claim 8, Kates further discloses wherein the command is an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 20** as applied to claim 8, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]); wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]); wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 21** as applied to claim 20, Kates further discloses wherein the second message includes an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 22** as applied to claim 20, Kates further discloses wherein the microcontroller is configured to process the environmental information into the representation ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]) and to process the command into the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 26** as applied to claim 8, Kates further discloses wherein the environmental device comprises a thermostat ([0069]-[0070]).

Regarding **claim 27** as applied to claim 8, Kates further discloses wherein the remote unit is a cellular telephone (cellular telephone 123, [0029]), and wherein the environmental device comprises a thermostat ([0051], [0069]-[0070]).

Regarding **claim 28** as applied to claim 8, Kates further discloses wherein the environmental device comprises light.

Regarding **claim 29** as applied to claim 8, Kates further discloses wherein the environmental device comprises an alarm system ([0030]).

Regarding **claims 30 and 36** as applied to claims 8 and 31, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 32**, Kates further teaches the base unit of claim 31, wherein the

first status message is sent to the cellular remote unit using a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, to communicate with the cellular telephone 123, [0029]).

Regarding **claim 37** as applied to claim 8, Kates further discloses wherein the cellular communications network includes a simple message service ([0029], where the cellular network is a simple message service network for IM, network communications, text).

Regarding **claim 43** as applied to claim 8, Kates further discloses the base unit of claim 8, wherein the command includes cellular data ([0068], responsible personnel 120 sends instructions, via cellular network, to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply).

Regarding **claim 44** as applied to claim 8, Kates further wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network ([0068], responsible personnel 120 sends instructions, via cellular network, to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply).

6. Claims 13, 28 and 42 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Sinclair 7,127,270**.

Regarding **claim 13** as applied to claim 8, Kates discloses the claimed limitation except wherein the command is associated with an icon on the remote unit. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Regarding **claim 28** as applied to claim 8, Kates discloses the claimed limitation except wherein the environmental comprises a light. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to environmental devices such as a lamp (~light) (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices such as a lamp, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates

incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Regarding **claim 42** as applied to claim 8, Kates discloses the claimed limitation wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Allowable Subject Matter

8. Claim 11 is allowed.

Claim 39 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

Application/Control Number: 13/271,203
Art Unit: 2641

Page 24

<i>Examiner-Initiated Interview Summary</i>	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) OLUMIDE T. AJIBADE AKONAI. (3) _____.

(2) Gene Pierson (67359). (4) _____.

Date of Interview: 11 February 2016.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: _____.

Issues Discussed ☐ 101 ☒ 112 ☐ 102 ☐ 103 ☒ Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 8 and 31.

Identification of prior art discussed: none.

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The examiner discussed potential amendments to claims 8 and 31 to overcome the prior art and place the application in condition for allowance, and possible 112 issues with claim 31. No agreement was reached.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	

Notice of References Cited	Application/Control No. 13/271,203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7,127,270 B2	10-2006	Sinclair; John	G08C17/02	340/12.51
	B	US-				
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	
	1								-	
	2								-	
	3								-	
	4								-	
	5								-	
	6								-	
	7								-	
	8								✓	
	9								-	
	10								-	
	11								=	
	12								✓	
	13								✓	
	14								✓	
	15								✓	
	16								✓	
	17								✓	
	18								✓	
	19								✓	
	20								✓	
	21								✓	
	22								✓	
	23								-	
	24								-	
	25								-	
	26								✓	
	27								✓	
	28								✓	
	29								✓	
	30								✓	
	31								✓	
	32								✓	
	33								✓	
	34								-	
	35								-	
	36								✓	

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	
	37								✓	
	38								✓	
	39								O	
	40								✓	
	41								✓	
	42								✓	
	43								✓	
	44								✓	

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S12	1	"13271203"	US-PGPUB; USPAT	OR	OFF	2016/02/10 11:41
S13	2	"20050275530"	US-PGPUB; USPAT	OR	OFF	2016/02/10 15:01
S14	1	"8064935".pn.	US-PGPUB; USPAT	OR	OFF	2016/02/11 11:15
S15	1	"7502656".pn.	US-PGPUB; USPAT	OR	OFF	2016/02/11 11:23
S16	4	(user client PDA STA ((mobile wireless cellular) near (terminal phone device station))) near5 (notif\$7 confirm\$5 inform\$) near5 (temperature humidity gas water smoke) same (instruct\$3 command\$1) near5 (execut\$3 implment\$3 accomplish\$3 fulfill\$3 enact\$3 perform\$3 complet\$3 realiz\$3) and (455/\$.ccls. or 340/\$.ccls.)	US-PGPUB; USPAT	OR	OFF	2016/02/11 11:45
S17	1	(golf and GPS and position and distance and augmented and reality and overhead).clm.	US-PGPUB; USPAT	OR	OFF	2016/02/11 11:47
S18	7	(user client PDA STA ((mobile wireless cellular) near (terminal phone device station))) near3 (notif\$7 confirm\$5 inform\$ message) near5 (temperature humidity gas water smoke moisture) same (instruct\$3 command\$1) near7 (execut\$3 implment\$3 accomplish\$3 fulfill\$3 enact\$3 perform\$3 complet\$3 realiz\$3) and (455/\$.ccls. or 340/\$.ccls.)	US-PGPUB; USPAT	OR	OFF	2016/02/11 12:11
S19	140	(user client PDA STA ((mobile wireless cellular) near (terminal phone device station))) near6 (notif\$7 confirm\$5 inform\$ message) with (temperature humidity gas water smoke moisture) same (instruct\$3 command\$1) near7 (execut\$3 implment\$3 accomplish\$3 fulfill\$3 enact\$3 perform\$3 complet\$3 realiz\$3)	US-PGPUB; USPAT	OR	OFF	2016/02/11 12:23
S20	65	(user client PDA STA ((mobile wireless cellular) near (terminal phone device station))) near6 (notif\$7 confirm\$5 inform\$3 message) with (temperature humidity gas water smoke moisture) same (instruct\$3 command\$1) near7 (execut\$3 implment\$3 accomplish\$3 fulfill\$3 enact\$3 perform\$3 complet\$3 realiz\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/11 12:27
S21	0	"14592638"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2016/02/11 12:48

			DERWENT; IBM_TDB			
S22	2	"20150140982".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/11 12:55
S23	1	"13271203"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/11 13:15
S24	1	S23 and (status near3 message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/11 13:16
S25	1	S14 and (status near3 message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/11 13:17
S26	7	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) PDA "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) with (screen display) with icon with (temperature humidity moisture) near3 control\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:34
S27	32	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) PDA "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:35

		communication device" laptop tablet) with (screen display) with icon with (temperature humidity moisture)				
S28	25	S27 not S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:35
S29	107	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) PDA "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) same (screen display) with icon with (temperature humidity moisture)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:37
S30	75	S29 not S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:38
S31	3	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) PDA "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) same icon with (temperature humidity moisture) and 455/420.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:43
S32	276	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) PDA "personal digital assistant" WTRU (subscriber near	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:44

		station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" labtop tablet) same icon with (temperature humidity moisture)				
S33	169	S32 not (S28 S29)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:45
S34	124	455/566.ccls. and 455/420.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:48
S35	1371	(screen display GUI "user interface") with icon\$1 same (temperature humidity moisture) with (increas\$3 decreas\$3 adjust\$4 control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:53
S36	10	S35 and 455/420.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 10:54
S37	51	S34 AND ((H04M1/72533 OR H04M2250/16 OR H04M2250/22 OR H04M2250/12 OR H04M11/007 OR G06F19/3418 OR G06F21/305 OR H04W4/001 OR H04W88/02 OR H04N21/4222 OR H04N21/4126 OR H04N21/41407).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/12 11:17

2/ 14/ 2016 7:25:06 PM

C:\Users\oajibadeakonai\Documents\EAST\Workspaces\13271203.wsp

Search Notes 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner
H04M1/72533 2250/16 2250/22 2250/12 11/007	2/14/2016	OA
G06F19/3418 21/305	2/14/2016	OA
H04W4/001 88/02	2/14/2016	OA
H04N21/4222 21/4126 21/41407	2/14/2016	OA

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	466,404.2,414.2,456.1-456.6	01/31/2013	X.Z
455	418-420	12/30/2013	X.Z
455	418,419,566	2/14/2016	OA

SEARCH NOTES		
Search Notes	Date	Examiner
See East Search Notes	02/01/2013	X.Z
Consulted Primary Examiner Olumide	01/29/2013	X.Z
See East Search Notes	11/08/2013	X.Z
See East Search Notes	12/30/2013	X.Z
See East Search Notes	03/13/2014	X.Z
Consulted with Primary Examiner Olumide Ajibade-Akonai	11/22/2014	X.Z
See East Search Notes	12/09/2014	X.Z
See East Search Notes	06/17/2015	X.Z
EAST SEARCH	2/14/2016	OA

INTERFERENCE SEARCH

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 13/271,203

Group Art Unit: 2641

Filing Date: 10/11/2011

Examiner: OLUMIDE

Applicant: Charles G. Shamoon

Confirmation No: 1022

Title: Ubiquitous Connectivity And Control Systems For Remote Locations

Mailstop: AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT UNDER 37 C.F.R. §1.111

Sir or Madam:

In response to the current Office Action, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

Amendments to the Claims begin on page 2 of this Amendment.

Remarks begin on page 10 of this Amendment.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	30	-	32	=	0
Independent	4	-	3	=	1

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

1-7. (Canceled)

8. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is for the base unit initiated by a user from the cellular remote unit, and

wherein the control instruction to the environmental device is associated with the command for the base unit.

9. (Canceled)

10. (Canceled)

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Previously Presented) The base unit of claim 8, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Previously Presented) The base unit of claim 8, wherein the command is associated with an icon on the remote unit.

14. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust a temperature of a water heater.

15. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust an air handling system.

16. (Previously Presented) The base unit of claim 8, wherein the cellular communications network includes a data bearer service.

17. (Previously Presented) The base unit of claim 8, wherein the remote unit is a mobile remote unit.

18. (Previously Presented) The base unit of claim 8, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

19. (Previously Presented) The base unit of claim 8, wherein the command is an energy conservation command associated with multiple environmental devices.

20. (Previously Presented) The base unit of claim 8,
wherein the cellular communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction;
and
wherein the command includes an environmental command.

21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.

22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

23-25. (Canceled)

26. (Canceled)

27. (Previously Presented) The base unit of claim 8, wherein the remote unit is a cellular telephone, and wherein the environmental device comprises a thermostat.

28. (Currently Amended) The base unit of claim 8, wherein the environmental device comprises at least one of a light, thermostat, or an alarm system.

29. (Canceled)

30. (Previously Presented) The base unit of claim 8, wherein the base unit and the environmental device are contained in the same enclosure.

31. (Canceled)

32. (Currently Amended) The base unit of claim ~~31-45~~, wherein the first ~~status~~ message is ~~sent to~~ received from the cellular remote unit using a data bearer service.

33. (Currently Amended) The base unit of claim ~~31~~ 45, wherein cellular remote unit is a mobile remote unit.

34. (Canceled)

35. (Canceled)

36. (Currently Amended) The base unit of claim ~~31~~45, wherein the base unit and the environmental device are contained in the same enclosure.

37. (Previously Presented) The base unit of claim 8, wherein the cellular communications network includes a simple message service.

38. (Currently Amended) The base unit of claim 8, wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is within a geo-fence, ~~wherein the command is received from the cellular remote unit responsive to determining that the remote control unit is within the geo-fence.~~

39. (Previously Presented) The base unit of claim 8, wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is outside a geo-fence, wherein the remote control unit is configured to transmit a notification via a simple message service responsive to determining that the remote control unit is outside of the geo-fence.

40. (Currently Amended) The base unit of claim 8, wherein the base unit is configured to receive data from an external web service, and responsive to receiving the data the base unit sends the control instruction ~~first message~~.

41. (Previously Presented) The base unit of claim 40, wherein the external web service is a weather service.

42. (Previously Presented) The base unit of claim 8, wherein the command includes cellular data.

43. (Previously Presented) The base unit of claim 8, wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.

44. (Previously Presented) The base unit of claim 8, wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network.

45. (New) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network;

a second communication interface configured to send a control construction from the base unit to the environmental device;

wherein the first message is a first digital communications message including a command;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface; and

wherein the command is for the base unit initiated by a user from the cellular remote unit; and

wherein the control instruction to the environmental device is associated with the command for the base unit.

46. (New) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit;

a second communication interface configured to send a control instruction from the base unit to the environmental device; and to receive an environmental status from the environmental device;

wherein the first message is a first digital communications message including a command;

wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface; and

wherein the command is for the base unit initiated by a user from the cellular remote unit; and

wherein the control instruction to the environmental device is associated with the command for the base unit.

47. (New) The base unit of claim 8 wherein the microcontroller is configured to send status information to the cellular remote on a periodic basis.

REMARKS

Favorable reconsideration of this application, in light of the preceding amendments and following remarks, is respectfully requested. Claims 8, 11, 45, and 46 are the pending independent claims in this application. No new matter is added.

Allowable Subject Matter

Applicant appreciates the indication by the Examiner that claim 11 stands allowed.

Claim Objections

Claim 41-43 are rejected to for minor informalities. These claims have been amended to overcome the minor informalities.

Rejections under 35 U.S.C. § 112

Claims 32-33, 35, 36, 38-41 are rejected under 35 USC 112 as failing to comply with the written description requirement. To expedite prosecution and without conceding to the Examiner's positions, Applicant has amended the claims to comply with the written description requirement.

Rejections under 35 U.S.C. § 102 and § 103

Claims 8, 11, 12, 14-22, 26, 27, 29-30,32,33, 37, 42, and 44 are rejected under 35 USC 102(e) as being anticipated by Kates (US 2005/0275530).

Kates discloses a system with a plurality of sensor units that communicate with a base unit 112. The base unit 112 communicates with a monitoring computer 113 through a computer network connection such as, for example, Ethernet, wireless

Ethernet, fireport, USB port, Bluetooth, etc. *See Kates, paragraph [0029]*. In Kates, when a sensor unit detects an anomalous condition, the sensor unit communicates with the appropriate repeater unit, the repeater unit forwards the data to the base unit 112, and the base unit 112 forwards the data to the computer system 113. *See Kates, paragraph [0029]*. The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personal 120. *See Kates, paragraph [0029]*.

“A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.” Verdegaal Bros. v. Union Oil Co. of California, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). See also MPEP § 2131.02. **“The identical invention must be shown in as complete detail as is contained in the ... claim.”** Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). **The absence from a prior art reference of any claimed element negates anticipation.** Kloster Speedsteel AB v. Crucible, Inc., 230 USPQ 81, 84 (Fed. Cir. 1986). (*Emphasis added*).

On page 13 of the office action the Examiner alleges that paragraphs [0068] and [0029] of Kates discloses “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,” as previously recited in claim 8. Specifically, on page 7 of the office action, the Examiner alleges that “the responsible party (via cellular telephone 123) has to communicate with monitoring computer 113, and since paragraph [0029] of Kates discloses multiple ways of communication **between** the computer and the responsible party 123 (i.e., including via cellular)...” (*Emphasis*

added.). Applicant respectfully disagrees with the Examiner's allegations on the teaching of Kates.

First, Kates does not disclose any teaching of communication **between** the computer and the responsible party. Kates clearly shows communications **from** the computer 120 **to** the responsible party, **in a one way communication**. This does not disclose communications **between** two elements. Specifically, paragraph [0029] of Kates discloses the computer **contacting** responsible personnel using one or more communications systems. This is shown and described in paragraphs [0029], [0032], [0046], [0068] and FIG. 1 of Kates.

The only disclosure of the computer receiving anything from the responsible party is in paragraph [0068] of Kates that recites "the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102." However, Kates is completely silent in regards to how the responsible party could possibly send instructions to the monitoring computer or how the computer would receive and process instructions from the responsible party. More so, from the Figures and description in Kates, it appears that Kates understood the principles of disclosing two way communications, i.e. between computer 113 and repeater unit 110, and between sensor unit 102 and repeater unit 110. Yet, Kates does not disclose any such two way communications between computer 113 and the responsible party 120.

Also, Kates understands what a wireless **interface is, what it does and how it does it**. No doubt Kates explains all three requirements for inside the structure. In Figure 1 and Paragraph [0029] of Kates discloses there is a wireless interface from the monitoring computer to the base unit, from the base unit to the repeaters from the

repeaters to the sensors and vice versa. However, Kates never discloses a wireless interface from the PC to the cell phone or the cell phone to the PC.

Second, *assuming arguendo*, Kates somehow does disclose two way communication between the responsible party and the computing device 113, Kates is completely **silent in regards to communications between cellular telephone 123 and computer 113. More so, Kates is completely silent in regards to computer 113 receiving anything from telephone 121, pager 122, cellular telephone 123, or local area network 124.** In Kates, the responsible party (a person) cannot be used to meet a cellular remote unit. As such, Kates clearly fails to **anticipate** “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from **the cellular remote unit via the cellular communications network.**” Additionally, because Kates fails to disclose how communications are possible from the remote unit to the computer, Kates cannot anticipate “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network.”

Furthermore, Kates fails to enable one of ordinary skill in the art to make the claimed subject matter without undue experimentation. MPEP 2121 states “In determining that quantum of prior art disclosure which is necessary to declare an applicant’s invention ‘not novel’ or ‘anticipated’ within section 102, the stated test is whether a reference contains an ‘enabling disclosure’...” In re Hoeksema, 399 F.2d 269, 158 USPQ 596 (CCPA 1968). **The disclosure in an assertedly anticipating reference must provide an enabling disclosure of the desired subject matter;**

mere naming or description of the subject matter is insufficient, if it cannot be produced without undue experimentation. *Elan Pharm., Inc. v. Mayo Found. For Med. Educ. & Research*, 346 F.3d 1051, 1054, 68 USPQ2d 1373, 1376 (Fed. Cir. 2003). (*Emphasis added*). For at least the reasons provided below and in the attached declaration, one of ordinary skill in the art would not have been able to make the claimed subject matter before the present invention.

In the present case, Kates fails to disclose “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from **the cellular remote unit via the cellular communications network**,” as discussed above. It would not have been obvious to assume the responsible party could communicate with computer 113 in any manner based on the disclosure in Kates.

Kates does not provide any enabling technology for communication outside of building 101 in Kates. This is clearly a system contained within the building 101 in FIG. 1 of Kates. The ability for a monitoring computer 113 to communicate with a telephone 121, pager 122, or cellular telephone 123 is dependent on one of two general methods, either a “gateway system”, or a “cellular interface”. More detail for each of these is provided in the attached declaration. However, neither of these methods is described or detailed in Kates, and therefore Kates cannot provide enabling technology. The communication through the internet is standard technology that people with ordinary skill in the art could readily provide in the 2004 time frame, *provided* the message was a standard internet protocol such as email.

Accordingly, Kates does not provide enough detail to reasonably provide “enabling technology” for a monitoring computer to perform the functions of sending and receiving voice and text communications to telephones, pagers, and cellular

telephones as alleged by the examiner. Additionally, Kates does not provide enough detail to reasonably provide “enabling technology” for a monitoring computer to be able to act on a communication from a remote person outside of the closed loop system.

Furthermore, as stated in the attached expert’s declaration, the sensors in Kates are not enabled. More specifically, the declaration states that in Kates the sensor as shown in Figure 2 does not include any actuation or control circuitry to drive a shutoff valve. Nor does Kates explain how the shutoff valve works. The cutoff valve could be electromagnetically actuated or electromechanically actuated or pneumatically actuated or some other method could be employed to control the shutoff valve. Without knowing how the sensor operates it is not possible to build a system to control it. Substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system. Accordingly, Kates does not provide enabling technology for a sensor to produce a working system.

In view of the above, the cited art fails to anticipate each and every feature disclosed in the amended independent claims. Therefore, the independent claims should be allowable, and withdrawal of these rejections is respectfully requested. The dependent claims are allowable at least base on virtue of their dependency from an allowable base claims.

Claims 13, 28, and 42 are rejected under 35 USC 103(A) as being anticipated by Kates in view of Sinclair (US 7,127,270)

Sinclair does not disclose nor overcome the above mentioned deficiencies of the cited art. Thus, for at least the reasons provided above, the independent claims should be allowable, and withdrawal of these rejections is respectfully requested. The

dependent claims are allowable at least base on virtue of their dependency from an allowable base claims.

NEW CLAIMS

New independent claims 45 and 46 have been added, and new dependent claim is added. No new matter is added. The new independent claims recite limitations where a first message is received “from the cellular remote unit via a cellular communications network.” This limitation, among others, recited in the new claims is not disclosed by the cited art.

CONCLUSION

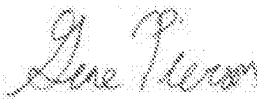
In view of the above remarks and amendments, the Applicants respectfully submit that each of the pending objections and rejections has been addressed and overcome, placing the present application in condition for allowance. A notice to that effect is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned, at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 506047 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

Pierson Intellectual Property, LLC

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Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Eugene Gordon Pierson		
Attorney Docket Number:		GSHAM.00101		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Independent Claims in Excess of 3	2201	1	210	210
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				210

Electronic Acknowledgement Receipt	
EFS ID:	25420275
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	GSHAM.00101
Receipt Date:	06-APR-2016
Filing Date:	11-OCT-2011
Time Stamp:	19:58:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$210
RAM confirmation Number	5804
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Affidavit-traversing rejectns or objectns rule 132	SHAMOON1010dec.pdf	622782 1f3f57372fbd267c896c4ba103590e946cc5568c	no	3
Warnings:					
Information:					
2	Affidavit-traversing rejectns or objectns rule 132	SHAMOON1010decre.pdf	411602 1cccd4a0102cadf41afe0a8285dd65b0a54be37f	no	4
Warnings:					
Information:					
3	Amendment/Req. Reconsideration-After Non-Final Reject	Shamoon1010OA-1.pdf	326832 bbaeaba687e81332e0fdbe45f9d41ae2dac43e35	no	18
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30334 964d102672a90ed0d20a712d77fd751fd4ea7f98	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1391550		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. New Applications Under 35 U.S.C. 111 If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. National Stage of an International Application under 35 U.S.C. 371 If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. New International Application Filed with the USPTO as a Receiving Office If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Per your request, I have reviewed patent, #7218237 with a particular focus on the unit “monitoring computer system 113”, and these phrases:

1. “The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g. direct contact, voicemail, text, etc.), and/or through the Internet and/or local area network 124 (e.g. through email, instant messages, network communications, etc.)”
 - a. *[found in Column 4 of this patent]*
2. “said monitoring computer configured to send a notification to a responsible party”
 - a. *[found in Column 17 of this patent, under item 1 of “what is claimed”]*
3. “In one embodiment, the responsible party 120 send instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102.”
 - a. *[found in Column 13 of this patent]*

Here are my comments:

General Statement:

- The patent itself does not provide any enabling technology for communication “outside the dotted line” of Figure 1. No details of how this communication is to happen are provided.
- Two broad communication capabilities are discussed:
 - Sending communication out (items #1 and #2 above), and getting communication in (item #3).
 - Acting on received information (item #3 above)
 - Each of these will be discussed for each communication type.

Communication:

- **Telephone, pager, cellular telephone:** The ability for a monitoring computer 113 to communicate with a telephone 121, pager 122, or cellular telephone 123 is dependent on one of two general methods, either a “gateway system”, or a “cellular interface”. More detail for each of these is provided below. Neither of these is described or detailed in the patent, and therefore they do not provide enabling technology.
 - “Gateway system” — this would be some external system or service, provided by a third party company such as the cellular carrier, that would convert the digital message of the monitoring computer into one of the forms specified in item #1 (direct contact, voicemail, text, etc.).
 - These Gateway systems need specialized hardware, proprietary software, and other components to perform this function.
 - No Gateway system is included in or covered by the patent.
 - “Cellular interface” — this would be some electronic component installed in or with the monitoring computer, which would provide direct cellular

capabilities. This could take the form of an interface board, a component, or something else. In 2004 relying on Kates any such component would have to be approved by the FCC since it would be using radio waves and have to be created, installed, and configured by an expert, not someone with ordinary skill. Regardless, the description of this interface is not included in or covered by the patent.

- **Internet Communication:** The communication through the internet is standard technology that people with ordinary skill in the art could readily provide in the 2004 time frame, *provided*:
 - the message was standard internet protocols such as email, and
 - standard software existed at that time to handle those protocols such as an email client.

However, the patent does not provide any detail as to the exact internet standards or software which were envisioned, so substantial experimentation would be required even of an expert to produce a working system.

PC 113 Acting on Received Information:

- In 2004 relying on Kates it would take substantial experimentation by an expert in programming and proprietary technology in order to produce a working system that would be able to make the monitoring computer ACT on an incoming message, i.e. to “send water shut off instructions”. For example let’s say the received information was in the form of a text message. A module would have to be designed, tested, and built that would receive and store the incoming message. Firmware would have to be supplied by the carrier which would not happen as the carrier’s protocol, and encryption methodology would have to be divulged and finally, custom software and firmware would have to be written to parse the text message and to build an outgoing message to the sensor directing it to shut off the supply of water to the water heater.
- No details of the programming of the desktop PC (unit 113) are included in the patent.
- Sensors in regard to paragraph 68 (Item #3)
 - There is no mention as to how the sensor operates the shutoff valve (810) that controls the water entering the water heater. The sensor as shown in figure 2 does not contain any actuation or control circuitry to drive the shutoff valve. It also does not explain how the shutoff valve works. There are any number of methods that might be employed to control the water shutoff. The cutoff valve could be electromagnetically actuated or electromechanically actuated or pneumatically actuated or some other method could be employed to control the shutoff valve.
 - Without knowing how it works it is not possible to build a system to control it. Even today there would not be an off-the-shelf device to perform the described function.
 - Substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system.

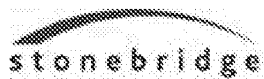
Overall Statement:

1. The patent does not provide enough detail to reasonably provide “enabling technology” for a monitoring computer to perform the functions of sending and receiving voice and text communications to telephones, pagers, and cellular telephones.
2. The patent does not provide enough detail to reasonably provide “enabling technology” for a monitoring computer to be able to act on a communication from an outside person.

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment or under 18 USC 1001.

Dated: March 28, 2016

/Dale Young/
Dale Young



Dale Young

Database Services Practice Director

Education

- BS, Computer Science, University of Texas at Austin

Specializations

- Enterprise Architect specializing in Databases and Systems
- Data Center Transition Expert (Migrations, Moving, Outsourcing, Insourcing, Cloud)
- Oracle Performance Tuning
- Latest Oracle Technology

Summary

Mr. Young has more than thirty years of professional experience providing quality information technology services in both technical and managerial roles. As an Enterprise Architect, he has designed and implemented large scale systems that integrate servers, databases, and networks. He specializes in High Availability (HA) and Disaster Recovery (DR) systems particularly around highly available databases. Mr. Young is fluent in the various Replication, Fail-Over, and Cluster options for both servers and databases and has experience in operating these services within in-house and out-sourced data center environments. Likewise, he has participated heavily in a multitude of data center migration initiatives.

As an expert in Oracle tuning, Mr. Young has both built high-performance Oracle systems from the ground up and has been called into existing systems which had serious performance issues. These issues have included fixing poorly performing SQL, diagnosing hardware problems, rearchitecting process flow, suggesting data changes such as partitioning and purging, fixing SQL to allow scaling to multiple thousands of users, and other typical performance issues.

Specializing in mission critical database systems, Mr. Young has performed capacity planning, enterprise storage configuration and administration, database administration, database analysis, design, programming, testing, implementation and production support for various database systems on multiple platforms. Additionally, he has provided database technical training services, help desk and problem resolution support, and has developed standards, policies and procedures. Mr. Young is an expert in replication technologies, high availability, and performance tuning.

Technical Skills

Certifications

- Oracle Certified DBA
- Sun Solaris Certified System Admin

Database

- Oracle 11g/10g/9i/8i/8/7/6/5/4/3/2
- Oracle RAC 11g/10g, OPS 9i/8i

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Operating Systems

- o Linux: Red Hat, Oracle Linux, SUSE
- o UNIX System V, Solaris, AIX, HP/UX
- o Cluster software: Veritas, Oracle
- o Windows Server 2000/2003/2008
- o Windows 7, Win 2000, Vista, XP, NT

Storage

- o SAN – various
- o NAS – Netapp, various
- o DAS – various; complete setup
- o Software: Veritas, some others

Development / Support Environment

- o Oracle Database, RAC, ASM, DataGuard
- o Oracle Enterprise Manager: OEM/Grid 12c/11g/10g & OEM/DBConsole
- o Oracle RMAN
- o Oracle Application Server
- o Oracle Fusion Middleware
- o Oracle Internet Directory (OID)
- o Sqlplus, Net Manager, SQL Navigator
- o MS Excel, Visio, Project
- o Data Modeling/Architecture tools: DBArtisan, ERwin, ERStudio.

Internet/Intranet

- o FTP, NFS, Disk mapping/sharing
- o Secure Shell, RDP
- o CITRIX, Shrew Soft VPN Access Mgr
- o MS VPN, Cisco VPN

Languages

- o Bourne Shell, C-Shell, Korn Shell
- o SQL – sqlplus, isql
- o Perl, Python, Java, JavaScript
- o C, C++, Fortran, Basic

Professional Activities

Dallas Oracle User's Group (Current Member)
DFW Unix User's Group (Past President & other positions)
Presenter/Speaker at DFW Unix User's Group (multiple times)
Presenter/Speaker at South Central Oracle User's Group (multiple times)

Professional Experience

Stonebridge

Focus: Database Services Practice Director

- As Database Services **Practice Director**, leads a team of DBAs to deliver high end database services in Oracle and SQL Server for large and small clients
- The team has generated **income** between **\$2M and \$4M per year** for the last ten years
- The team size has varied from 7 to 13 and they support hundreds of Oracle and SQL Server databases with sizes from hundreds of megabytes to multiple terabytes
- The team focuses on delivering Stonebridge-branded **SmartSourcesm** Database Services and **Database Services projects** focused on data center migrations, database migrations, server and database upgrades, and physical and logical database support
- Most customers have limited downtime requirements and are concerned about disaster recovery (**DR**) and/or high availability (**HA**)
- Oracle technologies used include: Real Application Cluster (RAC), DataGuard (standby/DR technology), Internet Directory (OID), Grid Control (OEM/GC), Flashback Database
- SQL Server technologies used include: replication, clustering, and log shipping

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- Personally performed or led a small team of DBAs in multiple in-depth **database assessments** at various customers
- Personally performed dozens of performance tuning assessments and remediations
- Installed Oracle RAC and DataGuard on new Solaris and IBM servers
- Installed Oracle Linux and Red Hat Linux on Intel architecture systems and then installed Oracle databases on those systems
- Participated in the Stonebridge **business development process**, including generating/delivering presentations, proposals, demos, and proofs-of-concept
- Serves as **Project Manager** following the Stonebridge Way methodology on projects within Database Services and other Stonebridge practice areas
- Serves as **Delivery Manager** to assist Stonebridge employees with Career Development and Human Resource issues

Client: American Heart Association

Engagement: Oracle Performance Tuning

- The Oracle database supporting the public-facing heart.org web site was overloaded, running between 80% and 100% CPU capacity 24x7. Mr. Young came in and within two days had identified one statement that was causing the majority of the problem, due to data which had not been properly cleaned up – five tables with multiple millions of rows of data when hundreds of rows was the norm. Once that data was cleaned up, two more statements were found and reengineered, and the usage on the system dropped to 15%-20% in general.

Client: Xerox

Engagement: OEM/GC & OID Installation (DCO replacement)

- Xerox engaged an outside consultant to install Oracle Enterprise Manager 12c and OID 11g in a DR environment. After six weeks of effort, the consultant was not able to provide an estimate of the remaining effort. Xerox engaged Mr. Young to perform this install. Starting over, the effort was completed, tested, documented, and made operational in less than four weeks.

Client: Calpine

Engagement: Database Assessment, Remediation, Outsourcing, DCO

- Led a team to perform in-depth database assessment on very large environment – hundreds of Oracle databases, dozens of SQL Server servers with hundreds of SQL Server databases
- Produced a report of over 100 pages for CIO
- Recommendations were reviewed at the Board of Directors
- Assessment led to remediation work
- Remediation work led to replacement of the Database Services Outsourcer starting Aug. 2006 and continuing to present – Stonebridge team has been providing Logical Database Support and working closely with Data Center Outsourcer Database Personnel who perform Physical Database support for last eight years
- Led and assisted team in major Data Center Outsourcing (DCO) efforts at Calpine in 2009 and 2012

Client: Mohawk

Engagement: RAC/ASM server and database configuration

- Configured new IBM servers with Oracle 10gR1 RAC and ASM in 2006 with no other cluster or file system software
- Debugged multiple issues with Oracle installation procedures on IBM as RAC, Cluster Services, and ASM were all new at the time
- Although the project went over budget, the customer was extremely pleased with the overall result and was seen as a trend-setter in their industry

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Applied Solutions, Inc.

Client: Kintetsu World Express (KWE)

Engagement: Oracle Replicated Database Design

- In 1999-2000, using Oracle 8i, was physical database data modeler for a shipping application
- Database used Oracle multi-master technology to keep data in sync between five worldwide disparate sites (Dallas, New York, London, Tokyo, Singapore), all sites read and write capable
- Worked with application developers and logical database designer to implement efficient data model for application
- Designed multiple Perl scripts to generate the correct SQL to apply physical data model changes correctly in each site

Client: Mary Kay

Engagement Focus: Solaris System Admin and Database Consultant

- Served Solaris System Administrator and Storage Administrator for large (1+ TB) data warehouse
- Configured new Sun servers
- Implemented efficient storage layout on new Sun storage and servers for fast data warehouse access
- Wrote Perl scripts to assist with data cleansing and migration
- Worked with DBA staff and contractors to implement data warehouse

The Heritage Organization

Title: CIO

- Led a team of four people in support of a Personal Wealth Management company
- Worked directly with CEO on design and improvements of CRM-style database
- Migrated existing database system from Oracle 6 on SCO Unix to Oracle 7 on Sun Solaris
- Migrated client interface from Oracle Card to Oracle Forms

E-Systems (now part of Raytheon)

Title: Senior Software Engineer

- Served in various capacities over a period of 14 years: software developer, code writer, system administrator, database administrator, manager, quality control supervisor, computer security expert, FileMaker database developer/administrator
- 10 of 14 years was located in Alice Springs, Australia
- Learned Oracle using Oracle version 2 – First Customer Release



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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	04/06/2016		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		* 30		Minus	** 32	= 0		
	Independent (37 CFR 1.16(h))		* 4		Minus	***3	= 1		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$40 =		0	
						X \$210 =		210	
						TOTAL ADD'L FEE		210	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		*		Minus	**	=		
	Independent (37 CFR 1.16(h))		*		Minus	***	=		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$ =			
						X \$ =			
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022				
109967 Pierson IP, PLLC 415 West 16th St Unit B Houston, TX 77008	7590 06/27/2016		<table border="1"><tr><td>EXAMINER</td></tr><tr><td>AJIBADE AKONAI, OLUMIDE</td></tr></table>		EXAMINER	AJIBADE AKONAI, OLUMIDE		
EXAMINER								
AJIBADE AKONAI, OLUMIDE								
			<table border="1"><tr><td>ART UNIT</td><td>PAPER NUMBER</td></tr><tr><td>2641</td><td></td></tr></table>	ART UNIT	PAPER NUMBER	2641		
ART UNIT	PAPER NUMBER							
2641								
			<table border="1"><tr><td>NOTIFICATION DATE</td><td>DELIVERY MODE</td></tr><tr><td>06/27/2016</td><td>ELECTRONIC</td></tr></table>	NOTIFICATION DATE	DELIVERY MODE	06/27/2016	ELECTRONIC	
NOTIFICATION DATE	DELIVERY MODE							
06/27/2016	ELECTRONIC							

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com

Office Action Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 04/06/2016.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☐ Claim(s) 8, 11-22, 27, 28, 30, 32, 33 and 36-47 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☒ Claim(s) 11 is/are allowed.

7) ☐ Claim(s) 8, 12-22, 27, 28, 30, 32, 33, 36-38 and 40-47 is/are rejected.

8) ☒ Claim(s) 39 is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

4) ☐ Other: _____.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Response to Amendment

The declaration under 37 CFR 1.132 filed April 6, 2016 is insufficient to overcome the rejection of claims 8, 12, 14-22, 27, 28, 30, 32, 33, 36, 37, 40, 42, and 44-47 based upon 35 USC 102(e) as being anticipated by Kates (US 2005/0275530) because:

The declaration submitted April 6, 2016 is not persuasive.

The declaration states that Kates does not provide any enabling technology for communication "outside the dotted line" of Figure 1, and no details of how this communication is to happen are provided. Specifically, the declaration states that Kates does not include or cover a gateway system or cellular interface. Furthermore, the Declaration states that Kates does not provide any detail as to the exact Internet standards or software which were envisioned for the Internet communication disclosed in Kates, therefore substantial experimentation would be required.

The evidence provided by the applicants is insufficient to support the assertions in the declaration that there is no enabling communication for communication outside the dotted line. When communication between the monitoring computer 113 and the responsible party 120 using anyone of telephone 121, pager 122, or cellular telephone 123 is disclosed in paragraphs [0005] and [0029], [0046] of Kates, it is quite clear to one of ordinary skill in the art at the time of the invention that a communication system for

cellular telephone 123 would have a cellular system (such as AMPS, 1G, 2G, 2.5G, and 3G, which are all communication standards for cellular telephones in operation before the filing data of applicants' application), and the system(s) clearly have a gateway system (e.g., base station, base station controller, HLR...) for delivering messages via cellular call or text messaging (see [0029], claims 15 and 16 of Kates), and the devices involved in voice and text messaging via using a cellular telephone to communicate with a cellular system clearly have a cellular interface. Therefore, the monitoring computer 113 communicating with the responsible party 120 via the cellular telephone can clearly use any of the enabling technologies.

Applicants' statement in the declaration that in 2004 relying on Kates on a cellular interface would have to be approved by the FCC since it would have to be created, installed, and configured by an expert, is not supported by any objective evidence from the declarant. Therefore, the declaration statement regarding the use of the cellular interface are conclusory statements unsupported by objective factual evidence.

The declaration further states that Kates does not provide any detail as the Internet standards or software which were envisioned, so substantial experimentation would be required even by an expert. The examiner notes that paragraphs [0005] and [0029] of Kates clearly discloses a standard Internet protocol message such email, and all the devices disclosed in fig. 1 of Kates (sensor unit, repeater unit, monitoring computer, anyone of telephone 121, pager 122, or cellular telephone 123) have a controller/processor working under the direction of programmed instructions/software

(see figs. 2-4, [0046]), thus providing clear evidence of devices with software for operating the device to communicate via email (i.e., monitoring computer 113 contacts the responsible party by email [0005], [0029], claim 19). Therefore, no substantial experimentation is required by an expert to produce a working system of sending email communication via the Internet as disclosed in Kates.

The declaration further states (regarding the PC acting on received information) sensors that it would take substantial experimentation by an expert in programming and proprietary technology in order to produce a working system to make the monitoring system act on an incoming message “send water shutoff instructions” and there are no details of the programming of the desktop PC.

The examiner notes that paragraph [0046] of Kates discloses a monitoring computer 113 that runs off a CD-ROM. CD-ROMS are used to distribute software to computers. Therefore, Kates provides programming details and technology for operating a monitoring computer 113 to receive an incoming message (“send water shutoff instructions”) and to act on the instructions by sending instructions to the sensor unit 102 (see [0064], [0068]). The example provided in the declaration regarding information received in the form of a text message is not supported by any factual and objective evidence, and thus simply constitutes a statement unsupported by objective factual evidence.

The declaration states that there is no mention as to how the sensor operates the shutoff valve, and without knowing how it works it is not possible to build a system to control it.

As disclosed in paragraph [0064] of Kates, the sensors can receive instructions from the monitoring computer and perform the instructions. Fig. 2 and Paragraph [0050] further disclose the sensor unit with a controller that provides control information to the sensor (thus enabling the sensor to execute/perform the instructions of paragraph [0068]). Therefore, Kates clearly discloses the sensor unit receiving instructions to shut off the water supply to the water heater, and performs the instructions to shutoff the water supply. Paragraph [0068] clearly discloses that the shutoff valve is controlled by the sensor unit 102 (i.e., sensor unit 102 operates the shutoff valve). Figure. 2 clearly discloses control circuitry (controller and transceiver 202 and 203, [0050]) for performing the instruction from the monitoring computer to shutoff the gas shutoff valve. Therefore, Kates discloses how the sensor operates the shutoff valve and provides control circuitry for said operation. Kates also discloses how the shutoff valve works (i.e., to shutoff gas supply to the water heater and/or to a furnace... [0068]). It is also therefore clear as to how the system of Kates works to perform the functions of the sensors.

The declaration states that substantial experimentation would have been required by some one of ordinary skill in the art to use the sensors in regard to paragraph [0068] of Kates. However, the declaration has provided no objective factual evidence as to why substantial experimentation will be required. Therefore, the statement in the declaration that substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system in regards to the sensors disclosed in paragraph [0068] of Kates constitutes an opinion that is not supported by any factual evidence (See MPEP 716.01(c)). Kates discloses in detail use

of sensor units as wireless sensors in a building, and to control other devices (see fig. 1, [0029]-[0030], [0032]-[0033], [0068]). Therefore, the declaration statement regarding the use of the wireless sensors are conclusory statements unsupported by objective factual evidence.

Therefore, the declaration filed April 6, 2016 under 37 CFR 1.132 is insufficient to overcome the Kates reference.

Response to Arguments

Applicant's arguments regarding the rejection of claims 8, 45, and 46 have been fully considered but they are not persuasive. Regarding claims 8, 45, and 46, the applicants' asserts that Kates does not disclose any teaching of communication between the computer and the responsible party. Specifically, the applicants argue that Kates does not disclose communications between two elements. The examiner respectfully disagrees.

Kates specifically teaches sending instructions to the monitoring computer 113 to send water shut off instructions to the sensor ([0029]). Sending instructions from the responsible user/remote unit 120 (i.e., via one of devices 121-123, and associated networks) to the monitoring computer will require communication via a wireless network (in the case of the responsible party using cellular telephone 123, a cellular network, fig. 1, [0023]). Since Kates clearly discloses communications from the computer 120 to the responsible party, the examiner maintains that Kates discloses two way communication between the computer and responsible party.

The applicant's representative further argues that Kates is silent in regards to communications between cellular telephone 123 and computer 113 and more so, Kates is completely silent in regards to computer 113 receiving anything from telephone 121, pager 122, cellular network 123, or local area network 124. The examiner respectfully disagrees. As disclosed in Kates, the responsible party 120 is contacted using any one of from telephone 121, pager 122, cellular network 123, or local area network 124 ([0029]). In response to contacting the responsible party, the responsible sends instructions to the monitoring computer ([0068]). This clearly teaches applicants' limitation of communications between cellular telephone 123 and computer 113 and more so, Kates is completely silent in regards to computer 113 receiving anything from telephone 121, pager 122, cellular network 123, or local area network 124 because the responsible party sends the instructions using anyone of telephone 121, pager 122, cellular network 123, or local area network 124 to send the instructions. Therefore, the examiner maintains that Kates teaches communications between the cellular telephone 123 and computer 113 via a wireless communications interface.

In response to applicants' arguments that Kates fails to provide any enabling technology for a communication outside a building because Kates fails to disclose a "gateway system" or "cellular interface", the examiner states that the communication between the monitoring computer 113 and the responsible party 120 using anyone of telephone 121, pager 122, or cellular telephone 123 is disclosed in paragraphs [0005] and [0029], [0046] of Kates, is quite clear to one of ordinary skill in the art at the time of the invention that a communication system for cellular telephone 123 would have a

cellular system (such as AMPS, 1G, 2G, 2.5G, and 3G, which are all communication standards for cellular telephones in operation before the filing date of applicants' application), and the system(s) clearly have a gateway system (e.g., base station, base station controller, HLR...) for delivering messages via cellular call or text messaging (see [0029], claims 15 and 16 of Kates), and the devices involved in voice and text messaging via using a cellular telephone to communicate with a cellular system clearly have a cellular interface.

In response to the applicants' arguments that the sensors are not enabled for the reasons disclosed in the declaration submitted April 6, 2016, the examiner directs the applicants' to the response to the amendment above. As disclosed in paragraph [0064] of Kates, the sensors can receive instructions from the monitoring computer and perform the instructions. Fig. 2 and Paragraph [0050] further disclose the sensor unit with a controller that provides control information to the sensor (thus enabling the sensor to execute/perform the instructions of paragraph [0068]). Therefore, Kates clearly discloses the sensor unit receiving instructions to shut off the water supply to the water heater, and performs the instructions to shutoff the water supply. Paragraph [0068] clearly discloses that the shutoff valve is controlled by the sensor unit 102 (i.e., sensor unit 102 operates the shutoff valve). Figure 2 clearly discloses control circuitry (controller and transceiver 202 and 203, [0050]) for performing the instruction from the monitoring computer to shutoff the gas shutoff valve. Therefore, Kates discloses how the sensor operates the shutoff valve and provides control circuitry for said operation. Kates also discloses how the shutoff valve works (i.e., to shutoff gas supply to the water

heater and/or to a furnace... [0068]). It is also therefore clear as to how the system of Kates works to perform the functions of the sensors.

In response to applicants' statement in the declaration that substantial experimentation would have been required by some one of ordinary skill in the art to use the sensors in regard to paragraph [0068] of Kates, the examiner notes that the declaration has provided no objective factual evidence as to why substantial experimentation will be required. Therefore, the statement in the declaration that substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system in regards to the sensors disclosed in paragraph [0068] of Kates constitutes an opinion that is not supported by any factual evidence (See MPEP 716.01(c)). Kates discloses in detail use of sensor units as wireless sensors in a building, and to control other devices (see fig. 1, [0029]-[0030], [0032]-[0033], [0068]). Therefore, the declaration statement regarding the use of the wireless sensors are conclusory statements unsupported by objective factual evidence.

The 35 USC 102(e) rejection of claims 8, 45, and 46 is therefore maintained.

Claim Objections

Claims 38, 39 and 47 are objected to because of the following informalities:
Regarding claims 38 and 39, "remote control unit" should be deleted and replaced with "cellular remote unit". While claim 8 discloses a remote cellular unit sending a first message remotely, there is not specific mention of the term "remote control unit".
Regarding claim 47, claim limitation "the cellular remote" should be replaced with "the

cellular remote unit” which properly reflects the claimed limitation recited in claim 8.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 8, 12, 14-22, 27, 28, 30, 32, 33, 36, 37, 40, 42, and 44-47 are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by **Kates 20050275530**.

Regarding **claim 8**, Kates teaches a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit (cellular telephone 123, [0029]) having wireless connectivity capable of communicating from a geographically remote location (“The computer system 113 contacts a building personnel 120 using one or more of several communication systems such as, for example, cellular telephone 123, [0029]), the base unit comprising: a first

communication interface configured to receive environmental information from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]) and to send a control instruction to the environmental device (“the computer 113 sends instructions to each sensor unit”, [0047], [0068]); a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel’s remote device*); [0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions to monitoring computer 113); wherein the first message is a first digital communications message including a representation of the environmental information (“The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120”, [0032]), and wherein the second message is a second digital communications message including a command to the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]); and a microcontroller configured to process

the second message and to send the control instruction based on the command via the first communication interface to the environmental device ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is associated with the enter mode command for the base unit (“the sensor unit 102 receives instructions from the base unit 112 to shut off the water supply to the heater 801”, [0068]), and wherein the command for the base unit initiated by a user from the cellular remote unit (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068], also see [0029]), and wherein the control instruction to the environmental device is associated with the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 45**, Kates teaches a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location (“The computer system 113 contacts a building

manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113"), the base unit comprising: a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network ([0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions (*~first message*) to monitoring computer 113 via a cellular telephone communication system); a second communication interface configured to send a control construction from the base unit to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]); wherein the first message is a first digital communications message including a command ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the command is for the base unit

initiated by a user from the cellular remote unit interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is associated with the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 46**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113"), the base unit comprising: a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network ([0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions (*~first message*) to monitoring computer 113 via a cellular telephone communication system) and to send a second

message to the cellular remote unit (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*)); a second communication interface configured to send a control instruction from the base unit to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]); and to receive an environmental status from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]); wherein the first message is a first digital communications message including a command ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); wherein the second message is a second digital communications message including the environmental status (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*)); a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface ([0068], responsible personnel 120 sends instructions to

monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the command is for the base unit initiated by a user from the cellular remote unit ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is associated with the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 12** as applied to claim 8, Kates further discloses wherein the command regards entering an energy conservation mode ([0069]-[0071]), and wherein the energy conservation mode is associated with multiple environmental devices ([0069]-[0071], optional temperature sensor and sensor unit 102, also see [0030]).

Regarding **claim 14** as applied to claim 8, Kates further discloses wherein the control instruction is configured to adjust a temperature of a water heater ([0068]-[0071]).

Regarding **claim 15** as applied to claim 8, Kates further discloses wherein the control instruction is configured to adjust an air handling system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 16** as applied to claim 8, Kates further discloses wherein the

cellular communications network includes a data bearer service (using one or more of...
cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claims 17 and 33** as applied to claims 8 and 45, Kates further discloses wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 18** as applied to claim 8, Kates further discloses wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 19** as applied to claim 8, Kates further discloses wherein the command is an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 20** as applied to claim 8, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of...
cellular network (i.e., cellular telephone) and Internet, [0029]); wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]); wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 21** as applied to claim 20, Kates further discloses wherein the second message includes an energy conservation command associated with

multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 22** as applied to claim 20, Kates further discloses wherein the microcontroller is configured to process the environmental information into the representation ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]) and to process the command into the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 27** as applied to claim 8, Kates further discloses wherein the remote unit is a cellular telephone (cellular telephone 123, [0029]), and wherein the environmental device comprises a thermostat ([0051], [0069]-[0070]).

Regarding **claim 28** as applied to claim 8, Kates further discloses wherein the environmental device comprises light at least one of a light, thermostat or an alarm system ([0030], [0069]-[0070]).

Regarding **claims 30 and 36** as applied to claims 8 and 45, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 32**, Kates further teaches the base unit of claim 45, wherein the first status message is sent to the cellular remote unit using a data bearer service (using

one or more of... cellular network (i.e., cellular telephone) and Internet, to communicate with the cellular telephone 123, [0029]).

Regarding **claim 37** as applied to claim 8, Kates further discloses wherein the cellular communications network includes a simple message service ([0029], where the cellular network is a simple message service network for IM, network communications, text).

Regarding **claim 40** as applied to claim 8, Kates further discloses wherein the base unit is configured to receive data from an external web service, and responsive to receiving the data the base station sends the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel via Internet communication service, fig. 1, [0005], [0029], [0068]).

Regarding **claim 42** as applied to claim 8, Kates further discloses the base unit of claim 8, wherein the command includes cellular data ([0068], responsible personnel 120 sends instructions, via cellular network, to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply).

Regarding **claim 44** as applied to claim 8, Kates further discloses wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network ([0068], responsible personnel 120 sends instructions, via cellular network, to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives

instructions from monitoring computer 113 through base unit 112 to shut off the water supply).

Regarding **claim 47** as applied to claim 8, Kates further discloses wherein the microcontroller is configured to send status information to the cellular remote on a periodic basis (the sensor units periodically send status information to the base unit, which the base unit uses to send reports to the responsible personnel 120, see [0007], [0029], [0009] [0033], [0046]).

6. Claims 13 and 43 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Sinclair 7,127,270**.

Regarding **claim 13** as applied to claim 8, Kates discloses the claimed limitation except wherein the command is associated with an icon on the remote unit. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Regarding **claim 43** as applied to claim 8, Kates discloses the claimed limitation wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

6. Claim 38 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Olsen, III et al 20060011721 (hereinafter Olsen)**.

Regarding **claim 38** as applied to claim 8, Kates discloses the claimed invention except wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is within a geo-fence.

However, in an analogous art, Olsen discloses a remote control unit (DIAD 34, see figs. 2, 3 and 6, [0043]) configured to determine position data of the remote control

unit, and determine when the remote control unit is within a geo-fence (the DIAD 34 determines that it is in a geo-fence zone 42 by comparing data received from GPS system 44 with information regarding the geo-fenced area, fig. 6, [0054]-[0055], [0062]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Olsen with the system of Kates by having the cellular telephone use its position to determine that it is within a geo-fence zone in order to determine the direction of the cellular telephone or entry of the cellular telephone into a specific zone/area.

6. Claim 41 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Peek et al 6,343,255 (hereinafter Peek)**.

Regarding **claim 41** as applied to claim 40, Kates discloses the claimed invention except wherein the external web service is a weather service.

However, in a similar field of endeavor, Peek discloses receiving data from an external web service, wherein the external web service is a weather service (col. 6, lines 47-64, col. 9, line 21 – col. 10, line 2).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Peek with the system of Kates by enabling the base unit to receive weather information via Internet from a weather station for the purpose of using the weather data in the generation of instructions the systems in the building.

Allowable Subject Matter

3. Claim 11 is allowed.

Claim 39 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

Notice of References Cited	Application/Control No. 13/271,203		Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI		Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-6,343,255 B1	01-2002	Peek; Sanford Christopher	G01W1/10	702/3
*	B	US-2006/0011721 A1	01-2006	Olsen; John A. III	G06Q10/06	235/385
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	06/19/2016
	1								-	-
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	5								-	-
	6								-	-
	7								-	-
	8								✓	✓
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	11								=	=
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	27								✓	✓
	28								✓	✓
	29								✓	-
	30								✓	✓
	31								✓	-
	32								✓	✓
	33								✓	✓
	34								-	-
	35								-	-
	36								✓	✓

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	06/19/2016
	37								✓	✓
	38								✓	✓
	39								○	○
	40								✓	✓
	41								✓	✓
	42								✓	✓
	43								✓	✓
	44								✓	✓
	45									✓
	46									✓
	47									✓

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S47	1	"20100273496".pn.	US-PGPUB; USPAT	OR	OFF	2016/06/17 09:22
S48	257	((((mobile wireless cellular) adj (phone terminal telephone device)) WTRU "user equipment" MT "mobile communication device" PDA MCU "mobile communication unit") with (detect\$3 determin\$5) near5 (location position) with geo\$1fence	US-PGPUB; USPAT	OR	OFF	2016/06/17 09:59
S49	2	S48 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2016/06/17 10:00
S50	459	((((mobile wireless cellular) adj (phone terminal telephone device)) WTRU "user equipment" MT "mobile communication device" PDA MCU "mobile communication unit") near5 (location position) with geo\$1fence	US-PGPUB; USPAT	OR	OFF	2016/06/17 10:00
S51	5	S50 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2016/06/17 10:01
S52	796	((((mobile wireless cellular) adj (phone terminal telephone device)) WTRU "user equipment" MT "mobile communication device" PDA MCU "mobile communication unit") with geo\$1fence	US-PGPUB; USPAT	OR	OFF	2016/06/17 10:03
S53	19	S52 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2016/06/17 10:03
S54	14	S53 not S51	US-PGPUB; USPAT	OR	OFF	2016/06/17 10:03
S55	1	"6295455".pn.	US-PGPUB; USPAT	OR	OFF	2016/06/17 10:45
S56	1	"13271203"	US-PGPUB; USPAT	OR	OFF	2016/06/17 14:47
S57	1	"20050275530".pn.	US-PGPUB; USPAT	OR	OFF	2016/06/17 15:01
S58	63	(Internet online web) same ("weather service" "weather network") with (weather temperature rain precipitation humidity) same (command\$3 instruct\$4)	US-PGPUB; USPAT	OR	OFF	2016/06/17 15:12
S59	24	S58 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2016/06/17 15:12
S60	233	(Internet online web) same ("weather service" "weather network") with (weather temperature rain precipitation humidity) same sensor\$1	US-PGPUB; USPAT	OR	OFF	2016/06/17 15:22
S61	233	(Internet online web) same ("weather service" "weather network") same (weather temperature rain precipitation humidity) same sensor\$1	US-PGPUB; USPAT	OR	OFF	2016/06/17 15:23

S62	69	S61 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2016/06/17 15:23
S63	361	(Internet online web) same ("weather service" "weather station" "weather network") same (weather temperature rain precipitation humidity) same sensor\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/17 15:58
S64	102	S63 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2016/06/17 15:58
S65	7	(Internet online web) same ("weather service" "weather station" "weather network") same (command\$3 instruct\$4) with sensor\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/17 16:42
S66	1	"20050275530".pn.	US-PGPUB; USPAT	OR	OFF	2016/06/18 07:17

6/ 19/ 2016 8:00:24 AM

C:\ Users\ oajibadeakonai\ Documents\ EAST\ Workspaces\ 13271203.wsp

Search Notes 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner
H04M1/72533 2250/16 2250/22 2250/12 11/007	2/14/2016	OA
G06F19/3418 21/305	2/14/2016	OA
H04W4/001 88/02	2/14/2016	OA
H04N21/4222 21/4126 21/41407	2/14/2016	OA

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	466,404.2,414.2,456.1-456.6	01/31/2013	X.Z
455	418-420	12/30/2013	X.Z
455	418,419,566	2/14/2016	OA

SEARCH NOTES		
Search Notes	Date	Examiner
See East Search Notes	02/01/2013	X.Z
Consulted Primary Examiner Olumide	01/29/2013	X.Z
See East Search Notes	11/08/2013	X.Z
See East Search Notes	12/30/2013	X.Z
See East Search Notes	03/13/2014	X.Z
Consulted with Primary Examiner Olumide Ajibade-Akonai	11/22/2014	X.Z
See East Search Notes	12/09/2014	X.Z
See East Search Notes	06/17/2015	X.Z
EAST SEARCH	2/14/2016	OA
EAST search	6/19/2016	OA

INTERFERENCE SEARCH

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
109967 7590 Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 08/04/2016	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com

Applicant-Initiated Interview Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) OLUMIDE T. AJIBADE AKONAI. (3) ____.

(2) Gene Pierson (67359). (4) ____.

Date of Interview: 28 July 2016.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: ____.

Issues Discussed ☐101 ☐112 ☒102 ☐103 ☐Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 8 and 46.

Identification of prior art discussed: Kates 20050275530.

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The applicants' representative discussed the differences between applicants' claims and the prior art of record, Kates. An agreement was not reached on how Kates teaches "sending instructions from the responsible party the monitoring computer" as disclosed in paragraph [0066] of Kates. The applicants' representative discussed proposed amendment to claims 8 and 46. An agreement was not reached on the proposed amendment to claim 8. The examiner agreed that the proposed amendment to claim 46 was not disclosed by the cited portions of Kates, and later notified the applicants' representative that the proposed amendment to claim 46 is supported by the applicant's specification, but further consideration and search will be required to determine allowability.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☒ Attachment

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



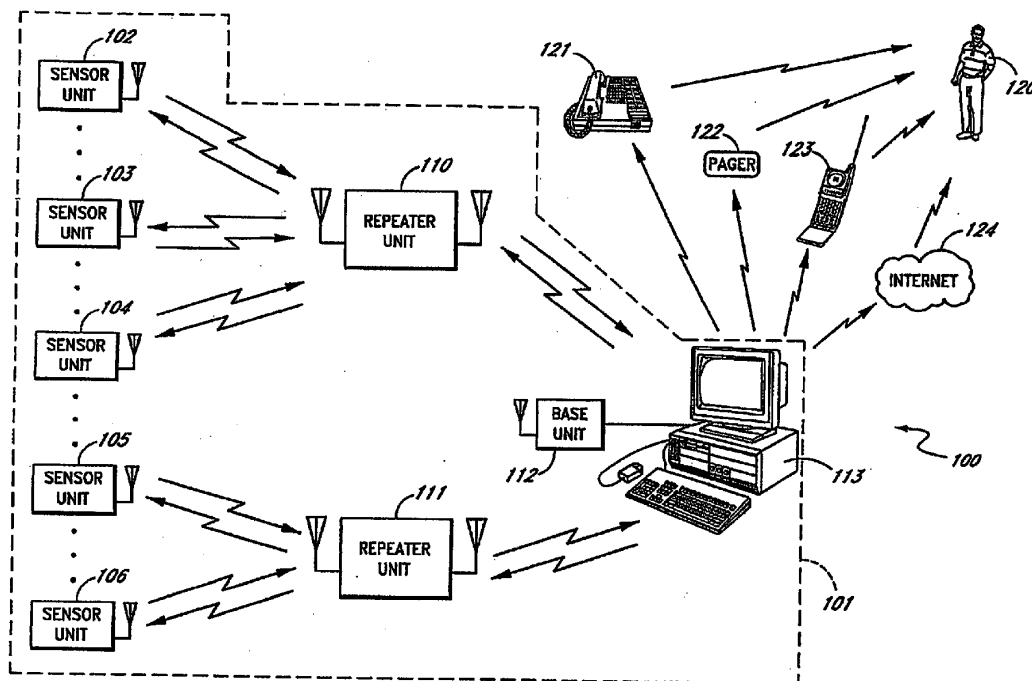
US 20050275530A1

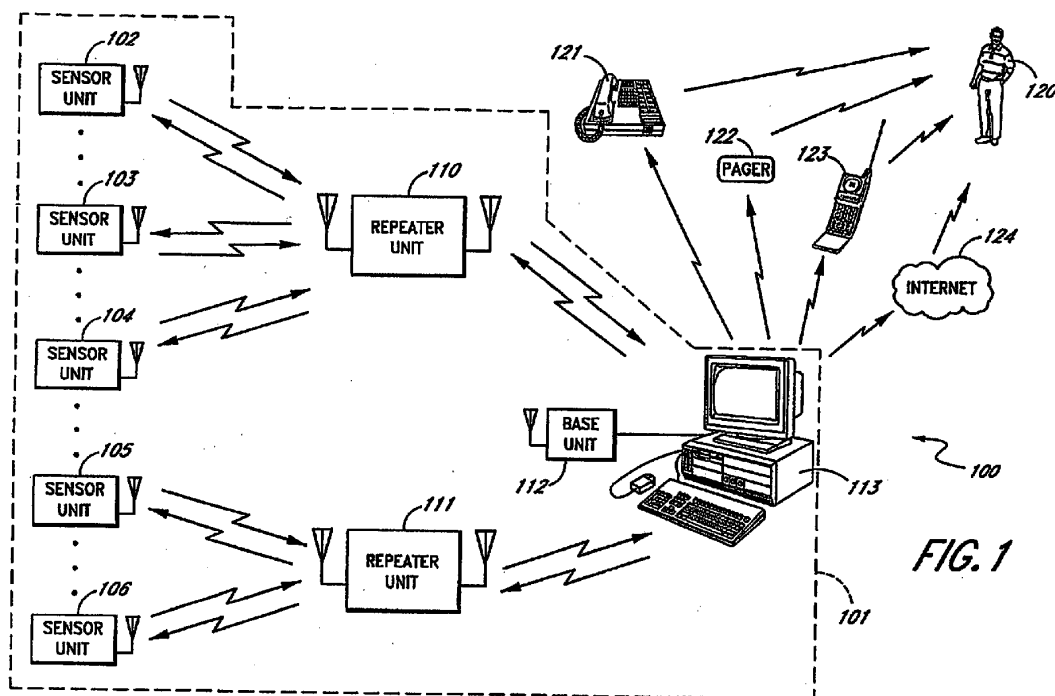
(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2005/0275530 A1****Kates**(43) **Pub. Date: Dec. 15, 2005**(54) **WIRELESS SENSOR SYSTEM**(52) **U.S. Cl. 340/539.22; 340/870.11; 375/211; 455/11.1**(76) **Inventor: Lawrence Kates, Corona Del Mar, CA (US)**

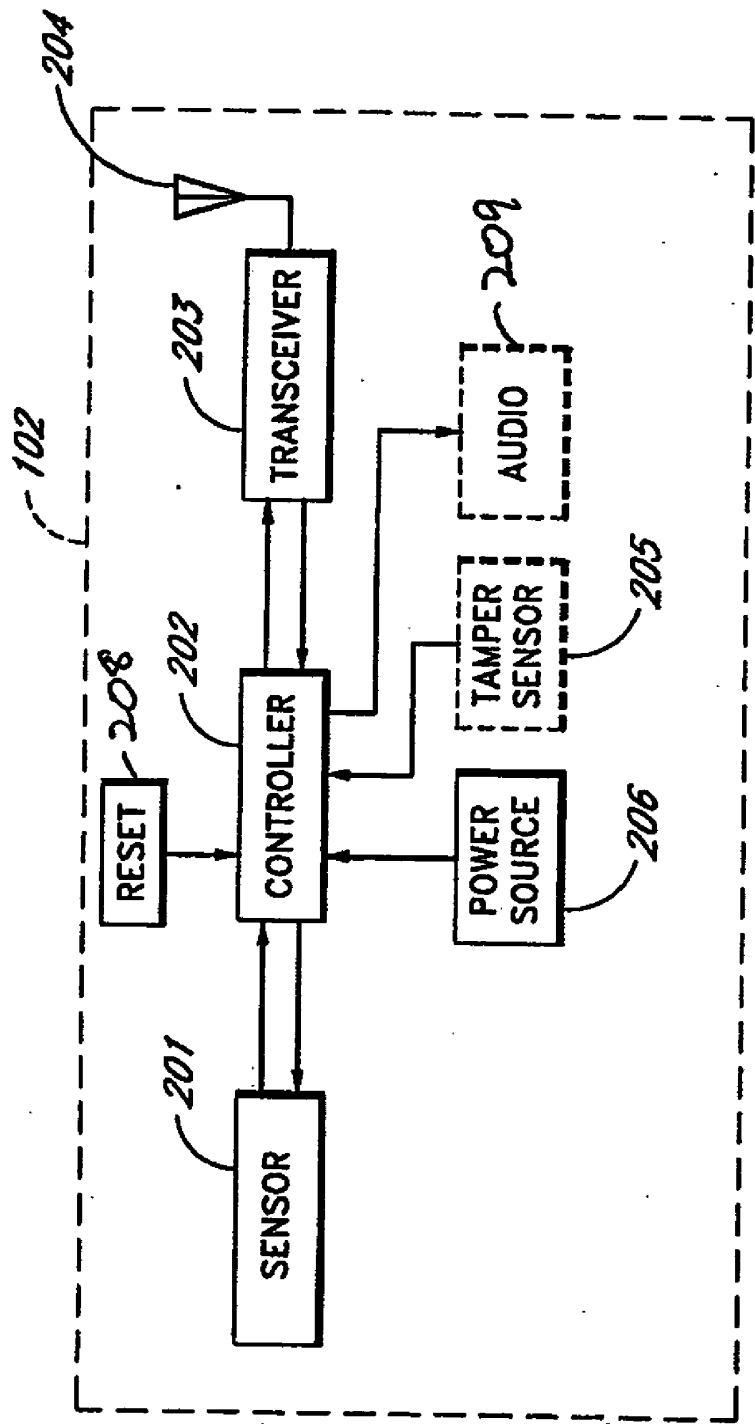
Correspondence Address:
KNOBBE MARTENS OLSON & BEAR LLP
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FOURTEENTH FLOOR
IRVINE, CA 92614 (US)

(21) **Appl. No.: 10/856,390**(22) **Filed: May 27, 2004****Publication Classification**(51) **Int. Cl.⁷ G08B 1/08**(57) **ABSTRACT**

A low cost, robust, wireless sensor system that provides an extended period of operability without maintenance is described. The system includes one or more intelligent sensor units and a base unit that can communicate with a large number of sensors. When one or more of the sensors detects an anomalous condition (e.g., smoke, fire, water, etc.) the sensor communicates with the base unit and provides data regarding the anomalous condition. The base unit can contact a supervisor or other responsible person by a plurality of techniques, such as, telephone, pager, cellular telephone, Internet, etc. In one embodiment, one or more wireless repeaters are used between the sensors and the base unit to extend the range of the system and to allow the base unit to communicate with a larger number of sensors.







SENSOR UNIT

FIG. 2

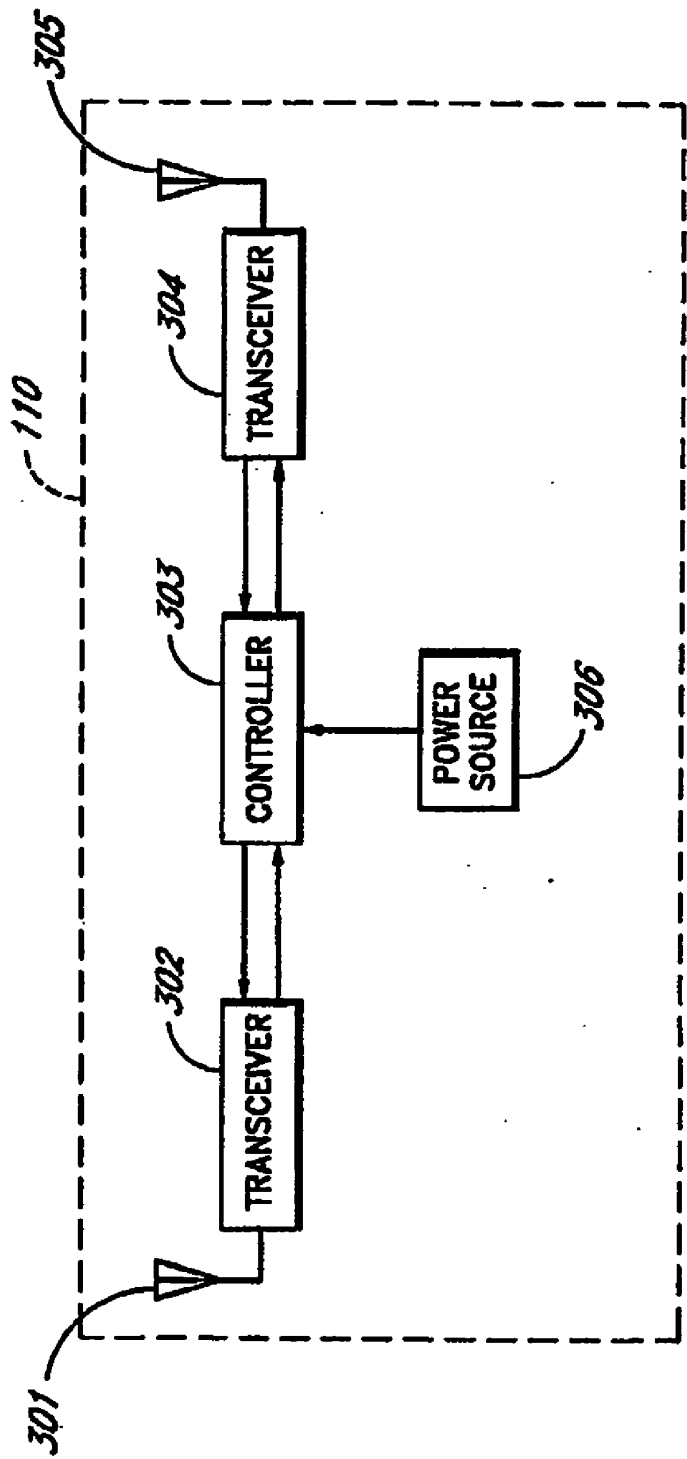


FIG. 3

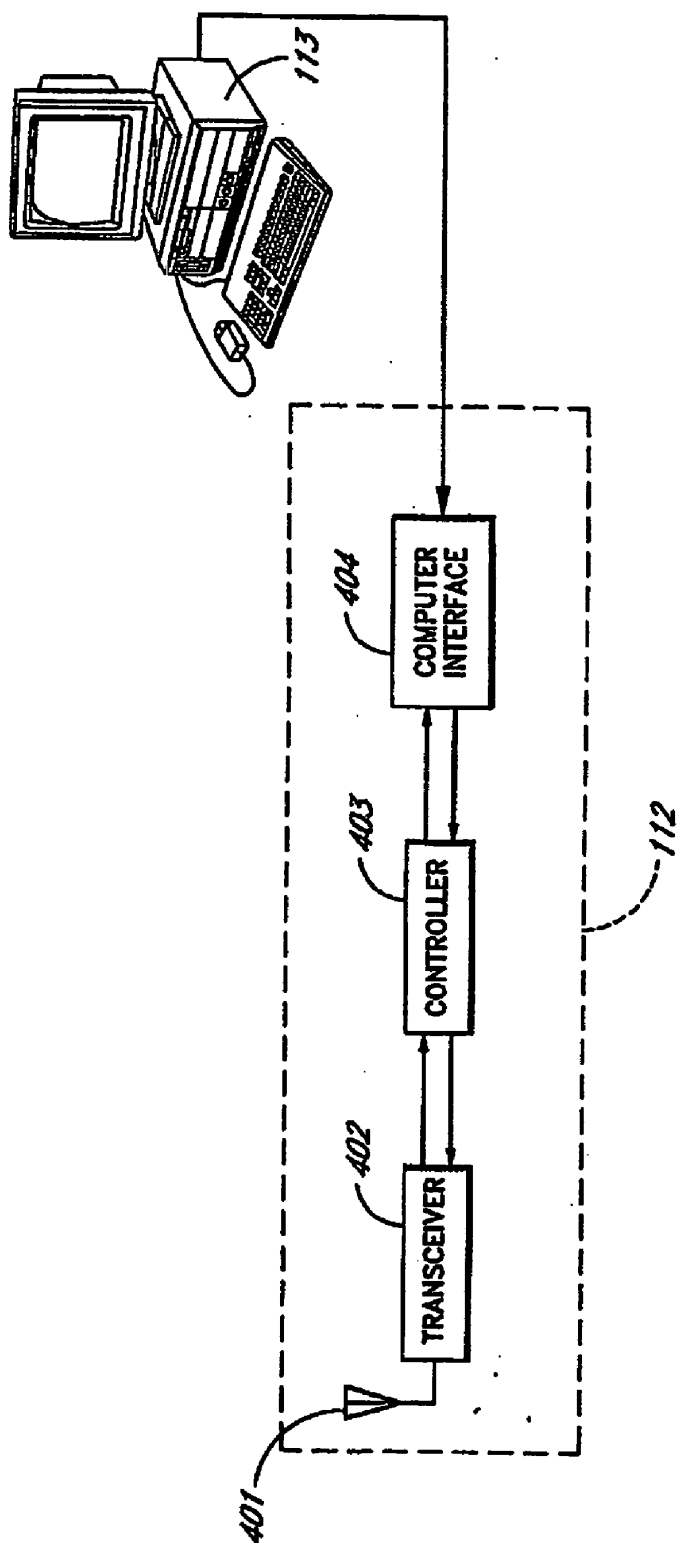


FIG. 4

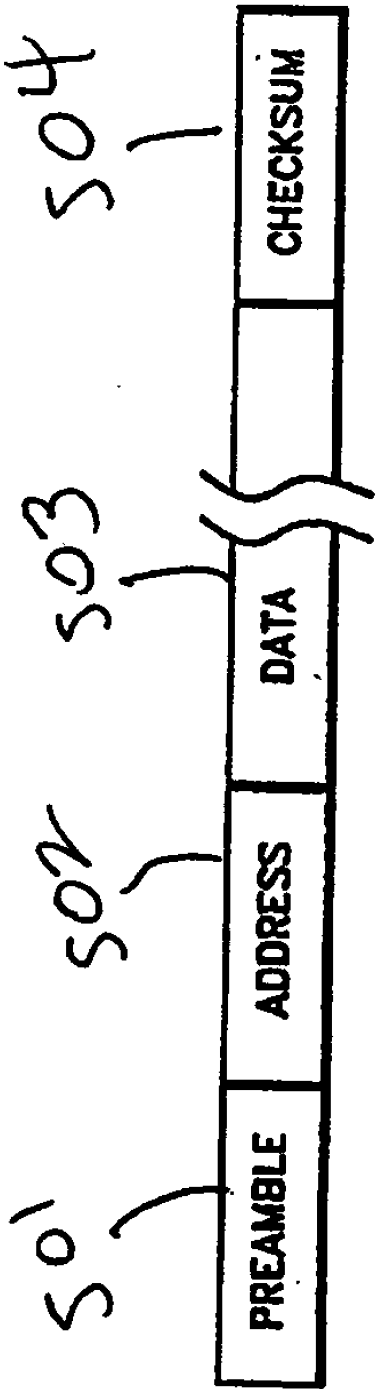


FIG. 5

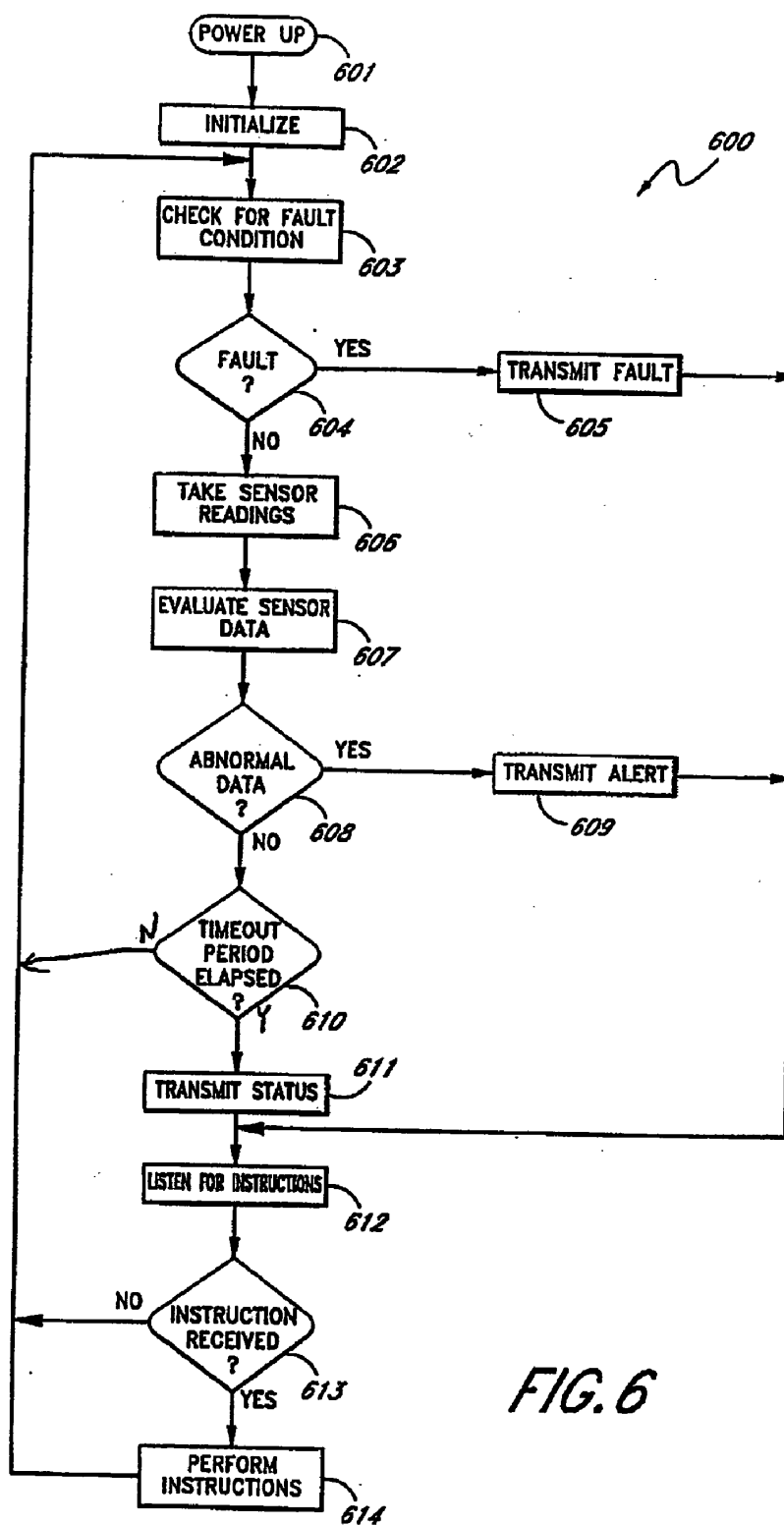


FIG. 6

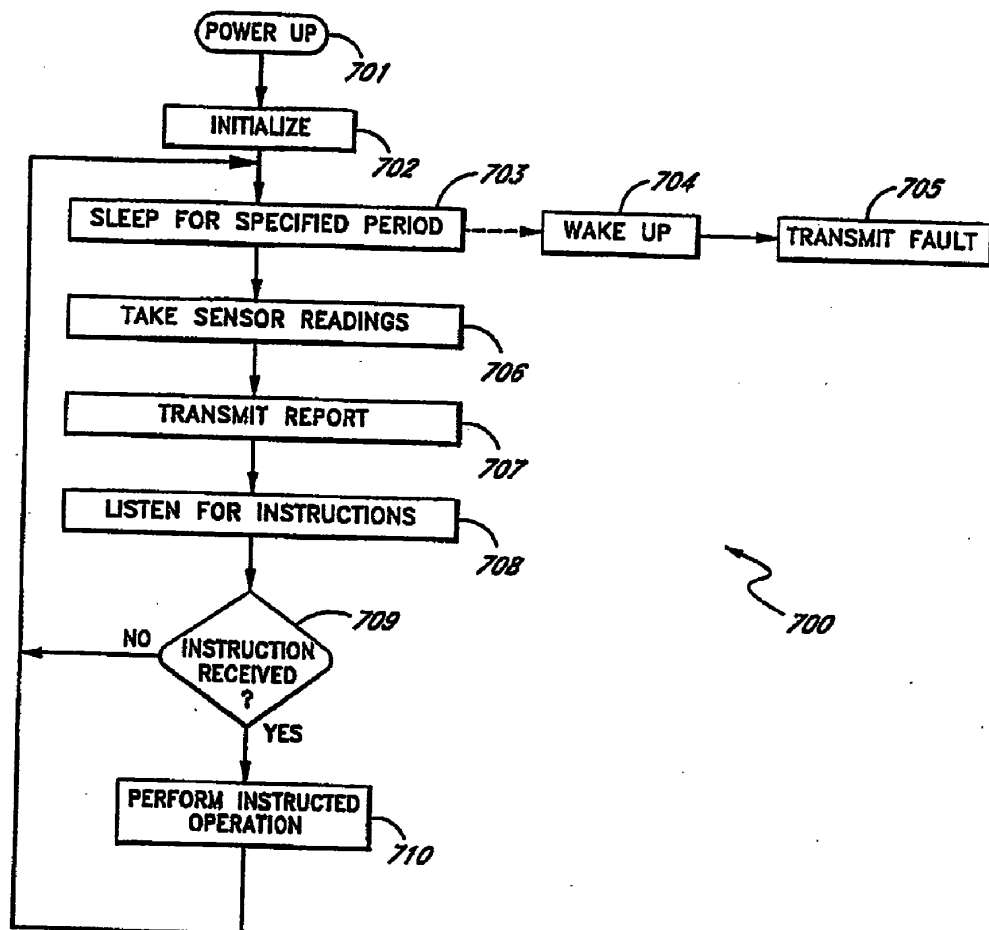


FIG. 7

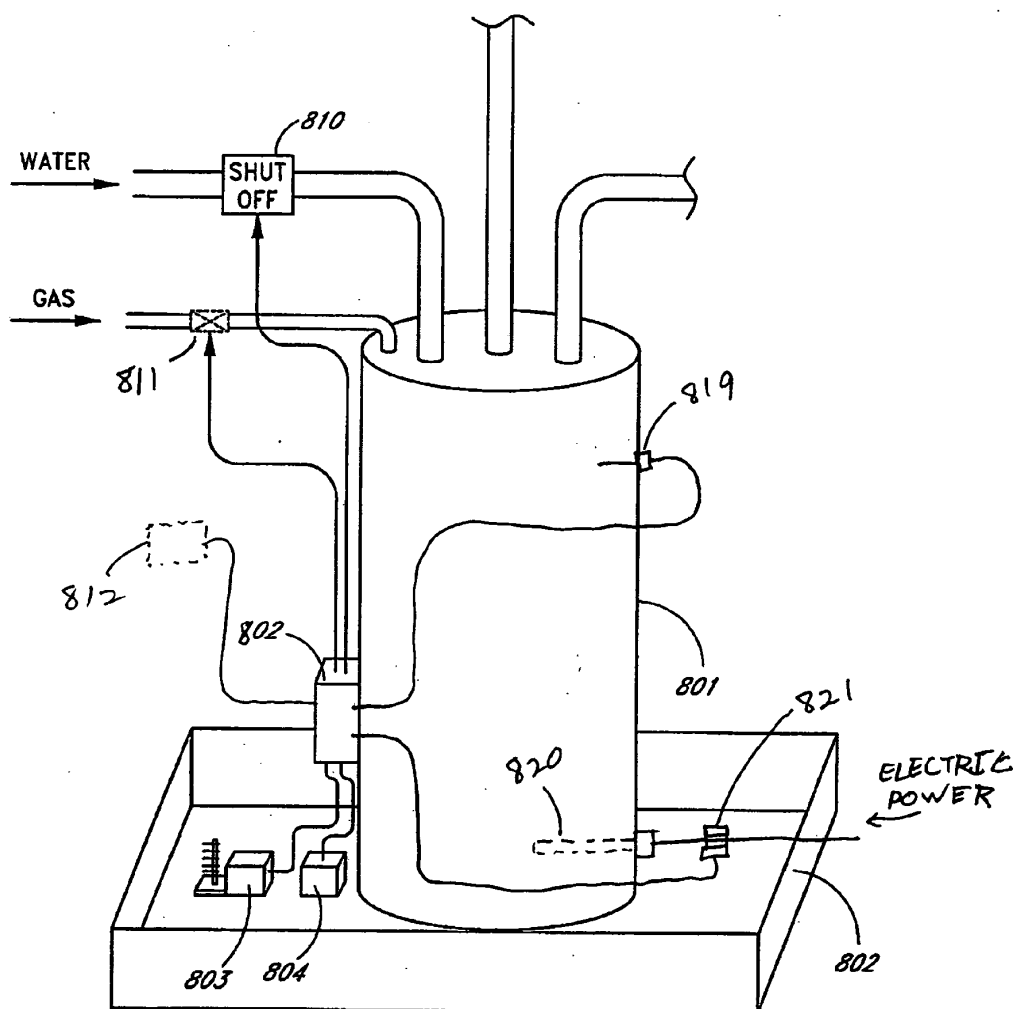


FIG. 8

WIRELESS SENSOR SYSTEM

BACKGROUND OF THE INVENTION

[0001] 1. Field of the Invention

[0002] The present invention relates to a wireless sensor system for monitoring potentially dangerous or costly conditions such as, for example, smoke, temperature, water, gas and the like in a building or vehicle, and/or for monitoring energy usage or efficiency of water heaters and the like.

[0003] 2. Description of the Related Art

[0004] Maintaining and protecting a building or complex is difficult and costly. Some conditions, such as fires, gas leaks, etc. are a danger to the occupants and the structure. Other malfunctions, such as water leaks in roofs, plumbing, etc. are not necessarily dangerous for the occupants, but can nevertheless cause considerable damage. In many cases, an adverse condition such as water leakage, fire, etc. is not detected in the early stages when the damage and/or danger is relatively small. Sensors can be used to detect such adverse conditions, but sensors present their own set of problems. For example, adding sensors, such as, for example, smoke detectors, water sensors, and the like in an existing structure can be prohibitively expensive due to the cost of installing wiring between the remote sensors and a centralized monitoring device used to monitor the sensors. Adding wiring to provide power to the sensors further increases the cost. Moreover, with regard to fire sensors, most fire departments will not allow automatic notification of the fire department based on the data from a smoke detector alone. Most fire departments require that a specific temperature rate-of-rise be detected before an automatic fire alarm system can notify the fire department. Unfortunately, detecting fire by temperature rate-of-rise generally means that the fire is not detected until it is too late to prevent major damage.

SUMMARY

[0005] The present invention solves these and other problems by providing a relatively low cost, robust, wireless sensor system that provides an extended period of operability without maintenance. The system includes one or more intelligent sensor units and a base unit that can communicate with the sensor units. When one or more of the sensor units detects an anomalous condition (e.g., smoke, fire, water, etc.) the sensor unit communicates with the base unit and provides data regarding the anomalous condition. The base unit can contact a supervisor or other responsible person by a plurality of techniques, such as, telephone, pager, cellular telephone, Internet (and/or local area network), etc. In one embodiment, one or more wireless repeaters are used between the sensor units and the base unit to extend the range of the system and to allow the base unit to communicate with a larger number of sensors.

[0006] In one embodiment, the sensor system includes a number of sensor units located throughout a building that sense conditions and report anomalous results back to a central reporting station. The sensor units measure conditions that might indicate a fire, water leak, etc. The sensor units report the measured data to the base unit whenever the sensor unit determines that the measured data is sufficiently anomalous to be reported. The base unit can notify a

responsible person such as, for example a building manager, building owner, private security service, etc. In one embodiment, the sensor units do not send an alarm signal to the central location. Rather, the sensors send quantitative measured data (e.g., smoke density, temperature rate of rise, etc.) to the central reporting station.

[0007] In one embodiment, the sensor system includes a battery-operated sensor unit that detects a condition, such as, for example, smoke, temperature, humidity, moisture, water, water temperature, carbon monoxide, natural gas, propane gas, other flammable gases, radon, poison gasses, etc. The sensor unit is placed in a building, apartment, office, residence, etc. In order to conserve battery power, the sensor is normally placed in a low-power mode. In one embodiment, while in the low power mode, the sensor unit takes regular sensor readings and evaluates the readings to determine if an anomalous condition exists. If an anomalous condition is detected, then the sensor unit "wakes up" and begins communicating with the base unit or with a repeater. At programmed intervals, the sensor also "wakes up" and sends status information to the base unit (or repeater) and then listens for commands for a period of time.

[0008] In one embodiment, the sensor unit is bi-directional and configured to receive instructions from the central reporting station (or repeater). Thus, for example, the central reporting station can instruct the sensor to: perform additional measurements; go to a standby mode; wake up; report battery status; change wake-up interval; run self-diagnostics and report results; etc. In one embodiment, the sensor unit also includes a tamper switch. When tampering with the sensor is detected, the sensor reports such tampering to the base unit. In one embodiment, the sensor reports its general health and status to the central reporting station on a regular basis (e.g., results of self-diagnostics, battery health, etc.).

[0009] In one embodiment, the sensor unit provides two wake-up modes, a first wake-up mode for taking measurements (and reporting such measurements if deemed necessary), and a second wake-up mode for listening for commands from the central reporting station. The two wake-up modes, or combinations thereof, can occur at different intervals.

[0010] In one embodiment, the sensor units use spread-spectrum techniques to communicate with the base unit and/or the repeater units. In one embodiment, the sensor units use frequency-hopping spread-spectrum. In one embodiment, each sensor unit has an Identification code (ID) and the sensor units attaches its ID to outgoing communication packets. In one embodiment, when receiving wireless data, each sensor unit ignores data that is addressed to other sensor units.

[0011] The repeater unit is configured to relay communications traffic between a number of sensor units and the base unit. The repeater units typically operate in an environment with several other repeater units and thus each repeater unit contains a database (e.g., a lookup table) of sensor IDs. During normal operation, the repeater only communicates with designated wireless sensor units whose IDs appears in the repeater's database. In one embodiment, the repeater is battery-operated and conserves power by maintaining an internal schedule of when it's designated sensors are expected to transmit and going to a low-power mode when none of its designated sensor units is scheduled to transmit.

In one embodiment, the repeater uses spread-spectrum to communicate with the base unit and the sensor units. In one embodiment, the repeater uses frequency-hopping spread-spectrum to communicate with the base unit and the sensor units. In one embodiment, each repeater unit has an ID and the repeater unit attaches its ID to outgoing communication packets that originate in the repeater unit. In one embodiment, each repeater unit ignores data that is addressed to other repeater units or to sensor units not serviced by the repeater.

[0012] In one embodiment, the repeater is configured to provide bi-directional communication between one or more sensors and a base unit. In one embodiment, the repeater is configured to receive instructions from the central reporting station (or repeater). Thus, for example, the central reporting station can instruct the repeater to: send commands to one or more sensors; go to standby mode; "wake up"; report battery status; change wake-up interval; run self-diagnostics and report results; etc.

[0013] The base unit is configured to receive measured sensor data from a number of sensor units. In one embodiment, the sensor information is relayed through the repeater units. The base unit also sends commands to the repeater units and/or sensor units. In one embodiment, the base unit includes a diskless PC that runs off of a CD-ROM, flash memory, DVD, or other read-only device, etc. When the base unit receives data from a wireless sensor indicating that there may be an emergency condition (e.g., a fire or excess smoke, temperature, water, flammable gas, etc.) the base unit will attempt to notify a responsible party (e.g., a building manager) by several communication channels (e.g., telephone, Internet, pager, cell phone, etc.). In one embodiment, the base unit sends instructions to place the wireless sensor in an alert mode (inhibiting the wireless sensor's low-power mode). In one embodiment, the base unit sends instructions to activate one or more additional sensors near the first sensor.

[0014] In one embodiment, the base unit maintains a database of the health, battery status, signal strength, and current operating status of all of the sensor units and repeater units in the wireless sensor system. In one embodiment, the base unit automatically performs routine maintenance by sending commands to each sensor to run a self-diagnostic and report the results. The base unit collects such diagnostic results. In one embodiment, the base unit sends instructions to each sensor telling the sensor how long to wait between "wakeup" intervals. In one embodiment, the base unit schedules different wakeup intervals to different sensors based on the sensor's health, battery health, location, etc. In one embodiment, the base unit sends instructions to repeaters to route sensor information around a failed repeater.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] FIG. 1 shows a sensor system that includes a plurality of sensor units that communicate with a base unit through a number of repeater units.

[0016] FIG. 2 is a block diagram of a sensor unit.

[0017] FIG. 3 is a block diagram of a repeater unit.

[0018] FIG. 4 is a block diagram of the base unit.

[0019] FIG. 5 shows one embodiment a network communication packet used by the sensor units, repeater units, and the base unit.

[0020] FIG. 6 is a flowchart showing operation of a sensor unit that provides relatively continuous monitoring.

[0021] FIG. 7 is a flowchart showing operation of a sensor unit that provides periodic monitoring.

[0022] FIG. 8 shows how the sensor system can be used to detected water leaks.

DETAILED DESCRIPTION

[0023] The entire contents of Applicant's co-pending application, application Ser. No. _____, titled "WIRELESS SENSOR SYSTEM," filed May 27, 2004 is hereby incorporated by reference.

[0024] The entire contents of Applicant's co-pending application, application Ser. No. _____, titled "WIRELESS SENSOR UNIT," filed May 27, 2004 is hereby incorporated by reference.

[0025] The entire contents of Applicant's co-pending application, application Ser. No. _____, titled "WIRELESS REPEATER FOR SENSOR SYSTEM," filed May 27, 2004 is hereby incorporated by reference.

[0026] The entire contents of Applicant's co-pending application, application Ser. No. _____, titled "WIRELESS SENSOR MONITORING UNIT," filed May 27, 2004 is hereby incorporated by reference.

[0027] The entire contents of Applicant's co-pending application, application Ser. No. _____, titled "METHOD AND APPARATUS FOR DETECTING CONDITIONS FAVORABLE FOR GROWTH OF FUNGUS," filed May 27, 2004 is hereby incorporated by reference.

[0028] The entire contents of Applicant's co-pending application, application Ser. No. _____, titled "METHOD AND APPARATUS FOR DETECTING WATER LEAKS," filed May 27, 2004 is hereby incorporated by reference.

[0029] FIG. 1 shows a sensor system 100 that includes a plurality of sensor units 102-106 that communicate with a base unit 112 through a number of repeater units 110-111. The sensor units 102-106 are located throughout a building 101. Sensor units 102-104 communicate with the repeater 110. Sensor units 105-106 communicate with the repeater 111. The repeaters 110-111 communicate with the base unit 112. The base unit 112 communicates with a monitoring computer system 113 through a computer network connection such as, for example, Ethernet, wireless Ethernet, firewire port, Universal Serial Bus (USB) port, bluetooth, etc. The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail, text, etc.), and/or through the Internet and/or local area network 124 (e.g., through email, instant messaging, network communications, etc.). In one embodiment, multiple base units 112 are provided to the monitoring computer 113. In one embodiment, the monitoring computer 113 is provided to more than one compute monitor, thus allowing more data to be displayed than can conveniently be displayed on a single monitor. In one embodiment, the monitoring computer 113 is provided to multiple monitors located in different locations, thus allowing the data from the monitoring computer 113 to be displayed in multiple locations.

[0030] The sensor units **102-106** include sensors to measure conditions, such as, for example, smoke, temperature, moisture, water, water temperature, humidity, carbon monoxide, natural gas, propane gas, security alarms, intrusion alarms (e.g., open doors, broken windows, open windows, and the like), other flammable gases, radon, poison gasses, etc. Different sensor units can be configured with different sensors or with combinations of sensors. Thus, for example, in one installation the sensor units **102** and **104** could be configured with smoke and/or temperature sensors while the sensor unit **103** could be configured with a humidity sensor.

[0031] The discussion that follows generally refers to the sensor unit **102** as an example of a sensor unit, with the understanding that the description of the sensor unit **102** can be applied to many sensor units. Similarly, the discussion generally refers to the repeater **110** by way of example, and not limitation. It will also be understood by one of ordinary skill in the art that repeaters are useful for extending the range of the sensor units **102-106** but are not required in all embodiments. Thus, for example in one embodiment, one or more of the sensor units **102-106** can communicate directly with the base unit **112** without going through a repeater. It will also be understood by one of ordinary skill in the art that **FIG. 1** shows only five sensor units (**102-106**) and two repeater units (**110-111**) for purposes of illustration and not by way of limitation. An installation in a large apartment building or complex would typically involve many sensor units and repeater units. Moreover, one of ordinary skill in the art will recognize that one repeater unit can service relatively many sensor units. In one embodiment, the sensor units **102** can communicate directly with the base unit **112** without going through a repeater **111**.

[0032] When the sensor unit **102** detects an anomalous condition (e.g., smoke, fire, water, etc.) the sensor unit communicates with the appropriate repeater unit **110** and provides data regarding the anomalous condition. The repeater unit **110** forwards the data to the base unit **112**, and the base unit **112** forwards the information to the computer **113**. The computer **113** evaluates the data and takes appropriate action. If the computer **113** determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer **113** contacts the appropriate personnel **120**. If the computer **113** determines that the situation warrants reporting, but is not an emergency, then the computer **113** logs the data for later reporting. In this way, the sensor system **100** can monitor the conditions in and around the building **101**.

[0033] In one embodiment, the sensor unit **102** has an internal power source (e.g., battery, solar cell, fuel cell, etc.). In order to conserve power, the sensor unit **102** is normally placed in a low-power mode. In one embodiment, using sensors that require relatively little power, while in the low power mode the sensor unit **102** takes regular sensor readings and evaluates the readings to determine if an anomalous condition exists. In one embodiment, using sensors that require relatively more power, while in the low power mode the sensor unit **102** takes and evaluates sensor readings at periodic intervals. If an anomalous condition is detected, then the sensor unit **102** "wakes up" and begins communicating with the base unit **112** through the repeater **110**. At programmed intervals, the sensor unit **102** also "wakes up" and sends status information (e.g., power levels, self diagnostic information, etc.) to the base unit (or repeater) and

then listens for commands for a period of time. In one embodiment, the sensor unit **102** also includes a tamper detector. When tampering with the sensor unit **102** is detected, the sensor unit **102** reports such tampering to the base unit **112**.

[0034] In one embodiment, the sensor unit **102** provides bi-directional communication and is configured to receive data and/or instructions from the base unit **112**. Thus, for example, the base unit **112** can instruct the sensor unit **102** to perform additional measurements, to go to a standby mode, to wake up, to report battery status, to change wake-up interval, to run self-diagnostics and report results, etc. In one embodiment, the sensor unit **102** reports its general health and status on a regular basis (e.g., results of self-diagnostics, battery health, etc.)

[0035] In one embodiment, the sensor unit **102** provides two wake-up modes, a first wake-up mode for taking measurements (and reporting such measurements if deemed necessary), and a second wake-up mode for listening for commands from the central reporting station. The two wake-up modes, or combinations thereof, can occur at different intervals.

[0036] In one embodiment, the sensor unit **102** use spread-spectrum techniques to communicate with the repeater unit **110**. In one embodiment, the sensor unit **102** use frequency-hopping spread-spectrum. In one embodiment, the sensor unit **102** has an address or identification (ID) code that distinguishes the sensor unit **102** from the other sensor units. The sensor unit **102** attaches its ID to outgoing communication packets so that transmissions from the sensor unit **102** can be identified by the repeater **110**. The repeater **110** attaches the ID of the sensor unit **102** to data and/or instructions that are transmitted to the sensor unit **102**. In one embodiment, the sensor unit **102** ignores data and/or instructions that are addressed to other sensor units.

[0037] In one embodiment, the sensor unit **102** includes a reset function. In one embodiment, the reset function is activated by the reset switch **208**. In one embodiment, the reset function is active for a prescribed interval of time. During the reset interval, the transceiver **203** is in a receiving mode and can receive the identification code from an external programmer. In one embodiment, the external programmer wirelessly transmits a desired identification code. In one embodiment, the identification code is programmed by an external programmer that is connected to the sensor unit **102** through an electrical connector. In one embodiment, the electrical connection to the sensor unit **102** is provided by sending modulated control signals (power line carrier signals) through a connector used to connect the power source **206**. In one embodiment, the external programmer provides power and control signals. In one embodiment, the external programmer also programs the type of sensor(s) installed in the sensor unit. In one embodiment, the identification code includes an area code (e.g., apartment number, zone number, floor number, etc.) and a unit number (e.g., unit 1, 2, 3, etc.).

[0038] In one embodiment, the sensor communicates with the repeater on the 900 MHz band. This band provides good transmission through walls and other obstacles normally found in and around a building structure. In one embodiment, the sensor communicates with the repeater on bands above and/or below the 900 MHz band. In one embodiment,

the sensor, repeater, and/or base unit listen to a radio frequency channel before transmitting on that channel or before beginning transmission. If the channel is in use, (e.g., by another device such as another repeater, a cordless telephone, etc.) then the sensor, repeater, and/or base unit changes to a different channel. In one embodiment, the sensor, repeater, and/or base unit coordinate frequency hopping by listening to radio frequency channels for interference and using an algorithm to select a next channel for transmission that avoids the interference. Thus, for example, in one embodiment, if a sensor senses a dangerous condition and goes into a continuous transmission mode, the sensor will test (e.g., listen to) the channel before transmission to avoid channels that are blocked, in use, or jammed. In one embodiment, the sensor continues to transmit data until it receives an acknowledgement from the base unit that the message has been received. In one embodiment, the sensor transmits data having a normal priority (e.g., status information) and does not look for an acknowledgement, and the sensor transmits data having elevated priority (e.g., excess smoke, temperature, etc.) until an acknowledgement is received.

[0039] The repeater unit 110 is configured to relay communications traffic between the sensor 102 (and, similarly, the sensor units 103-104) and the base unit 112. The repeater unit 110 typically operates in an environment with several other repeater units (such as the repeater unit 111 in FIG. 1) and thus the repeater unit 110 contains a database (e.g., a lookup table) of sensor unit IDs. In FIG. 1, the repeater 110 has database entries for the IDs of the sensors 102-104, and thus the sensor 110 will only communicate with sensor units 102-104. In one embodiment, the repeater 110 has an internal power source (e.g., battery, solar cell, fuel cell, etc.) and conserves power by maintaining an internal schedule of when the sensor units 102-104 are expected to transmit. In one embodiment, the repeater unit 110 goes to a low-power mode when none of its designated sensor units is scheduled to transmit. In one embodiment, the repeater 110 uses spread-spectrum techniques to communicate with the base unit 112 and with the sensor units 102-104. In one embodiment, the repeater 110 uses frequency-hopping spread-spectrum to communicate with the base unit 112 and the sensor units 102-104. In one embodiment, the repeater unit 110 has an address or identification (ID) code and the repeater unit 110 attaches its address to outgoing communication packets that originate in the repeater (that is, packets that are not being forwarded). In one embodiment, the repeater unit 110 ignores data and/or instructions that are addressed to other repeater units or to sensor units not serviced by the repeater 110.

[0040] In one embodiment, the base unit 112 communicates with the sensor unit 102 by transmitting a communication packet addressed to the sensor unit 102. The repeaters 110 and 111 both receive the communication packet addressed to the sensor unit 102. The repeater unit 111 ignores the communication packet addressed to the sensor unit 102. The repeater unit 110 transmits the communication packet addressed to the sensor unit 102 to the sensor unit 102. In one embodiment, the sensor unit 102, the repeater unit 110, and the base unit 112 communicate using Frequency-Hopping Spread Spectrum (FHSS), also known as channel-hopping.

[0041] Frequency-hopping wireless systems offer the advantage of avoiding other interfering signals and avoiding collisions. Moreover, there are regulatory advantages given to systems that do not transmit continuously at one frequency. Channel-hopping transmitters change frequencies after a period of continuous transmission, or when interference is encountered. These systems may have higher transmit power and relaxed limitations on in band spurs. FCC regulations limit transmission time on one channel to 400 milliseconds (averaged over 10-20 seconds depending on channel bandwidth) before the transmitter must change frequency. There is a minimum frequency step when changing channels to resume transmission. If there are 25 to 49 frequency channels, regulations allow effective radiated power of 24 dBm, spurs must be -20 dBc, and harmonics must be -41.2 dBc. With 50 or more channels, regulations allow effective radiated power to be up to 30 dBm.

[0042] In one embodiment, the sensor unit 102, the repeater unit 110, and the base unit 112 communicate using FHSS wherein the frequency hopping of the sensor unit 102, the repeater unit 110, and the base unit 112 are not synchronized such that at any given moment, the sensor unit 102 and the repeater unit 110 are on different channels. In such a system, the base unit 112 communicates with the sensor unit 102 using the hop frequencies synchronized to the repeater unit 110 rather than the sensor unit 102. The repeater unit 110 then forwards the data to the sensor unit using hop frequencies synchronized to the sensor unit 102. Such a system largely avoids collisions between the transmissions by the base unit 112 and the repeater unit 110.

[0043] In one embodiment, the sensor units 102-106 all use FHSS and the sensor units 102-106 are not synchronized. Thus, at any given moment, it is unlikely that any two or more of the sensor units 102-106 will transmit on the same frequency. In this manner, collisions are largely avoided. In one embodiment, collisions are not detected but are tolerated by the system 100. If a collision does occur, data lost due to the collision is effectively re-transmitted the next time the sensor units transmit sensor data. When the sensor units 102-106 and repeater units 110-111 operate in asynchronous mode, then a second collision is highly unlikely because the units causing the collisions have hopped to different channels. In one embodiment, the sensor units 102-106, repeater units 110-111, and the base unit 112 use the same hop rate. In one embodiment, the sensor units 102-106, repeater units 110-111, and the base unit 112 use the same pseudo-random algorithm to control channel hopping, but with different starting seeds. In one embodiment, the starting seed for the hop algorithm is calculated from the ID of the sensor units 102-106, repeater units 110-111, or the base unit 112.

[0044] In an alternative embodiment, the base unit communicates with the sensor unit 102 by sending a communication packet addressed to the repeater unit 110, where the packet sent to the repeater unit 110 includes the address of the sensor unit 102. The repeater unit 110 extracts the address of the sensor unit 102 from the packet and creates and transmits a packet addressed to the sensor unit 102.

[0045] In one embodiment, the repeater unit 110 is configured to provide bi-directional communication between its sensors and the base unit 112. In one embodiment, the repeater 110 is configured to receive instructions from the

base unit 110. Thus, for example, the base unit 112 can instruct the repeater to: send commands to one or more sensors; go to standby mode; “wake up”; report battery status; change wake-up interval; run self-diagnostics and report results; etc.

[0046] The base unit 112 is configured to receive measured sensor data from a number of sensor units either directly, or through the repeaters 110-111. The base unit 112 also sends commands to the repeater units 110-111 and/or to the sensor units 110-111. In one embodiment, the base unit 112 communicates with a diskless computer 113 that runs off of a CD-ROM. When the base unit 112 receives data from a sensor unit 102-111 indicating that there may be an emergency condition (e.g., a fire or excess smoke, temperature, water, etc.) the computer 113 will attempt to notify the responsible party 120.

[0047] In one embodiment, the computer 112 maintains a database of the health, power status (e.g., battery charge), and current operating status of all of the sensor units 102-106 and the repeater units 110-111. In one embodiment, the computer 113 automatically performs routine maintenance by sending commands to each sensor unit 102-106 to run a self-diagnostic and report the results. The computer 113 collects and logs such diagnostic results. In one embodiment, the computer 113 sends instructions to each sensor unit 102-106 telling the sensor how long to wait between “wake-up” intervals. In one embodiment, the computer 113 schedules different wakeup intervals to different sensor unit 102-106 based on the sensor unit’s health, power status, location, etc. In one embodiment, the computer 113 schedules different wakeup intervals to different sensor unit 102-106 based on the type of data and urgency of the data collected by the sensor unit (e.g., sensor units that have smoke and/or temperature sensors produce data that should be checked relatively more often than sensor units that have humidity or moisture sensors). In one embodiment, the base unit sends instructions to repeaters to route sensor information around a failed repeater.

[0048] In one embodiment, the computer 113 produces a display that tells maintenance personnel which sensor units 102-106 need repair or maintenance. In one embodiment, the computer 113 maintains a list showing the status and/or location of each sensor according to the ID of each sensor.

[0049] In one embodiment, the sensor units 102-106 and/or the repeater units 110-111 measure the signal strength of the wireless signals received (e.g., the sensor unit 102 measures the signal strength of the signals received from the repeater unit 110, the repeater unit 110 measures the signal strength received from the sensor unit 102 and/or the base unit 112). The sensor units 102-106 and/or the repeater units 110-111 report such signal strength measurement back to the computer 113. The computer 113 evaluates the signal strength measurements to ascertain the health and robustness of the sensor system 100. In one embodiment, the computer 113 uses the signal strength information to re-route wireless communications traffic in the sensor system 100. Thus, for example, if the repeater unit 110 goes offline or is having difficulty communicating with the sensor unit 102, the computer 113 can send instructions to the repeater unit 111 to add the ID of the sensor unit 102 to the database of the repeater unit 111 (and similarly, send instructions to the repeater unit 110 to remove the ID of the sensor unit 102),

thereby routing the traffic for the sensor unit 102 through the router unit 111 instead of the router unit 110.

[0050] FIG. 2 is a block diagram of the sensor unit 102. In the sensor unit 102, one or more sensors 201 and a transceiver 203 are provided to a controller 202. The controller 202 typically provides power, data, and control information to the sensor(s) 201 and the transceiver 202. A power source 206 is provided to the controller 202. An optional tamper sensor 205 is also provided to the controller 202. A reset device (e.g., a switch) 208 is provided to the controller 202. In one embodiment, an optional audio output device 209 is provided. In one embodiment, the sensor 201 is configured as a plug-in module that can be replaced relatively easily.

[0051] In one embodiment, the transceiver 203 is based on a TRF 6901 transceiver chip from Texas Instruments, Inc. In one embodiment, the controller 202 is a conventional programmable microcontroller. In one embodiment, the controller 202 is based on a Field Programmable Gate Array (FPGA), such as, for example, provided by Xilinx Corp. In one embodiment, the sensor 201 includes an optoelectric smoke sensor with a smoke chamber. In one embodiment, the sensor 201 includes a thermistor. In one embodiment, the sensor 201 includes a humidity sensor. In one embodiment, the sensor 201 includes a sensor, such as, for example, a water level sensor, a water temperature sensor, a carbon monoxide sensor, a moisture sensor, a water flow sensor, natural gas sensor, propane sensor, etc.

[0052] The controller 202 receives sensor data from the sensor(s) 201. Some sensors 201 produce digital data. However, for many types of sensors 201, the sensor data is analog data. Analog sensor data is converted to digital format by the controller 202. In one embodiment, the controller evaluates the data received from the sensor(s) 201 and determines whether the data is to be transmitted to the base unit 112. The sensor unit 102 generally conserves power by not transmitting data that falls within a normal range. In one embodiment, the controller 202 evaluates the sensor data by comparing the data value to a threshold value (e.g., a high threshold, a low threshold, or a high-low threshold). If the data is outside the threshold (e.g., above a high threshold, below a low threshold, outside an inner range threshold, or inside an outer range threshold), then the data is deemed to be anomalous and is transmitted to the base unit 112. In one embodiment, the data threshold is programmed into the controller 202. In one embodiment, the data threshold is programmed by the base unit 112 by sending instructions to the controller 202. In one embodiment, the controller 202 obtains sensor data and transmits the data when commanded by the computer 113.

[0053] In one embodiment, the tamper sensor 205 is configured as a switch that detects removal of or tampering with the sensor unit 102.

[0054] FIG. 3 is a block diagram of the repeater unit 110. In the repeater unit 110, a first transceiver 302 and a second transceiver 305 are provided to a controller 303. The controller 303 typically provides power, data, and control information to the transceivers 302, 304. A power source 306 is provided to the controller 303. An optional tamper sensor (not shown) is also provided to the controller 303.

[0055] When relaying sensor data to the base unit 112, the controller 303 receives data from the first transceiver 303

and provides the data to the second transceiver 304. When relaying instructions from the base unit 112 to a sensor unit, the controller 303 receives data from the second transceiver 304 and provides the data to the first transceiver 302. In one embodiment, the controller 303 conserves power by powering-down the transceivers 302, 304 during periods when the controller 303 is not expecting data. The controller 303 also monitors the power source 306 and provides status information, such as, for example, self-diagnostic information and/or information about the health of the power source 306, to the base unit 112. In one embodiment, the controller 303 sends status information to the base unit 112 at regular intervals. In one embodiment, the controller 303 sends status information to the base unit 112 when requested by the base unit 112. In one embodiment, the controller 303 sends status information to the base unit 112 when a fault condition (e.g., battery low) is detected.

[0056] In one embodiment, the controller 303 includes a table or list of identification codes for wireless sensor units 102. The repeater 303 forwards packets received from, or sent to, sensor units 102 in the list. In one embodiment, the repeater 110 receives entries for the list of sensor units from the computer 113. In one embodiment, the controller 303 determines when a transmission is expected from the sensor units 102 in the table of sensor units and places the repeater 110 (e.g., the transceivers 302, 304) in a low-power mode when no transmissions are expected from the transceivers on the list. In one embodiment, the controller 303 recalculates the times for low-power operation when a command to change reporting interval is forwarded to one of the sensor units 102 in the list (table) of sensor units or when a new sensor unit is added to the list (table) of sensor units.

[0057] FIG. 4 is a block diagram of the base unit 112. In the base unit 112, a transceiver 402 and a computer interface 404 are provided to a controller 403. The controller 303 typically provides data and control information to the transceivers 402 and to the interface. The interface 402 is provided to a port on the monitoring computer 113. The interface 402 can be a standard computer data interface, such as, for example, Ethernet, wireless Ethernet, firewire port, Universal Serial Bus (USB) port, bluetooth, etc.

[0058] FIG. 5 shows one embodiment a communication packet 500 used by the sensor units, repeater units, and the base unit. The packet 500 includes a preamble portion 501, an address (or ID) portion 502, a data payload portion 503, and an integrity portion 504. In one embodiment, the integrity portion 504 includes a checksum. In one embodiment, the sensor units 102-106, the repeater units 110-111, and the base unit 112 communicate using packets such as the packet 500. In one embodiment, the packets 500 are transmitted using FHSS.

[0059] In one embodiment, the data packets that travel between the sensor unit 102, the repeater unit 111, and the base unit 112 are encrypted. In one embodiment, the data packets that travel between the sensor unit 102, the repeater unit 111, and the base unit 112 are encrypted and an authentication code is provided in the data packet so that the sensor unit 102, the repeater unit, and/or the base unit 112 can verify the authenticity of the packet.

[0060] In one embodiment the address portion 502 includes a first code and a second code. In one embodiment, the repeater 111 only examines the first code to determine if

the packet should be forwarded. Thus, for example, the first code can be interpreted as a building (or building complex) code and the second code interpreted as a subcode (e.g., an apartment code, area code, etc.). A repeater that uses the first code for forwarding thus forwards packets having a specified first code (e.g., corresponding to the repeater's building or building complex). Thus alleviates the need to program a list of sensor units 102 into a repeater, since a group of sensors in a building will typically all have the same first code but different second codes. A repeater so configured, only needs to know the first code to forward packets for any repeater in the building or building complex. This does, however, raise the possibility that two repeaters in the same building could try to forward packets for the same sensor unit 102. In one embodiment, each repeater waits for a programmed delay period before forwarding a packet. Thus reducing the chance of packet collisions at the base unit (in the case of sensor unit to base unit packets) and reducing the chance of packet collisions at the sensor unit (in the case of base unit to sensor unit packets). In one embodiment, a delay period is programmed into each repeater. In one embodiment, delay periods are pre-programmed onto the repeater units at the factory or during installation. In one embodiment, a delay period is programmed into each repeater by the base unit 112. In one embodiment, a repeater randomly chooses a delay period. In one embodiment, a repeater randomly chooses a delay period for each forwarded packet. In one embodiment, the first code is at least 6 digits. In one embodiment, the second code is at least 5 digits.

[0061] In one embodiment, the first code and the second code are programmed into each sensor unit at the factory. In one embodiment, the first code and the second code are programmed when the sensor unit is installed. In one embodiment, the base unit 112 can re-program the first code and/or the second code in a sensor unit.

[0062] In one embodiment, collisions are further avoided by configuring each repeater unit 111 to begin transmission on a different frequency channel. Thus, if two repeaters attempt to begin transmission at the same time, the repeaters will not interfere with each other because the transmissions will begin on different channels (frequencies).

[0063] FIG. 6 is a flowchart showing one embodiment of the operation of the sensor unit 102 wherein relatively continuous monitoring is provided. In FIG. 6, a power up block 601 is followed by an initialization block 602. After initialization, the sensor unit 102 checks for a fault condition (e.g., activation of the tamper sensor, low battery, internal fault, etc.) in a block 603. A decision block 604 checks the fault status. If a fault has occurred, then the process advances to a block 605 where the fault information is transmitted to the repeater 110 (after which, the process advances to a block 612); otherwise, the process advances to a block 606. In the block 606, the sensor unit 102 takes a sensor reading from the sensor(s) 201. The sensor data is subsequently evaluated in a block 607. If the sensor data is abnormal, then the process advances to a transmit block 609 where the sensor data is transmitted to the repeater 110 (after which, the process advances to a block 612); otherwise, the process advances to a timeout decision block 610. If the timeout period has not elapsed, then the process returns to the fault-check block 603; otherwise, the process advances to a transmit status block 611 where normal status information is transmitted to the repeater 110. In one embodiment, the

normal status information transmitted is analogous to a simple "ping" which indicates that the sensor unit 102 is functioning normally. After the block 611, the process proceeds to a block 612 where the sensor unit 102 momentarily listens for instructions from the monitoring computer 113. If an instruction is received, then the sensor unit 102 performs the instructions, otherwise, the process returns to the status check block 603. In one embodiment, transceiver 203 is normally powered down. The controller 202 powers up the transceiver 203 during execution of the blocks 605, 609, 611, and 612. The monitoring computer 113 can send instructions to the sensor unit 102 to change the parameters used to evaluate data used in block 607, the listen period used in block 612, etc.

[0064] Relatively continuous monitoring, such as shown in FIG. 6, is appropriate for sensor units that sense relatively high-priority data (e.g., smoke, fire, carbon monoxide, flammable gas, etc.). By contrast, periodic monitoring can be used for sensors that sense relatively lower priority data (e.g., humidity, moisture, water usage, etc.). FIG. 7 is a flowchart showing one embodiment of operation of the sensor unit 102 wherein periodic monitoring is provided. In FIG. 7, a power up block 701 is followed by an initialization block 702. After initialization, the sensor unit 102 enters a low-power sleep mode. If a fault occurs during the sleep mode (e.g., the tamper sensor is activated), then the process enters a wake-up block 704 followed by a transmit fault block 705. If no fault occurs during the sleep period, then when the specified sleep period has expired, the process enters a block 706 where the sensor unit 102 takes a sensor reading from the sensor(s) 201. The sensor data is subsequently sent to the monitoring computer 113 in a report block 707. After reporting, the sensor unit 102 enters a listen block 708 where the sensor unit 102 listens for a relatively short period of time for instructions from monitoring computer 113. If an instruction is received, then the sensor unit 102 performs the instructions, otherwise, the process returns to the sleep block 703. In one embodiment, the sensor 201 and transceiver 203 are normally powered down. The controller 202 powers up the sensor 201 during execution of the block 706. The controller 202 powers up the transceiver during execution of the blocks 705, 707, and 708. The monitoring computer 113 can send instructions to the sensor unit 102 to change the sleep period used in block 703, the listen period used in block 708, etc.

[0065] In one embodiment, the sensor unit transmits sensor data until a handshaking-type acknowledgement is received. Thus, rather than sleep if no instructions or acknowledgements are received after transmission (e.g., after the decision block 613 or 709) the sensor unit 102 retransmits its data and waits for an acknowledgement. The sensor unit 102 continues to transmit data and wait for an acknowledgement until an acknowledgement is received. In one embodiment, the sensor unit accepts an acknowledgement from a repeater unit 111 and it then becomes the responsibility of the repeater unit 111 to make sure that the data is forwarded to the base unit 112. In one embodiment, the repeater unit 111 does not generate the acknowledgement, but rather forwards an acknowledgement from the base unit 112 to the sensor unit 102. The two-way communication ability of the sensor unit 102 provides the capability for the base unit 112 to control the operation of the sensor

unit 102 and also provides the capability for robust handshaking-type communication between the sensor unit 102 and the base unit 112.

[0066] Regardless of the normal operating mode of the sensor unit 102 (e.g., using the Flowcharts of FIGS. 6, 7, or other modes) in one embodiment, the monitoring computer 113 can instruct the sensor unit 102 to operate in a relatively continuous mode where the sensor repeatedly takes sensor readings and transmits the readings to the monitoring computer 113. Such a mode would can be used, for example, when the sensor unit 102 (or a nearby sensor unit) has detected a potentially dangerous condition (e.g., smoke, rapid temperature rise, etc.)

[0067] FIG. 8 shows the sensor system used to detect water leaks. In one embodiment, the sensor unit 102 includes a water level sensor and 803 and/or a water temperature sensor 804. The water level sensor 803 and/or water temperature sensor 804 are placed, for example, in a tray underneath a water heater 801 in order to detect leaks from the water heater 801 and thereby prevent water damage from a leaking water heater. In one embodiment, a temperature sensor is also provide to measure temperature near the water heater. The water level sensor can also be placed under a sink, in a floor sump, etc. In one embodiment, the severity of a leak is ascertained by the sensor unit 102 (or the monitoring computer 113) by measuring the rate of rise in the water level. When placed near the hot water tank 801, the severity of a leak can also be ascertained at least in part by measuring the temperature of the water. In one embodiment, a first water flow sensor is placed in an input water line for the hot water tank 801 and a second water flow sensor is placed in an output water line for the hot water tank. Leaks in the tank can be detected by observing a difference between the water flowing through the two sensors.

[0068] In one embodiment, a remote shutoff valve 810 is provided, so that the monitoring system 100 can shutoff the water supply to the water heater when a leak is detected. In one embodiment, the shutoff valve is controlled by the sensor unit 102. In one embodiment, the sensor unit 102 receives instructions from the base unit 112 to shut off the water supply to the heater 801. In one embodiment, the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102. Similarly, in one embodiment, the sensor unit 102 controls a gas shutoff valve 811 to shut off the gas supply to the water heater 801 and/or to a furnace (not shown) when dangerous conditions (such as, for example, gas leaks, carbon monoxide, etc.) are detected. In one embodiment, a gas detector 812 is provided to the sensor unit 102. In one embodiment, the gas detector 812 measures carbon monoxide. In one embodiment, the gas detector 812 measures flammable gas, such as, for example, natural gas or propane.

[0069] In one embodiment, an optional temperature sensor 818 is provided to measure stack temperature. Using data from the temperature sensor 818, the sensor unit 102 reports conditions, such as, for example, excess stack temperature. Excess stack temperature is often indicative of poor heat transfer (and thus poor efficiency) in the water heater 818.

[0070] In one embodiment, an optional temperature sensor 819 is provided to measure temperature of water in the water heater 810. Using data from the temperature sensor 819, the

sensor unit **102** reports conditions, such as, for example, over-temperature or under-temperature of the water in the water heater.

[0071] In one embodiment, an optional current probe **821** is provided to measure electric current provided to a heating element **820** in an electric water heater. Using data from the current probe **821**, the sensor unit **102** reports conditions, such as, for example, no current (indicating a burned-out heating element **820**). An over-current condition often indicates that the heating element **820** is encrusted with mineral deposits and needs to be replaced or cleaned. By measuring the current provided to the water heater, the monitoring system can measure the amount of energy provided to the water heater and thus the cost of hot water, and the efficiency of the water heater.

[0072] In one embodiment, the sensor **803** includes a moisture sensor. Using data from the moisture sensor, the sensor unit **102** reports moisture conditions, such as, for example, excess moisture that would indicate a water leak, excess condensation, etc.

[0073] In one embodiment, the sensor unit **102** is provided to a moisture sensor (such as the sensor **803**) located near an air conditioning unit. Using data from the moisture sensor, the sensor unit **102** reports moisture conditions, such as, for example, excess moisture that would indicate a water leak, excess condensation, etc.

[0074] In one embodiment, the sensor **201** includes a moisture sensor. The moisture sensor can be placed under a sink or a toilet (to detect plumbing leaks) or in an attic space (to detect roof leaks).

[0075] Excess humidity in a structure can cause severe problems such as rotting, growth of molds, mildew, and fungus, etc. (hereinafter referred to generically as fungus). In one embodiment, the sensor **201** includes a humidity sensor. The humidity sensor can be placed under a sink, in an attic space, etc. to detect excess humidity (due to leaks, condensation, etc.). In one embodiment, the monitoring computer **113** compares humidity measurements taken from different sensor units in order to detect areas that have excess humidity. Thus for example, the monitoring computer **113** can compare the humidity readings from a first sensor unit **102** in a first attic area, to a humidity reading from a second sensor unit **102** in a second area. For example, the monitoring computer can take humidity readings from a number of attic areas to establish a baseline humidity reading and then compare the specific humidity readings from various sensor units to determine if one or more of the units are measuring excess humidity. The monitoring computer **113** would flag areas of excess humidity for further investigation by maintenance personnel. In one embodiment, the monitoring computer **113** maintains a history of humidity readings for various sensor units and flags areas that show an unexpected increase in humidity for investigation by maintenance personnel.

[0076] In one embodiment, the monitoring system **100** detects conditions favorable for fungus (e.g., mold, mildew, fungus, etc.) growth by using a first humidity sensor located in a first building area to produce first humidity data and a second humidity sensor located in a second building area to produce second humidity data. The building areas can be, for example, areas near a sink drain, plumbing fixture, plumbing, attic areas, outer walls, a bilge area in a boat, etc.

[0077] The monitoring station **113** collects humidity readings from the first humidity sensor and the second humidity sensor and indicates conditions favorable for fungus growth by comparing the first humidity data and the second humidity data. In one embodiment, the monitoring station **113** establishes a baseline humidity by comparing humidity readings from a plurality of humidity sensors and indicates possible fungus growth conditions in the first building area when at least a portion of the first humidity data exceeds the baseline humidity by a specified amount. In one embodiment, the monitoring station **113** establishes a baseline humidity by comparing humidity readings from a plurality of humidity sensors and indicates possible fungus growth conditions in the first building area when at least a portion of the first humidity data exceeds the baseline humidity by a specified percentage.

[0078] In one embodiment, the monitoring station **113** establishes a baseline humidity history by comparing humidity readings from a plurality of humidity sensors and indicates possible fungus growth conditions in the first building area when at least a portion of the first humidity data exceeds the baseline humidity history by a specified amount over a specified period of time. In one embodiment, the monitoring station **113** establishes a baseline humidity history by comparing humidity readings from a plurality of humidity sensors over a period of time and indicates possible fungus growth conditions in the first building area when at least a portion of the first humidity data exceeds the baseline humidity by a specified percentage of a specified period of time.

[0079] In one embodiment, the sensor unit **102** transmits humidity data when it determines that the humidity data fails a threshold test. In one embodiment, the humidity threshold for the threshold test is provided to the sensor unit **102** by the monitoring station **113**. In one embodiment, the humidity threshold for the threshold test is computed by the monitoring station from a baseline humidity established in the monitoring station. In one embodiment, the baseline humidity is computed at least in part as an average of humidity readings from a number of humidity sensors. In one embodiment, the baseline humidity is computed at least in part as a time average of humidity readings from a number of humidity sensors. In one embodiment, the baseline humidity is computed at least in part as a time average of humidity readings from a humidity sensor. In one embodiment, the baseline humidity is computed at least in part as the lesser of a maximum humidity reading and an average of a number of humidity readings.

[0080] In one embodiment, the sensor unit **102** reports humidity readings in response to a query by the monitoring station **113**. In one embodiment, the sensor unit **102** reports humidity readings at regular intervals. In one embodiment, a humidity interval is provided to the sensor unit **102** by the monitoring station **113**.

[0081] In one embodiment, the calculation of conditions for fungus growth is comparing humidity readings from one or more humidity sensors to the baseline (or reference) humidity. In one embodiment, the comparison is based on comparing the humidity readings to a percentage (e.g., typically a percentage greater than 100%) of the baseline value. In one embodiment, the comparison is based on comparing the humidity readings to a specified delta value

above the reference humidity. In one embodiment, the calculation of likelihood of conditions for fungus growth is based on a time history of humidity readings, such that the longer the favorable conditions exist, the greater the likelihood of fungus growth. In one embodiment, relatively high humidity readings over a period of time indicate a higher likelihood of fungus growth than relatively high humidity readings for short periods of time. In one embodiment, a relatively sudden increase in humidity as compared to a baseline or reference humidity is reported by the monitoring station **113** as a possibility of a water leak. If the relatively high humidity reading continues over time then the relatively high humidity is reported by the monitoring station **113** as possibly being a water leak and/or an area likely to have fungus growth or water damage.

[0082] Temperatures relatively more favorable to fungus growth increase the likelihood of fungus growth. In one embodiment, temperature measurements from the building areas are also used in the fungus grown-likelihood calculations. In one embodiment, a threshold value for likelihood of fungus growth is computed at least in part as a function of temperature, such that temperatures relatively more favorable to fungus growth result in a relatively lower threshold than temperatures relatively less favorable for fungus growth. In one embodiment, the calculation of a likelihood of fungus growth depends at least in part on temperature such that temperatures relatively more favorable to fungus growth indicate a relatively higher likelihood of fungus growth than temperatures relatively less favorable for fungus growth. Thus, in one embodiment, a maximum humidity and/or minimum threshold above a reference humidity is relatively lower for temperature more favorable to fungus growth than the maximum humidity and/or minimum threshold above a reference humidity for temperatures relatively less favorable to fungus growth.

[0083] In one embodiment, a water flow sensor is provided to the sensor unit **102**. The sensor unit **102** obtains water flow data from the water flow sensor and provides the water flow data to the monitoring computer **113**. The monitoring computer **113** can then calculate water usage. Additionally, the monitoring computer can watch for water leaks, by, for example, looking for water flow when there should be little or no flow. Thus, for example, if the monitoring computer detects water usage throughout the night, the monitoring computer can raise an alert indicating that a possible water leak has occurred.

[0084] In one embodiment, the sensor **201** includes a water flow sensor is provided to the sensor unit **102**. The sensor unit **102** obtains water flow data from the water flow sensor and provides the water flow data to the monitoring computer **113**. The monitoring computer **113** can then calculate water usage. Additionally, the monitoring computer can watch for water leaks, by, for example, looking for water flow when there should be little or no flow. Thus, for example, if the monitoring computer detects water usage throughout the night, the monitoring computer can raise an alert indicating that a possible water leak has occurred.

[0085] In one embodiment, the sensor **201** includes a fire-extinguisher tamper sensor is provided to the sensor unit **102**. The fire-extinguisher tamper sensor reports tampering with or use of a fire-extinguisher. In one embodiment the fire-extinguisher temper sensor reports that the fire extin-

guisher has been removed from its mounting, that a fire extinguisher compartment has been opened, and/or that a safety lock on the fire extinguisher has been removed.

[0086] It will be evident to those skilled in the art that the invention is not limited to the details of the foregoing illustrated embodiments and that the present invention may be embodied in other specific forms without departing from the spirit or essential attributed thereof; furthermore, various omissions, substitutions and changes may be made without departing from the spirit of the inventions. For example, although specific embodiments are described in terms of the 900 MHz frequency band, one of ordinary skill in the art will recognize that frequency bands above and below 900 MHz can be used as well. The wireless system can be configured to operate on one or more frequency bands, such as, for example, the HF band, the VHF band, the UHF band, the Microwave band, the Millimeter wave band, etc. One of ordinary skill in the art will further recognize that techniques other than spread spectrum can also be used and/or can be use instead spread spectrum. The modulation uses is not limited to any particular modulation method, such that modulation scheme used can be, for example, frequency modulation, phase modulation, amplitude modulation, combinations thereof, etc. The foregoing description of the embodiments is therefore to be considered in all respects as illustrative and not restrictive, with the scope of the invention being delineated by the appended claims and their equivalents.

What is claimed is:

1. A wireless sensor system, comprising:

one or more wireless sensor units, each of said one or more wireless sensor units comprising at least one sensor configured to measure a condition, said wireless sensor unit configured to receive instructions; said wireless sensor unit configured to report data measured by said at least one sensor when said wireless sensor determines that data measured by said at least one sensor fails a threshold test, said one or more wireless sensor units operating in a low-power mode when not transmitting or receiving data, said one or more wireless sensors configured to transmit status information at regular intervals;

one or more wireless repeater units, each of said one or more wireless sensor units configured to communicate with at least one of said one or more wireless repeater units, each wireless sensor unit configured to send communication packets comprising an identification field, each of said one or more wireless repeater units configured to communicate with a selected subset of said one or more wireless sensor units, said one or more wireless sensor units configured to communicate with said one or more wireless repeater units using frequency-hopping techniques to avoid collisions;

a base unit configured to communicate with said one or more wireless router units and to provide data from said one or more sensor units to a monitoring computer, said monitoring computer configured to send a notification to a responsible party when data from one or more of said wireless sensor units corresponds to an emergency condition, said monitoring computer configured to log data from one or more of said wireless sensor units

when said data from one or more of said wireless sensor units corresponds to an abnormal condition.

2. The wireless sensor system of claim 1, wherein said at least one sensor comprises a smoke sensor.

3. The wireless sensor system of claim 1, wherein said at least one sensor comprises an air temperature sensor.

4. The wireless sensor system of claim 1, wherein said at least one sensor comprises a water-level sensor.

5. The wireless sensor system of claim 1, wherein said at least one sensor comprises a water-temperature sensor.

6. The wireless sensor system of claim 1, wherein said at least one sensor comprises a moisture sensor.

7. The wireless sensor system of claim 1, wherein said at least one sensor comprises a humidity sensor.

8. The wireless sensor system of claim 1, wherein said at least one sensor comprises a carbon monoxide sensor.

9. The wireless sensor system of claim 1, wherein said at least one sensor comprises a flammable gas sensor.

10. The wireless sensor system of claim 1, wherein said at least one sensor comprises a door-open sensor.

11. The wireless sensor system of claim 1, wherein said at least one sensor comprises a broken-window sensor.

12. The wireless sensor system of claim 1, wherein said at least one sensor comprises an intrusion sensor.

13. The wireless sensor system of claim 1, wherein said at least one sensor comprises a power-failure sensor.

14. The wireless sensor system of claim 1, wherein said monitoring computer is configured to attempt to contact said responsible party by telephone.

15. The wireless sensor system of claim 1, wherein said monitoring computer is configured to attempt to contact said responsible party by cellular telephone.

16. The wireless sensor system of claim 1, wherein said monitoring computer is configured to attempt to contact said responsible party by cellular text messaging.

17. The wireless sensor system of claim 1, wherein said monitoring computer is configured to attempt to contact said responsible party by pager.

18. The wireless sensor system of claim 1, wherein said monitoring computer is configured to attempt to contact said responsible party by Internet.

19. The wireless sensor system of claim 1, wherein said monitoring computer is configured to attempt to contact said responsible party by email.

20. The wireless sensor system of claim 1, wherein said monitoring computer is configured to attempt to contact said responsible party by Internet instant messaging.

21. The wireless sensor system of claim 1, wherein said monitoring computer comprises a diskless computer.

22. The wireless sensor system of claim 1, wherein said threshold test comprises a high threshold level.

23. The wireless sensor system of claim 1, wherein said threshold test comprises a low threshold level.

24. The wireless sensor system of claim 1, wherein said threshold test comprises an inner threshold range.

25. The wireless sensor system of claim 1, wherein said threshold test comprises an outer threshold range.

26. The wireless sensor system of claim 1, wherein said one or more wireless sensor units comprise a tamper sensor and an ambient condition sensor.

27. The wireless sensor system of claim 1, wherein said one or more wireless sensor units are configured to receive an instruction to change a status reporting interval.

28. The wireless sensor system of claim 1, wherein said one or more wireless sensor units are configured to receive an instruction to change a sensor data reporting interval.

29. The wireless sensor system of claim 1, wherein said monitoring computer is configured to monitor status of each of said one or more wireless sensors.

* * * * *

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is for the base unit initiated by a user from the cellular remote unit, and

wherein the control instruction to the environmental device is associated with the command for the base unit, wherein the base unit is configured to operate without a personal computer.

46. A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit, wherein the first message is received from the cellular remote unit before sending the second message to the cellular remote unit;

a second communication interface configured to send a control instruction from the base unit to the environmental device; and to receive an environmental status from the environmental device;

wherein the first message is a first digital communications message including a command;

wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface; and

wherein the command is for the base unit initiated by a user from the cellular remote unit; and

wherein the control instruction to the environmental device is associated with the command for the base unit.

Kates:

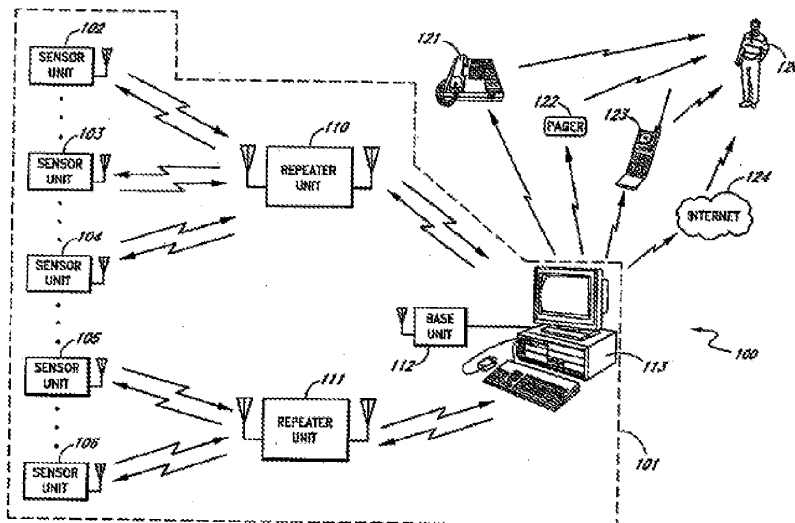


FIG. 1 and paragraph [0029] of Kates disclose that computer system 113 contacts a building manager or other responsible personnel 120 using one or more of several communications systems such as a telephone, pager, cellular telephone or through a local area network. This **one way** communication is clearly recited in paragraph [0029] and show in FIG. 1 of Kates.

Furthermore, the only disclosure in Kates of the “responsible party” interacting with computer 113, or computer 113 receiving instructions in Kates is recited in paragraph [0068] of Kates. Paragraph [0068] of Kates states “the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer to send water shut off instructions to the sensor unit 102.” However, this paragraph does not disclose how in any form the reasonable party sends these instructions.

More so, this paragraph describes a process after a leak is detected, and after the sensor units reports conditions to base unit 112. Therefore, Kates does not disclose the timing elements associated with the above proposed amendment.

Ajibade-Akonai, Olumide

From: Gene Pierson <Gene.Pierson@PiersonIP.com>
Sent: Tuesday, July 26, 2016 2:55 PM
To: Ajibade-Akonai, Olumide
Subject: 13/271,203
Attachments: Shamoona10100Agenda.docx; 13271203.pdf; US20050275530A1.pdf

Please confirm receipt of this agenda.

In preparation to our scheduled interview on September 28th at 11AM Central time, Applicants propose the attached. For your reference, the previous office action and cited art are included.

-Gene

Gene Pierson
Patent Attorney
PiersonIP.com
703-598-9443 or 512-514-6927

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022				
109967 Pierson IP, PLLC 415 West 16th St Unit B Houston, TX 77008	7590 06/27/2016		<table border="1"><tr><td>EXAMINER</td></tr><tr><td>AJIBADE AKONAI, OLUMIDE</td></tr></table>		EXAMINER	AJIBADE AKONAI, OLUMIDE		
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			<table border="1"><tr><td>NOTIFICATION DATE</td><td>DELIVERY MODE</td></tr><tr><td>06/27/2016</td><td>ELECTRONIC</td></tr></table>	NOTIFICATION DATE	DELIVERY MODE	06/27/2016	ELECTRONIC	
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06/27/2016	ELECTRONIC							

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com

Office Action Summary	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 04/06/2016.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☐ Claim(s) 8, 11-22, 27, 28, 30, 32, 33 and 36-47 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☒ Claim(s) 11 is/are allowed.

7) ☐ Claim(s) 8, 12-22, 27, 28, 30, 32, 33, 36-38 and 40-47 is/are rejected.

8) ☒ Claim(s) 39 is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

4) ☐ Other: _____.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Response to Amendment

The declaration under 37 CFR 1.132 filed April 6, 2016 is insufficient to overcome the rejection of claims 8, 12, 14-22, 27, 28, 30, 32, 33, 36, 37, 40, 42, and 44-47 based upon 35 USC 102(e) as being anticipated by Kates (US 2005/0275530) because:

The declaration submitted April 6, 2016 is not persuasive.

The declaration states that Kates does not provide any enabling technology for communication "outside the dotted line" of Figure 1, and no details of how this communication is to happen are provided. Specifically, the declaration states that Kates does not include or cover a gateway system or cellular interface. Furthermore, the Declaration states that Kates does not provide any detail as to the exact Internet standards or software which were envisioned for the Internet communication disclosed in Kates, therefore substantial experimentation would be required.

The evidence provided by the applicants is insufficient to support the assertions in the declaration that there is no enabling communication for communication outside the dotted line. When communication between the monitoring computer 113 and the responsible party 120 using anyone of telephone 121, pager 122, or cellular telephone 123 is disclosed in paragraphs [0005] and [0029], [0046] of Kates, it is quite clear to one of ordinary skill in the art at the time of the invention that a communication system for

cellular telephone 123 would have a cellular system (such as AMPS, 1G, 2G, 2.5G, and 3G, which are all communication standards for cellular telephones in operation before the filing data of applicants' application), and the system(s) clearly have a gateway system (e.g., base station, base station controller, HLR...) for delivering messages via cellular call or text messaging (see [0029], claims 15 and 16 of Kates), and the devices involved in voice and text messaging via using a cellular telephone to communicate with a cellular system clearly have a cellular interface. Therefore, the monitoring computer 113 communicating with the responsible party 120 via the cellular telephone can clearly use any of the enabling technologies.

Applicants' statement in the declaration that in 2004 relying on Kates on a cellular interface would have to be approved by the FCC since it would have to be created, installed, and configured by an expert, is not supported by any objective evidence from the declarant. Therefore, the declaration statement regarding the use of the cellular interface are conclusory statements unsupported by objective factual evidence.

The declaration further states that Kates does not provide any detail as the Internet standards or software which were envisioned, so substantial experimentation would be required even by an expert. The examiner notes that paragraphs [0005] and [0029] of Kates clearly discloses a standard Internet protocol message such email, and all the devices disclosed in fig. 1 of Kates (sensor unit, repeater unit, monitoring computer, anyone of telephone 121, pager 122, or cellular telephone 123) have a controller/processor working under the direction of programmed instructions/software

(see figs. 2-4, [0046]), thus providing clear evidence of devices with software for operating the device to communicate via email (i.e., monitoring computer 113 contacts the responsible party by email [0005], [0029], claim 19). Therefore, no substantial experimentation is required by an expert to produce a working system of sending email communication via the Internet as disclosed in Kates.

The declaration further states (regarding the PC acting on received information) sensors that it would take substantial experimentation by an expert in programming and proprietary technology in order to produce a working system to make the monitoring system act on an incoming message “send water shutoff instructions” and there are no details of the programming of the desktop PC.

The examiner notes that paragraph [0046] of Kates discloses a monitoring computer 113 that runs off a CD-ROM. CD-ROMS are used to distribute software to computers. Therefore, Kates provides programming details and technology for operating a monitoring computer 113 to receive an incoming message (“send water shutoff instructions”) and to act on the instructions by sending instructions to the sensor unit 102 (see [0064], [0068]). The example provided in the declaration regarding information received in the form of a text message is not supported by any factual and objective evidence, and thus simply constitutes a statement unsupported by objective factual evidence.

The declaration states that there is no mention as to how the sensor operates the shutoff valve, and without knowing how it works it is not possible to build a system to control it.

As disclosed in paragraph [0064] of Kates, the sensors can receive instructions from the monitoring computer and perform the instructions. Fig. 2 and Paragraph [0050] further disclose the sensor unit with a controller that provides control information to the sensor (thus enabling the sensor to execute/perform the instructions of paragraph [0068]). Therefore, Kates clearly discloses the sensor unit receiving instructions to shut off the water supply to the water heater, and performs the instructions to shutoff the water supply. Paragraph [0068] clearly discloses that the shutoff valve is controlled by the sensor unit 102 (i.e., sensor unit 102 operates the shutoff valve). Figure. 2 clearly discloses control circuitry (controller and transceiver 202 and 203, [0050]) for performing the instruction from the monitoring computer to shutoff the gas shutoff valve. Therefore, Kates discloses how the sensor operates the shutoff valve and provides control circuitry for said operation. Kates also discloses how the shutoff valve works (i.e., to shutoff gas supply to the water heater and/or to a furnace... [0068]). It is also therefore clear as to how the system of Kates works to perform the functions of the sensors.

The declaration states that substantial experimentation would have been required by some one of ordinary skill in the art to use the sensors in regard to paragraph [0068] of Kates. However, the declaration has provided no objective factual evidence as to why substantial experimentation will be required. Therefore, the statement in the declaration that substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system in regards to the sensors disclosed in paragraph [0068] of Kates constitutes an opinion that is not supported by any factual evidence (See MPEP 716.01(c)). Kates discloses in detail use

of sensor units as wireless sensors in a building, and to control other devices (see fig. 1, [0029]-[0030], [0032]-[0033], [0068]). Therefore, the declaration statement regarding the use of the wireless sensors are conclusory statements unsupported by objective factual evidence.

Therefore, the declaration filed April 6, 2016 under 37 CFR 1.132 is insufficient to overcome the Kates reference.

Response to Arguments

Applicant's arguments regarding the rejection of claims 8, 45, and 46 have been fully considered but they are not persuasive. Regarding claims 8, 45, and 46, the applicants' asserts that Kates does not disclose any teaching of communication between the computer and the responsible party. Specifically, the applicants argue that Kates does not disclose communications between two elements. The examiner respectfully disagrees.

Kates specifically teaches sending instructions to the monitoring computer 113 to send water shut off instructions to the sensor ([0029]). Sending instructions from the responsible user/remote unit 120 (i.e., via one of devices 121-123, and associated networks) to the monitoring computer will require communication via a wireless network (in the case of the responsible party using cellular telephone 123, a cellular network, fig. 1, [0023]). Since Kates clearly discloses communications from the computer 120 to the responsible party, the examiner maintains that Kates discloses two way communication between the computer and responsible party.

The applicant's representative further argues that Kates is silent in regards to communications between cellular telephone 123 and computer 113 and more so, Kates is completely silent in regards to computer 113 receiving anything from telephone 121, pager 122, cellular network 123, or local area network 124. The examiner respectfully disagrees. As disclosed in Kates, the responsible party 120 is contacted using any one of from telephone 121, pager 122, cellular network 123, or local area network 124 ([0029]). In response to contacting the responsible party, the responsible sends instructions to the monitoring computer ([0068]). This clearly teaches applicants' limitation of communications between cellular telephone 123 and computer 113 and more so, Kates is completely silent in regards to computer 113 receiving anything from telephone 121, pager 122, cellular network 123, or local area network 124 because the responsible party sends the instructions using anyone of telephone 121, pager 122, cellular network 123, or local area network 124 to send the instructions. Therefore, the examiner maintains that Kates teaches communications between the cellular telephone 123 and computer 113 via a wireless communications interface.

In response to applicants' arguments that Kates fails to provide any enabling technology for a communication outside a building because Kates fails to disclose a "gateway system" or "cellular interface", the examiner states that the communication between the monitoring computer 113 and the responsible party 120 using anyone of telephone 121, pager 122, or cellular telephone 123 is disclosed in paragraphs [0005] and [0029], [0046] of Kates, is quite clear to one of ordinary skill in the art at the time of the invention that a communication system for cellular telephone 123 would have a

cellular system (such as AMPS, 1G, 2G, 2.5G, and 3G, which are all communication standards for cellular telephones in operation before the filing date of applicants' application), and the system(s) clearly have a gateway system (e.g., base station, base station controller, HLR...) for delivering messages via cellular call or text messaging (see [0029], claims 15 and 16 of Kates), and the devices involved in voice and text messaging via using a cellular telephone to communicate with a cellular system clearly have a cellular interface.

In response to the applicants' arguments that the sensors are not enabled for the reasons disclosed in the declaration submitted April 6, 2016, the examiner directs the applicants' to the response to the amendment above. As disclosed in paragraph [0064] of Kates, the sensors can receive instructions from the monitoring computer and perform the instructions. Fig. 2 and Paragraph [0050] further disclose the sensor unit with a controller that provides control information to the sensor (thus enabling the sensor to execute/perform the instructions of paragraph [0068]). Therefore, Kates clearly discloses the sensor unit receiving instructions to shut off the water supply to the water heater, and performs the instructions to shutoff the water supply. Paragraph [0068] clearly discloses that the shutoff valve is controlled by the sensor unit 102 (i.e., sensor unit 102 operates the shutoff valve). Figure 2 clearly discloses control circuitry (controller and transceiver 202 and 203, [0050]) for performing the instruction from the monitoring computer to shutoff the gas shutoff valve. Therefore, Kates discloses how the sensor operates the shutoff valve and provides control circuitry for said operation. Kates also discloses how the shutoff valve works (i.e., to shutoff gas supply to the water

heater and/or to a furnace... [0068]). It is also therefore clear as to how the system of Kates works to perform the functions of the sensors.

In response to applicants' statement in the declaration that substantial experimentation would have been required by some one of ordinary skill in the art to use the sensors in regard to paragraph [0068] of Kates, the examiner notes that the declaration has provided no objective factual evidence as to why substantial experimentation will be required. Therefore, the statement in the declaration that substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system in regards to the sensors disclosed in paragraph [0068] of Kates constitutes an opinion that is not supported by any factual evidence (See MPEP 716.01(c)). Kates discloses in detail use of sensor units as wireless sensors in a building, and to control other devices (see fig. 1, [0029]-[0030], [0032]-[0033], [0068]). Therefore, the declaration statement regarding the use of the wireless sensors are conclusory statements unsupported by objective factual evidence.

The 35 USC 102(e) rejection of claims 8, 45, and 46 is therefore maintained.

Claim Objections

Claims 38, 39 and 47 are objected to because of the following informalities:
Regarding claims 38 and 39, "remote control unit" should be deleted and replaced with "cellular remote unit". While claim 8 discloses a remote cellular unit sending a first message remotely, there is not specific mention of the term "remote control unit".
Regarding claim 47, claim limitation "the cellular remote" should be replaced with "the

cellular remote unit” which properly reflects the claimed limitation recited in claim 8.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 8, 12, 14-22, 27, 28, 30, 32, 33, 36, 37, 40, 42, and 44-47 are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by **Kates 20050275530**.

Regarding **claim 8**, Kates teaches a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit (cellular telephone 123, [0029]) having wireless connectivity capable of communicating from a geographically remote location (“The computer system 113 contacts a building personnel 120 using one or more of several communication systems such as, for example, cellular telephone 123, [0029]), the base unit comprising: a first

communication interface configured to receive environmental information from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]) and to send a control instruction to the environmental device (“the computer 113 sends instructions to each sensor unit”, [0047], [0068]); a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel’s remote device*); [0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions to monitoring computer 113); wherein the first message is a first digital communications message including a representation of the environmental information (“The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120”, [0032]), and wherein the second message is a second digital communications message including a command to the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]); and a microcontroller configured to process

the second message and to send the control instruction based on the command via the first communication interface to the environmental device ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is associated with the enter mode command for the base unit (“the sensor unit 102 receives instructions from the base unit 112 to shut off the water supply to the heater 801”, [0068]), and wherein the command for the base unit initiated by a user from the cellular remote unit (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068], also see [0029]), and wherein the control instruction to the environmental device is associated with the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 45**, Kates teaches a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location (“The computer system 113 contacts a building

manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113"), the base unit comprising: a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network ([0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions (*~first message*) to monitoring computer 113 via a cellular telephone communication system); a second communication interface configured to send a control construction from the base unit to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]); wherein the first message is a first digital communications message including a command ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the command is for the base unit

initiated by a user from the cellular remote unit interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is associated with the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 46**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113"), the base unit comprising: a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network ([0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions (*~first message*) to monitoring computer 113 via a cellular telephone communication system) and to send a second

message to the cellular remote unit (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*)); a second communication interface configured to send a control instruction from the base unit to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]); and to receive an environmental status from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]); wherein the first message is a first digital communications message including a command ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); wherein the second message is a second digital communications message including the environmental status (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*)); a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface ([0068], responsible personnel 120 sends instructions to

monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the command is for the base unit initiated by a user from the cellular remote unit ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is associated with the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 12** as applied to claim 8, Kates further discloses wherein the command regards entering an energy conservation mode ([0069]-[0071]), and wherein the energy conservation mode is associated with multiple environmental devices ([0069]-[0071], optional temperature sensor and sensor unit 102, also see [0030]).

Regarding **claim 14** as applied to claim 8, Kates further discloses wherein the control instruction is configured to adjust a temperature of a water heater ([0068]-[0071]).

Regarding **claim 15** as applied to claim 8, Kates further discloses wherein the control instruction is configured to adjust an air handling system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 16** as applied to claim 8, Kates further discloses wherein the

cellular communications network includes a data bearer service (using one or more of...
cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claims 17 and 33** as applied to claims 8 and 45, Kates further discloses wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 18** as applied to claim 8, Kates further discloses wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 19** as applied to claim 8, Kates further discloses wherein the command is an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 20** as applied to claim 8, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of...
cellular network (i.e., cellular telephone) and Internet, [0029]); wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]); wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 21** as applied to claim 20, Kates further discloses wherein the second message includes an energy conservation command associated with

multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 22** as applied to claim 20, Kates further discloses wherein the microcontroller is configured to process the environmental information into the representation ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]) and to process the command into the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 27** as applied to claim 8, Kates further discloses wherein the remote unit is a cellular telephone (cellular telephone 123, [0029]), and wherein the environmental device comprises a thermostat ([0051], [0069]-[0070]).

Regarding **claim 28** as applied to claim 8, Kates further discloses wherein the environmental device comprises light at least one of a light, thermostat or an alarm system ([0030], [0069]-[0070]).

Regarding **claims 30 and 36** as applied to claims 8 and 45, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 32**, Kates further teaches the base unit of claim 45, wherein the first status message is sent to the cellular remote unit using a data bearer service (using

one or more of... cellular network (i.e., cellular telephone) and Internet, to communicate with the cellular telephone 123, [0029]).

Regarding **claim 37** as applied to claim 8, Kates further discloses wherein the cellular communications network includes a simple message service ([0029], where the cellular network is a simple message service network for IM, network communications, text).

Regarding **claim 40** as applied to claim 8, Kates further discloses wherein the base unit is configured to receive data from an external web service, and responsive to receiving the data the base station sends the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel via Internet communication service, fig. 1, [0005], [0029], [0068]).

Regarding **claim 42** as applied to claim 8, Kates further discloses the base unit of claim 8, wherein the command includes cellular data ([0068], responsible personnel 120 sends instructions, via cellular network, to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply).

Regarding **claim 44** as applied to claim 8, Kates further discloses wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network ([0068], responsible personnel 120 sends instructions, via cellular network, to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives

instructions from monitoring computer 113 through base unit 112 to shut off the water supply).

Regarding **claim 47** as applied to claim 8, Kates further discloses wherein the microcontroller is configured to send status information to the cellular remote on a periodic basis (the sensor units periodically send status information to the base unit, which the base unit uses to send reports to the responsible personnel 120, see [0007], [0029], [0009] [0033], [0046]).

6. Claims 13 and 43 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Sinclair 7,127,270**.

Regarding **claim 13** as applied to claim 8, Kates discloses the claimed limitation except wherein the command is associated with an icon on the remote unit. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Regarding **claim 43** as applied to claim 8, Kates discloses the claimed limitation wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

6. Claim 38 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Olsen, III et al 20060011721 (hereinafter Olsen)**.

Regarding **claim 38** as applied to claim 8, Kates discloses the claimed invention except wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is within a geo-fence.

However, in an analogous art, Olsen discloses a remote control unit (DIAD 34, see figs. 2, 3 and 6, [0043]) configured to determine position data of the remote control

unit, and determine when the remote control unit is within a geo-fence (the DIAD 34 determines that it is in a geo-fence zone 42 by comparing data received from GPS system 44 with information regarding the geo-fenced area, fig. 6, [0054]-[0055], [0062]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Olsen with the system of Kates by having the cellular telephone use its position to determine that it is within a geo-fence zone in order to determine the direction of the cellular telephone or entry of the cellular telephone into a specific zone/area.

6. Claim 41 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Peek et al 6,343,255 (hereinafter Peek)**.

Regarding **claim 41** as applied to claim 40, Kates discloses the claimed invention except wherein the external web service is a weather service.

However, in a similar field of endeavor, Peek discloses receiving data from an external web service, wherein the external web service is a weather service (col. 6, lines 47-64, col. 9, line 21 – col. 10, line 2).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Peek with the system of Kates by enabling the base unit to receive weather information via Internet from a weather station for the purpose of using the weather data in the generation of instructions the systems in the building.

Allowable Subject Matter

3. Claim 11 is allowed.

Claim 39 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

Ajibade-Akonai, Olumide

From: Gene Pierson <Gene.Pierson@PiersonIP.com>
Sent: Thursday, July 28, 2016 9:59 AM
To: Ajibade-Akonai, Olumide
Subject: RE: 13/271,203

Please let me know if it would be better for you to conduct the interview at 11AM eastern or noon eastern. I have scheduled that we were going to discuss at 11AM eastern but my below email states noon.

Please let me know which one would be better.

I look forward to our discussion.

-Gene

Gene Pierson
Patent Attorney
PiersonIP.com
703-598-9443 or 512-514-6927

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From: Gene Pierson [mailto:Gene.Pierson@PiersonIP.com]
Sent: Tuesday, July 26, 2016 1:55 PM
To: 'olumide.ajibade-akonai@uspto.gov'
Subject: 13/271,203

Please confirm receipt of this agenda.

In preparation to our scheduled interview on September 28th at 11AM Central time, Applicants propose the attached. For your reference, the previous office action and cited art are included.

-Gene

Gene Pierson
Patent Attorney
PiersonIP.com
703-598-9443 or 512-514-6927

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 13/271,203

Group Art Unit: 2641

Filing Date: 10/11/2011

Examiner: OLUMIDE

Applicant: Charles G. Shamoon

Confirmation No: 1022

Title: Ubiquitous Connectivity And Control Systems For Remote Locations

Mailstop: AF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT UNDER 37 C.F.R. §1.116

Sir or Madam:

In response to the current Office Action, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

Amendments to the Claims begin on page 2 of this Amendment.

Remarks begin on page 10 of this Amendment.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	30	-	32	=	0
Independent	4	-	4	=	0

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

1-7. (Canceled)

8. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is for the base unit initiated by a user from the cellular remote unit, and

wherein the control instruction to the environmental device is associated with the command for the base unit.

9. (Canceled)

10. (Canceled)

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Previously Presented) The base unit of claim 8, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Previously Presented) The base unit of claim 8, wherein the command is associated with an icon on the remote unit.

14. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust a temperature of a water heater.

15. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust an air handling system.

16. (Previously Presented) The base unit of claim 8, wherein the cellular communications network includes a data bearer service.

17. (Previously Presented) The base unit of claim 8, wherein the remote unit is a mobile remote unit.

18. (Previously Presented) The base unit of claim 8, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

19. (Previously Presented) The base unit of claim 8, wherein the command is an energy conservation command associated with multiple environmental devices.

20. (Previously Presented) The base unit of claim 8,
wherein the cellular communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction;
and
wherein the command includes an environmental command.

21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.

22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

23-25. (Canceled)

26. (Canceled)

27. (Previously Presented) The base unit of claim 8, wherein the remote unit is a cellular telephone, and wherein the environmental device comprises a thermostat.

28. (Previously Presented) The base unit of claim 8, wherein the environmental device comprises at least one of a light, thermostat, or an alarm system.

29. (Canceled)

30. (Previously Presented) The base unit of claim 8, wherein the base unit and the environmental device are contained in the same enclosure.

31. (Canceled)

32. (Previously Presented) The base unit of claim 45, wherein the first message is received from the cellular remote unit using a data bearer service.

33. (Previously Presented) The base unit of claim 45, wherein cellular remote unit is a mobile remote unit.

34. (Canceled)

35. (Canceled)

36. (Previously Presented) The base unit of claim 45, wherein the base unit and the environmental device are contained in the same enclosure.

37. (Previously Presented) The base unit of claim 8, wherein the cellular communications network includes a simple message service.

38. (Currently Amended) The base unit of claim 8, wherein the cellular remote unit ~~remote control unit~~ is configured to determine position data of the cellular remote unit ~~remote control unit~~, and determine when the remote control unit is within a geo-fence.

39. (Currently Amended) The base unit of claim 8, wherein the cellular remote unit ~~remote control unit~~ is configured to determine position data of the cellular remote unit ~~remote control unit~~, and determine when the cellular remote unit ~~remote control unit~~ is outside a geo-fence, wherein the cellular remote unit ~~remote control unit~~ is configured to transmit a notification via a simple message service responsive to determining that the remote control unit is outside of the geo-fence.

40. (Previously Presented) The base unit of claim 8, wherein the base unit is configured to receive data from an external web service, and responsive to receiving the data the base unit sends the control instruction.

41. (Previously Presented) The base unit of claim 40, wherein the external web service is a weather service.

42. (Previously Presented) The base unit of claim 8, wherein the command includes cellular data.

43. (Previously Presented) The base unit of claim 8, wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.

44. (Previously Presented) The base unit of claim 8, wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network.

45. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network;

a second communication interface configured to send a control construction from the base unit to the environmental device;

wherein the first message is a first digital communications message including a command;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface; and

wherein the command is for the base unit initiated by a user from the cellular remote unit; and

wherein the control instruction to the environmental device is associated with the command for the base unit.

46. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit;

a second communication interface configured to send a control instruction from the base unit to the environmental device; and to receive an environmental status from the environmental device;

wherein the first message is a first digital communications message including a command;

wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface; and

wherein the command is for the base unit initiated by a user from the cellular remote unit; and

wherein the control instruction to the environmental device is associated with the command for the base unit.

47. (Currently Amended) The base unit of claim 8 wherein the microcontroller is configured to send status information to the cellular remote unit on a periodic basis.

REMARKS

Favorable reconsideration of this application, in light of the preceding amendments and following remarks, is respectfully requested. Claims 8, 11, 45, and 46 are the pending independent claims in this application. No new matter is added.

The claims have been amended to overcome minor informalities, and put the case in condition for allowance. An appeal will be subsequently filed.

CONCLUSION

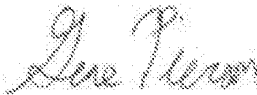
In view of the above remarks and amendments, the Applicants respectfully submit that each of the pending objections and rejections has been addressed and overcome, placing the present application in condition for allowance. A notice to that effect is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned, at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 506047 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

Pierson Intellectual Property, LLC

BY: 

Gene Pierson, Reg. No. 67,359
7000 N. Mopac Expressway,
Second Floor
Austin, Texas 78731
(703) 598-9443

Electronic Acknowledgement Receipt	
EFS ID:	26623679
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	GSHAM.00101
Receipt Date:	12-AUG-2016
Filing Date:	11-OCT-2011
Time Stamp:	10:21:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response After Final Action	Shamoon10100Aresponsefiled beforeappeal.pdf	260348	no	11
			50a1509992f07563c742fbd999ab2199b8084699		
Warnings:					

Information:	
Total Files Size (in bytes):	260348
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:	13/271,203	Group Art Unit:	2641
Filing Date:	10/11/2011	Examiner:	OLUMIDE
Applicant:	Charles G. Shamoon	Confirmation No:	1022
Title:	Ubiquitous Connectivity And Control Systems For Remote Locations		

VIA EFS

Mail Stop AF

REASONS FOR REQUEST REVIEW

Sir or Madam:

In response to the final Office Action mailed 06/27/2016, the following remarks, showing clear error in the pending rejections, are respectfully submitted in connection with the above-identified application.

1. KATES FAILS TO ANTICIPATE ALL LIMITATIONS OF CLAIM 8

Claim 8 recites “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network.” As seen in the quoted language, the claim requires two messages transmitted over a cellular network, wherein one of the messages is received **from the cellular remote unit** via the cellular communications network. This is different than what is disclosed by Kates, and what is used by the Examiner to anticipate these limitations.

On page 6 of the Office Action, the examiner reasons that because Kates discloses communications from the computer 120 **to** the party, that Kates discloses **two way** communications between the computer and the party. However, Kates clearly fails to anticipate this limitation. Kates merely discloses a system of transmitting a message from a computing system **to** a responsible party, and **does not** receiving “a second message **from** the cellular remote unit via the cellular communications network.”

However, **one way messages** cannot anticipate messages that are both transmitted and received. One skilled in the art may appreciate that two way communications transmitted and received by computer 113 would require additional hardware components, processors, etc., which are simply not disclosed in Kates. How one skilled in the art at the time of filing of Kates would include or implement these

Page 2

"four corners" of a single prior art, either expressly described therein or under the principle of inherency. Lewmar Marine Inc. v Barient Inc., 3 USPQ2d 1766, 1767-1768 (Fed. Cir. 1987) (emphasis added).

Furthermore, the only disclosure in Kates computer 113 receiving any communications outside of the closed network, is in paragraph [0068] of Kates. However, this paragraph [0068] of Kates states "the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer to send water shut off instructions to the sensor unit 102." Kates does not disclose how computer 113 would receive the instructions from "the responsible party." Because Kates only discloses that the responsible party 120 "sends instructions," and does not disclose any communication **received from** telephone 121, pager 122, cell phone 123, or LAN 124 communicating with computer 113, it cannot be inferred that these instructions are transmitted over a cellular network using a cellular device. As required, "The identical invention must be shown in **as complete detail** as is contained in the ... claim." Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). (emphasis added). This inference would require Kates to include additional elements, hardware, and computing processing that is not disclosed or even suggested in Kates. Thus, Kates fails to disclose a wireless communications interface configured to "**receive** a second message from the cellular remote unit via the cellular communications network," as recited in the claims.

CONCLUSION

In view of the above remarks and amendments, the Applicants respectfully submit that each of the pending objections and rejections has been addressed and overcome, placing the present application in condition for allowance. A notice to that effect is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned. Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned, at the telephone number of the undersigned below. If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 506047 for any additional

Application No. 13/271,203

Customer ID: 109967

fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

BY: 

Gene Pierson, Reg. No. 67,359
(703) 598-9443

Doc Code: AP.PRE.REQ

PTO/AIA/33 (03-13)
Approved for use through 07/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PRE-APPEAL BRIEF REQUEST FOR REVIEW		Docket Number (Optional) SHAM1010	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO, EFS-Web transmitted to the USPTO, or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on <u>8/12/2016</u> Signature <u>/Gene Pierson/</u> Typed or printed name <u>Gene Pierson</u>	Application Number 13/271,203	Filed 10/11/2011	
	First Named Inventor Charles G. Shamoon		
	Art Unit 2641	Examiner OLUMIDE	
Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request. This request is being filed with a notice of appeal. The review is requested for the reason(s) stated on the attached sheet(s). Note: No more than five (5) pages may be provided.			
I am the		<u>/Gene Pierson/</u> Signature <u>Gene Pierson</u> Typed or printed name	
☐ applicant.			
☒ attorney or agent of record. Registration number <u>67359</u>	<u>703-598-9443</u> Telephone number		
☐ attorney or agent acting under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____	<u>07-11-2016</u> Date		
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.			

☐ *Total of _____ forms are submitted.

This collection of information is required by 35 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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NOTICE OF APPEAL FROM THE EXAMINER TO THE PATENT TRIAL AND APPEAL BOARD		Docket Number (Optional) SHAM1010						
I hereby certify that this correspondence is being facsimile transmitted to the USPTO, EFS-Web transmitted to the USPTO, or deposited with the United States Postal Service with sufficient postage in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, on Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on <u>08/12/2016</u> . Signature <u>/Gene Pierson/</u> Typed or printed name <u>Gene Pierson</u>	In re Application of Charles G. Shamoon <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Application Number 13/271,203</td> <td style="width: 50%; padding: 2px;">Filed 10/11/2011</td> </tr> <tr> <td colspan="2" style="padding: 2px;">For Ubiquitous Connectivity And Control Systems For Remote Locations</td> </tr> <tr> <td style="padding: 2px;">Art Unit 2641</td> <td style="padding: 2px;">Examiner OLUMIDE</td> </tr> </table>		Application Number 13/271,203	Filed 10/11/2011	For Ubiquitous Connectivity And Control Systems For Remote Locations		Art Unit 2641	Examiner OLUMIDE
Application Number 13/271,203	Filed 10/11/2011							
For Ubiquitous Connectivity And Control Systems For Remote Locations								
Art Unit 2641	Examiner OLUMIDE							
Applicant hereby appeals to the Patent Trial and Appeal Board from the last decision of the examiner.								
The fee for this Notice of Appeal is (37 CFR 41.20(b)(1)) \$ _____								
☒ Applicant asserts small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by 50%, and the resulting fee is: \$ <u>400</u>								
☐ Applicant certifies micro entity status. See 37 CFR 1.29. Therefore, the fee shown above is reduced by 75%, and the resulting fee is: \$ _____ Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.								
☐ A check in the amount of the fee is enclosed.								
☒ Payment by credit card. Form PTO-2038 is attached.								
☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. <u>506047</u> .								
☒ Payment made via EFS-Web.								
☐ A petition for an extension of time under 37 CFR 1.136(a) (PTO/AIA/22 or equivalent) is enclosed. For extensions of time in reexamination proceedings, see 37 CFR 1.550.								
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
I am the								
☐ applicant								
☒ attorney or agent of record Registration number <u>67359</u>								
☐ attorney or agent acting under 37 CFR 1.34 Registration number _____								
Signature <u>/Gene Pierson/</u>								
Typed or printed name <u>Gene Pierson</u>								
Telephone Number <u>67359</u>								
Date <u>07-11-2016</u>								
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.								
☐ * Total of _____ forms are submitted.								

This collection of information is required by 37 CFR 41.20(b)(1) and 41.31. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Eugene Gordon Pierson		
Attorney Docket Number:		GSHAM.00101		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Notice of Appeal	2401	1	400	400
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				400

Electronic Acknowledgement Receipt	
EFS ID:	26623739
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	GSHAM.00101
Receipt Date:	12-AUG-2016
Filing Date:	11-OCT-2011
Time Stamp:	10:25:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$400
RAM confirmation Number	081216INTEFSW10260600
Deposit Account	5610
Authorized User	Gene Pierson
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Pre-Brief Conference request	Shamoon1010PABCR.pdf	321954	no	4
			53a6c231a1b955a6334e0e12885909658647f1b1		
Warnings:					
Information:					
2	Pre-Brief Conference request	SHAM1010PABCRUSPTOFORM.pdf	200895	no	2
			a919be22dec6fad5b49693df24c3db82757147c1		
Warnings:					
Information:					
3	Notice of Appeal Filed	SHAM1010petition.pdf	236874	no	2
			4d38f901acda83a16b0bf0fc57d806b4717c4db6		
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30311	no	2
			de8e30b6207e0c4730bcee65c47c5add5b3ae7bf		
Warnings:					
Information:					
Total Files Size (in bytes):			790034		

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New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed		
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO										
APPLICATION AS FILED – PART I										
(Column 1)		(Column 2)								
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (j), or (m))		N/A		N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =		*		X \$ =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT	08/12/2016		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(j))		* 29		Minus	** 32	= 0	X \$40 =	0	
	Independent (37 CFR 1.16(h))		* 4		Minus	***4	= 0	X \$210 =	0	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE		0		
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(j))		*		Minus	**	=	X \$ =		
	Independent (37 CFR 1.16(h))		*		Minus	***	=	X \$ =		
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE				
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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109967 e 2016-08-15

Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008

Paper No.

Application No.:	13/271,203 	Date Mailed:	2016-08-15
First Named Inventor:	Charles G. Shamoan	Examiner:	AJIBADE AKONAI, OLUMIDE
Attorney Docket No.:	GSHAM.00101	Art Unit:	2641
Confirmation No.:	1022	Filing Date:	10/11/2011

Please find attached an Office communication concerning this application or proceeding.

Commissioner for Patents

Notice of Non-Compliant Pre-Appeal Brief Request for Review	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

The Pre-Appeal Brief Request for Review filed on 12 Aug 2016 is non-compliant for the following reason(s). See *Pre-Appeal Brief Conference Pilot Program*, 1296 Off. Gaz. Pat. Office 67 (July 12, 2005). A conference will not be held.

The time period for filing an appeal brief CONTINUES TO RUN from the receipt date of the Notice of Appeal. 37 CFR 41.37(a). If no Notice of Appeal has been received, the time period for filing a reply continues to run from the mail date of the last Office communication.

1. ☐ The Request was not filed concurrently with a proper Notice of Appeal.
2. ☐ The Request does not include accompanying arguments for which the review is being requested.
3. ☐ The arguments accompanying the Request exceed five (5) pages.
4. ☐ The arguments accompanying the Request are directed to petitionable, not appealable, matters.
5. ☒ An after-final or proposed amendment was filed with the Request, or after the filing of the Request but before a panel decision from the pre-appeal brief conference.
6. ☐ The request was filed concurrently with a Request for Continued Examination (RCE).
7. ☐ Other (including any explanation in support of the above items):

/Tracey M Young/
 Tracey M Young
 Patent Appeal Specialist
 571-272-1644



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
109967 7590 Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 08/22/2016	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com
gene.pierson@gmail.com

Advisory Action Before the Filing of an Appeal Brief	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 12 August 2016 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance;
(2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.

b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires _____ months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☒ The Notice of Appeal was filed on 12 August 2016. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because

a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);

b) ☐ They raise the issue of new matter (see NOTE below);

c) ☒ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicant's reply has overcome the following rejection(s): _____.

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☒ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.

13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____

14. ☐ Other: _____.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: 11.

Claim(s) objected to: 39.

Claim(s) rejected: 8,12-22,27,28,30,32,33,36-38 and 40-47.

Claim(s) withdrawn from consideration: _____.

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641

Continuation of 12. does NOT place the application in condition for allowance because: The rejections of claims 8,12-22,27,28,30,32,33,36-38, and 40-47 are maintained for the reasons disclosed in the final office action mailed 06/27/2016, as there are no amendments to the rejected independent claims (or remarks submitted traversing the rejection in the final office action) submitted 08/12/2016. The pre-brief conference request submitted 08/12/2016 is defective, and a notice of defective pre-brief appeal has been sent to the applicant.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 13/271,203

Group Art Unit: 2641

Filing Date: 10/11/2011

Examiner: OLUMIDE

Applicant: Charles G. Shamoon

Confirmation No: 1022

Title: Ubiquitous Connectivity And Control Systems For Remote Locations

DO NOT ENTER: /O.A/

08/17/2016

Mailstop: AF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT UNDER 37 C.F.R. §1.116

Sir or Madam:

In response to the current Office Action, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

Amendments to the Claims begin on page 2 of this Amendment.

Remarks begin on page 10 of this Amendment.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	30	-	32	=	0
Independent	4	-	4	=	0

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TABLE OF CONTENTS

I. Real Party in Interest	3
II. Related Appeals and Interferences	4
III. Summary of Claimed Subject Matter	5
IV. Arguments.....	8
V. Claims Appendix	17
VI. Evidence Appendix	26

I. Real Party in Interest

The real party in interest is UBIQUITOUS CONNECTIVITY, LP, 2436 Tisbury Way, Little Elm, Texas, 75068. UBIQUITOUS CONNECTIVITY, LP is the assignee of the entire right, title, and interest in the subject application, by virtue of Assignments recorded on April 30, 2012 at Reel 028125 and Frame 0242 and Reel 028125 and Frame 0418.

II. Related Appeals And Interferences

There are no appeals or interferences that are related to this case.

III. Summary of Claimed Subject Matter

Claims 8, 45, and 46 are the rejected independent claims. Claims 12 – 22, 27 – 28, 30, 37 – 44, and 47 depend from claim 8; claims 32 – 33 and 36 depend from claim 45. The claims relate to a remote monitoring and control system for an environment. Claim 11 is allowed.

A. Independent claim 8

Independent claim 8 is directed towards a base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location. (see, e.g. p. 9, lines 12 to 20, and FIG. 1). The base unit comprises a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device. (see, e.g. p. 13, lines 1-6, p. 15, lines 16-18, p. 34, lines 7-10, and p. 35, lines 1-5). The base unit comprises a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network (see, e.g. p. 9 lines 10-18, and p. 10, lines 4-11). The first message is a first digital communications message including a representation of the environmental information (see, e.g. p. 25, lines 16-17, and 35 lines 6-10). The second message is a second digital communications message including a command regarding the environmental device (see, e.g. p. 35, lines 1-5). The base unit also includes a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the

environmental device via the first communication interface (see, e.g. p. 12, lines 6-11). The command is for the base unit initiated by a user from the cellular remote unit (see, e.g. p. 18, lines 14-20, and p. 35, lines 1-5). The control instruction to the environmental device is associated with the command for the base unit (see, e.g. p. 34, lines 8 – 18).

B. Independent claim 45

Independent claim 45 is directed towards a base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location. (see, e.g. p. 9, lines 12 to 20, and FIG. 1). The base unit comprises a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network. (see, e.g. p. 18, lines 14 to 18, and p. 13, lines 1-6, and p. 15, lines 16-18). The base unit includes a second communication interface configured to send a control construction from the base unit to the environmental device. (see, e.g. p. 35, lines 1-5). The first message is a first digital communications message including a command. (see, e.g. p. 18, lines 14 to 18). The base unit includes a microcontroller configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface. (see, e.g. p. 34, lines 7-10, and p. 35, lines 1-5). The command is for the base unit initiated by a user from the cellular remote unit. (see, e.g. p. 18, lines 14-20, and p. 35, lines 1-5). The control instruction to the environmental device is associated with the command for the base unit. (see, e.g. p. 34, lines 8-18).

C. Independent claim 46

Independent claim 46 is directed towards a base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location (see, e.g. p. 9, lines 12 to 20, and FIG. 1). The base unit comprises a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit. (see, e.g. p. 18, lines 14-18, and p. 13, lines 1-6, and p. 15, lines 16-18). The base unit comprises a second communication interface configured to send a control instruction from the base unit to the environmental device; and to receive an environmental status from the environmental device. (see, e.g. p. 34, lines 7-10, and p. 35, lines 1-5). The first message is a first digital communications message including a command. (see, e.g. p. 18, lines 14-18). The second message is a second digital communications message including the environmental status. (see, e.g. p. 25, lines 16-17, and 35 lines 6-10). The base unit includes a microcontroller configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface (see, e.g. p. 12, lines 6-11). The command is for the base unit and is initiated by a user from the cellular remote unit. (see, e.g. p. 18, lines 14-20, and p. 35, lines 15). The control instruction to the environmental device is associated with the command for the base unit. (see, e.g. p. 34, lines 8-18).

IV. Arguments

Claims 8, 12, 14-22, 27, 28, 30, 32, 33, 36, 37, 40, 42, and 44-47 are rejected under pre-AIA 35 USC 102(e) as being anticipated by Kates (US 2005/0275530).

A. Kates fails to disclose a base unit capable of bi-directional wireless communication with a cellular remote unit.

For an invention to be anticipated, it must be demonstrated that each and every element of the claimed invention is present in the "four corners" of a single prior art reference, either expressly described therein or under the principle of inherency. Lewmar Marine Inc. v Barient Inc., 3 USPQ2d 1766, 1767-1768 (Fed. Cir. 1987) (emphasis added).

Claim 8 recites "a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network." As seen in the quoted language, the claim requires two messages transmitted over a cellular network, wherein one of the messages is received **from the cellular remote unit** via the cellular communications network. This is different than what is disclosed by Kates and relied on by the Examiner to anticipate these limitations.

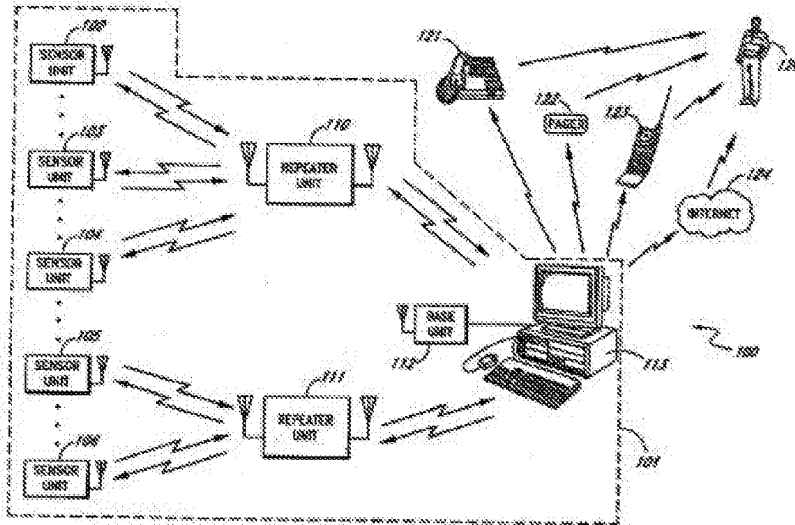
On page 6 of the Office Action, the Examiner reasons that because Kates discloses communications from the computer 120 **to** the responsible party, that Kates discloses **two way** communications between the computer and the party. However, Kates clearly fails to anticipate this limitation. Kates merely discloses a system of transmitting a message from a computing system **to** a responsible party, and **does not**

disclose receiving “a second message **from** the cellular remote unit via the cellular communications network.”

One way messages cannot anticipate messages that are both transmitted and received. One skilled in the art may appreciate that two way communications transmitted and received by monitoring computer 113 would require additional hardware and/or software, which are simply not disclosed in Kates.

It is not known or disclosed by the reference how one skilled in the art at the time of filing of Kates would include or implement these additional elements in Kates. **The absence from** a prior art reference of **any** claimed element **negates anticipation**. Kloster Speedsteel AB v. Crucible, Inc., 230 USPQ 81, 84 (Fed. Cir. 1986). (Emphasis added).

More specifically, FIG. 1 and paragraph [0029] of Kates disclose that computer system 113 contacts a building manager or other responsible personnel 120 using one or more of several communications systems such as a telephone, pager, cellular telephone or through a local area network. This **one way** communication is clearly recited in paragraph [0029] and show in FIG. 1 of Kates. Specifically, the transmissions from computer 113 to responsible party 120 in Kates **are shown in one way arrows, and the specification in Kates only discloses computer system 113 transmitting messages**. For ease of reference, FIGURE 1 of Kates is reproduced below.



Kates, FIG. 1

The Applicant in Kates appreciated the possibility of two way communications between other elements. This is more clearly shown in FIGURE 1 in Kates. In FIGURE 1 of Kates, certain elements contain two way arrows to disclose two way communications. (See Kates para. 0008, 0012, 0034, 0045). Yet computer system 113 of Kates only transmits one way messages to responsible party 120, and is unable to receive messages.

Accordingly, Kates does not **anticipate** each and every limitation recited in independent claim 8. Independent claims 45 and 46 each require “a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network.” Claims 45 and 46 are allowable for at least the same reasons discussed above with respect to claim 8.

B. The responsible party in Kates cannot be used to anticipate the cellular remote unit as recited in the claims.

Independent claim 8 requires “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to **receive a second message from the cellular remote unit via the cellular communications network.**” (Emphasis added). On page 7 of the Final Office Action, the Examiner states that Kates discloses that a responsible party 120 is contacted over a cellular network and the “responsible [party 120] sends instructions to the monitoring computer ([0068]).” According to the Examiner, Kates therefore “teaches communications between the cellular telephone 123 and computer 113 via a wireless communications interface.” Final Office Action, p. 7. However, Kates does not provide any disclosure as to how the responsible party **sends** instructions to the monitoring computer or how the computer **receives** a message from the cellular telephone via the cellular communications network.

More specifically, the only disclosure in Kates of computer 113 receiving any communications outside of the closed network is in paragraph [0068]. This paragraph [0068] of Kates states “the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102.” However, this paragraph in Kates does not disclose how computer 113 would receive the instructions from “the responsible party.” Because Kates only discloses that the responsible party 120 “sends instructions,” and does not disclose any communication **received from** telephone 121, pager 122, cell phone 123, or LAN 124 communicating with computer 113, **it cannot be inferred** that these instructions are transmitted over a cellular network using a cellular device.

As required, for a rejection under 35 USC 102 “The identical invention must be shown in **as complete detail** as is contained in the ... claim.” Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). (Emphasis added). This inference would require Kates to include additional hardware and/or software that is not disclosed or even suggested in Kates. Thus, Kates fails to disclose a wireless communications interface configured to “**receive** a second message from the cellular remote unit via the cellular communications network,” as recited in claim 8.

Accordingly, Kates does not **anticipate** each and every limitation recited in independent claim 8. Independent claims 45 and 46 each require “a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network.” Claims 45 and 46 are allowable for at least the same reasons discussed above with respect to claim 8.

C. Kates does not disclose a receiving a **first message** from the cellular remote unit via a cellular communications network.

Independent claim 46 recites “a wireless communication interface configured to receive a **first message from the cellular remote unit** via a cellular communications network and to send a **second message to the cellular remote unit.**”

Kates discloses a system where a sensor takes readings, transmits a report, listens for instructions, and performs the instructions if received. *See FIG. 7 and paragraph [0064] of Kates.* More specifically, Kates requires that “sensor data is subsequently sent to the monitoring computer 113 in a report block 707. After reporting, the sensor unit 102 enters a listen block 708 where the sensor unit 102 listens for a

relatively short period of time for instructions from monitoring computer 708. **If an instruction is received, then** the sensor unit 102 performs the instructions...” Kates, paragraph [0064]. (Emphasis added). Thus, the system in Kates requires first transmitting sensor data to the monitoring computer, which then subsequently can contact a responsible party over a telephone 121, pager 122, cell phone 123, or LAN 124. Kates discloses that “the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 112.” Kates, paragraph [0068]. However, there is no teaching or suggestion that this instruction from the responsible party is a first message. Rather, it is more likely that a responsible party would send water shut off instructions in response to (and after receiving) a first message from the monitoring computer indicating that a water leak was detected. (See Kates, paragraph [0067] for a disclosure of a water level sensor and water flow sensors). Therefore, Kates does not disclose receiving “**a first message from the cellular remote unit.**”

Claim 46 recites “a wireless communication interface configured to receive **a first message from the cellular remote unit** via a cellular communications network and to send **a second message to the cellular remote unit.**” The claim requires different timing of the limitations than what is purportedly disclosed by Kates. More so, one skilled in the art may appreciate that to anticipate these limitations, the system in Kates would require additional hardware and/or software to detect and process signals initially received from the cellular remote unit that are not made in response to a first communication from the monitoring computer.

Accordingly, Kates does not **anticipate** each and every limitation recited in independent claim 46. Additionally, claim 45 recites “a wireless communication

interview configured to receive a first message from the cellular remote unit via a cellular communications network.” Therefore, claim 45 should be allowable for at least the same reasons as addressed above in regards to claim 46.

D. Kates fails to enable one of ordinary skill in the art to make the claimed subject matter without undue experimentation.

MPEP 2121 states “In determining that quantum of prior art disclosure which is necessary to declare an applicant’s invention ‘not novel’ or ‘anticipated’ within section 102, the stated test is whether a reference contains an ‘enabling disclosure’....” In re Hoeksema, 399 F.2d 269, 158 USPQ 596 (CCPA 1968). **The disclosure in an assertedly anticipating reference must provide an enabling disclosure of the desired subject matter; mere naming or description of the subject matter is insufficient, if it cannot be produced without undue experimentation.** Elan Pharm., Inc. v. Mayo Found. For Med. Educ. & Research, 346 F.3d 1051, 1054, 68 USPQ2d 1373, 1376 (Fed. Cir. 2003). (*Emphasis added*). For at least the reasons provided below and in the attached declaration, one of ordinary skill in the art would not have been able to make the claimed subject matter before the present invention.

In the present case, Kates fails to disclose “a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message **from the cellular remote unit via the cellular communications network,**” as discussed above. It would not have been obvious to assume the responsible party could communicate with computer 113 in any manner based on the disclosure in Kates.

Kates does not provide any enabling technology for communication outside of building 101. The ability for a monitoring computer 113 to communicate with a telephone 121, pager 122, or cellular telephone 123 is dependent on one of two general methods, either a “gateway system”, or a “cellular interface”. See attached Declaration of Dale Young at page 1. However, neither of these methods is described or detailed in Kates, and therefore Kates does not provide enabling technology. See Young Declaration at pages 2-3. The communication through the Internet is standard technology that people with ordinary skill in the art could readily provide in the 2004 time frame, *provided* the message was a standard internet protocol such as email. Young Declaration at page 2.

On pages 7-8 of the Final Office Action, the Examiner concludes that it would be quite clear to one of ordinary skill in the art at the time the priority application was filed on November 18, 2004 that a communication system for a cellular telephone would have “a cellular system (such as AMPS, 1G, 2G, 2.5G and 3G),” a gateway system, and a cellular interface. The Examiner misses the point. Applicants concede that cellular networks existed at the time and enabled cellular communications for millions of users. However, Kates does not disclose how *monitoring computer 113* interfaced with cellular communications systems to send/receive messages to/from cellular telephone 123. The Examiner cites to Kates paragraph [0005] (which states “[t]he base unit can contact a supervisor or other responsible person by a plurality of techniques, such as, telephone, pager, cellular telephone, Internet...”), Kates paragraph [0029] (which states “[t]he computer system 113 contacts a building manager...using one or more of several communication system such as, for example, ... cellular telephone 123 (e.g., direct contact, voicemail, text, etc.)”), and Kates paragraph [0046] (which states “the computer 113 will attempt to notify the

responsible party 120"). The cited paragraphs do not provide an enabling disclosure for communication between monitoring computer 113 and cellular telephone 123. Put simply, Kates does not enable use of a cellular interface or a gateway system (see Young Declaration at pp. 1-2), and the Examiner has not cited any support in Kates to show otherwise (see Final Office Action at pp. 7-8).

Accordingly, Kates does not disclose enough detail to reasonably provide enabling technology for a monitoring computer to perform the functions of sending and receiving voice and text communications to telephones, pagers, and cellular telephones as alleged by the Examiner. Additionally, Kates does not disclose enough detail to reasonably provide enabling technology for a monitoring computer to be able to receive a message from a remote person outside of building 101 via a cellular communications network and act on such a message.

In view of the above, the cited art fails to anticipate each and every feature disclosed in the independent claims. Therefore, the independent claims are allowable, and withdrawal of these rejections is respectfully requested. The dependent claims are allowable at least by virtue of their dependency from an allowable independent claim.

CONCLUSION

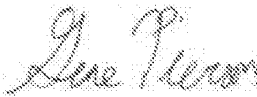
In view of the above remarks and amendments, the Applicants respectfully submit that each of the pending objections and rejections has been addressed and overcome, placing the present application in condition for allowance. A notice to that effect is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned, at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 506047 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

Pierson Intellectual Property, LLC

BY: 

Gene Pierson, Reg. No. 67,359
7000 N. Mopac Expressway,
Second Floor
Austin, Texas 78731
(703) 598-9443

V. Claims Appendix

The Claims involved in this Appeal read as follows:

1-7. (Canceled)

8. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is for the base unit initiated by a user from the cellular remote unit, and

wherein the control instruction to the environmental device is associated with the command for the base unit.

9-10. (Canceled)

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Previously Presented) The base unit of claim 8, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Previously Presented) The base unit of claim 8, wherein the command is associated with an icon on the remote unit.

14. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust a temperature of a water heater.

15. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust an air handling system.

16. (Previously Presented) The base unit of claim 8, wherein the cellular communications network includes a data bearer service.

17. (Previously Presented) The base unit of claim 8, wherein the remote unit is a mobile remote unit.

18. (Previously Presented) The base unit of claim 8, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

19. (Previously Presented) The base unit of claim 8, wherein the command is an energy conservation command associated with multiple environmental devices.

20. (Previously Presented) The base unit of claim 8,
wherein the cellular communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction;
and
wherein the command includes an environmental command.

21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.

22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

23-26. (Canceled)

27. (Previously Presented) The base unit of claim 8, wherein the remote unit is a cellular telephone, and wherein the environmental device comprises a thermostat.

28. (Previously Presented) The base unit of claim 8, wherein the environmental device comprises at least one of a light, thermostat, or an alarm system.

29. (Canceled)

30. (Previously Presented) The base unit of claim 8, wherein the base unit and the environmental device are contained in the same enclosure.

31. (Canceled)

32. (Previously Presented) The base unit of claim 45, wherein the first message is received from the cellular remote unit using a data bearer service.

33. (Previously Presented) The base unit of claim 45, wherein cellular remote unit is a mobile remote unit.

34-35. (Canceled)

36. (Previously Presented) The base unit of claim 45, wherein the base unit and the environmental device are contained in the same enclosure.

37. (Previously Presented) The base unit of claim 8, wherein the cellular communications network includes a simple message service.

38. (Previously Presented) The base unit of claim 8, wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is within a geo-fence.

39. (Previously Presented) The base unit of claim 8, wherein the remote control unit is configured to determine position data of the remote control unit, and determine when the remote control unit is outside a geo-fence, wherein the remote control unit is configured to transmit a notification via a simple message service responsive to determining that the remote control unit is outside of the geo-fence.

40. (Previously Presented) The base unit of claim 8, wherein the base unit is configured to receive data from an external web service, and responsive to receiving the data the base unit sends the control instruction.

41. (Previously Presented) The base unit of claim 40, wherein the external web service is a weather service.

42. (Previously Presented) The base unit of claim 8, wherein the command includes cellular data.

43. (Previously Presented) The base unit of claim 8, wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.

44. (Previously Presented) The base unit of claim 8, wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network.

45. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

- a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network;

- a second communication interface configured to send a control construction from the base unit to the environmental device;

- wherein the first message is a first digital communications message including a command;

- a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface; and

- wherein the command is for the base unit initiated by a user from the cellular remote unit; and

- wherein the control instruction to the environmental device is associated with the command for the base unit.

46. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit;

a second communication interface configured to send a control instruction from the base unit to the environmental device; and to receive an environmental status from the environmental device;

wherein the first message is a first digital communications message including a command;

wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface; and

wherein the command is for the base unit initiated by a user from the cellular remote unit; and

wherein the control instruction to the environmental device is associated with the command for the base unit.

47. (Previously Presented) The base unit of claim 8 wherein the microcontroller is configured to send status information to the cellular remote on a periodic basis.

VI. Evidence Appendix

A declaration under 35 CFR 1.132 by Dale Young, a database services practice director, was filed and entered into the image file wrapper on April 6, 2016.

The Examiner reviewed this declaration and stated that this declaration was insufficient to overcome the Kates reference on Page 6 of the Office Action dated 06/27/2016.

A copy of this declaration along with the resume of Dale Young is attached herewith. The resume of Dale Young was also entered into the image file wrapper on April 6, 2016.

CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is, on the date shown below, being electronically filed with the United States Patent & Trademark Office via EFSWeb and a registered e-Filer certificate.

/Gene Pierson/
Gene Pierson
DATE: 08/29/2016

Per your request, I have reviewed patent, #7218237 with a particular focus on the unit “monitoring computer system 113”, and these phrases:

1. “The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g. direct contact, voicemail, text, etc.), and/or through the Internet and/or local area network 124 (e.g. through email, instant messages, network communications, etc.)”
 - a. *[found in Column 4 of this patent]*
2. “said monitoring computer configured to send a notification to a responsible party”
 - a. *[found in Column 17 of this patent, under item 1 of “what is claimed”]*
3. “In one embodiment, the responsible party 120 send instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102.”
 - a. *[found in Column 13 of this patent]*

Here are my comments:

General Statement:

- The patent itself does not provide any enabling technology for communication “outside the dotted line” of Figure 1. No details of how this communication is to happen are provided.
- Two broad communication capabilities are discussed:
 - Sending communication out (items #1 and #2 above), and getting communication in (item #3).
 - Acting on received information (item #3 above)
 - Each of these will be discussed for each communication type.

Communication:

- **Telephone, pager, cellular telephone:** The ability for a monitoring computer 113 to communicate with a telephone 121, pager 122, or cellular telephone 123 is dependent on one of two general methods, either a “gateway system”, or a “cellular interface”. More detail for each of these is provided below. Neither of these is described or detailed in the patent, and therefore they do not provide enabling technology.
 - “Gateway system” — this would be some external system or service, provided by a third party company such as the cellular carrier, that would convert the digital message of the monitoring computer into one of the forms specified in item #1 (direct contact, voicemail, text, etc.).
 - These Gateway systems need specialized hardware, proprietary software, and other components to perform this function.
 - No Gateway system is included in or covered by the patent.
 - “Cellular interface” — this would be some electronic component installed in or with the monitoring computer, which would provide direct cellular

capabilities. This could take the form of an interface board, a component, or something else. In 2004 relying on Kates any such component would have to be approved by the FCC since it would be using radio waves and have to be created, installed, and configured by an expert, not someone with ordinary skill. Regardless, the description of this interface is not included in or covered by the patent.

- **Internet Communication:** The communication through the internet is standard technology that people with ordinary skill in the art could readily provide in the 2004 time frame, *provided*:
 - the message was standard internet protocols such as email, and
 - standard software existed at that time to handle those protocols such as an email client.

However, the patent does not provide any detail as to the exact internet standards or software which were envisioned, so substantial experimentation would be required even of an expert to produce a working system.

PC 113 Acting on Received Information:

- In 2004 relying on Kates it would take substantial experimentation by an expert in programming and proprietary technology in order to produce a working system that would be able to make the monitoring computer ACT on an incoming message, i.e. to “send water shut off instructions”. For example let’s say the received information was in the form of a text message. A module would have to be designed, tested, and built that would receive and store the incoming message. Firmware would have to be supplied by the carrier which would not happen as the carrier’s protocol, and encryption methodology would have to be divulged and finally, custom software and firmware would have to be written to parse the text message and to build an outgoing message to the sensor directing it to shut off the supply of water to the water heater.
- No details of the programming of the desktop PC (unit 113) are included in the patent.
- Sensors in regard to paragraph 68 (Item #3)
 - There is no mention as to how the sensor operates the shutoff valve (810) that controls the water entering the water heater. The sensor as shown in figure 2 does not contain any actuation or control circuitry to drive the shutoff valve. It also does not explain how the shutoff valve works. There are any number of methods that might be employed to control the water shutoff. The cutoff valve could be electromagnetically actuated or electromechanically actuated or pneumatically actuated or some other method could be employed to control the shutoff valve.
 - Without knowing how it works it is not possible to build a system to control it. Even today there would not be an off-the-shelf device to perform the described function.
 - Substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system.

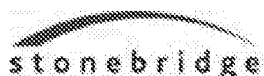
Overall Statement:

1. The patent does not provide enough detail to reasonably provide “enabling technology” for a monitoring computer to perform the functions of sending and receiving voice and text communications to telephones, pagers, and cellular telephones.
2. The patent does not provide enough detail to reasonably provide “enabling technology” for a monitoring computer to be able to act on a communication from an outside person.

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment or under 18 USC 1001.

Dated: March 28, 2016

/Dale Young/
Dale Young



Dale Young

Database Services Practice Director

Education

- BS, Computer Science, University of Texas at Austin

Specializations

- Enterprise Architect specializing in Databases and Systems
- Data Center Transition Expert (Migrations, Moving, Outsourcing, Insourcing, Cloud)
- Oracle Performance Tuning
- Latest Oracle Technology

Summary

Mr. Young has more than thirty years of professional experience providing quality information technology services in both technical and managerial roles. As an Enterprise Architect, he has designed and implemented large scale systems that integrate servers, databases, and networks. He specializes in High Availability (HA) and Disaster Recovery (DR) systems particularly around highly available databases. Mr. Young is fluent in the various Replication, Fail-Over, and Cluster options for both servers and databases and has experience in operating these services within in-house and out-sourced data center environments. Likewise, he has participated heavily in a multitude of data center migration initiatives.

As an expert in Oracle tuning, Mr. Young has both built high-performance Oracle systems from the ground up and has been called into existing systems which had serious performance issues. These issues have included fixing poorly performing SQL, diagnosing hardware problems, rearchitecting process flow, suggesting data changes such as partitioning and purging, fixing SQL to allow scaling to multiple thousands of users, and other typical performance issues.

Specializing in mission critical database systems, Mr. Young has performed capacity planning, enterprise storage configuration and administration, database administration, database analysis, design, programming, testing, implementation and production support for various database systems on multiple platforms. Additionally, he has provided database technical training services, help desk and problem resolution support, and has developed standards, policies and procedures. Mr. Young is an expert in replication technologies, high availability, and performance tuning.

Technical Skills

Certifications

- Oracle Certified DBA
- Sun Solaris Certified System Admin

Database

- Oracle 11g/10g/9i/8i/8/7/6/5/4/3/2
- Oracle RAC 11g/10g, OPS 9i/8i

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Operating Systems

- o Linux: Red Hat, Oracle Linux, SUSE
- o UNIX System V, Solaris, AIX, HP/UX
- o Cluster software: Veritas, Oracle
- o Windows Server 2000/2003/2008
- o Windows 7, Win 2000, Vista, XP, NT

Storage

- o SAN – various
- o NAS – Netapp, various
- o DAS – various; complete setup
- o Software: Veritas, some others

Development / Support Environment

- o Oracle Database, RAC, ASM, DataGuard
- o Oracle Enterprise Manager: OEM/Grid 12c/11g/10g & OEM/DBConsole
- o Oracle RMAN
- o Oracle Application Server
- o Oracle Fusion Middleware
- o Oracle Internet Directory (OID)
- o Sqlplus, Net Manager, SQL Navigator
- o MS Excel, Visio, Project
- o Data Modeling/Architecture tools: DBArtisan, ERwin, ERStudio.

Internet/Intranet

- o FTP, NFS, Disk mapping/sharing
- o Secure Shell, RDP
- o CITRIX, Shrew Soft VPN Access Mgr
- o MS VPN, Cisco VPN

Languages

- o Bourne Shell, C-Shell, Korn Shell
- o SQL – sqlplus, isql
- o Perl, Python, Java, JavaScript
- o C, C++, Fortran, Basic

Professional Activities

Dallas Oracle User's Group (Current Member)
DFW Unix User's Group (Past President & other positions)
Presenter/Speaker at DFW Unix User's Group (multiple times)
Presenter/Speaker at South Central Oracle User's Group (multiple times)

Professional Experience

Stonebridge

Focus: Database Services Practice Director

- As Database Services **Practice Director**, leads a team of DBAs to deliver high end database services in Oracle and SQL Server for large and small clients
- The team has generated **income** between **\$2M and \$4M per year** for the last ten years
- The team size has varied from 7 to 13 and they support hundreds of Oracle and SQL Server databases with sizes from hundreds of megabytes to multiple terabytes
- The team focuses on delivering Stonebridge-branded **SmartSourcesm** Database Services and **Database Services projects** focused on data center migrations, database migrations, server and database upgrades, and physical and logical database support
- Most customers have limited downtime requirements and are concerned about disaster recovery (**DR**) and/or high availability (**HA**)
- Oracle technologies used include: Real Application Cluster (RAC), DataGuard (standby/DR technology), Internet Directory (OID), Grid Control (OEM/GC), Flashback Database
- SQL Server technologies used include: replication, clustering, and log shipping

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- Personally performed or led a small team of DBAs in multiple in-depth **database assessments** at various customers
- Personally performed dozens of performance tuning assessments and remediations
- Installed Oracle RAC and DataGuard on new Solaris and IBM servers
- Installed Oracle Linux and Red Hat Linux on Intel architecture systems and then installed Oracle databases on those systems
- Participated in the Stonebridge **business development process**, including generating/delivering presentations, proposals, demos, and proofs-of-concept
- Serves as **Project Manager** following the Stonebridge Way methodology on projects within Database Services and other Stonebridge practice areas
- Serves as **Delivery Manager** to assist Stonebridge employees with Career Development and Human Resource issues

Client: American Heart Association

Engagement: Oracle Performance Tuning

- The Oracle database supporting the public-facing heart.org web site was overloaded, running between 80% and 100% CPU capacity 24x7. Mr. Young came in and within two days had identified one statement that was causing the majority of the problem, due to data which had not been properly cleaned up – five tables with multiple millions of rows of data when hundreds of rows was the norm. Once that data was cleaned up, two more statements were found and reengineered, and the usage on the system dropped to 15%-20% in general.

Client: Xerox

Engagement: OEM/GC & OID Installation (DCO replacement)

- Xerox engaged an outside consultant to install Oracle Enterprise Manager 12c and OID 11g in a DR environment. After six weeks of effort, the consultant was not able to provide an estimate of the remaining effort. Xerox engaged Mr. Young to perform this install. Starting over, the effort was completed, tested, documented, and made operational in less than four weeks.

Client: Calpine

Engagement: Database Assessment, Remediation, Outsourcing, DCO

- Led a team to perform in-depth database assessment on very large environment – hundreds of Oracle databases, dozens of SQL Server servers with hundreds of SQL Server databases
- Produced a report of over 100 pages for CIO
- Recommendations were reviewed at the Board of Directors
- Assessment led to remediation work
- Remediation work led to replacement of the Database Services Outsourcer starting Aug. 2006 and continuing to present – Stonebridge team has been providing Logical Database Support and working closely with Data Center Outsourcer Database Personnel who perform Physical Database support for last eight years
- Led and assisted team in major Data Center Outsourcing (DCO) efforts at Calpine in 2009 and 2012

Client: Mohawk

Engagement: RAC/ASM server and database configuration

- Configured new IBM servers with Oracle 10gR1 RAC and ASM in 2006 with no other cluster or file system software
- Debugged multiple issues with Oracle installation procedures on IBM as RAC, Cluster Services, and ASM were all new at the time
- Although the project went over budget, the customer was extremely pleased with the overall result and was seen as a trend-setter in their industry

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Applied Solutions, Inc.

Client: Kintetsu World Express (KWE)

Engagement: Oracle Replicated Database Design

- In 1999-2000, using Oracle 8i, was physical database data modeler for a shipping application
- Database used Oracle multi-master technology to keep data in sync between five worldwide disparate sites (Dallas, New York, London, Tokyo, Singapore), all sites read and write capable
- Worked with application developers and logical database designer to implement efficient data model for application
- Designed multiple Perl scripts to generate the correct SQL to apply physical data model changes correctly in each site

Client: Mary Kay

Engagement Focus: Solaris System Admin and Database Consultant

- Served Solaris System Administrator and Storage Administrator for large (1+ TB) data warehouse
- Configured new Sun servers
- Implemented efficient storage layout on new Sun storage and servers for fast data warehouse access
- Wrote Perl scripts to assist with data cleansing and migration
- Worked with DBA staff and contractors to implement data warehouse

The Heritage Organization

Title: CIO

- Led a team of four people in support of a Personal Wealth Management company
- Worked directly with CEO on design and improvements of CRM-style database
- Migrated existing database system from Oracle 6 on SCO Unix to Oracle 7 on Sun Solaris
- Migrated client interface from Oracle Card to Oracle Forms

E-Systems (now part of Raytheon)

Title: Senior Software Engineer

- Served in various capacities over a period of 14 years: software developer, code writer, system administrator, database administrator, manager, quality control supervisor, computer security expert, FileMaker database developer/administrator
- 10 of 14 years was located in Alice Springs, Australia
- Learned Oracle using Oracle version 2 – First Customer Release



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Electronic Acknowledgement Receipt	
EFS ID:	26778941
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	GSHAM.00101
Receipt Date:	29-AUG-2016
Filing Date:	11-OCT-2011
Time Stamp:	18:13:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Appeal Brief Filed	Shamoon10100AppealBrief.pdf	545254	no	27
			4750a16a4ea54bf7d07f1d1772c959034c90402d		
Warnings:					

Information:					
2	Affidavit-traversing rejectns or objectns rule 132	SHAMOON1010dec.pdf	622782 1f3f57372fbd267c896c4ba103590e846cc5568c	no	3
Warnings:					
Information:					
3	Affidavit-traversing rejectns or objectns rule 132	SHAMOON1010deces.pdf	411602 1cccd4a0102cadf41afe0a8285dd65b0a54be37f	no	4
Warnings:					
Information:					
Total Files Size (in bytes):			1579638		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022				
109967 Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008	7590 11/16/2016		<table border="1"><tr><td>EXAMINER</td></tr><tr><td>AJIBADE AKONAI, OLUMIDE</td></tr></table>		EXAMINER	AJIBADE AKONAI, OLUMIDE		
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			<table border="1"><tr><td>ART UNIT</td><td>PAPER NUMBER</td></tr><tr><td>2641</td><td></td></tr></table>	ART UNIT	PAPER NUMBER	2641		
ART UNIT	PAPER NUMBER							
2641								
			<table border="1"><tr><td>NOTIFICATION DATE</td><td>DELIVERY MODE</td></tr><tr><td>11/16/2016</td><td>ELECTRONIC</td></tr></table>	NOTIFICATION DATE	DELIVERY MODE	11/16/2016	ELECTRONIC	
NOTIFICATION DATE	DELIVERY MODE							
11/16/2016	ELECTRONIC							

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com
gene.pierson@gmail.com



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BEFORE THE PATENT TRIAL AND APPEAL BOARD

Application Number: 13/271,203
Filing Date: October 11, 2011
Appellant(s): SHAMOON ET AL.

Gene Pierson
For Appellant

EXAMINER'S ANSWER

This is in response to the appeal brief filed August 29, 2016

(1) Grounds of Rejection to be Reviewed on Appeal

Every ground of rejection set forth in the Office action dated June 27, 2016 from which the appeal is taken is being maintained by the examiner except for the grounds of rejection (if any) listed under the subheading "WITHDRAWN REJECTIONS." New grounds of rejection (if any) are provided under the subheading "NEW GROUNDS OF REJECTION."

(2) Response to Argument

The appellants' asserts that Kates fails to disclose a base unit capable of bi-directional wireless communication with a cellular remote unit, as set forth in claim 8. Specifically, the appellants assert that Kates fails to anticipate two way communications between the computer and the party because Kates merely discloses a system of transmitting a message from a computing system to a responsible party, and does not disclose receiving "a second message from the cellular remote unit". The examiner respectfully disagrees. Kates discloses a monitoring computer system 113 (~base unit) receiving water shutoff instructions from the responsible party 120 (~cellular remote unit) (see [0068]). The responsible party 120 uses one of devices 121-124 to send the instruction to the responsible party. The responsible party is a person such as a building owner, private security service, or fire department, which is shown to be located outside of the building (fig. 1, [0004]-[0006], [0029]). The responsible party requires one of devices 121-124 to be able to communicate with the monitoring computer 113 (see fig. 1, [0029], [0032], which discloses contacting and forwarding (transmitting) data from the

computer 113 to the responsible party 120 via any of network devices 121-124).

Therefore, the monitoring computer 113, using the cellular telephone communication system, connects to the responsible party 120 with the cellular telephone 123 in order to receive data from the monitoring computer 113 using cellular telephone communication system ([0029], [0032]). Since the cellular telephone communication system disclosed in paragraph [0005] and [0029] (see figure 1 of Kates) is used to implement the sending of instructions disclosed in paragraph [0068], Kates clearly discloses the responsible party 120 being connected to the monitoring computer 113 via a cellular telephone communication system. Therefore, when the responsible party 120 sends water shutoff instructions to the monitoring computer 113 as disclosed in paragraph [0068], it sends the instructions to the monitoring computer 113 via one of the communication devices 121-124 and the communication systems associated therewith. In this case, the responsible party using cellular telephone 123 sends the instructions to the monitoring computer 113 via the cellular telephone communication system (see, [0029], [0068]).

Therefore, Kates discloses the monitoring computer (~base unit) receiving a second message from the cellular remote unit (~responsible party 120 using cellular telephone 123) via the cellular communications network as recited in claim 8.

The appellants' further asserts that one way messages cannot anticipate messages that are both transmitted and received, and that two way messages would require additional hardware and/or software, which is not disclosed by Kates. The examiner respectfully disagrees. Kates discloses two way messages in which the monitoring computer 113 transmits a message (see [0032]) and receives a message

from a responsible party via one of the devices 121-124 (see [0068]). Furthermore, the monitoring computer has a base unit attached to it for transmitting and receiving (fig. 4, [0029], [0032], [0057]), and software (see [0013]). The transmission of data and reception of instructions from the responsible party ([0032], [0068]) indicates presence of transmitting and receiving circuitry. Thus the software and hardware required by Kates to implement two way communications at the monitoring station is clearly disclosed by Kates.

The appellant further asserts that Kates discloses one way communication because only one way arrows are shown from the monitoring computer 113 to the responsible party 120 (see fig. 1 of Kates), therefore Kates monitoring computer 113 only transmits one way messages and is unable to receive messages. The examiner respectfully disagrees with appellants' analysis. Figure 1 of Kates also shows the monitoring computer communicating with the responsible party via the Internet or local area network (a bi-directional network) and from the cellular network (direct contact, text, voicemail, etc., which clearly are also bi-directional networks) (see [0029], [0032]). The system disclosed in figure 1 is used to implement the sending of water shutoff instructions disclosed in paragraph [0068]. Therefore, the one way arrow shows a transmission from the monitoring computer 113 to the responsible party 120, but it is not an indication that there is only one way transmission from the monitoring computer 113 to the responsible party 120 because the networks associated with the devices 121-124 provide bidirectional two way communication, and Kates discloses sending (~transmitting) instructions (~message) from the responsible party via any of the

devices 121-124 to the monitoring computer 113, which clearly implies bi-directional communications.

The appellant further asserts that Kates cannot be used to anticipate the cellular remote unit as recited in the claims. Specifically, the appellants assert that Kates does not provide any disclosure as to how the responsible party sends control instructions to the monitoring computer or how the monitoring computer receives a message from the cellular telephone via the cellular communications network, and it cannot be inferred that the instructions are transmitted over a cellular network using a cellular device. The examiner respectfully disagrees. Figure 1 discloses the system for implementing paragraph [0068] of Kates which teaches sending water shutoff instructions from the responsible party 120 to the monitoring computer 113. Since the monitoring computer communicates with at least one of the responsible party's 120 devices 121-124 via the Internet or local area network (a bi-directional network), or cellular network (direct contact, text, voicemail, etc., which clearly are also bi-directional networks) (see [0029], [0032]) the instruction sent from the responsible party 120 to the monitoring party is sent from cellular telephone 123 to the monitoring device 113 via the cellular telephone communication system. Therefore, this provides clear disclosure of how the responsible party (~cellular remote unit) sends water shutoff instructions (~receive a second message from the cellular remote terminal via cellular communication network) to the monitoring computer (~base unit), as recited in claim 8.

The appellants further assert that Kates does not disclose receiving a first message from the cellular remote unit via a cellular communications network, as recited

in claim 46. Specifically, the appellants assert that there is no teaching that the instruction from the responsible party is a first message. The examiner respectfully disagrees. The appellant has not explained exactly what the first message encompasses that Kates fails to disclose. The claimed first message does indicate any unique, specific, or distinct feature, data, or content in the first message that specifically qualifies the message as a first message other than a) the first message be a digital communications message including a command and b) the command is for the base unit initiated by a user from the cellular remote unit. Therefore, the examiner interprets this first message as a digital communications message including a command, initiated by a user of the cellular remote device, from the cellular remote unit to the base unit, via a cellular communications network, and nothing more. Kates discloses (paragraph [0068], using the system of fig. 1) a responsible party 120 using cellular telephone 23 (~cellular remote unit) sending water shutoff instructions (~receive a first message from the cellular remote terminal via cellular communication network) to the monitoring computer (~base unit), which reads on receiving a first message from the cellular remote unit via a cellular communications network, as recited in claim 46 because the water shutoff instructions is a digital message comprising a command, and it is initiated by the responsible user from the cellular device 23.

The appellants further asserts that claim 46 requires different timing of the limitations than what is purportedly disclosed by Kates. The examiner respectfully disagrees. Claim 46 fails to disclose any timing limitation regarding the first and second message. In response to applicant's argument that the references fail to show certain

features of applicant's invention, it is noted that the features upon which applicant relies (i.e., different timing of first message and second message) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Claim 46 does not recite any timing for the first message and second message. Claim 46 merely discloses a wireless interface to receive a first message and to send a second message. The claim does not recite any time associated with receiving or transmitting messages.

Regarding claim 46, the appellant further asserts that the system in Kates would require additional hardware and/or software to detect and process signals initially received that are not made in response to a first communication from the monitoring computer. The examiner respectfully disagrees. Kates discloses two way messages in which the monitoring computer 113 transmits a message (see [0032]) and receives a message from a responsible party via one of the devices 121-124 (see [0068]). Furthermore, the monitoring computer has a base unit attached to it for transmitting and receiving (fig. 4, [0029], [0032], [0057]), and software (see [0013]). The transmission of data and reception of instructions from the responsible party ([0032], [0068]) indicates presence of transmitting and receiving circuitry. Therefore, the software and hardware required by Kates to implement two way communications at the monitoring station is clearly disclosed by Kates.

The appellants further assert that Kates fails to enable one of ordinary skill in the art to make the claimed subject matter without undue experimentation. Specifically, the

appellants further assert that Kates does not provide any enabling technology for communication outside of building 101 (see fig. 1 of Kates), as explained in the declaration submitted by the appellants on 04/06/2016 and 08/29/2016. The examiner respectfully disagrees.

The declaration states that Kates does not provide any enabling technology for communication "outside the dotted line" of Figure 1, and no details of how this communication is to happen are provided. Specifically, the declaration states that Kates does not include or cover a gateway system or cellular interface. The examiner respectfully disagrees. The evidence provided by the appellants in the declaration is insufficient to support the assertions in the declaration that there is no enabling communication for communication outside the dotted line. Communication between the monitoring computer 113 and the responsible party 120 utilize any one of telephone 121, pager 122, or cellular telephone 123 is disclosed in paragraphs [0005] and [0029], [0046] of Kates. When monitoring computer communicates with the cellular telephone 123 via the cellular telephone system as disclosed in paragraph [0029] of Kates, it is quite clear to one of ordinary skill in the art at the time of the invention that a cellular communication system for cellular telephone 123 would have a cellular system such as AMPS, 1G, 2G, 2.5G, and 3G (or any other wireless communication technology that precedes the filing date of the appellants' invention), which are all examples of communication standards for cellular telephones in operation before the filing date of applicants' application, and the cellular communication system(s) clearly have a gateway system (e.g., base station, base station controller, HLR...) for delivering

messages via cellular call or text messaging (see [0029], claims 15 and 16 of Kates), and the devices involved in voice and text messaging via using a cellular telephone to communicate with a cellular telephone communication system clearly have a cellular interface for the communicating via the cellular telephone communication system. The appellants' arguments (supported by the pp. 1-2 of the submitted declarations) that in 2004 relying on Kates on a cellular interface would have to be approved by the FCC since it would have to be created, installed, and configured by an expert, is not supported by any objective evidence from the declarant. Therefore, the declaration statement regarding the use of the cellular interface are conclusory statements unsupported by objective factual evidence. Therefore, the monitoring computer 113 communicating with the responsible party 120 via the cellular telephone communication system clearly uses enabling technologies.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

Conferees:

/CHARLES APPIAH/
Supervisory Patent Examiner, Art Unit 2641

/ANTHONY ADDY/

Supervisory Patent Examiner, Art Unit 2645

Requirement to pay appeal forwarding fee. In order to avoid dismissal of the instant appeal in any application or ex parte reexamination proceeding, 37 CFR 41.45 requires payment of an appeal forwarding fee within the time permitted by 37 CFR 41.45(a), unless appellant had timely paid the fee for filing a brief required by 37 CFR 41.20(b) in effect on March 18, 2013.

Application/Control Number: 13/271,203
Art Unit: 2641

Page 11

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant											☐ CPA											☒ T.D.											☐ R.1.47										
CLAIM		DATE																																									
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	11/11/2016																																	
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<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	11/11/2016
	37								✓	✓
	38								✓	✓
	39								○	○
	40								✓	✓
	41								✓	✓
	42								✓	✓
	43								✓	✓
	44								✓	✓
	45									✓
	46									✓
	47									✓

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 13/271,203

Group Art Unit: 2641

Filing Date: 10/11/2011

Examiner: OLUMIDE

Applicant: Charles G. Shamoon

Confirmation No: 1022

Title: Ubiquitous Connectivity And Control Systems For Remote Locations

Mailstop:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT UNDER 37 C.F.R. §1.116

Sir or Madam:

The following amendments and remarks are respectfully submitted in connection with the above-identified application.

Amendments to the Claims begin on page 2 of this Amendment.

Remarks begin on page 10 of this Amendment.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	25	-	32	=	0
Independent	2	-	4	=	0

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

1-7. (Canceled)

8. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote unit having wireless connectivity capable of communicating from a geographically remote location, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface, and

wherein the command is for the base unit initiated by a user from the cellular remote unit, and

wherein the control instruction to the environmental device is associated with the command for the base unit, wherein the cellular remote unit is configured to determine position data of the cellular remote unit, and determine when the cellular remote unit is outside a geo-fence, wherein the cellular remote unit is configured to transmit a notification via a simple message service responsive to determining that the cellular remote unit is outside of the geo-fence.

9-10. (Canceled)

11. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a remote unit having wireless connectivity, the base unit comprising:

a first communication interface configured to receive environmental information from the environmental device and to send a control instruction to the environmental device;

a wireless communication interface configured to send a first message to the remote unit via a communications network and to receive a second message from the remote unit via the communications network,

wherein the first message is a first digital communications message including a representation of the environmental information, and

wherein the second message is a second digital communications message including a command regarding the environmental device; and

a microcontroller configured to process the second message and to send the control instruction based on the command via the first communication interface to the environmental device, and

wherein the wireless communication interface is configured to send a third message to a subordinate remote unit via the communications network and to receive a fourth message from the subordinate remote unit via the communications network,

wherein the fourth message includes a subordinate command to the environmental device, and wherein the microcontroller is configured to process the fourth message and to send selectively a second control instruction based on the subordinate command via the first communication interface to the environmental device.

12. (Previously Presented) The base unit of claim 8, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

13. (Previously Presented) The base unit of claim 8, wherein the command is associated with an icon on the remote unit.

14. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust a temperature of a water heater.

15. (Previously Presented) The base unit of claim 8, wherein the control instruction is configured to adjust an air handling system.

16. (Previously Presented) The base unit of claim 8, wherein the cellular communications network includes a data bearer service.

17. (Previously Presented) The base unit of claim 8, wherein the remote unit is a mobile remote unit.

18. (Previously Presented) The base unit of claim 8, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

19. (Previously Presented) The base unit of claim 8, wherein the command is an energy conservation command associated with multiple environmental devices.

20. (Previously Presented) The base unit of claim 8,
wherein the cellular communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction;
and
wherein the command includes an environmental command.

21. (Previously Presented) The base unit of claim 20, wherein the second message includes an energy conservation command associated with multiple environmental devices.

22. (Previously Presented) The base unit of claim 20, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

23-26. (Canceled)

27. (Previously Presented) The base unit of claim 8, wherein the remote unit is a cellular telephone, and wherein the environmental device comprises a thermostat.

28. (Previously Presented) The base unit of claim 8, wherein the environmental device comprises at least one of a light, thermostat, or an alarm system.

29. (Canceled)

30. (Previously Presented) The base unit of claim 8, wherein the base unit and the environmental device are contained in the same enclosure.

31. (Canceled)

32. (Canceled)

33. (Canceled)

34-35. (Canceled)

36. (Previously Presented) The base unit of claim 45, wherein the base unit and the environmental device are contained in the same enclosure.

37. (Previously Presented) The base unit of claim 8, wherein the cellular communications network includes a simple message service.

38. (Currently Amended) The base unit of claim 8, wherein the ~~remote control unit is configured to determine position data of the remote control unit, and~~ cellular remote unit is configured to determine when the remote control unit is within a geofence.

39. (Cancelled)

40. (Previously Presented) The base unit of claim 8, wherein the base unit is configured to receive data from an external web service, and responsive to receiving the data the base unit sends the control instruction.

41. (Previously Presented) The base unit of claim 40, wherein the external web service is a weather service.

42. (Previously Presented) The base unit of claim 8, wherein the command includes cellular data.

43. (Previously Presented) The base unit of claim 8, wherein the command is initiated by a user from the cellular remote unit responsive to the user interacting with an icon on the remote control unit associated with the environmental device.

44. (Previously Presented) The base unit of claim 8, wherein the base unit comprises a cellular module configured to communicate data over the cellular communications network.

45. (Cancelled)

46. (Cancelled)

47. (Currently Amended) The base unit of claim 8 wherein the microcontroller is configured to send status information to the cellular remote unit ~~cellular remote~~ on a periodic basis.

REMARKS

Favorable reconsideration of this application, in light of the preceding amendments and following remarks, is respectfully requested. Claims 8 has been amended to include allowable subject matter previously recited in allowable claim 39. Independent claim 11 was previously allowable. The other independent claims have been cancelled. No new matter is added. These amendments should be entered based on MPEP 1206 that states amendments filed on or after the date of filing a brief pursuant to 41.37 may be admitted to rewrite dependent claims into independent form. As such, all of the pending independent claims are allowable.

The claims have been amended to overcome minor informalities, and put the case in condition for allowance. On page 23 of the prior office action the Examiner indicated that claim 11 is allowed, and claim 39 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim. As such, claim 39 has been incorporated into independent claim 8.

CONCLUSION

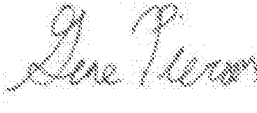
In view of the above remarks and amendments, the Applicants respectfully submit that each of the pending objections and rejections has been addressed and overcome, placing the present application in condition for allowance. A notice to that effect is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned, at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 506047 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

Pierson Intellectual Property, LLC

BY: 

Gene Pierson, Reg. No. 67,359
7000 N. Mopac Expressway,
Second Floor
Austin, Texas 78731
(703) 598-9443

Electronic Acknowledgement Receipt	
EFS ID:	28059479
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	GSHAM.00101
Receipt Date:	13-JAN-2017
Filing Date:	11-OCT-2011
Time Stamp:	14:09:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Argument after Notice of Appeal	Shamoon10100Aresponseafter appeal.pdf	254066	no	10
			c124c98d6eeb61e697ec078d8fb5a218a1d13f6		
Warnings:					

Information:	
Total Files Size (in bytes):	254066
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/271,203		Filing Date 10/11/2011		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	01/13/2017		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		* 25		Minus	** 32	= 0		
	Independent (37 CFR 1.16(h))		* 2		Minus	*** 4	= 0		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		*		Minus	**	=		
	Independent (37 CFR 1.16(h))		*		Minus	***	=		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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109967 7590 02/07/2017
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008

EXAMINER	
AJIBADE AKONAI, OLUMIDE	
ART UNIT	PAPER NUMBER
2641	

DATE MAILED: 02/07/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022

TITLE OF INVENTION: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	05/08/2017

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

109967 7590 02/07/2017
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022

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nonprovisional	SMALL	\$480	\$0	\$0	\$480	05/08/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
AJIBADE AKONAI, OLUMIDE	2641	455-466000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev. 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
109967	7590	02/07/2017	EXAMINER	
Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008			AJIBADE AKONAI, OLUMIDE	
			ART UNIT	PAPER NUMBER
			2641	
DATE MAILED: 02/07/2017				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to claims submitted 01/13/2017.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 8,11-22,27,28,30,37,38,40-44 and 47. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:
a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☒ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	7. ☐ Other _____
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date <u>01/26/2017</u> .	

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Gene Pierson (67359) on January 26, 2017.

The application has been amended as follows:

Claim 36. (cancelled)

Allowable Subject Matter

2. Claims 8, 11-22, 27, 28, 30, 37, 38, 40-44, and 47 allowed.

The following is an examiner's statement of reasons for allowance: Claims 8, 11-22, 27, 28, 30, 37, 38, 40-44, and 47 are indicated allowable in view the amendment to the claims and associated remarks submitted January 13, 2017, and the examiner's amendment approved by the applicants' representative on January 26, 2017.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 13/271,203
Art Unit: 2641

Page 4

/OLUMIDE T AJIBADE AKONAI/
Primary Examiner, Art Unit 2641

<i>Examiner-Initiated Interview Summary</i>	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	

All participants (applicant, applicant's representative, PTO personnel):

(1) OLUMIDE T. AJIBADE AKONAI. (3) ____.

(2) Gene Pierson (67359). (4) ____.

Date of Interview: 26 January 2017.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: ____.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☐ 103 ☒ Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 36.

Identification of prior art discussed: none.

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The applicants' representative approved an examiner's amendment canceling claim 36 in order to place the application in condition for allowance.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 13/271,203

Group Art Unit: 2641

Filing Date: 10/11/2011

Examiner: OLUMIDE

Applicant: Charles G. Shamoon

Confirmation No: 1022

Title: Ubiquitous Connectivity And
Control Systems For Remote
Locations

OK TO ENTER: /O.A/

Mailstop:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

01/26/2017

Dear Sir:

AMENDMENT UNDER 37 C.F.R. §1.116

Sir or Madam:

The following amendments and remarks are respectfully submitted in connection with the above-identified application.

Amendments to the Claims begin on page 2 of this Amendment.

Remarks begin on page 10 of this Amendment.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	25	-	32	=	0
Independent	2	-	4	=	0

Search Notes 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner
H04M1/72533 2250/16 2250/22 2250/12 11/007	2/14/2016	OA
G06F19/3418 21/305	2/14/2016	OA
H04W4/001 88/02	2/14/2016	OA
H04N21/4222 21/4126 21/41407	2/14/2016	OA
H04M1/72533 2250/16 2250/22 2250/12 11/007	1/26/2017	OA
H04W4/001 88/02 48/08 64/00 84/105 88/08 4/046 76/025	1/26/2017	OA
G06F19/3418 21/305	1/26/2017	OA

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	466,404.2,414.2,456.1-456.6	01/31/2013	X.Z
455	418-420	12/30/2013	X.Z
455	418,419,566	2/14/2016	OA
455	418-420,466	1/26/2017	OA
340	539.11,539.13,539.22,539.24,539.27,539.29,540	1/26/2017	OA

SEARCH NOTES		
Search Notes	Date	Examiner
See East Search Notes	02/01/2013	X.Z
Consulted Primary Examiner Olumide	01/29/2013	X.Z
See East Search Notes	11/08/2013	X.Z
See East Search Notes	12/30/2013	X.Z
See East Search Notes	03/13/2014	X.Z
Consulted with Primary Examiner Olumide Ajibade-Akonai	11/22/2014	X.Z
See East Search Notes	12/09/2014	X.Z
See East Search Notes	06/17/2015	X.Z
EAST SEARCH	2/14/2016	OA

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641

SEARCH NOTES		
Search Notes	Date	Examiner
EAST search	6/19/2016	OA
EAST search	1/26/2017	OA

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
H04W	4/001 88/02 48/08 64/00 84/105 88/08 4/046 76/025	1/26/2017	OA
H04M	1/72533 2250/16 2250/22 2250/12 11/007 3/42	1/26/2017	OA
340	539.11,539.13,539.22,539.24,539.27,539.29,540	1/26/2017	OA
455	418-420,466	1/26/2017	OA

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	11/11/2016
	1								-	-
	2								-	-
	3								-	-
	4								-	-
	5								-	-
	6								-	-
	7								-	-
	8								✓	✓
	9								-	-
	10								-	-
	11								=	=
	12								✓	✓
	13								✓	✓
	14								✓	✓
	15								✓	✓
	16								✓	✓
	17								✓	✓
	18								✓	✓
	19								✓	✓
	20								✓	✓
	21								✓	✓
	22								✓	✓
	23								-	-
	24								-	-
	25								-	-
	26								✓	-
	27								✓	✓
	28								✓	✓
	29								✓	-
	30								✓	✓
	31								✓	-
	32								✓	✓
	33								✓	✓
	34								-	-
	35								-	-
	36								✓	✓

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	11/11/2016
	37								✓	✓
	38								✓	✓
	39								O	O
	40								✓	✓
	41								✓	✓
	42								✓	✓
	43								✓	✓
	44								✓	✓
	45									✓
	46									✓
	47									✓

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	227	shamoon.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 09:50
L2	13	1 and H04W\$.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 09:52
L3	60	("20020149705" "20030034897" "20030034898" "20040092282" "20040128033" "20040235446" "20040260406" "20050044225" "20050079880" "20050259618" "4918439" "4965557" "5109222" "5247580" "5544036" "5545857" "5579496" "5621662" "5778256" "5805530" "5818428" "5917105" "5924486" "6005490" "6014089" "6081750" "6104334" "6192282" "6195589" "6216956" "6260765" "6264559" "6301481" "6393297" "6394359" "6398727" "6476714" "6650249" "6813474" "6820049" "6847822" "6854660" "6873824" "6919790" "6934862" "6957393" "6959196" "6970539" "7005979" "7031663" "7610113").PN. OR ("8064935").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/01/26 09:55
L4	2	(cellular and remote and environmental and instruction and interface).clm. AND ((H04M1/72533 OR H04M2250/16 OR H04M2250/22 OR H04M2250/12 OR H04M11/007 OR G06F19/3418 OR G06F21/305 OR H04W4/001 OR H04W88/02 OR H04N21/4222 OR H04N21/4126 OR H04N21/41407).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 10:07
L5	89	("20020133545" "20020149705" "20030034897" "20030034898" "20040092282" "20040128033" "20040235446" "20050044225" "20050085928" "20050131551" "20060046725" "4918439" "4965557" "5109222" "5247580" "5544036" "5545857" "5579496" "5621662" "5778256" "5805530" "5818428" "5917105" "5924486" "6005490" "6014089" "6081750" "6104334" "6192282" "6195589" "6216956" "6260765" "6264559" "6301481" "6393297" "6394359" "6398727" "6400956" "6476714" "6650249" "6813474" "6820049" "6847822" "6854660" "6873824" "6919790" "6934862" "6957393" "7005979").PN. OR ("7643823").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/01/26 10:07
L6	6	(cellular and remote and environmental and instruction and interface).clm. AND ("455"/\$.ccls. or "340"/\$.ccls.)	US-PGPUB; USPAT;	OR	OFF	2017/01/26 10:09

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L7	0	(cellular and remote and geo\$1fence and "simple message").clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 10:11
L8	22	("base unit" and first and second and third and fourth and message).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 10:11
L9	13	2 AND ((H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08 OR H04W64/00 OR H04W84/105 OR H04W88/08 OR H04W4/046 OR H04W76/025).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 10:14
L10	23	kates.in. and (455/\$.ccls. or 370/338.ccls.)	US-PGPUB; USPAT	OR	OFF	2017/01/26 10:16
L11	9	sensor with (command\$3 instruct\$4) same (cellular wireless) same (environmental moisture humidity temperature) AND ((H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08 OR H04W64/00 OR H04W84/105 OR H04W88/08 OR H04W4/046 OR H04W76/025).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 10:38
L12	53	sensor same (command\$3 instruct\$4) same (cellular wireless) same (environmental moisture humidity temperature heat pressure) AND ((H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08 OR H04W64/00 OR H04W84/105 OR H04W88/08 OR H04W4/046 OR H04W76/025).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 11:09
L13	723	sensor same (command\$3 instruct\$4) same (cellular wireless) same (environmental moisture humidity temperature heat pressure) AND (455/418,419,420,466.ccls. or 370/338.ccls. or 340/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 11:26
L14	192	sensor same (command\$3 instruct\$4) same ((cellular wireless) near2 (network system)) same (environmental moisture humidity temperature heat pressure) AND (455/418,419,420,466.ccls. or 370/338.ccls. or 340/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 11:28
L15	6	14 AND ((H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08 OR H04W64/00 OR H04W84/105 OR H04W88/08 OR H04W4/046 OR H04W76/025).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/01/26 11:29

			DERWENT; IBM_TDB			
L16	56	sensor same (command\$3 instruct\$4) same ((cellular wireless) near2 (network system)) same (environmental moisture humidity temperature heat pressure) AND (455/418,419,420,466.ccls. or 370/338.ccls. or 340/539.11,539.13,539.22,539.24,539.27,539.29,540.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 11:36
L17	40	("20020002425" "3794992" "4184789" "4567563" "4726239" "4847781" "5385297" "5740031" "5813606" "6275500" "6452499" "6553336" "6600971").PN. OR ("7339957").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/01/26 11:37
L18	37	("20030151513" "20030152041" "20040008651" "20040088082" "20040144849" "20050122231" "5841360" "5844888" "6134303" "6182130" "6208905" "6414968" "6437692" "6493739" "6580950" "6727816" "6741174" "6741571" "6891838" "7012524" "7012534" "7042352" "7339957").PN. OR ("7860495").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/01/26 11:37
L19	2	(cellular and remote and environmental and instruction and interface).clm. AND (455/418,419,420,466.ccls. or 370/338.ccls. or 340/539.11,539.13,539.22,539.24,539.27,539.29,540.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 11:46
L20	8	1 AND (455/418,419,420,466.ccls. or 370/338.ccls. or 340/539.11,539.13,539.22,539.24,539.27,539.29,540.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/01/26 11:46

1/ 26/ 2017 11:47:30 AM

C:\Users\oajibadeakonai\Documents\EAST\Workspaces\13271203.wsp

Issue Classification 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641	

CPC					
Symbol				Type	Version
H04M	3	42		F	2013-01-01
G01D	21	00		I	2013-01-01
G08C	17	02		I	2013-01-01
G08C	2201	42		A	2013-01-01
G08C	2201	50		A	2013-01-01
G08C	2201	91		A	2013-01-01
G08C	2201	93		A	2013-01-01
H04L	12	2825		I	2013-01-01
H04L	12	2827		I	2013-01-01
H04M	1	72533		I	2013-01-01
H04M	2203	1016		A	2013-01-01
H04M	2207	18		A	2013-01-01
H04W	48	08		A	2013-01-01
H04W	64	00		A	2013-01-01
H04W	84	105		A	2013-01-01
H04W	88	08		A	2013-01-01

CPC Combination Sets						
Symbol			Type	Set	Ranking	Version

(Assistant Examiner)		(Date)		Total Claims Allowed:	
				24	
/OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641		01/26/2017		O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)		(Date)		1	1

Issue Classification 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

US ORIGINAL CLASSIFICATION						INTERNATIONAL CLASSIFICATION													
CLASS		SUBCLASS				CLAIMED					NON-CLAIMED								
455		420				H	O	4	M	3 / 00 (2006.01.01)									
CROSS REFERENCE(S)																			
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)																		
455	418	419	466																
340	539.11	539.13	539.22	539.24	539.27														
340	539.29	540																	

		Total Claims Allowed:	
		24	
(Assistant Examiner)	(Date)		
/OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641	01/26/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
-	1	7	17	-	33										
-	2	8	18	-	34										
-	3	9	19	-	35										
-	4	10	20	-	36										
-	5	11	21	16	37										
-	6	12	22	17	38										
-	7	-	23	-	39										
8	8	-	24	18	40										
-	9	-	25	19	41										
-	10	-	26	20	42										
24	11	13	27	21	43										
2	12	14	28	22	44										
3	13	-	29	-	45										
4	14	15	30	-	46										
5	15	-	31	23	47										
6	16	-	32												

		Total Claims Allowed:	
		24	
(Assistant Examiner) /OLUMIDE T AJIBADE AKONAI/ Primary Examiner.Art Unit 2641	(Date) 01/26/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Document Description: Issue Fee Payment (PTO-85B)

Issue Fee Transmittal Form

Application Number	Filing Date	First Named Inventor	Atty. Docket No.	Confirmation No.
13271203	11-Oct-2011	Charles Shamoon	GSHAM.00101	1022

TITLE OF INVENTION :

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Entity Status	Application Type	Art Unit	Class - Subclass	EXAMINER
Small	Utility under 35 USC 111(a)	2641	466000	OLUMIDE AJIBADE AKON
Issue Fee Due	Publication Due	Total Fee(s) Due	Date Due	Prev. Paid Fee
\$480	\$0	\$480	08-May-2017	\$0

1.Change of Correspondence Address and/or Indication Of Fee Address (37 CFR 1.33 & 1.363)

Current Correspondence Address:	Current Indicated Fee Address :
109967 Pierson IP, PLLC 415 West 16th St SUITE B Houston TX 77008 UNITED STATES 703-598-9443 USPTO@docketrak.com	
☐ Change of correspondence address requested, system generated AIA/122-EFS form attached	☐ Fee Address indication requested, system generated SB/47-EFS form attached

2.Entity Status**Change in Entity Status**

Applicant certifying micro entity status; system generated Micro Entity certification form attached. See 37 CFR 1.29.

- ☐ Note: Absent a valid certification of micro entity status, issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. If this box is checked, you will be prompted to choose a micro entity status on the gross income basis (37 CFR 1.29(a)) or the institution of higher education basis (37 CFR 1.29(d)), and make the applicable certification online.

- ☒ Applicant asserting small entity status. See 37 CFR 1.27.

Note: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

- ☐ Applicant changing to regular undiscounted fee status.

Note: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

Document Description: Issue Fee Payment (PTO-85B)

3.The Following Fee(s) Are Submitted:☒ Issue Fee☐ I authorize USPTO to apply my previously paid issue fee to the current fees due☐ Publication Fee☐ The Director is hereby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number _____☐ Advance Order - # of copies _____

☐ If **in addition to** the payment of the issue fee amount submitted with this form, there are any discrepancies in any amount(s) due, the Director is authorized to charge any deficiency, or credit any overpayment, to Deposit Account Number _____.

☐ The **issue fee must be submitted** with this form. **If payment of the issue fee does not accompany this form, checking this box and providing a deposit account number will NOT be effective to satisfy full payment of the fee(s) due.**

4.Firm and/or Attorney Names To Be Printed**NOTE: If no name is listed, no name will be printed**

For printing on the patent front page, list to be displayed as entered

1.

2.

3.

5.Assignee Name(s) and Residence Data To Be Printed

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

Name	City	State	Country	Category
Ubiquitous Connectivity, LP	Little Elm	TEXAS	united states	corporation

6.Signature

I certify, in accordance with 37 CFR 1.4(d)(4) that I am an attorney or agent registered to practice before the Patent and Trademark Office who has filed and has been granted power of attorney in this application. I also certify that this Fee(s) Transmittal form is being transmitted to the USPTO via EFS-WEB on the date indicated below.

Signature	/Gene Pierson/	Date	02-07-2017
Name	Eugene Gordon Pierson	Registration Number	67359

Electronic Patent Application Fee Transmittal				
Application Number:		13271203		
Filing Date:		11-Oct-2011		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Eugene Gordon Pierson		
Attorney Docket Number:		GSHAM.00101		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPL ISSUE FEE	2501	1	480	480
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt	
EFS ID:	28286691
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	GSHAM.00101
Receipt Date:	07-FEB-2017
Filing Date:	11-OCT-2011
Time Stamp:	14:13:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$480
RAM confirmation Number	020817INTEFSW14133900
Deposit Account	506047
Authorized User	Gene Pierson
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.20 (Post Issuance fees) 37 CFR 1.21 (Miscellaneous fees and charges)	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Web85b.pdf	45999	no	2
			37e9a60b2b20d4500094f7777a20ce6b0b8d7276		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32030	no	2
			3849a7cc4c1976c5afde02f759a2443765aae21e		
Warnings:					
Information:					
Total Files Size (in bytes):			78029		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	10/11/2011	Charles G. Shamoon	GSHAM.00101	1022
109967 7590 Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 02/16/2017	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gene.pierson@piersonip.com
USPTO@dockettrak.com
gene.pierson@gmail.com

Corrected Notice of Allowability	Application No. 13/271,203	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to claims submitted 01/13/2017.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 8,11-22,27,28,30,37,38,40-44 and 47. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892) 2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____	5. ☐ Examiner's Amendment/Comment 6. ☐ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____

/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 2641	

Issue Classification 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641	

CPC					
Symbol				Type	Version
H04M	3	42		F	2013-01-01
G01D	21	00		I	2013-01-01
G08C	17	02		I	2013-01-01
G08C	2201	42		A	2013-01-01
G08C	2201	50		A	2013-01-01
G08C	2201	91		A	2013-01-01
G08C	2201	93		A	2013-01-01
H04L	12	2825		I	2013-01-01
H04L	12	2827		I	2013-01-01
H04M	1	72533		I	2013-01-01
H04M	2203	1016		A	2013-01-01
H04M	2207	18		A	2013-01-01
H04W	48	08		A	2013-01-01
H04W	64	00		A	2013-01-01
H04W	84	105		A	2013-01-01
H04W	88	08		A	2013-01-01

CPC Combination Sets						
Symbol			Type	Set	Ranking	Version

(Assistant Examiner)		(Date)		Total Claims Allowed: 24	
/OLUMIDE T AJIBADE AKONAI/		01/26/2017		O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)		(Date)		1	1

Issue Classification 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

US ORIGINAL CLASSIFICATION						INTERNATIONAL CLASSIFICATION												
CLASS			SUBCLASS			CLAIMED					NON-CLAIMED							
455			420			H	O	4	M	3 / 00 (2006.01.01)								
CROSS REFERENCE(S)																		
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)																	
455	418	419	466															
340	539.11	539.13	539.22	539.24	539.27													
340	539.29	540																

(Assistant Examiner)		(Date)		Total Claims Allowed:	
				24	
/OLUMIDE T AJIBADE AKONAI/ Primary Examiner. Art Unit 2641		01/26/2017		O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)		(Date)		1	1

Issue Classification 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
-	1	7	17	-	33										
-	2	8	18	-	34										
-	3	9	19	-	35										
-	4	10	20	-	36										
-	5	11	21	16	37										
-	6	12	22	17	38										
-	7	-	23	-	39										
1	8	-	24	18	40										
-	9	-	25	19	41										
-	10	-	26	20	42										
24	11	13	27	21	43										
2	12	14	28	22	44										
3	13	-	29	-	45										
4	14	15	30	-	46										
5	15	-	31	23	47										
6	16	-	32												

		Total Claims Allowed:	
		24	
(Assistant Examiner) /OLUMIDE T AJIBADE AKONAI/ Primary Examiner. Art Unit 2641	(Date) 01/26/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Receipt date: 04/23/2015

13271203 - GAU: 2641

Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13271203
	Filing Date	2011-10-11
	First Named Inventor	SHAMOON, Charles
	Art Unit	2641
	Examiner Name	ZHANG, Xiang
	Attorney Docket Number	GSHAM.00101

U.S.PATENTS						Remove		
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
/O.A./	1	7343226	B2	2008-03-11	Ehlers et al.			
/O.A./	2	7643823	B2	2010-01-05	Shamoon et al.			
/O.A./	3	7949615	B2	2011-05-24	Ehlers et al.			
/O.A./	4	8064935	B2	2011-11-22	Shamoon et al.			
If you wish to add additional U.S. Patent citation information please click the Add button.						Add		
U.S.PATENT APPLICATION PUBLICATIONS						Remove		
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
/O.A./	1	20050033707	A1	2005-02-10	Ehlers et al.			
If you wish to add additional U.S. Published Application citation information please click the Add button.						Add		
FOREIGN PATENT DOCUMENTS						Remove		
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13271203
Filing Date	2011-10-11
First Named Inventor	SHAMOON, Charles
Art Unit	2641
Examiner Name	ZHANG, Xiang
Attorney Docket Number	GSHAM.00101

	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button **Add**

NON-PATENT LITERATURE DOCUMENTS

Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button **Add**

EXAMINER SIGNATURE

Examiner Signature	/OLUMIDE AJIBADE AKONAI/	Date Considered	02/09/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13271203
Filing Date	2011-10-11
First Named Inventor	SHAMOON, Charles
Art Unit	2641
Examiner Name	ZHANG, Xiang
Attorney Docket Number	GSHAM.00101

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Vincent J. Allen/	Date (YYYY-MM-DD)	2015-04-23
Name/Print	Vincent J. Allen	Registration Number	45514

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	02/09/2017
	1								-	-
	2								-	-
	3								-	-
	4								-	-
	5								-	-
	6								-	-
	7								-	-
1	8								✓	=
	9								-	-
	10								-	-
24	11								=	=
2	12								✓	=
3	13								✓	=
4	14								✓	=
5	15								✓	=
6	16								✓	=
7	17								✓	=
8	18								✓	=
9	19								✓	=
10	20								✓	=
11	21								✓	=
12	22								✓	=
	23								-	-
	24								-	-
	25								-	-
	26								✓	-
13	27								✓	=
14	28								✓	=
	29								✓	-
15	30								✓	=
	31								✓	-
	32								✓	-
	33								✓	-
	34								-	-
	35								-	-
	36								✓	-

<i>Index of Claims</i> 	Application/Control No. 13271203	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T. AJIBADE-AKONAI	Art Unit 2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant		☐ CPA		☒ T.D.		☐ R.1.47					
CLAIM		DATE									
Final	Original	02/01/2013	11/08/2013	03/13/2014	08/20/2014	12/09/2014	06/17/2015	06/24/2015	02/14/2016	02/09/2017	
16	37								✓	=	
17	38								✓	=	
	39								O	-	
18	40								✓	=	
19	41								✓	=	
20	42								✓	=	
21	43								✓	=	
22	44								✓	=	
	45									-	
	46									-	
23	47									=	



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/271,203	03/21/2017	9602655	GSHAM.00101	1022

109967 7590 03/01/2017
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Charles G. Shamoan, Little Elm, TX;
Deborah H. Shamoan, Little Elm, TX;
Franklin Eugene Neal, Ashland, KY;
Michael Fehnel, Fuquay Varina, NC;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas- Tyler Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:17-cv-00433	DATE FILED 7/27/2017	U.S. DISTRICT COURT Eastern District of Texas- Tyler Division
PLAINTIFF Ubiquitous Connectivity, LP		DEFENDANT TXU Energy Retail Company, LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,064,935	11/22/2011	Ubiquitous Connectivity, LP
2 9,602,655	3/21/2017	Ubiquitous Connectivity, LP
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

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☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:17-cv-00433	DATE FILED 7/27/2017	U.S. DISTRICT COURT Eastern District of Texas- Tyler Division
PLAINTIFF Ubiquitous Connectivity, LP		DEFENDANT TXU Energy Retail Company, LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,064,935	11/22/2011	Ubiquitous Connectivity, LP
2 9,602,655	3/21/2017	Ubiquitous Connectivity, LP
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

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 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Oklahoma on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 18-cv-368-JED-FHM	DATE FILED 7/17/2018	U.S. DISTRICT COURT Northern District of Oklahoma
PLAINTIFF Ubiquitous Connectivity, LP		DEFENDANT Central Security Group - Nationwide, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 8,064,935		Ubiquitous Connectivity, LP
2 US 9,602,655		Ubiquitous Connectivity, LP
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
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5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK Mark C. McCartt	(BY) DEPUTY CLERK	DATE

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 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - San Antonio on the following

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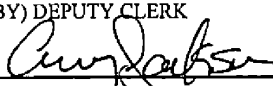
DOCKET NO. 5:18cv718	DATE FILED 7/12/2018	U.S. DISTRICT COURT Western District of Texas - San Antonio
PLAINTIFF UBIQUITOUS CONNECTIVITY, LP		DEFENDANT CITY OF SAN ANTONIO by and through its agent, CITY PUBLIC SERVICE BOARD OF SAN ANTONIO d/b/a CPS ENERGY
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 <u>see attached c</u>		
2 <u>8064935</u>		
3 <u>9602655</u>		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK Jeannette J. Clack	(BY) DEPUTY CLERK  Amy Jackson	DATE 7/12/2018

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

"FEE ADDRESS" INDICATION FORM

Address to:
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P.O. Box 1450
Alexandria, VA 22313-1450

Fax to:
571-273-6500

- OR -

INSTRUCTIONS: The issue fee must have been paid for application(s) listed on this form. In addition, only an address represented by a Customer Number can be established as the fee address for maintenance fee purposes (hereafter, fee address). A fee address should be established when correspondence related to maintenance fees should be mailed to a different address than the correspondence address for the application. **When to check the first box below:** If you have a Customer Number to represent the fee address. **When to check the second box below:** If you have no Customer Number representing the desired fee address, in which case a completed Request for Customer Number (PTO/SB/125) must be attached to this form. For more information on Customer Numbers, see the Manual of Patent Examining Procedure (MPEP) § 403.

For the following listed application(s), please recognize as the "Fee Address" under the provisions of 37 CFR 1.363 the address associated with:

☒ Customer Number: **24112**

OR

☐ The attached Request for Customer Number (PTO/SB/125) form.

PATENT NUMBER (if known)	APPLICATION NUMBER
9,602,655	13/271,203

Completed by (check one):

☐ Applicant/Inventor


Signature

☐ Attorney or Agent of record _____
(Reg. No.)

Charles Shamoon

UBIQUITOUS CONNECTIVITY, LP

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed.
(Form PTO/SB/96)

214-491-7247

Requester's telephone number

☒ Assignee recorded at Reel 028125 Frame 0418
028125 0242

10/2/18
Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ * Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.363. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 5 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND COMPLETE D FORMS TO THIS ADDRESS.
SEND TO: Mail Stop M Correspondence, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Electronic Acknowledgement Receipt	
EFS ID:	33952694
Application Number:	13271203
International Application Number:	
Confirmation Number:	1022
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Stephen A. Herrera/Kristi Dunshee
Filer Authorized By:	Stephen A. Herrera
Attorney Docket Number:	GSHAM.00101
Receipt Date:	09-OCT-2018
Filing Date:	11-OCT-2011
Time Stamp:	12:39:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Maintenance Fee Address Change	9602655.pdf	650408	no	1
			59becf310a664d6abd76c649a68898fcb18444bd		
Warnings:					

Information:	
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