

**What is claimed is:**

**[Claim 1]** 1. A detection system for selectively determining the presence of individuals within a proximate distance of a structure, said detection system comprising: a base unit at said structure; a first remote unit operated by one of the individuals and transmitting a first identification signal; a second remote device operated by another of the individuals and transmitting a second identification signal; receiving means associated with said base unit for receiving said authorizations codes when the associated remote device is within the proximate distance of the structure; selection means operatively associated with said base unit for selectively establishing an authorized user status to said remote devices based on said identification signal; instant wireless connectivity means for transmitting to a master remote unit the presence of a remote unit with said proximate distance of said structure based on said authorized user status.

**[Claim 2]** 2. The system as recited in claim 1 wherein said base unit includes a Bluetooth transmitter and receive module for bidirectional communications with said remote units.

**[Claim 3]** 3. The system as recited in claim 1 wherein said base unit includes a bidirectional radio frequency communications module conforming to the 802.11 protocol.

**[Claim 4]** 4. The system as recited in claim 1 wherein said remote units include cellular telephones including Bluetooth bidirectional communications modules.

**[Claim 5]** 5. The system as recited in claim 1 wherein said receiving means associated with said base unit is a Bluetooth bidirectional communications module.

**[Claim 6]** 6. The system as recited in claim 1 wherein said receiving means associated with said base unit is a bidirectional radio frequency communications module conforming to the 802.11 protocol.

**[Claim 7]** 7. The system as recited in claim 1 wherein said selection means comprises a microcontroller-based processing unit having customizable application specific software.

**[Claim 8]** 8. The system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the Bluetooth communications protocol.

**[Claim 9]** 9. The system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the 802.11 communications protocol.

**FEE TRANSMITTAL**

Electronic Version v10

Stylesheet Version v10

<b>Title of Invention</b>	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS																												
Application Number :																													
Date :																													
First Named Applicant:		Charles G. SHAMOON																											
Attorney Docket Number:		7279-06-06																											
<b>TOTAL FEE AUTHORIZED \$ 425</b>																													
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Credit account number:		7901																											
Expiration Date (YYYYMMDD):		2008-07-31																											
Authorized name:		Michael C. Phillips																											
Billing address:		27511																											

## **ABSTRACT**

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.

## UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

### DESCRIPTION

#### Related Application

[Para 1] This application is a divisional of United States Application No. 11/163,372, filed October 17, 2005, currently pending, which is a divisional of United States Application No. 11/160,006, filed June 6, 2005, now United States Patent Number 6,990,335, issued January 24, 2006, which claims the benefit of United States Provisional Application No. 60/522,887, filed November 18, 2004, in the name of Charles Shamoon and entitled "Ubiquitous Connectivity and Control System for Remote Locations".

#### Field of the Invention

[Para 2] 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

[Para 3] 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.

[Para 4] 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 development 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.

[Para 5] 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.

**[Para 6]** The invention of the microcontroller and microcomputer has spawned a robust industry in home automation. An endless number of systems has 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.

**[Para 7]** 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.

**[Para 8]** 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.

**[Para 9]** 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.

**[Para 10]** 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.

**[Para 11]** 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

**[Para 12]** 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.

**[Para 13]** 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

**[Para 14]** 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:

**[Para 15]** Figure 1 is a block diagram illustrating a connectivity and control system according to an embodiment of the present invention;

**[Para 16]** Figure 2 is a block diagram of the remote control unit of the system of Figure 1;

**[Para 17]** Figure 3 is a block diagram of the essential components of the remote control unit of the system of Figure 1; and

**[Para 18]** Figure 4 is a block diagram of the base control unit of the system of Figure 1.

**[Para 19]** Similar reference characters denote corresponding features consistently throughout the attached drawings.

#### Detailed Description of the Preferred Embodiments

**[Para 20]** 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.

**[Para 21]** 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.

**[Para 22]** 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.

**[Para 23]** 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.

**[Para 24]** 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.

[Para 25] 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.

[Para 26] 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.

[Para 27] 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.

[Para 28] 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.

[Para 29] 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.

[Para 30] 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.

**[Para 31]** 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.

**[Para 32]** 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.

**[Para 33]** 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 .

**[Para 34]** 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).

**[Para 35]** 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.

**[Para 36]** 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.

**[Para 37]** 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.

**[Para 38]** 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.

**[Para 39]** 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.

**[Para 40]** 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.

[Para 41] 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.

[Para 42] 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.

[Para 43] 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 \r Set Module in PDU Message format

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

0041000AC10294268088000023060504C3C800003C7AB90D07E9DFEE724F041381  
EC6176BDDC13DD64A2970F <ctrl-Z>

**[Para 44]** 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.

**[Para 45]** 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).

**[Para 46]** 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).

**[Para 47]** 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.

**[Para 48]** 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.

[Para 49] 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.

[Para 50] 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.

[Para 51] 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.

[Para 52] 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 assistances, 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.

[Para 53] 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 enable 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.

**[Para 54]** 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.

**[Para 55]** 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.

**[Para 56]** 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.

**[Para 57]** 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.

**[Para 58]** 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.

**[Para 59]** 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 to the content of the message data.

**[Para 60]** 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.

**[Para 61]** 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.

**[Para 62]** 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.

**[Para 63]** 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.

**[Para 64]** 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.

**[Para 65]** 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.

**[Para 66]** 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.

**[Para 67]** 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.

**[Para 68]** 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.

**[Para 69]** 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.


**[Para 70]** 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.

**[Para 71]** 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 claim.

## ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

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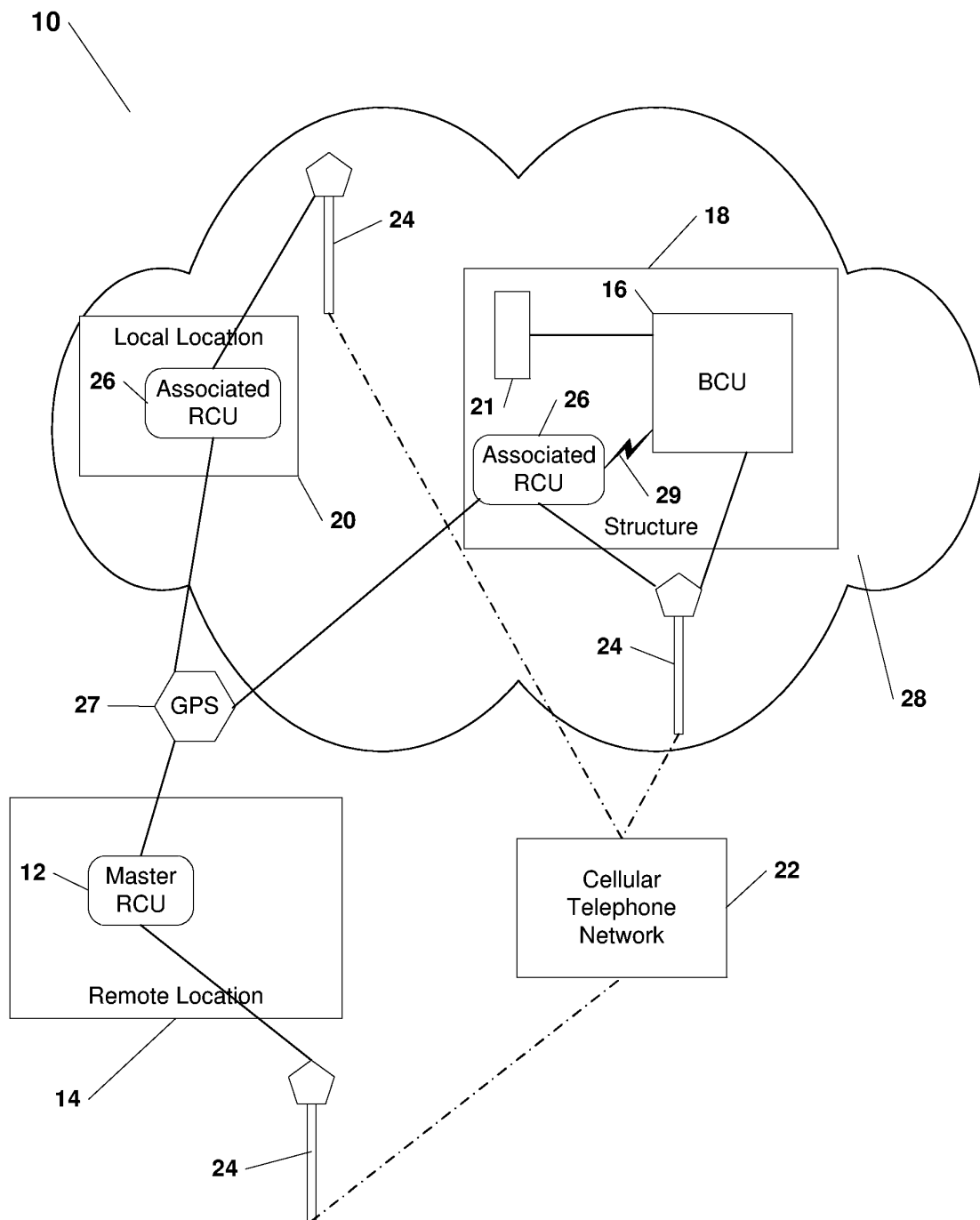


Fig. 1

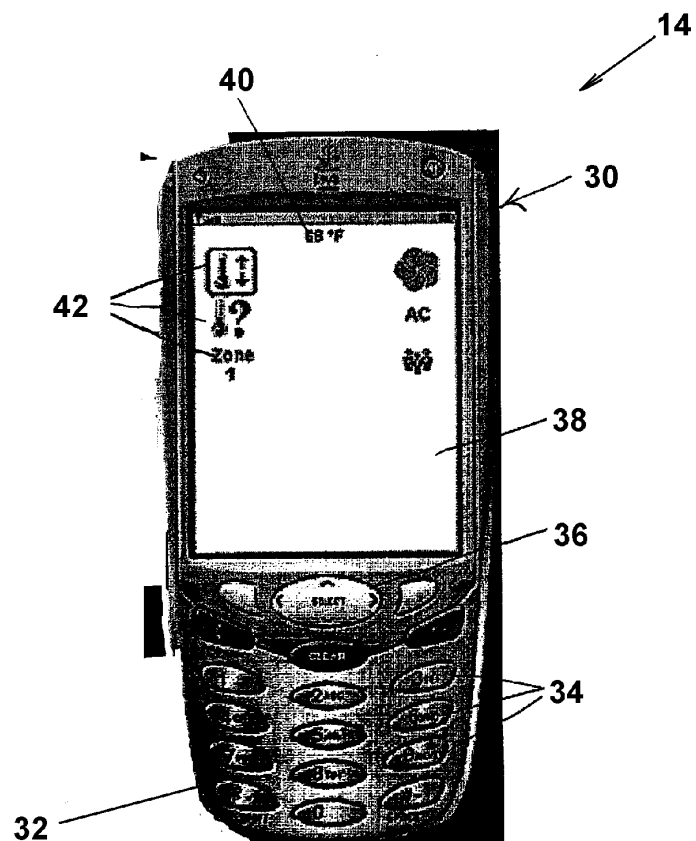
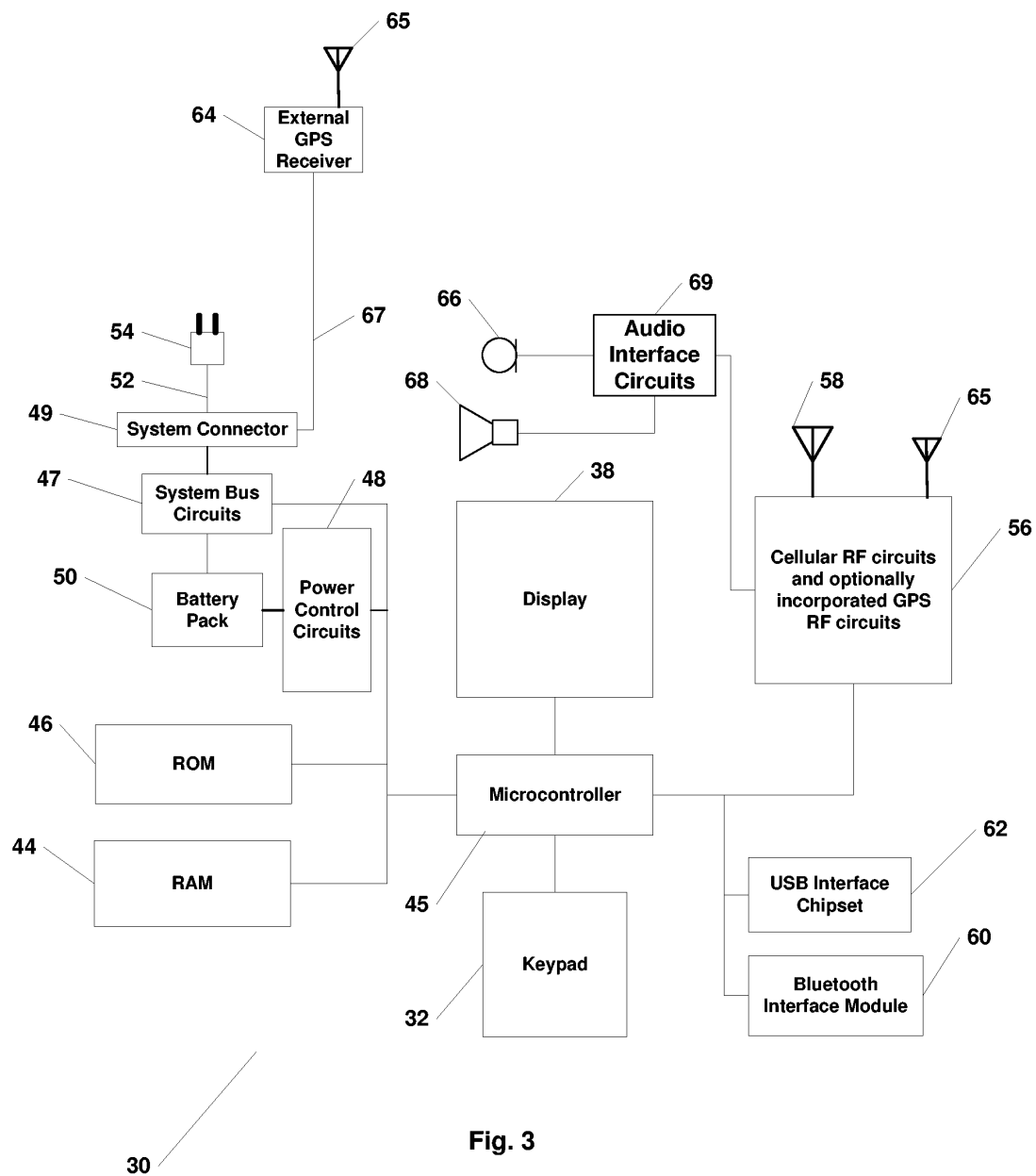


Fig. 2



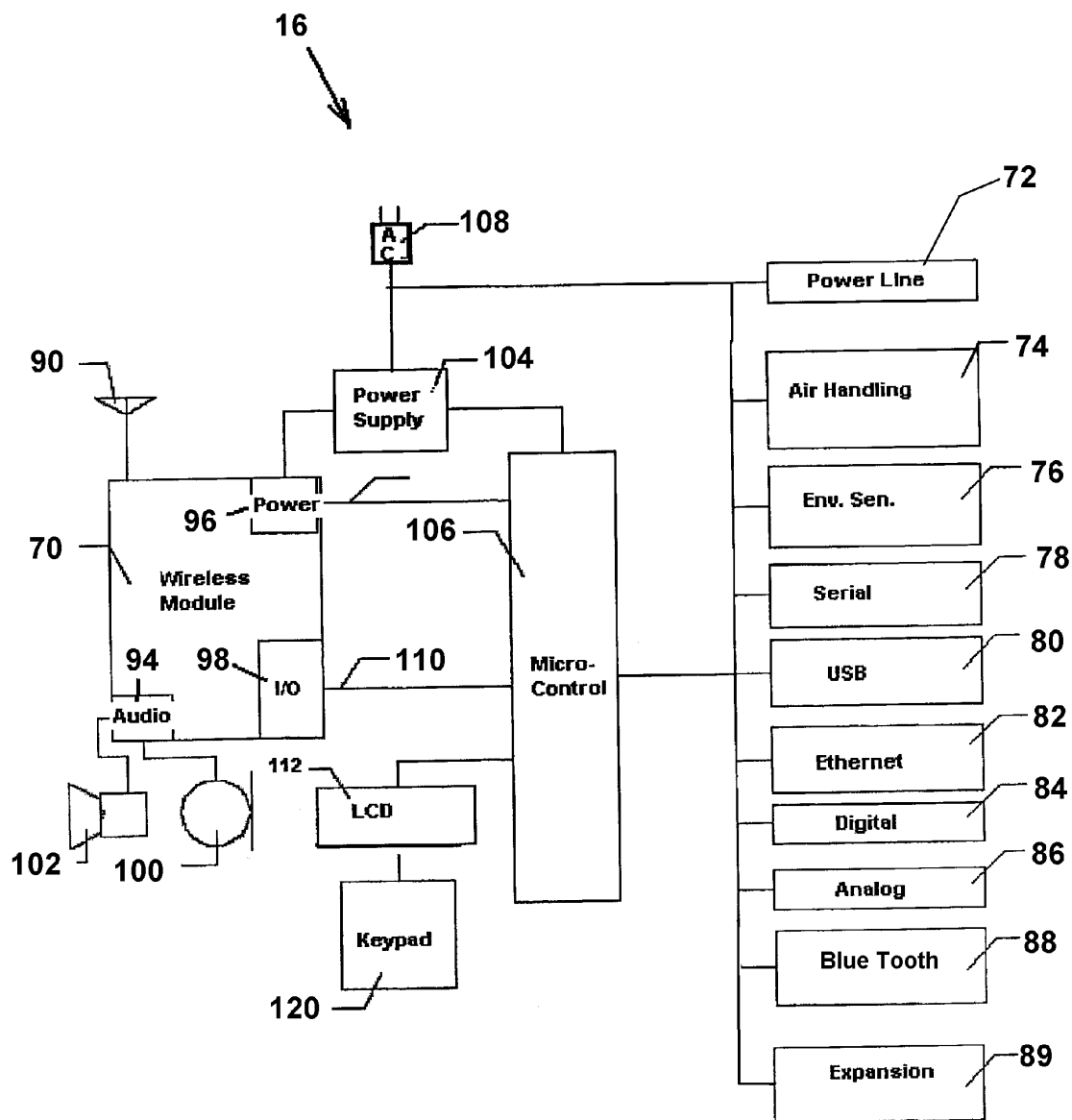


Fig. 4

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First Named Inventor	SHAMOON, Charles G. et al.
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Art Unit	
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Attorney Docket Number	7192-06-05

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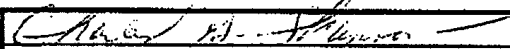
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Signature		Date	11-17-05
Name	Charles G. SHAMOON	Telephone	214 618 1486
Title and Company	Assignee of Record		

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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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# **POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM**

Application Number	
Filing Date	
First Named Inventor	SHAMOON, Charles G. et al.
Title	UBIQUITOUS CONNECTIVITY AND ...
Art Unit	
Examiner Name	
Attorney Docket Number	7192-06-05

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number:

23983

OR

☐ Practitioner(s) named below:

Name	Registration 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.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

23983

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

I am the:

☐ Applicant/Inventor.

☒ 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)

## SIGNATURE of Applicant or Assignee of Record

Signature	<i>Deborah H. Shamon</i>	Date	10-17-05
Name	Deborah H. SHAMOON	Telephone	214-612-1426
Title and Company	Assignee of Record		

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 two (2) 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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**DECLARATION — Utility or Design Patent Application**Direct all  
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associated with  
Customer Number:

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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))

Charles G.

Family Name or Surname

SHAMOON

Inventor's Signature

*Charles G. Shamoon*

Date

5/24/05

Residence: City

Little Elm

State

TX

Country

US

Citizenship

US

Mailing Address

2436 Tisbury Way

City

Little Elm

State

TX

Zip

75068

Country

US

**NAME OF SECOND INVENTOR:**

A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))

Deborah H.

Family Name or Surname

SHAMOON

Inventor's Signature

*Deborah H. Shamoon*

Date

5-24-05

Residence: City

Little Elm

State

TX

Country

US

Citizenship

US

Mailing Address

2436 Tisbury Way

City

Little Elm

State

TX

Zip

75068

Country

US



Additional inventors or a legal representative are being named on the ONE supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.

<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet
Page <u>1</u> of <u>1</u>	

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Franklin Eugene		NEAL	
Inventor's Signature <i>Franklin Eugene Neal</i>		Date <i>5-25-05</i>	
Ashland Residence: City	KY State	US Country	US Citizenship
9220 Oak Hill Drive			
Mailing Address			
Ashland City	KY State	41102 Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Michael		FEHNEL	
Inventor's Signature		Date	
Fuquay Varina Residence: City	NC State	US Country	US Citizenship
3021 Bentwillow Drive			
Mailing Address			
Fuquay Varina City	NC State	27526 Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature <i>Michael D. Fehnel</i>		Date <i>6-2-2005</i>	
Residence: City <i>FUQUAY-VARINA</i>	State <i>N.C.</i>	Country <i>USA</i>	Citizenship <i>USA</i>
Mailing Address <i>3021 BENTWILLOW DRIVE</i>			
City <i>FUQUAY-VARINA</i>	State <i>N.C.</i>	Zip <i>27526</i>	Country <i>USA</i>

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 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 Not Claimed	Certified Copy Attached?	
				YES	NO
	US		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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.**

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

<b>TRANSMITTAL</b>
--------------------

Electronic Version v1.1

Stylesheet Version v1.1.0

<b>Title of Invention</b>	<b>UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS</b>	
Application Number :		
Date :		
First Named Applicant:	Charles G. SHAMOON	
Confirmation Number:		
Attorney Docket Number:	7279-06-06	
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>		
Submitted By:		Elec. Sign.
Michael C. Phillips Registered Number: 42,072		/Michael C. Phillips/ Sign. Capacity Attorney

Documents being submitted:	Files
us-request	72790606-usrequ.xml us-request.dtd us-request.xsl
us-fee-sheet	72790606-usfees.xml us-fee-sheet.xsl us-fee-sheet.dtd
us-declaration	DecPage2.tif
us-declaration	DecPage3.tif
application-body	7279ABX.xml application-body.dtd Image1.tif Image2.tif Image3.tif Image4.tif isoamsa.ent isoamsb.ent isoamsc.ent isoamsn.ent isoamso.ent isoamsr.ent isobox.ent isocyr1.ent isocyr2.ent isodia.ent isogr1.ent isogr2.ent isogr3.ent isogr4.ent isolat1.ent isolat2.ent isomfrk.ent isomopf.ent isomscr.ent isonum.ent isopub.ent isotech.ent mathml2.dtd mathml2-qname-1.mod mmlalias.ent mmlextra.ent soextblx.dtd us-application-body.xsl wipo.ent
application-body-pdf-wrap	7279ABX-pdf-wrap.xml
abstract-pdf	7279ABX-abst.pdf
claims-pdf	7279ABX-clms.pdf
description-pdf	7279ABX-desc.pdf
drawings-pdf	7279ABX-draw.pdf
us-power-of-attorney-grant	POA1CGS.tif

us-power-of-attorney-grant	POA1DHS.tif
us-declaration	DecPage1.tif
<b>Comments</b>	

## APPLICATION DATA SHEET

Electronic Version v14

Stylesheet Version v14.1

### ***Applicants Information:***

#### Inventor 1:

**Applicant Authority Type:** Inventor  
**Citizenship:** US  
**Given Name:** Charles  
**Middle Name:** G.  
**Family Name:** SHAMOON  
**City of Residence:** Little Elm  
**State of Residence:** TX  
**Country of Residence:** US  
**Address-1 of Mailing Address:** 2436 Tisbury Way  
**Address-2 of Mailing Address:**  
**City of Mailing Address:** Little Elm  
**State of Mailing Address:** TX  
**Postal Code of Mailing Address:** 75068  
**Country of Mailing Address:** US  
**Phone:**  
**Fax:**  
**E-mail:**

#### Inventor 2:

**Applicant Authority Type:** Inventor  
**Citizenship:** US  
**Given Name:** Deborah  
**Middle Name:** H.  
**Family Name:** SHAMOON  
**City of Residence:** Little Elm  
**State of Residence:** TX  
**Country of Residence:** US  
**Address-1 of Mailing Address:** 2436 Tisbury Way  
**Address-2 of Mailing Address:**  
**City of Mailing Address:** Little Elm  
**State of Mailing Address:** TX  
**Postal Code of Mailing Address:** 75068  
**Country of Mailing Address:** US  
**Phone:**

**Fax:**

**E-mail:**

Inventor 3:

**Applicant Authority Type:** Inventor  
**Citizenship:** US  
**Given Name:** Franklin  
**Middle Name:** Eugene  
**Family Name:** NEAL  
**City of Residence:** Ashland  
**State of Residence:** KY  
**Country of Residence:** US  
**Address-1 of Mailing Address:** 9220 Oak Hall Drive  
**Address-2 of Mailing Address:**  
**City of Mailing Address:** Ashland  
**State of Mailing Address:** KY  
**Postal Code of Mailing Address:** 41102  
**Country of Mailing Address:** US  
**Phone:**  
**Fax:**  
**E-mail:**

Inventor 4:

**Applicant Authority Type:** Inventor  
**Citizenship:** US  
**Given Name:** Michael  
**Family Name:** FEHNEL  
**City of Residence:** Fuquay Varina  
**State of Residence:** NC  
**Country of Residence:** US  
**Address-1 of Mailing Address:** 3021 Bentwillow Drive  
**Address-2 of Mailing Address:**  
**City of Mailing Address:** Fuquay Varina  
**State of Mailing Address:** NC  
**Postal Code of Mailing Address:** 27526  
**Country of Mailing Address:** US  
**Phone:**  
**Fax:**  
**E-mail:**

***Correspondence Information:***

Customer Number:

23983



***Application Information:***

**Title of Invention :**

UBIQUITOUS CONNECTIVITY AND  
CONTROL SYSTEM FOR REMOTE  
LOCATIONS

**Application Type :**

regular, utility

**Attorney Docket Number :**

7279-06-06

Botanic Information:

Publication Information:

**Suggested Figure for Publication -**

**Suggested Classification -**

**Suggested Technology Center -**

**Total Number of Drawing Sheets - 4**

***Representative Information:***

practitioner(s) at Customer Number:

23983



as 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.

***Domestic Priority Information:***

This is a Division of US application number 11/163,372, filed 2005-10-17 , now Pending.

US application number 11/163,372, filed 2005-10-17 is a Division of US application number 11/160,006, filed 2005-06-05 , now US patent number 6,990,335, issued 2006-01-24.

US application number 11/160,006, filed 2005-06-05 is a Non-Provisional of US application number 60/522,887, filed 2004-11-08 , now Expired.

***Foreign Priority Information:***

***Assignee Information:***

Assignee 1:

**Given Name:** Charles  
**Middle Name:** G.  
**Family Name:** SHAMOON  
**Address-1 of Mailing Address:** 2436 Tisbury Way  
**Address-2 of Mailing Address:**  
**City of Mailing Address:** Little Elm  
**State of Mailing Address:** TX  
**Postal Code of Mailing Address:** 75068  
**Country of Mailing Address:** US  
**Phone:**  
**Fax:**  
**E-mail:**

Assignee 2:

**Given Name:** Deborah  
**Middle Name:** H.  
**Family Name:** SHAMOON  
**Address-1 of Mailing Address:** 2436 Tisbury Way  
**Address-2 of Mailing Address:**  
**City of Mailing Address:** Little Elm  
**State of Mailing Address:** TX  
**Postal Code of Mailing Address:** 75068  
**Country of Mailing Address:** US  
**Phone:**  
**Fax:**  
**E-mail:**

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PATENT APPLICATION FEE DETERMINATION RECORD				Application or Docket Number	
Substitute for Form PTO-875				11/309,508	
<b>APPLICATION AS FILED – PART I</b>					
(Column 1)		(Column 2)		SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OTHER THAN SMALL ENTITY
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	250	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	100	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	9	*	X 25=		X 50=
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	*	X 100=		X 200=
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR				
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))			N/A		N/A
			TOTAL	425	TOTAL
* If the difference in column 1 is less than zero, enter "0" in column 2.					
<b>APPLICATION AS AMENDED – PART II</b>					
(Column 1)		(Column 2)		(Column 3)	
AMENDMENT A	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))				
(Column 1)		(Column 2)		(Column 3)	
AMENDMENT B	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))				
(Column 1)		(Column 2)		(Column 3)	
				RATE (\$)	ADDITIONAL FEE (\$)
				X =	
				X =	
				N/A	
				TOTAL	
				ADD'T 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.



TFW

PTO/SB/21 (09-04)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	11,309,508	
	Filing Date	08/15/2006	
	First Named Inventor	SHAMOON, Charles G., et al.	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	5	Attorney Docket Number	7279-06-06

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input checked="" type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1) Verified Statement of Age/copy of applicant's KY driver license 2) Return Receipt Postcard
<b>Remarks</b> Application No. 11/309,508 was filed electronically via ePave on August 15, 2006.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	MILLS LAW FIRM PLLC		
Signature			
Printed name	Peter D. Sachtjen		
Date	08/15/2006	Reg. No.	24,619

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature	Tamara Oh		
Typed or printed name	Tamara Oh	Date	08/15/2006

This collection of information is required by 37 CFR 1.5. 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 2 hours 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.



**THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re: Application of  
Charles G. SHAMOON, et al.

Serial No. 11/309,508

Filed: 08/15/2006

Examiner

## Art Unit

**For: UBIQUITOUS CONNECTIVITY  
AND CONTROL SYSTEM FOR  
REMOTE LOCATIONS**

Attorney's Docket No. 7279-06-06

## PETITION TO MAKE SPECIAL UNDER 37 CFR § 1.102(c)

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

Applicant, through its undersigned representative, hereby petitions to make the above-captioned patent application special pursuant to 37 CFR § 1.102(c). This petition is made on the basis of applicant's age. Enclosed is a Verified Statement of Age indicating that Applicant is 70 years old.

Hence, grant of this petition, accordance of special status to this application, and examination out of turn are believed to be in order and are respectfully

requested. Should there be any remaining questions, the attorney to whom the petition would expedite such actions, the petition's examiner is invited to contact the undersigned at the telephone number appearing below. No fee is believed to be due with this petition. However, the Director is authorized to charge any fees associated with this or any other communication, or credit any overpayment, to Deposit Account No. 500498.

Dated: August 15, 2006

Respectfully submitted,

MILLS LAW FIRM PLLC

A handwritten signature in black ink, reading "Peter D. Sachtjen". The signature is written in a cursive style with a large, stylized "P" and "S".

Peter D. Sachtjen, Reg. No. 24,619

MILLS LAW FIRM PLLC  
PO Box 1245  
Cary, NC 27512-1245  
Telephone: (919) 462-3036  
Facsimile: (919) 462-3041  
Attorney Direct Line: (252) 413-0475



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Application of )

Charles G. SHAMOON, et al. )

)

Serial No. 11/809,508

)

Filed: ) 08/15/2006

)

) Examiner

)

) Art Unit

For: UBIQUITOUS CONNECTIVITY )

AND CONTROL SYSTEM FOR )

REMOTE LOCATIONS )

)

Attorney's Docket No. 7279-06-06 )

)

VERIFIED STATEMENT OF AGE

**Assistant Commissioner for Patents**

Washington, DC 20231

Sir:

The undersigned hereby states that he was born on August 16, 1935 and is now 70 years old.

The undersigned, Franklin Eugene NEAL, declares that all statements made herein of his own knowledge are true, 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 § 1001 of Title 18 of United States Code that such willful false statements may jeopardize the validity of the Application or any patent issuing therefrom.

Respectfully submitted,

Franklin Eugene NEAL, Applicant

Date March 30, 2006

*Franklin Eugene Neal*

**Attachment: Photocopy of Drivers License**





DPW

PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	11/309,508	
	Filing Date	08/15/2006	
	First Named Inventor	SHAMOON, Charles G., et al.	
	Art Unit	not assigned	
	Examiner Name	not assigned	
Total Number of Pages in This Submission	58	Attorney Docket Number	7279-06-06

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Receipt Postcard 5 Non-Patent Literature Documents
<b>Remarks</b> Application was filed electronically via ePave on 08/15/2006.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Mills Law Firm PLLC		
Signature			
Printed name	Peter D. Sachtjen		
Date	09/15/2006	Reg. No.	24,619

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature	Tamara Oh		
Typed or printed name	Tamara Oh	Date	09/15/2006

This collection of information is required by 37 CFR 1.5. 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 2 hours 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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**UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: SHAMOON, Charles G., et al.  
Title: UBIQUITOUS CONNECTIVITY AND  
CONTROL SYSTEM FOR REMOTE  
LOCATIONS  
Serial No.: 11/309,508  
Confirmation No.: 4507  
Filing Date: 08/15/2006  
Group Art Unit: not assigned  
Examiner: not assigned  
Docket No.: 7279-06-06  
Last Action: Application Filed  
Customer No. 23983

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

**INFORMATION DISCLOSURE STATEMENT**

Sir:

This information disclosure statement is being submitted via U.S. mail within three months of the filing date of the application and before the mailing of a first Office Action in the above-referenced application under the provisions of 37 C.F.R. § 1.97 and § 1.98.

The Examiner is invited to contact the undersigned if there are any questions.

Dated: September 15, 2006

Respectfully submitted,

MILLS LAW FIRM PLLC

A handwritten signature in cursive script, reading "Peter D. Sachtjen".

Peter D. Sachtjen  
Reg. No. 24,619

MILLS LAW FIRM PLLC  
P.O. Box 1245  
Cary, NC 27512-1245  
Phone: 919-462-3036  
Fax: 919-462-3041



PTO/SB/08B (08-03)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

### Complete if Known

Application Number	11/309,508
Filing Date	08/15/2006
First Named Inventor	SHAMOON, Charles G.
Art Unit	not assigned
Examiner Name	not assigned
Attorney Docket Number	7279-06-06

Sheet 1 of 1

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	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 <sup>2</sup>
	A	Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal "Intelligent and Versatile Control Terminal", 2 pages, LZT 123 7602 R1D, 2003	
	B	Sony Ericsson Mobile Communications International, GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003	
	C	Cellgard - Use your GSM cellphone as a remote control for almost anything, "Cellgard", <a href="http://www.cellgard.com/index.html">http://www.cellgard.com/index.html</a> , 2 pages, (10/17/2005)	
	D	Cellgard - Cellgard Technical Specifications, "Cellgard", <a href="http://www.cellgard.com/specs/index.html">http://www.cellgard.com/specs/index.html</a> , 3 pages, (10/17/2005)	
	E	Cellgard - Frequently Asked Questions, "Cellgard", <a href="http://www.cellgard.com/faq/index.html">http://www.cellgard.com/faq/index.html</a> , 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.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 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 2 hours 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, 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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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

### Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR  
REMOTE LOCATIONS

Application Number : 11/309508  
Confirmation Number: 4507  
First Named Applicant: Charles SHAMOON  
Attorney Docket Number: 7279-06-05



Art Unit:

Examiner:

Search string: ( 6014089 or 6260765 or 6301484 or 6393297 or 6650249 or 6820049 or 6847822 or 6854660 or 6873824 or 4918439 or 4965557 or 5109222 or 5247580 or 5544036 or 5545857 or 5579496 or 5621662 or 5778256 or 5805530 or 5818428 or 5917405 or 5924486 or 6005490 or 6081750 or 6104334 or 6192282 or 6195589 or 6216956 or 6264559 or 6394359 or 6398727 or 20030034897 or 20030034898 or 20020149705 or 20010025349 or 20030210126 or 20040092282 or 20040235446 or 20040263349 or 20020177109 or 20010035817 ).pn

### US Patent Documents

**Note: Applicant is not required to submit a paper copy of cited US Patent Documents**

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	6014089	2000-01-11	TRACY, et al.		340	870.02
	2	6260765	2001-07-17	NATALE, et al.	B1	236	47
	3	6301484	2001-10-09	ROGERS, et al.	B1	455	466
	4	6393297	2002-05-21	SONG	B1	455	466
	5	6650249	2003-11-18	MEYER, et al.	B2	340	870.28
	6	6820049	2004-11-16	MONROE, et al.	B1	703	21
	7	6847822	2005-01-25	DENNISON, et al.	B1	455	456.1
	8	6854660	2005-02-15	YOON, et al.	B2	236	51
	9	6873824	2005-03-29	FLICK	B2	455	41.2
	10	4918439	1990-04-17	WOZNIAK, et al.		340	825.690
	11	4965557	1990-10-23	SCHEPERS, et al.		340	711
	12	5109222	1992-04-28	WELTY		340	825.72
	13	5247580	1993-09-21	KIMURA, et al.		381	43
	14	5544036	1996-08-06	BROWN, et al.		364	145
	15	5545857	1996-08-13	LEE, et al.		178	18
	16	5579496	1996-11-26	VAN STEEBRUGGE		395	567

	17	5621662	1997-04-15	HUMPHRIES, et al.		364	550
	18	5778256	1998-07-07	DARBEE, et al.		395	892
	19	5805530	1998-09-08	YOUNGBERG		368	47
	20	5818428	1998-10-06	EISENBRANDT, et al.		345	173
	21	5917405	1999-06-29	JOAO		340	426
	22	5924486	1999-07-20	EHLERS, et al.		165	238
	23	6005490	1999-12-21	HIGASHIHARA		340	825.72
	24	6081750	2000-06-27	HOFFBERG, et al.		700	17
	25	6104334	2000-08-15	ALLPORT		341	175
	26	6192282	2001-02-20	SMITH, et al.		700	19
	27	6195589	2001-02-27	KETCHAM		700	28
	28	6216956	2001-04-17	EHLERS, et al.		236	47
	29	6264559	2001-07-24	LAWRENCE, et al.		463	40
	30	6394359	2002-05-28	MORGAN		236	51
	31	6398727	2002-06-04	BUI, et al.		600	300

## US Published Applications

**Note: Applicant is not required to submit a paper copy of cited US Published Applications**

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20030034897	2003-02-20	SHAMOON, et al.	A1	340	825.72
	2	20030034898	2003-02-20	SHAMOON, et al.	A1	340	825.72
	3	20020149705	2002-10-17	ALLEN, et al.	A1	348	734
	4	20010025349	2001-09-27	SHAROOD, et al.	A1	713	340
	5	20030210126	2003-11-13	KANAZAWA		340	5.5
	6	20040092282	2004-05-13	KIM, et al.		455	522
	7	20040235446	2004-11-25	FLAHERTY, et al.		455	352
	8	20040263349	2004-12-30	HAUGHAWOUT, et al.		340	825.72
	9	20020177109	2002-11-28	ROBINSON, et al.		434	118
	10	20010035817	2001-11-01	MIZUTA		340	438


## Signature

Examiner Name	Date

**TRANSMITTAL**

Electronic Version v1.1

Stylesheet Version v1.1.0


<b>Title of Invention</b>	<b>UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS</b>							
<div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"><div>Application Number : 11/309508</div><div></div></div> <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"><div>Date : 2006-09-26</div></div> <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"><div>First Named Applicant:</div><div>SHAMOON Charles G.</div></div> <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"><div>Confirmation Number:</div><div>4507</div></div> <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"><div>Attorney Docket Number:</div><div>7279-06-05</div></div>								
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"><tr><td style="width: 45%; text-align: center;">Submitted By:</td><td style="width: 25%; text-align: center;">Elec. Sign.</td><td style="width: 30%; text-align: center;">Sign. Capacity</td></tr><tr><td>Michael C. Phillips Registered Number: 42,072</td><td style="text-align: center;">/Michael C. Phillips/</td><td style="text-align: center;">Attorney</td></tr></table>			Submitted By:	Elec. Sign.	Sign. Capacity	Michael C. Phillips Registered Number: 42,072	/Michael C. Phillips/	Attorney
Submitted By:	Elec. Sign.	Sign. Capacity						
Michael C. Phillips Registered Number: 42,072	/Michael C. Phillips/	Attorney						

Documents being submitted:	Files
us-ids	7279IDSN-usidst.xml us-ids.dtd us-ids.xsl
<b>Comments</b>  This information disclosure statement is being submitted electronically within three months of the filing date of the application and before the mailing of a first Office Action in the above-referenced application under the provisions of 37 C.F.R. Sections 1.97 and 1.98.	

## ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS																																		
Submission Type :	Information Disclosure Statement																																		
Application Number:	11/309508																																		
EFS ID:	109116																																		
Server Response:	<table border="1"><thead><tr><th>Confirmation Code</th><th>Message</th></tr></thead><tbody><tr><td>ISVR1</td><td>Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application</td></tr><tr><td>ICON1</td><td>4507</td></tr><tr><td>USPTOEFSNot</td><td>For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a></td></tr></tbody></table>			Confirmation Code	Message	ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application	ICON1	4507	USPTOEFSNot	For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a>																								
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USPTOEFSNot	For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a>																																		
First Named Applicant:	Charles SHAMOON																																		
Attorney Docket Number:	7279-06-05																																		
Timestamp:	2006-09-26 10:32:30 EDT																																		
From:	us																																		
File Listing:	<table border="1"><thead><tr><th>Doc. Name</th><th>File Name</th><th>Size (Bytes)</th><th>Date Produced (yyyymmdd)</th></tr></thead><tbody><tr><td>us-ids</td><td>7279IDSN-usidst.xml</td><td>9244</td><td>2006-09-26</td></tr><tr><td>us-ids</td><td>us-ids.dtd</td><td>7763</td><td>2006-09-26</td></tr><tr><td>us-ids</td><td>us-ids.xsl</td><td>12026</td><td>2006-09-26</td></tr><tr><td>package-data</td><td>7279IDSN-pkda.xml</td><td>2066</td><td>2006-09-26</td></tr><tr><td>package-data</td><td>package-data.dtd</td><td>27025</td><td>2006-09-26</td></tr><tr><td>package-data</td><td>us-package-data.xsl</td><td>19263</td><td>2006-09-26</td></tr><tr><td colspan="2">Total files size</td><td>77387</td><td></td></tr></tbody></table>			Doc. Name	File Name	Size (Bytes)	Date Produced (yyyymmdd)	us-ids	7279IDSN-usidst.xml	9244	2006-09-26	us-ids	us-ids.dtd	7763	2006-09-26	us-ids	us-ids.xsl	12026	2006-09-26	package-data	7279IDSN-pkda.xml	2066	2006-09-26	package-data	package-data.dtd	27025	2006-09-26	package-data	us-package-data.xsl	19263	2006-09-26	Total files size		77387	
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Total files size		77387																																	
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Digital Certificate Holder Name:	cn=Michael Coleman Phillips,ou=Registered Attorneys,ou=Patent and Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US																																		



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
11/309,508	08/15/2006	2617	425	7279-06-06	4	9	1

**CONFIRMATION NO. 4507**

23983  
MILLS LAW FIRM, PLLC  
P.O BOX 1245  
Cary, NC27512-1245

**FILING RECEIPT**

Date Mailed: 12/28/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. 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 mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. 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 (if appropriate).**

**Applicant(s)**

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

**Assignment For Published Patent Application**

Charles G. SHAMOON, Little Elm, TX  
Deborah H. SHAMOON, Little Elm, TX

**Power of Attorney:** The patent practitioners associated with Customer Number 23983

**Domestic Priority data as claimed by applicant**

This application is a DIV of 11/163,372 10/17/2005  
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:** 12/27/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is  
**US11/309,508**

**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**

370

## **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).

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**Title 37, Code of Federal Regulations, 5.11 & 5.15**

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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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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06

23983  
MILLS LAW FIRM, PLLC  
P.O BOX 1245  
Cary, NC 27512-1245

CONFIRMATION NO. 4507  
FORMALITIES  
LETTER

Date Mailed: 12/28/2006

**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 must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 3.

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  
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A handwritten signature in black ink, appearing to be 'M. M. J.', is written over a horizontal line.

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382  
PART 3 - OFFICE COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: SHAMOON, Charles G. et al.  
Title: UBIQUITOUS CONNECTIVITY AND CONTROL  
SYSTEM FOR REMOTE LOCATIONS  
Serial No.: 11/309,508  
Filing Date: August 15, 2006  
Art Unit: 2617  
Examiner: (not assigned)  
Docket No.: 7279-06-06  
Last Action: December 28, 2006  
Customer No. 23983

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

Dear Sir:

RESPONSE TO NOTICE TO  
FILE CORRECTED APPLICATION PAPERS

The following is in response to the Notice to File Corrected Application Papers dated December 28, 2006, regarding the above-identified application.

Substitute Drawings

The drawings were not in compliance for not being reasonably free from erasures and free from alterations, overwriting, interlineations, fold and copy

marks. Three (3) sheets of substitute drawings, Figs. 1 through 4 are submitted herewith as replacement sheets 1, 2, 3 and 4.

The drawings were filed electronically, so no erasures, alterations, overwriting, interlineations, folds and copy marks should have been present. To expedite the processing of this application, replacement drawing sheets 1 through 4 have been included as part of the response to the Notice to File Corrected Application Papers.

A copy of Part 2 of the Notice to File Corrected Application Papers is included herewith.

No fees are believed to be payable with this response. However, the Director is authorized to charge any fees or credit any overpayments to Deposit Account No. 500498.

Dated: February 8, 2007

Respectfully submitted,

ISHMAN LAW FIRM P.C.

A handwritten signature in black ink, reading "Peter D. Sachtjen". The signature is written in a cursive, flowing style.

Peter D. Sachtjen, Reg. No. 24,619

ISHMAN LAW FIRM P.C.  
Post Office Box 1245  
Cary, NC 27512-1245  
Patent Administration: (919) 462-3036  
Attorney Direct Line: (252) 413-0475

10

Local Location

26 Associated RCU

20

24

18

16

21

26 Associated RCU

29 Structure

BCU

24

28

27 GPS

12 Master RCU

Remote Location

14

22 Cellular Telephone Network

Page 28 of 31

# REPLACEMENT SHEET

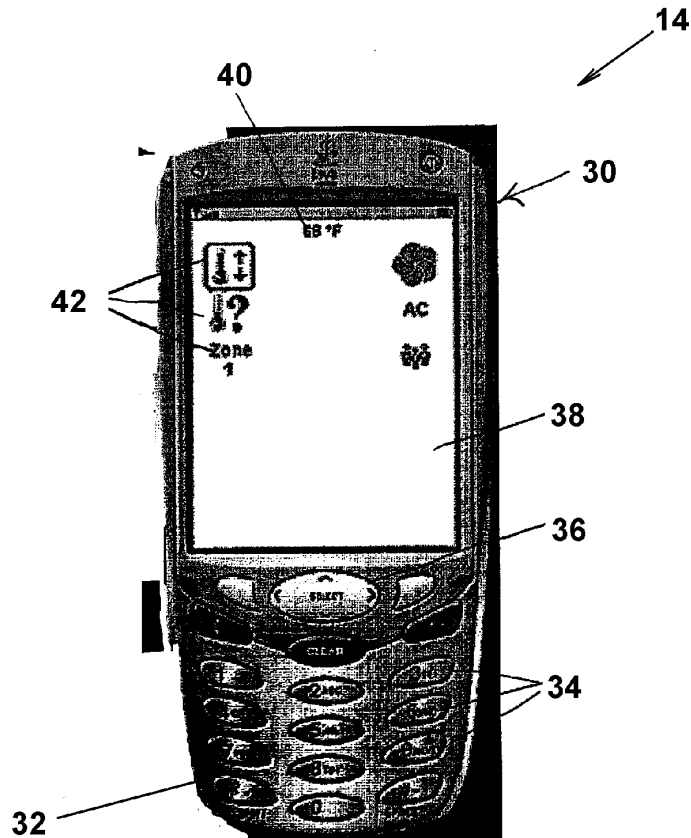


Fig. 2

REPLACEMENT SHEET

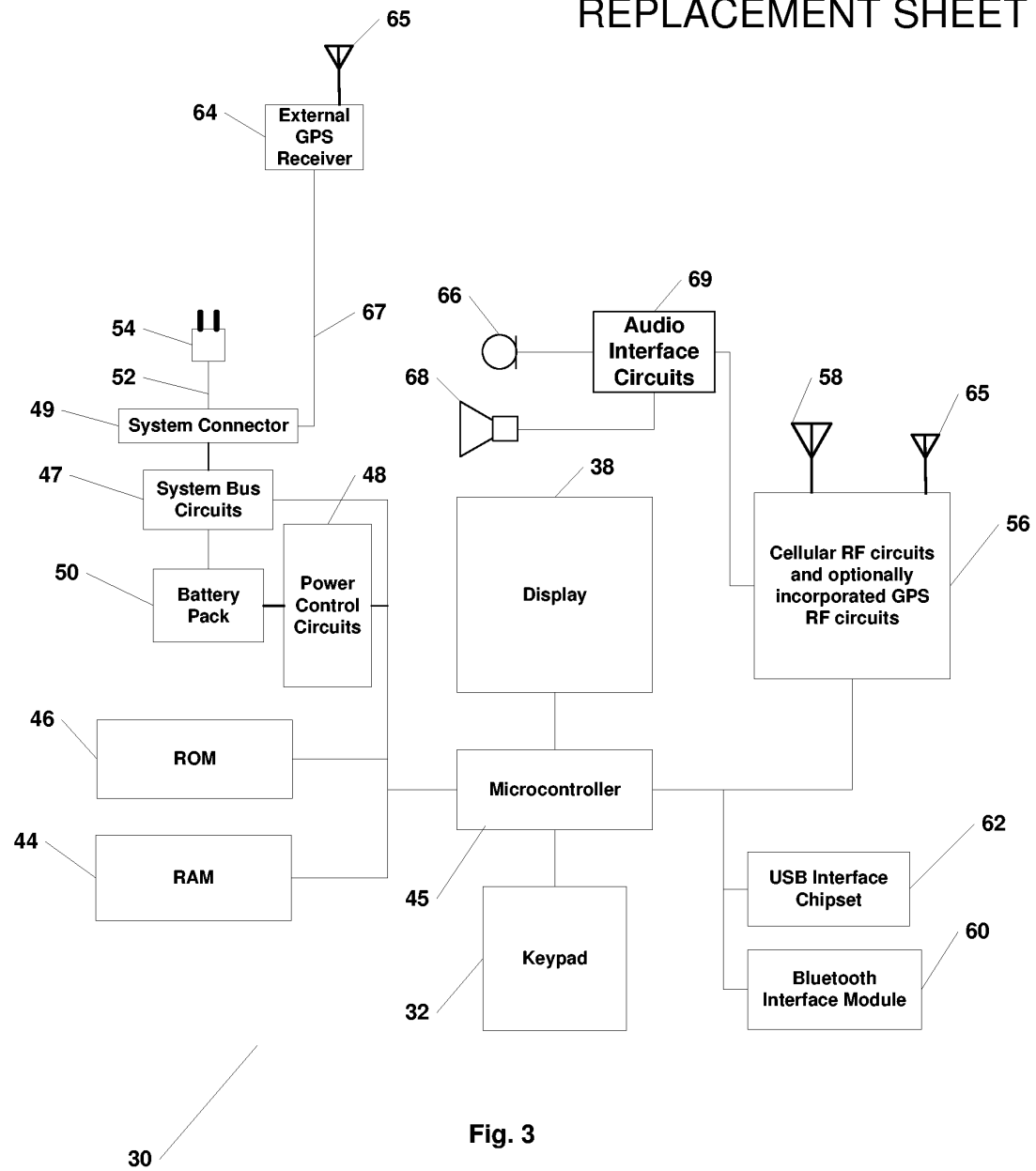


Fig. 3

# REPLACEMENT SHEET

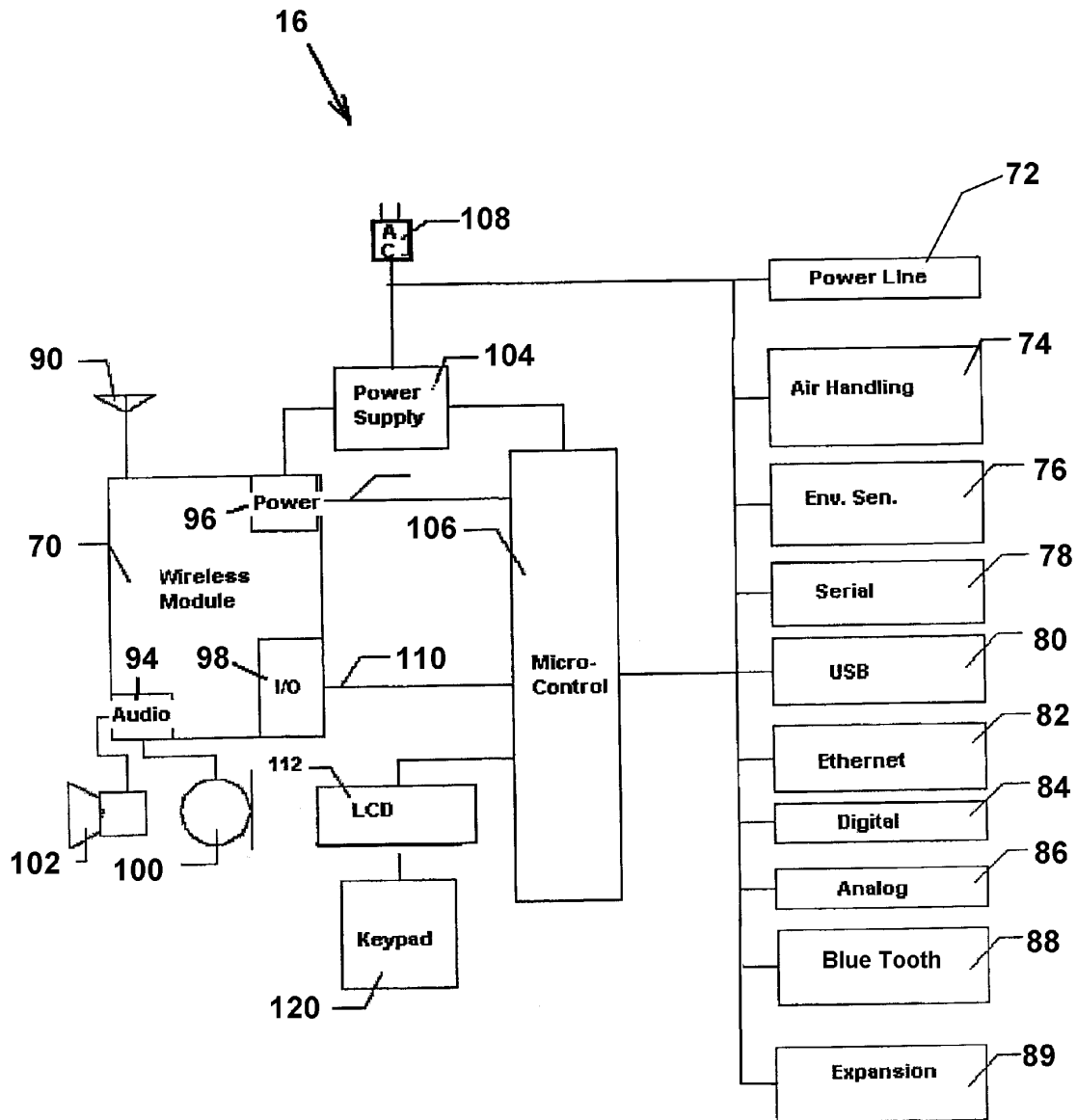


Fig. 4



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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06

23983  
MILLS LAW FIRM, PLLC  
P.O BOX 1245  
Cary, NC 27512-1245

CONFIRMATION NO. 4507  
FORMALITIES  
LETTER

Date Mailed: 12/28/2006

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 must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 3.


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.

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PART 3 - OFFICE COPY

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<b>TRANSMITTAL FORM</b>  <i>(to be used for all correspondence after initial filing)</i>	Application Number	11/309,508	
	Filing Date	August 15, 2006	
	First Named Inventor	SHAMOON, Charles G., et al.	
	Art Unit	2617	
	Examiner Name		
Total Number of Pages in This Submission	9	Attorney Docket Number	7279-06-06

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input checked="" type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input checked="" type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Ishman Law Firm P.C.		
Signature			
Printed name	Peter D. Sachtjen		
Date	02/08/2007	Reg. No.	24,619

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Peter D. Sachtjen	Date	02/08/2007

This collection of information is required by 37 CFR 1.5. 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 2 hours 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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## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	1500024
<b>Application Number:</b>	11309508
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4507
<b>Title of Invention:</b>	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
<b>First Named Inventor/Applicant Name:</b>	Charles G. Shamoon
<b>Customer Number:</b>	23983
<b>Filer:</b>	Peter D. Sachtjen/Stefanie Hansen
<b>Filer Authorized By:</b>	Peter D. Sachtjen
<b>Attorney Docket Number:</b>	7279-06-06
<b>Receipt Date:</b>	08-FEB-2007
<b>Filing Date:</b>	15-AUG-2006
<b>Time Stamp:</b>	10:05:08
<b>Application Type:</b>	Utility

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
1	Applicant Response to Pre-Exam Formalities Notice	NFCAPresp.pdf	33405	no	2

### Warnings:

<b>Information:</b>					
2	Applicant Response to Pre-Exam Formalities Notice	ReplDraw.pdf	86593	no	4
<b>Warnings:</b>					
<b>Information:</b>					
3	Applicant Response to Pre-Exam Formalities Notice	NFCAP1228.pdf	52334	no	2
<b>Warnings:</b>					
<b>Information:</b>					
4	Applicant Response to Pre-Exam Formalities Notice	Trans013007.pdf	186596	no	1
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			358928		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  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.</p>					



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
11/309,508	08/15/2006	2617	425	7279-06-06	4	9	1

**CONFIRMATION NO. 4507**

23983  
Ishman Law Firm P.C.  
P.O BOX 1245  
Cary, NC27512-1245

**UPDATED FILING RECEIPT**

Date Mailed: 02/15/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. 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 mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. 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 (if appropriate).**

**Applicant(s)**

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

**Assignment For Published Patent Application**

Charles G. SHAMOON, Little Elm, TX  
Deborah H. SHAMOON, Little Elm, TX

**Power of Attorney:** The patent practitioners associated with Customer Number 23983

**Domestic Priority data as claimed by applicant**

This application is a DIV of 11/163,372 10/17/2005  
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:** 12/27/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is  
**US11/309,508**

**Projected Publication Date:** 05/24/2007

**Non-Publication Request:** No

**Early Publication Request:** No

**\*\* SMALL ENTITY \*\***

**Title**

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

**Preliminary Class**

370

## **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).

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**Title 37, Code of Federal Regulations, 5.11 & 5.15**

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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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**OFFICE OF PETITIONS**

In re Application of	:	
Charles G. Shamoon, et al	:	
Application No. 11/309,508	:	DECISION ON PETITION
Filed: August 15, 2006	:	TO MAKE SPECIAL UNDER
Attorney Docket No. 7279-06-06	:	37 CFR 1.102(c)(1)
	:	

This is a decision on the petition under 37 CFR 1.102(c)(1), filed August 18, 2006, to make the above-identified application special based on applicant's age as set forth in M.P.E.P. § 708.02, Section IV.

The petition is **GRANTED**.

A grantable petition to make an application special under 37 CFR 1.102(c)(1) and MPEP § 708.02, Section IV: Applicant's Age must be accompanied by evidence showing that at least one of the applicants is 65 years of age, or more, such as a birth certificate or a statement by applicant. No fee is required

The instant petition includes a verified statement by applicant Franklin E. Neal. Accordingly, the above-identified application has been accorded "special" status.

This application is being forwarded to the Technology Center Art Unit 2617 for action on the merits.

Telephone inquiries concerning this decision should be directed to Diane Goodwyn at 571-272-6735.

All other inquiries concerning either the examination or status of the application should be directed to the Technology Center.

April Wise  
Petitions Examiner  
Office of Petitions



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APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06

**CONFIRMATION NO. 4507**

23983  
Ishman Law Firm P.C.  
P.O BOX 1245  
Cary, NC27512-1245

**Title:** UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

**Publication No.** US-2007-0115902-A1

**Publication Date:** 05/24/2007

## 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](http://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](http://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 703-305-3028.

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Pre-Grant Publication Division, 703-605-4283

### EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S39	3	S34 and S38	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:53
S38	7	customiz\$4 near4 application adj specific adj software	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:45
S30	707	application adj specific adj software	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:45
S37	2	S35 and S36	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:44
S36	215786	"455"/\$.ccls. or "370"/\$.ccls.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:43
S35	12	S33 and S34	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:43
S34	2690261 0	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:43
S33	16	micro adj processor and application adj specific adj software	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:43

### EAST Search History

S32	0	micro adj processor same application adj specific adj software	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:43
S31	0	micro adj processor with application adj specific adj software	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:42
S26	0	micro adj controller same application adj specific adj software	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/24 12:41
S29	2	S27 and S28	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 22:18
S28	2690261 0	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 22:18
S27	2	micro adj controller same application adj2 specific adj2 software	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 22:18
S25	0	micro adj controller with application adj specific adj software	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 22:17
S24	2	"7043635".pn.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 22:16

### EAST Search History

S23	2	S18 and S22	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 21:18
S22	3	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) with ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near9 proximity near2 detect\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 18:06
S21	1	S20 and S18	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 18:06
S20	2	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) with ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near4 proximity near2 detect\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 18:06
S17	6	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near4 proximity	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 18:04

### EAST Search History

S19	5	S17 and S18	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 17:57
S18	2690261 0	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 17:57
S16	12	S12 and S15	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 17:43
S10	122	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) with (security or authori\$6 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 17:43
S15	42877	bluetooth	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:50
S14	22	S12 and S13	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:50
S13	215786	"455"/\$.ccls. or "370"/\$.ccls.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:42

### EAST Search History

S12	85	S8 and S11	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:41
S11	111	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access\$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) with (security or authori\$6 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:41
S9	34	S7 and S8	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:37
S7	43	(building or structure or office or vehicle) near4 (entrance or enter\$3 or access\$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) same (security or authori\$6 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:37
S8	2690261 0	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:36
S3	7	(building or structure or office) near4 (entrance or enter\$3 or access\$3 or authori\$6 or authenticat\$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) with security	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/23 13:34

### EAST Search History

S6	7	(building or structure or office) near4 (entrance or enter\$3 or access\$3 or authori\$6 or authenticat\$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) with security	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/19 15:59
S5	5	S3 and S4	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/19 13:30
S4	2689958 4	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/19 13:30
S2	3709	(building or structure or office) near4 (entrance or enter or access or authori\$6 or authenticat\$3) with (portable or hand or handheld or mobile or wireless)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/19 13:28
S1	2689958 4	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/19 13:26



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06	4507
23983 7590 10/30/2007 Ishman Law Firm P.C. P.O BOX 1245 Cary, NC 27512-1245			EXAMINER NGUYEN, HUY D	
			ART UNIT 2617	PAPER NUMBER
			MAIL DATE 10/30/2007	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.

<b>Office Action Summary</b>	<b>Application No.</b> 11/309,508	<b>Applicant(s)</b> SHAMOON ET AL.	
	<b>Examiner</b> Huy D. Nguyen	<b>Art Unit</b> 2617	

**-- 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 08 February 2007.

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

3) ☐ 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**

4) ☒ Claim(s) 1-9 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.

6) ☒ Claim(s) 1-9 is/are rejected.

7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.

8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

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

10) ☐ 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).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**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)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_

4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_

5) ☐ Notice of Informal Patent Application

6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "second remote device" in line 4. There is insufficient antecedent basis for this limitation in the claim. The examiner assumes it reads "second remote unit".

Claim 1 recites the limitation "the associated remote device" in line 6. There is insufficient antecedent basis for this limitation in the claim. The examiner assumes it reads "the associated remote unit".

Claim 1 recites the limitation "to said remote devices" in line 8. There is insufficient antecedent basis for this limitation in the claim. The examiner assumes it reads "to said remote units".

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 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. Claims 1-6, 8-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Cannon et al. (U.S. Patent No. 7,058,358).

Regarding claim 1, Cannon et al. teaches a detection system for selectively determining the presence of individuals within a proximate distance of a structure (e.g., building 210, see figure 1), said detection system comprising: a base unit (e.g., security server 200, see figure 1) at said structure (see column 3, line 55-56); a first remote unit (e.g., device 100a, see figure 1) operated by one of the individuals and transmitting a first identification signal; a second remote unit (e.g., device 100b, see figure 1) operated by another of the individuals and transmitting a second identification signal (see column 3, lines 47-53); receiving means (e.g., Bluetooth front end 630, see figure 3) associated with said base unit for receiving said authorizations codes when the associated remote unit is within the proximate distance of the structure (e.g., step 402 of FIG. 4 shows the new presence of a wireless piconet network device in a piconet wireless network, see column 5, lines 62-64) ; selection means (e.g., password authorization module 620, see figure 3) operatively associated with said base unit for selectively establishing an authorized user status to said remote units based on said identification signal (e.g., step 404 shows the presentation of a password from the wireless piconet network device 100 to the wireless piconet security server 200, see column 5, lines 55-57); instant wireless connectivity means (e.g., RF channel between device 100 and server 200) for transmitting to a master remote unit (e.g., earth coordinates authorization module 600, see figure 3) the presence of a remote unit with said proximate

distance of said structure based on said authorized user status (e.g., received GPS location coordinates received from wireless piconet network devices requesting authorization are compared to the boundary coordinates 602 by the earth coordinates authorization module 600 to determine whether or not the requesting wireless piconet network device is within the predetermined secured area, see column 5, lines 36-41).

Regarding claim 2, Cannon et al. teaches the system as recited in claim 1 wherein said base unit includes a Bluetooth transmitter and receive module (e.g., Bluetooth front end 630) for bidirectional communications with said remote units (see figure 3).

Regarding claim 3, Cannon et al. teaches the system as recited in claim 1 wherein said base unit includes a bidirectional radio frequency communications module conforming to the 802.11 protocol (see column 1, line 67).

Regarding claim 4, Cannon et al. teaches the system as recited in claim 1 wherein said remote units include cellular telephones including Bluetooth bidirectional communications modules (see column 4, line 40).

Regarding claim 5, Cannon et al. teaches the system as recited in claim 1 wherein said receiving means associated with said base unit is a Bluetooth bidirectional communications (see figure 3).

Regarding claim 6, Cannon et al. teaches the system as recited in claim 1 wherein said receiving means associated with said base unit is a bidirectional radio frequency communications module conforming to the 802.11 protocol (see column 1, line 67).

Regarding claim 8, Cannon et al. teaches the system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the Bluetooth communications protocol (see column 1, line 43).

Regarding claim 9, Cannon et al. teaches the system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the 802.11 communications protocol (see column 1, line 67).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 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 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cannon et al. in view of Puskala (US 2002/0165024 A1).


Regarding claim 7, Cannon et al. does not teach that the selection means comprises a microcontroller-based processing unit having customizable application specific software. Puskala teaches a mobile phone 10 comprising CPU 50 having a messaging application 62 with customized application specific software (see paragraph 0041 and figure 2). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Puskala to the teaching of Cannon et al. to improve system flexibility so the mobile unit is more compatible with the variety of network implementations.

***Contact Information***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy D. Nguyen whose telephone number is 571-272-7845. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. 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.

  
Huy D Nguyen  
Patent Examiner  
Art Unit 2617

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

<b>Title of Invention</b>	<b>UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS</b>																																																																																																																																										
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div> <p>Application Number : 11/309508</p> <p>Confirmation Number: 4507</p> <p>First Named Applicant: Charles SHAMOON</p> <p>Attorney Docket Number: 7279-06-05</p> <p>Art Unit:</p> <p>Examiner:</p> <p>Search string: ( 6014089 or 6260765 or 6301484 or 6393297 or 6650249 or 6820049 or 6847822 or 6854660 or 6873824 or 4918439 or 4965557 or 5109222 or 5247580 or 5544036 or 5545857 or 5579496 or 5621662 or 5778256 or 5805530 or 5818428 or 5917405 or 5924486 or 6005490 or 6081750 or 6104334 or 6192282 or 6195589 or 6216956 or 6264559 or 6394359 or 6398727 or 20030034897 or 20030034898 or 20020149705 or 20010025349 or 20030210126 or 20040092282 or 20040235446 or 20040263349 or 20020177109 or 20010035817 ).pn</p> </div> <div style="text-align: center;">  </div> </div>																																																																																																																																											
<p><b>US Patent Documents</b></p> <p><b>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</b></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>init</th> <th>Cite.No.</th> <th>Patent No.</th> <th>Date</th> <th>Patentee</th> <th>Kind</th> <th>Class</th> <th>Subclass</th> </tr> </thead> <tbody> <tr><td>/HN/</td><td>1</td><td>6014089</td><td>2000-01-11</td><td>TRACY, et al.</td><td></td><td>340</td><td>870.02</td></tr> <tr><td>/HN/</td><td>2</td><td>6260765</td><td>2001-07-17</td><td>NATALE, et al.</td><td>B1</td><td>236</td><td>47</td></tr> <tr><td>/HN/</td><td>3</td><td>6301484</td><td>2001-10-09</td><td>ROGERS, et al.</td><td>B1</td><td>455</td><td>466</td></tr> <tr><td>/HN/</td><td>4</td><td>6393297</td><td>2002-05-21</td><td>SONG</td><td>B1</td><td>455</td><td>466</td></tr> <tr><td>/HN/</td><td>5</td><td>6650249</td><td>2003-11-18</td><td>MEYER, et al.</td><td>B2</td><td>340</td><td>870.28</td></tr> <tr><td>/HN/</td><td>6</td><td>6820049</td><td>2004-11-16</td><td>MONROE, et al.</td><td>B1</td><td>703</td><td>21</td></tr> <tr><td>/HN/</td><td>7</td><td>6847822</td><td>2005-01-25</td><td>DENNISON, et al.</td><td>B1</td><td>455</td><td>456.1</td></tr> <tr><td>/HN/</td><td>8</td><td>6854660</td><td>2005-02-15</td><td>YOON, et al.</td><td>B2</td><td>236</td><td>51</td></tr> <tr><td>/HN/</td><td>9</td><td>6873824</td><td>2005-03-29</td><td>FLICK</td><td>B2</td><td>455</td><td>41.2</td></tr> <tr><td>/HN/</td><td>10</td><td>4918439</td><td>1990-04-17</td><td>WOZNIAK, et al.</td><td></td><td>340</td><td>825.690</td></tr> <tr><td>/HN/</td><td>11</td><td>4965557</td><td>1990-10-23</td><td>SCHEPERS, et al.</td><td></td><td>340</td><td>711</td></tr> <tr><td>/HN/</td><td>12</td><td>5109222</td><td>1992-04-28</td><td>WELTY</td><td></td><td>340</td><td>825.72</td></tr> <tr><td>/HN/</td><td>13</td><td>5247580</td><td>1993-09-21</td><td>KIMURA, et al.</td><td></td><td>381</td><td>43</td></tr> <tr><td>/HN/</td><td>14</td><td>5544036</td><td>1996-08-06</td><td>BROWN, et al.</td><td></td><td>364</td><td>145</td></tr> <tr><td>/HN/</td><td>15</td><td>5545857</td><td>1996-08-13</td><td>LEE, et al.</td><td></td><td>178</td><td>18</td></tr> <tr><td>/HN/</td><td>16</td><td>5579496</td><td>1996-11-26</td><td>VAN STEEBRUGGE</td><td></td><td>395</td><td>567</td></tr> </tbody> </table>				init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	/HN/	1	6014089	2000-01-11	TRACY, et al.		340	870.02	/HN/	2	6260765	2001-07-17	NATALE, et al.	B1	236	47	/HN/	3	6301484	2001-10-09	ROGERS, et al.	B1	455	466	/HN/	4	6393297	2002-05-21	SONG	B1	455	466	/HN/	5	6650249	2003-11-18	MEYER, et al.	B2	340	870.28	/HN/	6	6820049	2004-11-16	MONROE, et al.	B1	703	21	/HN/	7	6847822	2005-01-25	DENNISON, et al.	B1	455	456.1	/HN/	8	6854660	2005-02-15	YOON, et al.	B2	236	51	/HN/	9	6873824	2005-03-29	FLICK	B2	455	41.2	/HN/	10	4918439	1990-04-17	WOZNIAK, et al.		340	825.690	/HN/	11	4965557	1990-10-23	SCHEPERS, et al.		340	711	/HN/	12	5109222	1992-04-28	WELTY		340	825.72	/HN/	13	5247580	1993-09-21	KIMURA, et al.		381	43	/HN/	14	5544036	1996-08-06	BROWN, et al.		364	145	/HN/	15	5545857	1996-08-13	LEE, et al.		178	18	/HN/	16	5579496	1996-11-26	VAN STEEBRUGGE		395	567
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/HN/	10	4918439	1990-04-17	WOZNIAK, et al.		340	825.690																																																																																																																																				
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/HN/	12	5109222	1992-04-28	WELTY		340	825.72																																																																																																																																				
/HN/	13	5247580	1993-09-21	KIMURA, et al.		381	43																																																																																																																																				
/HN/	14	5544036	1996-08-06	BROWN, et al.		364	145																																																																																																																																				
/HN/	15	5545857	1996-08-13	LEE, et al.		178	18																																																																																																																																				
/HN/	16	5579496	1996-11-26	VAN STEEBRUGGE		395	567																																																																																																																																				

	17	5621662	1997-04-15	HUMPHRIES, et al.		364	550
/HN/	18	5778256	1998-07-07	DARBEE, et al.		395	892
/HN/	19	5805530	1998-09-08	YOUNGBERG		368	47
/HN/	20	5818428	1998-10-06	EISENBRANDT, et al.		345	173
/HN/	21	5917405	1999-06-29	JOAO		340	426
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/HN/	24	6081750	2000-06-27	HOFFBERG, et al.		700	17
/HN/	25	6104334	2000-08-15	ALLPORT		341	175
/HN/	26	6192282	2001-02-20	SMITH, et al.		700	19
/HN/	27	6195589	2001-02-27	KETCHAM		700	28
/HN/	28	6216956	2001-04-17	EHLERS, et al.		236	47
/HN/	29	6264559	2001-07-24	LAWRENCE, et al.		463	40
/HN/	30	6394359	2002-05-28	MORGAN		236	51
/HN/	31	6398727	2002-06-04	BUI, et al.		600	300

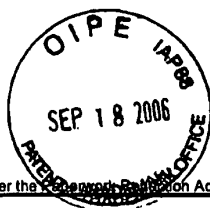
### US Published Applications

**Note:** Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
/HN/	1	20030034897	2003-02-20	SHAMOON, et al.	A1	340	825.72
/HN/	2	20030034898	2003-02-20	SHAMOON, et al.	A1	340	825.72
/HN/	3	20020149705	2002-10-17	ALLEN, et al.	A1	348	734
/HN/	4	20010025349	2001-09-27	SHAROOD, et al.	A1	713	340
/HN/	5	20030210126	2003-11-13	KANAZAWA		340	5.5
/HN/	6	20040092282	2004-05-13	KIM, et al.		455	522
/HN/	7	20040235446	2004-11-25	FLAHERTY, et al.		455	352
/HN/	8	20040263349	2004-12-30	HAUGHAWOUT, et al.		340	825.72
/HN/	9	20020177109	2002-11-28	ROBINSON, et al.		434	118
/HN/	10	20010035817	2001-11-01	MIZUTA		340	438

### Signature

Examiner Name	Date
/Huy Nguyen/	10/24/2007



PTO/SB/08B (08-03)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	11/309,508
		Filing Date	08/15/2006
		First Named Inventor	SHAMOON, Charles G.
		Art Unit	not assigned
Examiner Name	not assigned		
Sheet 1	of 1	Attorney Docket Number	7279-06-06

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	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 <sup>2</sup>
/HN/	A	Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal "Intelligent and Versatile Control Terminal", 2 pages, LZT 123 7602 R1D, 2003	
/HN/	B	Sony Ericsson Mobile Communications International, GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003	
/HN/	C	Cellgard - Use your GSM cellphone as a remote control for almost anything, "Cellgard", <a href="http://www.cellgard.com/index.html">http://www.cellgard.com/index.html</a> , 2 pages, (10/17/2005)	
/HN/	D	Cellgard - Cellgard Technical Specifications, "Cellgard", <a href="http://www.cellgard.com/specs/index.html">http://www.cellgard.com/specs/index.html</a> , 3 pages, (10/17/2005)	
/HN/	E	Cellgard - Frequently Asked Questions, "Cellgard", <a href="http://www.cellgard.com/faq/index.html">http://www.cellgard.com/faq/index.html</a> , 4 pages, (10/17/2005)	

Examiner Signature	/Huy Nguyen/	Date Considered	10/24/2007
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\*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.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 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 2 hours 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, 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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<b>Notice of References Cited</b>	Application/Control No. 11/309,508	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner Huy D. Nguyen	Art Unit 2617	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0094777	07-2002	Cannon et al.	455/41
*	B	US-2002/0165024	11-2002	Puskala, Teemu	463/40
*	C	US-2004/0214576	10-2004	Myers et al.	455/445
*	D	US-2002/0059146	05-2002	Keech, Winston Donald	705/64
*	E	US-2003/0080772	05-2003	Giacomini et al.	324/771
*	F	US-7,058,358	06-2006	Cannon et al.	455/41.2
*	G	US-7,043,635	05-2006	Keech, Winston Donald	713/168
*	H	US-2002/0029342	03-2002	Keech, Winston Donald	713/184
*	I	US-2006/0022816	02-2006	Yukawa, Mitsuhiro	340/521
*	J	US-2004/0053641	03-2004	Leung et al.	455/558
*	K	US-2004/0066092	04-2004	Muller, Ulrich	307/010.1
	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.

<b><i>Index of Claims</i></b>  	<b>Application/Control No.</b>  11309508	<b>Applicant(s)/Patent Under Reexamination</b>  SHAMOON ET AL.
	<b>Examiner</b>  Nguyen, Huy D	<b>Art Unit</b>  2617

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	10/24/2007								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								

<b>Search Notes</b>  	<b>Application/Control No.</b>  11309508	<b>Applicant(s)/Patent Under Reexamination</b>  SHAMOON ET AL.
	<b>Examiner</b>  Nguyen, Huy D	<b>Art Unit</b>  2617

SEARCHED			
Class	Subclass	Date	Examiner
455	410, 411, 41.2, 456.1, 456.3, 456.4, 435.1	10/22/2007	HN
370	338	10/22/2007	HN

SEARCH NOTES		
Search Notes	Date	Examiner
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT). See search history printout.	10/22/2007	HN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: SHAMOON, Charles G., et al.  
Title: UBIQUITOUS CONNECTIVITY AND  
CONTROL SYSTEM FOR REMOTE  
LOCATIONS  
Serial No.: 11/309,508  
Filing Date: 08/15/2006  
Group Art Unit: 2617  
Examiner: NGUYEN, Huy D.  
Docket No.: 7279-06-06  
Last Action: 10/30/2007  
Customer No.: 23983

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

Dear Sir:

AMENDMENT

In response to the Office Action mailed October 30, 2007,  
Applicant offers the following amendments and remarks. If any

additional fees are required in association with this response, the Director is hereby authorized to charge them to Deposit Account 500498, and consider this a petition therefor.

In the Claims:

Amend claims as set forth in the attached Claims Status.

## Claims Status

1. (Currently Amended) A detection system for selectively determining the presence of individuals within a proximate distance of a structure, said detection system comprising: a base unit at said structure; a first remote unit operated by one of the individuals and a master remote unit operated by another individual , said remote units being cellular telephones having bidirectional communications modules with limited transmission ranges of about the proximate distance, said module of said first remote transmitting a first identification signal; receiving means associated with said base unit for receiving said first identification signal ~~authorizations codes~~ when said first ~~the associated~~ remote unit ~~device~~ is within the proximate distance of the structure; selection means operatively associated with said base unit for selectively establishing an authorized user status to said first remote unit devices upon receipt of based on said first identification signal; instant wireless connectivity means for transmitting over a cellular network from said base unit to said a master remote unit at a location beyond said

limited transmission range the presence of said first a remote unit within ~~with~~ said proximate distance of said structure.

2. (Currently Amended) The system as recited in claim 1 wherein said base unit includes a Bluetooth transmitter and receiver ~~receive module~~ for bidirectional communications with said remote units.

3. (Original) The system as recited in claim 1 wherein said base unit includes a bidirectional radio frequency communications module conforming to the 802.11 protocol.

Cancel claim 4.

5. (Original) The system as recited in claim 1 wherein said receiving means associated with said base unit is a Bluetooth bidirectional communications module.

6. (Original) The system as recited in claim 1 wherein said receiving means associated with said base unit is a bidirectional radio

frequency communications module conforming to the 802.11 protocol.

7. (Original) The system as recited in claim 1 wherein said selection means comprises a microcontroller-based processing unit having customizable application specific software.

8. (Original) The system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the Bluetooth communications protocol.

9. (Original) The system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the 802.11 communications protocol.

## REMARKS

Applicants have carefully reviewed the Office Action mailed October 20, 2007 and offer the following remarks.

### Status of the Claims

Claims 1–3 and 5–9 are pending. Claims 1 and 2 have been amended. Claim 4 has been cancelled.

### Claim Rejections

In the noted Office Actions, original claims 1–6 and 8–9 were rejected under Section 102 over Cannon ‘358. Claim 7 was rejected under Section 103 over Cannon in view of Pulaska Publication ‘024. By this Amendment, Applicant is amending claim 1 to recite with additional clarity the patentable aspects of the invention.

As Examiner well knows, the present invention provides a presence detection system whereby two classes of cellular phones may be utilized for notifying a master unit, such as operated by a parent, of the presence of a first remote unit, such as operated by a child, within a proximate distance of a structure such as the home, regardless of where the parent may be at the time thereby providing ubiquitous connectivity. This determination is provided by limited range modules, i.e. Bluetooth, whereby the base unit within the

structure receives the identification signal from the remote unit, determines if it is an authorized unit, and if authorized sends a notification over a cellular network to a master unit globally accessible regardless of its proximity to the structure.

Such access and connectivity is not taught or suggested by the primary Cannon reference. Therein, the remotes 100b and 100a interface with the security server 200 if within operable range. At this event, no notification is provided to any party. Subsequent actions are required: first, entry of a password; and second, if the password is accepted, determination through GPS whether the unit is within an authorized range. Even after such actions, no notices are sent to any party, only access to the network is provided. If such a system were used between parent and child, the child would have to undertake actions to access the base unit, and the parent would not be notified. On the other hand, the present invention provides a passive interface, wherein the presence of the child's cellular phone within the transmission range is sufficient, without further child action. In Cannon, transmission of all interactive communications are limited by Bluetooth range. In the present invention, inasmuch as cellular networks are used to notify, the

parent may be locally or globally situated. Such passivity and ubiquitous connectivity is not taught or suggested by Cannon.

Claim 1 has been amended to set forth such distinguishing structure and function to more clearly recited patentable novelty over the cited references. Therein it is recited that the remote units are cellular phones having bidirectional communication modules with a limited transmission range. Two classes of phones for individuals are provided. Only a single class of transmission, those seeking authorization, is provided in Cannon. It is further recited that the base unit upon receipt of the identification signal from the first remote unit transmits to the master remote unit the presence of the remote unit proximate the structure. No entry of a password is required. No GPS boundary checking is required. A third party is notified. No such party is notified in the reference. Accordingly, it is submitted the claim recites patentable novelty over the cited references and allowance of the claim 1 and claims 2-3, and 5-9 dependent thereon is requested.

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.

Dated: January 30, 2008

Respectfully submitted,

ISHMAN LAW FIRM, PC

A handwritten signature in cursive script, reading "Peter D. Sachtjen".

Peter D. Sachtjen, Reg. No. 24,619

Ishman Law Firm, PC  
Post Office Box 1245  
Cary, NC 27512  
Telephone: (919) 462-3036  
Facsimile: (919) 462-3041  
Attorney Direct Line: (252) 413-0475

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	2789445
<b>Application Number:</b>	11309508
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4507
<b>Title of Invention:</b>	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
<b>First Named Inventor/Applicant Name:</b>	Charles G. Shamoon
<b>Customer Number:</b>	23983
<b>Filer:</b>	Peter D. Sachtjen/Stefanie Hansen
<b>Filer Authorized By:</b>	Peter D. Sachtjen
<b>Attorney Docket Number:</b>	7279-06-06
<b>Receipt Date:</b>	30-JAN-2008
<b>Filing Date:</b>	15-AUG-2006
<b>Time Stamp:</b>	15:32:06
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	trans013008.pdf	294088	no	1
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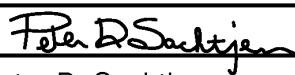
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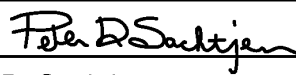
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3	Claims	Amd013008claims.pdf	15937	no	3
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<b>Warnings:</b>					
<b>Information:</b>					
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<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			346591		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  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.</p>					

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<b>TRANSMITTAL FORM</b>  <i>(to be used for all correspondence after initial filing)</i>	Application Number	11/309,508	
	Filing Date	08/15/2006	
	First Named Inventor	SHAMOON, et al.	
	Art Unit	2617	
	Examiner Name	NGUYEN, Huy D.	
Total Number of Pages in This Submission	10	Attorney Docket Number	7279-06-06

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	ISHMAN LAW FIRM P.C.		
Signature			
Printed name	Peter D. Sachtjen		
Date	01/30/2008	Reg. No.	24,619

CERTIFICATE OF TRANSMISSION/MAILING			
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Signature			
Typed or printed name	Peter D. Sachtjen	Date	01/30/2008

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<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875					Application or Docket Number <b>11/309,508</b>		Filing Date <b>08/15/2006</b>		<input type="checkbox"/> To be Mailed							
<b>APPLICATION AS FILED – PART I</b>																
(Column 1)			(Column 2)			SMALL ENTITY <input checked="" type="checkbox"/>		OR		OTHER THAN SMALL ENTITY						
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)		RATE (\$)		FEE (\$)				
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A				N/A						
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A				N/A						
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A				N/A						
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =				X \$ =						
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =				X \$ =						
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 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).														
<input type="checkbox"/> 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				TOTAL						
<b>APPLICATION AS AMENDED – PART II</b>																
(Column 1)			(Column 2)			(Column 3)			SMALL ENTITY		OR		OTHER THAN SMALL ENTITY			
<b>AMENDMENT</b>	<b>01/30/2008</b>		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		RATE (\$)		ADDITIONAL FEE (\$)	
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	Independent (37 CFR 1.16(h))		* 1		Minus *** 3		= 0		X \$105 =		0		OR X \$ =			
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	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))															
						TOTAL ADD'L FEE		0		OR		TOTAL ADD'L FEE				
<b>AMENDMENT</b>	Total (37 CFR 1.16(i))		*		Minus **		=		X \$ =		=		OR X \$ =			
	Independent (37 CFR 1.16(h))		*		Minus ***		=		X \$ =		=		OR X \$ =			
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))															
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))															
						TOTAL ADD'L FEE				OR		TOTAL ADD'L FEE				
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>											<b>Legal Instrument Examiner:</b> <b>/TIA A. BENTLEY/</b>					

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.



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06	4507
23983	7590	06/27/2008	EXAMINER	
Ishman Law Firm P.C. P.O BOX 1245 Cary, NC 27512-1245			NGUYEN, HUY D	
			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			06/27/2008	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.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	11/309,508	SHAMOON ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	HUY D. NGUYEN	2617	

**-- 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 30 January 2008.

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

3) ☐ 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**

4) ☒ Claim(s) 1-9 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.

6) ☒ Claim(s) 1-9 is/are rejected.

7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.

8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

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

10) ☐ 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).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**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) <input type="checkbox"/> Notice of References Cited (PTO-892) 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____. 5) <input type="checkbox"/> Notice of Informal Patent Application 6) <input type="checkbox"/> Other: _____.
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**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "second remote device" in line 4. There is insufficient antecedent basis for this limitation in the claim. The examiner assumes it reads "second remote unit".

Claim 1 recites the limitation "the associated remote device" in line 6. There is insufficient antecedent basis for this limitation in the claim. The examiner assumes it reads "the associated remote unit".

Claim 1 recites the limitation "to said remote devices" in line 8. There is insufficient antecedent basis for this limitation in the claim. The examiner assumes it reads "to said remote units".

Claim 1 recites the limitation "said authorizations codes" in line 6. There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 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. Claims 1-6, 8-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Cannon et al. (U.S. Patent No. 7,058,358).

Regarding claim 1, Cannon et al. teaches a detection system for selectively determining the presence of individuals within a proximate distance of a structure (e.g., building 210, see figure 1), said detection system comprising: a base unit (e.g., security server 200, see figure 1) at said structure (see column 3, line 55-56); a first remote unit (e.g., device 100a, see figure 1) operated by one of the individuals and transmitting a first identification signal; a second remote unit (e.g., device 100b, see figure 1) operated by another of the individuals and transmitting a second identification signal (see column 3, lines 47-53); receiving means (e.g., Bluetooth front end 630, see figure 3) associated with said base unit for receiving said authorizations codes when the associated remote unit is within the proximate distance of the structure (e.g., step 402 of FIG. 4 shows the new presence of a wireless piconet network device in a piconet wireless network, see column 5, lines 62-64) ; selection means (e.g., password authorization module 620, see figure 3) operatively associated with said base unit for selectively establishing an authorized user status to said remote units based on said

identification signal (e.g., step 404 shows the presentation of a password from the wireless piconet network device 100 to the wireless piconet security server 200, see column 5, lines 55-57); instant wireless connectivity means (e.g., RF channel between device 100 and server 200) for transmitting to a master remote unit (e.g., earth coordinates authorization module 600, see figure 3) the presence of a remote unit with said proximate distance of said structure based on said authorized user status (e.g., received GPS location coordinates received from wireless piconet network devices requesting authorization are compared to the boundary coordinates 602 by the earth coordinates authorization module 600 to determine whether or not the requesting wireless piconet network device is within the predetermined secured area, see column 5, lines 36-41).

Regarding claim 2, Cannon et al. teaches the system as recited in claim 1 wherein said base unit includes a Bluetooth transmitter and receive module (e.g., Bluetooth front end 630) for bidirectional communications with said remote units (see figure 3).

Regarding claim 3, Cannon et al. teaches the system as recited in claim 1 wherein said base unit includes a bidirectional radio frequency communications module conforming to the 802.11 protocol (see column 1, line 67).

Regarding claim 4, Cannon et al. teaches the system as recited in claim 1 wherein said remote units include cellular telephones including Bluetooth bidirectional communications modules (see column 4, line 40).

Regarding claim 5, Cannon et al. teaches the system as recited in claim 1 wherein said receiving means associated with said base unit is a Bluetooth bidirectional communications (see figure 3).

Regarding claim 6, Cannon et al. teaches the system as recited in claim 1 wherein said receiving means associated with said base unit is a bidirectional radio frequency communications module conforming to the 802.11 protocol (see column 1, line 67).

Regarding claim 8, Cannon et al. teaches the system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the Bluetooth communications protocol (see column 1, line 43).

Regarding claim 9, Cannon et al. teaches the system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the 802.11 communications protocol (see column 1, line 67).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 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 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cannon et al. in view of Puskala (US 2002/0165024 A1).

Regarding claim 7, Cannon et al. does not teach that the selection means comprises a microcontroller-based processing unit having customizable application specific software. Puskala teaches a mobile phone 10 comprising CPU 50 having a messaging application 62 with customized application specific software (see paragraph 0041 and figure 2). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the

Art Unit: 2617

teaching of Puskala to the teaching of Cannon et al. to improve system flexibility so the mobile unit is more compatible with the variety of network implementations.

***Contact Information***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY D. NGUYEN whose telephone number is (571)272-7845. The examiner can normally be reached on M-F.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on 571-272-7023. 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.

/Huy D Nguyen/  
Examiner, Art Unit 2617

Application/Control Number: 11/309,508  
Art Unit: 2617

Page 7

<b><i>Index of Claims</i></b>  	<b>Application/Control No.</b>  11309508	<b>Applicant(s)/Patent Under Reexamination</b>  SHAMOON ET AL.
	<b>Examiner</b>  Nguyen, Huy D	<b>Art Unit</b>  2617

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant				<input type="checkbox"/> CPA				<input type="checkbox"/> T.D.				<input type="checkbox"/> R.1.47			
CLAIM		DATE													
Final	Original	10/24/2007	06/12/2008												
1	1	✓	✓												
2	2	✓	✓												
	3	✓	✓												
	4	✓	✓												
	5	✓	✓												
	6	✓	✓												
	7	✓	✓												
	8	✓	✓												
	9	✓	✓												

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: SHAMOON, Charles G., et al.  
Title: UBIQUITOUS CONNECTIVITY AND  
CONTROL SYSTEM FOR REMOTE  
LOCATIONS  
Serial No.: 11/309,508  
Filing Date: 10/17/2005  
Group Art Unit: 2617  
Examiner: NGUYEN, Huy D.  
Docket No.: 7279-06-06  
Last Action: 06/27/08  
Customer No.: 23983

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

AMENDMENT

In response to the Office Action mailed June 27, 2008. If any additional fees are required in association with this response, the

Director is hereby authorized to charge them to Deposit Account 500498, and consider this a petition therefor.

In the Claims:

Amend claims as set forth in the attached Claims Status.

## Claims Status

1. (Previously Amended) A detection system for selectively determining the presence of individuals within a proximate distance of a structure, said detection system comprising: a base unit at said structure; a first remote unit operated by one of the individuals and a master remote unit operated by another individual, said remote units being cellular telephones having bidirectional communications modules with limited transmission ranges of about the proximate distance, said module of said first remote transmitting a first identification signal; receiving means associated with said base unit for receiving said first identification signal when said first remote unit is within the proximate distance of the structure; selection means operatively associated with said base unit for selectively establishing an authorized user status to said first remote unit upon receipt of said first identification signal; instant wireless connectivity means for transmitting over a cellular network from said base unit to said master remote unit at a location beyond said limited transmission range the presence of said first remote unit within said proximate distance of said structure.

2. (Previously Amended) The system as recited in claim 1 wherein said base unit includes a Bluetooth transmitter and receiver for bidirectional communications with said remote units.

3. (Original) The system as recited in claim 1 wherein said base unit includes a bidirectional radio frequency communications module conforming to the 802.11 protocol.

Claim 4 –cancelled.

5. (Original) The system as recited in claim 1 wherein said receiving means associated with said base unit is a Bluetooth bidirectional communications module.

6. (Original) The system as recited in claim 1 wherein said receiving means associated with said base unit is a bidirectional radio frequency communications module conforming to the 802.11 protocol.

7. (Original) The system as recited in claim 1 wherein said selection means comprises a microcontroller-based processing unit having customizable application specific software.

8. (Original) The system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the Bluetooth communications protocol.

9. (Original) The system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the 802.11 communications protocol.

## REMARKS

This reply is in response to the Office Action of June 27, 2008.

In reviewing the noted Office Action, it became apparent that the same was inadvertently a duplicate of the original office action of October 30, 2007 and not in response to Applicant's amendment of January 30, 2008.

In view thereof, Applicant requests that the current Office Action be withdrawn and a new appropriate action issued. It is further requested that any extension fees in connection with this response be waived. Should it be determined that extension fees are due, notwithstanding the above, the same may be charged to the above noted Deposit Account.

The following is a duplication of Applicant's Remarks in the response of January 30, 2008.

## **PRIOR REMARKS**

### **Status of the Claims.**

Claims 1–3 and 5–9 are pending. Claims 1 and 2 have been amended. Claim 4 has been cancelled.

### **Claim Rejections**

In the noted Office Actions, original claims 1–6 and 8–9 were rejected under Section 102 over Cannon ‘358. Claim 7 was rejected under Section 103 over Cannon in view of Pulaska Publication ‘024. By this Amendment, Applicant is amending claim 1 to recite with additional clarity the patentable aspects of the invention.

As Examiner well knows, the present invention provides a presence detection system whereby two classes of cellular phones may be utilized for notifying a master unit, such as operated by a parent, of the presence of a first remote unit, such as operated by a child, within a proximate distance of a structure such as the home, regardless of where the parent may be at the time thereby providing ubiquitous connectivity. This determination is provided by limited range modules, i.e. Bluetooth, whereby the base unit within the structure receives the identification signal from the remote unit,

determines if it is an authorized unit, and if authorized sends a notification over a cellular network to a master unit globally accessible regardless of its proximity to the structure.

Such access and connectivity is not taught or suggested by the primary Cannon reference. Therein, the remotes 100b and 100a interface with the security server 200 if within operable range. At this event, no notification is provided to any party. Subsequent actions are required: first, entry of a password; and second, if the password is accepted, determination through GPS whether the unit is within an authorized range. Even after such actions, no notices are send to any party, only access to the network is provided. If such a system were used between parent and child, the child would have to undertake actions to access the base unit, and the parent would not be notified. On the other hand, the present invention provides a passive interface, wherein the presence of the child's cellular phone within the transmission range is sufficient, without further child action. In Cannon, transmission of all interactive communications are limited by Bluetooth range. In the present invention, inasmuch as cellular networks are used to notify, the

parent may be locally or globally situated. Such passivity and ubiquitous connectivity is not taught or suggested by Cannon.

Claim 1 has been amended to set forth such distinguishing structure and function to more clearly recited patentable novelty over the cited references. Therein it is recited that the remote units are cellular phones having bidirectional communication modules with a limited transmission range. Two classes of phones for individuals are provided. Only a single class of transmission, those seeking authorization, is provided in Cannon. It is further recited that the base unit upon receipt of the identification signal from the first remote unit transmits to the master remote unit the presence of the remote unit proximate the structure. No entry of a password is required. No GPS boundary checking is required. A third party is notified. No such party is notified in the reference. Accordingly, it is submitted the claim recites patentable novelty over the cited references and allowance of the claim 1 and claims 2-3, and 5-9 dependent thereon is requested.

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.

#### CONCLUSION PRIOR REMARKS

For the foregoing reasons, Applicant requests that the Application be allowed, or, in the alternative, a new Office Action be issued addressing any remaining issues in light of the prior response, and that any extension fees in connection with this amendment be waived.

Dated: January 29, 2008

Respectfully submitted,

ISHMAN LAW FIRM PC

A handwritten signature in cursive script, reading "Peter D. Sachtjen".

Peter D. Sachtjen, Reg. No. 24,619

Ishman Law Firm PC  
Post Office Box 1245  
Cary, NC 27512  
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Facsimile: (919) 462-3041  
Attorney Direct Line: (252) 413-0475

Electronic Acknowledgement Receipt	
<b>EFS ID:</b>	4531541
<b>Application Number:</b>	11309508
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4507
<b>Title of Invention:</b>	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
<b>First Named Inventor/Applicant Name:</b>	Charles G. Shamoon
<b>Customer Number:</b>	23983
<b>Filer:</b>	Peter D. Sachtjen/Stefanie Hansen
<b>Filer Authorized By:</b>	Peter D. Sachtjen
<b>Attorney Docket Number:</b>	7279-06-06
<b>Receipt Date:</b>	29-DEC-2008
<b>Filing Date:</b>	15-AUG-2006
<b>Time Stamp:</b>	18:28:13
<b>Application Type:</b>	Utility under 35 USC 111(a)

**Payment information:**

Submitted with Payment		no			
<b>File Listing:</b>					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Amend122908.pdf	37418	yes	10
			c0084a0074e61dbfe676184f3995dc81d4fbba0b		

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Amendment/Req. Reconsideration-After Non-Final Reject	1	2
	Claims	3	5
	Applicant Arguments/Remarks Made in an Amendment	6	10
Warnings:			
Information:			
Total Files Size (in bytes):		37418	
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b> 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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b> 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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b> 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.</p>			

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.

<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875					Application or Docket Number <b>11/309,508</b>		Filing Date <b>08/15/2006</b>		<input type="checkbox"/> To be Mailed							
<b>APPLICATION AS FILED – PART I</b>																
(Column 1)			(Column 2)			SMALL ENTITY <input checked="" type="checkbox"/>		OR		OTHER THAN SMALL ENTITY						
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)		RATE (\$)		FEE (\$)				
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A				N/A						
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A				N/A						
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A				N/A						
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =				X \$ =						
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =				X \$ =						
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 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).														
<input type="checkbox"/> 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				TOTAL						
<b>APPLICATION AS AMENDED – PART II</b>																
(Column 1)			(Column 2)			(Column 3)			SMALL ENTITY		OR		OTHER THAN SMALL ENTITY			
<b>AMENDMENT</b>	<b>12/29/2008</b>		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))		* 8		Minus ** 20		= 0		X \$26 =		0		OR X \$ =			
	Independent (37 CFR 1.16(h))		* 1		Minus *** 3		= 0		X \$110 =		0		OR X \$ =			
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))															
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))															
						TOTAL ADD'L FEE		0		OR		TOTAL ADD'L FEE				
<b>AMENDMENT</b>	Total (37 CFR 1.16(i))		*		Minus **		=		X \$ =				OR X \$ =			
	Independent (37 CFR 1.16(h))		*		Minus ***		=		X \$ =				OR X \$ =			
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))															
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))															
						TOTAL ADD'L FEE				OR		TOTAL ADD'L FEE				
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>											<b>Legal Instrument Examiner:</b> <b>/JULIET MCMILLAN/</b>					

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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23983 e 01/26/2009

Ishman Law Firm P.C.  
P.O BOX 1245  
Cary, NC 27512-1245

**Paper No.**

<b>Application No.:</b>	<b>11/309,508</b> 	<b>Date Mailed:</b>	<b>01/26/2009</b>
First Named Inventor:	Shamoon, Charles, G.	Examiner:	NGUYEN, HUY D
Attorney Docket No.:	7279-06-06	Art Unit:	2617
Confirmation No.:	4507	Filing Date:	08/15/2006

**Please find attached an Office communication concerning this application or proceeding.**

**Commissioner for Patents**

<b>NOTICE REQUIRING EXCESS CLAIMS FEES</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	11/309,508	SHAMOON ET AL.	
		<b>Art Unit</b>	
		3998	

The excess claim(s) filed on 29 December, 2008 is not accompanied by the appropriate payment of excess claims fees set forth in 37 CFR 1.16(h)-(j) or 1.492(d)-(f). Excess claims fees are required for each claim in independent form in excess of three (§ 1.16(h)), each claim (whether dependent or independent) in excess of twenty (note that § 1.75(c) indicates how multiple dependent claims are considered for fee calculation purposes) (§ 1.16(i)), and each application that contains a multiple dependent claim (§ 1.16(j)).

Since the application is not under a final rejection, applicant is given a time period of **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, to submit either: (1) the fee payment of \$ , or (2) an amendment in compliance with 37 CFR 1.121 that cancels the excess claim(s), in order to avoid ABANDONMENT. Extensions of this time period may be granted under 37 CFR 1.136, unless the excess claim(s) was presented in a preliminary amendment.

- ☒ 1. The funds in Deposit Account No. 500498 are insufficient to cover the entire fee due. The balance is due within the time period set forth in this notice. See note below regarding the appropriate service charge.
- ☐ 2. The Credit Card payment to cover the entire fee due to Account (Card type + last 4 digits ONLY) was refused. The balance is due within the time period set forth in this notice. See note below regarding the appropriate service charge.
- ☐ 3. The amendment that includes the excess claim(s) has not been entered, since applicant has failed to remit (or authorize charge to a Deposit Account or Credit Card) the fee as indicated on the attached Patent Application Fee Determination Record (PTO/SB/06). Remittance or authorization is due within the time period set forth in this notice.
- ☐ 4. The fee submitted in this application is insufficient. A balance of \$ is due for presentation of excess claims (37 CFR 1.16(h)-(j) or 1.492(d)-(f)).
- ☒ 5. Other.

Explanation (Provide specific details of the required correction in order to assist the applicant. Indicate whether a service charge has been added to the fee due): A fee of \$555.00 is due for three months of extension of time filed under small entity

THE AMOUNT OF THE FEE(S) DUE IS SUBJECT TO CHANGE, GENERALLY ON OCTOBER 1 OF EACH YEAR (37 CFR 1.16, 1.21 & 1.492). THE **AMOUNT OF THE FEE(S) DUE IS DETERMINED AS OF THE DATE A COMPLETE REPLY WITH THE APPROPRIATE FEE(S) IS RECEIVED BY THE OFFICE** (37 CFR 1.8 & 1.10). BECAUSE THE AMOUNT DUE IS SUBJECT TO CHANGE, IT IS RECOMMENDED THAT APPLICANT CHECK THE CURRENT FEE SCHEDULE WHICH IS AVAILABLE ON THE USPTO'S WEBSITE AT: <http://www.uspto.gov/web/offices/ac/qs/ope/fees.htm>

**Service Charges:** There is a \$50 service charge for processing each payment refused (including a check returned "unpaid") or charged back by a financial institution (37 CFR 1.21(m)). There is a \$25.00 service charge for each month when the balance of a deposit account is below \$1000 at the end of the month (37 CFR 1.21(b)(2)).

Technical Support Staff (TSS): /JULIET MCMILLAN/ Phone Number: (571)272-1598

**Note to TSS: Please do NOT use this notice if the application is under a final rejection.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: SHAMOON, Charles G., et al.  
Title: UBIQUITOUS CONNECTIVITY AND  
CONTROL SYSTEM FOR REMOTE  
LOCATIONS  
Serial No.: 11/309,508  
Filing Date: 10/17/2005  
Group Art Unit: 2617  
Examiner: NGUYEN, Huy D.  
Docket No.: 7279-06-06  
Last Action: 01/26/2009  
Customer No.: 23983

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

Dear Sir:

RESPONSE TO NOTICE OF FEES DUE

In response to the Office Action mailed January 26, 2009,  
Applicant encloses the requisite Extension of Times Fees. The  
requisite filing fees are being paid via the EFS-filing system.

If any additional fees are required in association with this response, the Director is hereby authorized to charge them to Deposit Account 500498, and consider this a petition therefor.

Dated: February 12, 2009

Respectfully submitted,

ISHMAN LAW FIRM PC

A handwritten signature in cursive script, reading "Peter D. Sachtjen".

Peter D. Sachtjen, Reg. No. 24,619

Ishman Law Firm PC  
Post Office Box 1297  
Holly Springs, NC 27540  
Telephone: (919) 468-3266  
Facsimile: (919) 882-1466  
Attorney Direct Line: (252) 413-0475

Electronic Patent Application Fee Transmittal				
<b>Application Number:</b>		11309508		
<b>Filing Date:</b>		15-Aug-2006		
<b>Title of Invention:</b>		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
<b>First Named Inventor/Applicant Name:</b>		Charles G. Shamoon		
<b>Filer:</b>		Peter D. Sachtjen/Stefanie Hansen		
<b>Attorney Docket Number:</b>		7279-06-06		
Filed as Small Entity				
<b>Utility under 35 USC 111(a) Filing Fees</b>				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				
Extension - 3 months with \$0 paid	2253	1	555	555

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				555

Electronic Acknowledgement Receipt	
<b>EFS ID:</b>	4787551
<b>Application Number:</b>	11309508
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4507
<b>Title of Invention:</b>	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
<b>First Named Inventor/Applicant Name:</b>	Charles G. Shamoon
<b>Customer Number:</b>	23983
<b>Filer:</b>	Peter D. Sachtjen/Stefanie Hansen
<b>Filer Authorized By:</b>	Peter D. Sachtjen
<b>Attorney Docket Number:</b>	7279-06-06
<b>Receipt Date:</b>	12-FEB-2009
<b>Filing Date:</b>	15-AUG-2006
<b>Time Stamp:</b>	22:56:16
<b>Application Type:</b>	Utility under 35 USC 111(a)

**Payment information:**

Submitted with Payment	yes
Payment Type	Electronic Funds Transfer
Payment was successfully received in RAM	\$ 555
RAM confirmation Number	4887
Deposit Account	
Authorized User	

**File Listing:**

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Miscellaneous Incoming Letter	FeesDue021209.pdf	18249 2faa65005aabe5ffbe2cb117ec742c8a34079314	no	2
<b>Warnings:</b>					
<b>Information:</b>					
2	Fee Worksheet (PTO-06)	fee-info.pdf	30731 18711e8194b2d40710032b7fe1db46a42cb0b842	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			48980		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  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.</p>					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06	4507
23983 7590 03/12/2009 Ishman Law Firm P.C. P.O BOX 1297 Holly Springs, NC 27540-1297			EXAMINER NGUYEN, HUY D	
			ART UNIT 2617	PAPER NUMBER
			MAIL DATE 03/12/2009	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.



**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites "proximate distance", "about the proximate distance". It is unclear how far/close or how many feet/meter "the proximate distance" is.

3. Claim 1 recites the limitation "said first remote". There is insufficient antecedent basis for this limitation in the claim.

4. Claims 2-3, 5-9 are rejected under 35 U.S.C. 112, second paragraph, as being dependants of claim 1.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 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.

6. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Mazzara (US 2003/0087642 A1).

Regarding claim 1, Mazzara teaches a detection system for selectively determining the presence of individuals within a proximate distance of a structure, said detection system comprising: a base unit at said structure (e.g., base station); a first remote unit (e.g., a cell phone) operated by one of the individuals and a master remote unit operated by another individual, said remote units being cellular telephones having bidirectional communications modules with limited transmission ranges (e.g, cell boundary) of about the proximate distance, said module of said first remote transmitting a first identification signal (inherent when the cell phone registers with the network); receiving means associated with said base unit for receiving said first identification signal when said first remote unit is within the proximate distance of the structure (inherent); selection means operatively associated with said base unit for selectively establishing an authorized user status to said first remote unit upon receipt of said first identification signal (inherent in the authentication process, see par. 59); instant wireless connectivity means (e.g., transceiver) for transmitting over a cellular network from said base unit to said master remote unit (e.g., BSC, MSC, or HLR) at a location beyond said limited transmission range the presence of said first remote unit within said proximate distance of said structure (see par. 59).

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 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.

Art Unit: 2617

8. Claims 2-3, 5-6, 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mazzara.

Regarding claims 2, 5, 8, the examiner takes official notice that Bluetooth has been known in the art. It would have been obvious to have included Bluetooth transceiver in the base unit to improve system capability.

Regarding claims 3, 6, 9, the 802.11 standard is Bluetooth. Thus, claims 3, 6, 9 are rejected with the same reason set forth in claims 2, 5, 8.

9. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mazzara in view of Puskala (US 2002/0165024 A1).

Regarding claim 7, Mazzara does not teach that the selection means comprises a microcontroller-based processing unit having customizable application specific software. Puskala teaches a mobile phone 10 comprising CPU 50 having a messaging application 62 with customized application specific software (see paragraph 0041 and figure 2). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Puskala to the teaching of Mazzara to improve system flexibility so the mobile unit is more compatible with the variety of network implementations.

### ***Conclusion***

10. 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.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY D. NGUYEN whose telephone number is (571)272-7845. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on 571-272-7023. 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: 11/309,508  
Art Unit: 2617

Page 6

/Huy D Nguyen/  
Examiner, Art Unit 2617

/Sharad Rampuria/  
Primary Examiner, Art Unit 2617

<b>Notice of References Cited</b>	Application/Control No. 11/309,508	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner HUY D. NGUYEN	Art Unit 2617	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2003/0087642 A1	05-2003	Mazzara, William E.	455/450
*	B	US-2002/0165024	11-2002	Puskala, Teemu	463/40
	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

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S57	4	S55 and S56	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/03/06 14:42
S56	29378891	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/03/06 14:42
S55	8	(cell or cellular or hand or handheld or portable) adj2 (phone or telephone) with (within or enter\$3) adj2 (cell or boundary) with (register\$2 or registration) same (authoriz\$5 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/03/06 14:42
S54	0	((building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access\$3 or intrud\$4) with (notice\$2 or detect\$3) same (alert\$3 or send\$3 or sent or transmit \$4) near5 (cell or cellular) adj2 (phone or telephone)). clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/10 18:11
S53	10	S51 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/10 12:15
S52	29324896	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/10 12:15
S51	13	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access\$3 or intrud\$4) with (notice\$2 or detect\$3) same (alert\$3 or send\$3 or sent or transmit \$4) near5 (cell or cellular) adj2 (phone or telephone)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/10 12:13
S50	24	S48 and S49	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/09 20:42

S49	29323385	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/09 20:42
S48	29	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access\$3 or intrud\$4) with detect\$3 same (alert\$3 or send\$3 or sent or transmit\$4) with (cell or cellular) adj2 (phone or telephone)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/09 20:42
S47	2	"7058358".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/09 20:26
S46	2	"7058358".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 15:15
S45	8	S43 and S44	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 15:15
S44	26902763	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 14:16
S43	8	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access\$3 or intrud\$4) with detect\$3 with (alert\$3 or send\$3 or sent or transmit\$4) with police	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 14:16
S40	13	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) with ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) with detect\$3 with alarm\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 14:14
S42	13	S40 and S41	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 11:51

S41	26902763	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 11:51
S20	2	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) with ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near4 proximity near2 detect\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 11:49
S39	3	S34 and S38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:53
S38	7	customiz\$4 near4 application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:45
S30	707	application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:45
S37	2	S35 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:44
S36	215786	"455"/\$.ccls. or "370"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S35	12	S33 and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S34	26902610	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S33	16	micro adj processor and application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S32	0	micro adj processor same application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S31	0	micro adj processor with application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:42
S26	0	micro adj controller same application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:41


S29	2	S27 and S28	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:18
S28	26902610	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:18
S27	2	micro adj controller same application adj2 specific adj2 software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:18
S25	0	micro adj controller with application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:17
S24	2	"7043635".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:16
S23	2	S18 and S22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 21:18
S22	3	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) with ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near9 proximity near2 detect\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 18:06
S21	1	S20 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 18:06
S17	6	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near4 proximity	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 18:04
S19	5	S17 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 17:57

S18	26902610	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 17:57
S16	12	S12 and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 17:43
S10	122	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access\$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) with (security or authori\$6 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 17:43
S15	42877	bluetooth	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:50
S14	22	S12 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:50
S13	215786	"455"/\$.ccls. or "370"/\$. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:42
S12	85	S8 and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:41
S11	111	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access\$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) with (security or authori\$6 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:41
S9	34	S7 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:37

S7	43	(building or structure or office or vehicle) near4 (entrance or enter\$3 or access\$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) same (security or authori \$6 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:37
S8	26902610	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:36
S3	7	(building or structure or office) near4 (entrance or enter\$3 or access\$3 or authori\$6 or authenticat\$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) with security	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:34
S6	7	(building or structure or office) near4 (entrance or enter\$3 or access\$3 or authori\$6 or authenticat\$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) with security	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 15:59
S5	5	S3 and S4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 13:30
S4	26899584	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 13:30
S2	3709	(building or structure or office) near4 (entrance or enter or access or authori \$6 or authenticat\$3) with (portable or hand or handheld or mobile or wireless)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 13:28
S1	26899584	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 13:26


**3/6/09 5:27:20 PM**

**C:\Documents and Settings\HNguyen25\My Documents\EAST\Workspaces\11309508.wsp**

<b><i>Index of Claims</i></b>  	<b>Application/Control No.</b>  11309508	<b>Applicant(s)/Patent Under Reexamination</b>  SHAMOON ET AL.
	<b>Examiner</b>  Nguyen, Huy D	<b>Art Unit</b>  2617

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	10/24/2007	06/12/2008	03/06/2009						
	1	✓	✓	✓						
	2	✓	✓	✓						
	3	✓	✓	✓						
	4	✓	✓	-						
	5	✓	✓	✓						
	6	✓	✓	✓						
	7	✓	✓	✓						
	8	✓	✓	✓						
	9	✓	✓	✓						

<b>Search Notes</b>  	<b>Application/Control No.</b>  11309508	<b>Applicant(s)/Patent Under Reexamination</b>  SHAMOON ET AL.
	<b>Examiner</b>  Nguyen, Huy D	<b>Art Unit</b>  2617

SEARCHED			
Class	Subclass	Date	Examiner
455	410, 411, 41.2, 456.1, 456.3, 456.4, 435.1	10/22/2007	HN
370	338	10/22/2007	HN
same	above	6/12/2008	HN
same	above	3/6/2009	HN

SEARCH NOTES		
Search Notes	Date	Examiner
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT).See search history.	10/22/2007	HN
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT).See search history.	6/12/2008	HN
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT).See search history.	3/6/2009	HN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
455	410, 411, 456.1	6/12/2008	HN
370	388	6/12/2008	HN

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Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (11-08)

Approved for use through 12/31/2008. 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 contains a valid OMB control number.

# **REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL** **(Submitted Only via EFS-Web)**

Application Number	11/309,508	Filing Date	2006-08-15	Docket Number (if applicable)	7279-06-06	Art Unit	2617
First Named Inventor	Charles G. SHAMOON			Examiner Name	Huy D. NGUYEN		

**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. The Instruction Sheet for this form is located at WWW.USPTO.GOV

## **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).

☐ 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.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on \_\_\_\_\_

☐ Other \_\_\_\_\_

☒ Enclosed

☒ Amendment/Reply

☐ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other \_\_\_\_\_

## **MISCELLANEOUS**

☐ 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)

☐ Other \_\_\_\_\_

## **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 any underpayment of fees, or credit any overpayments, to  
 Deposit Account No 500498

## **SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED**

☒ Patent Practitioner Signature

☐ Applicant Signature

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (11-08)

Approved for use through 12/31/2008. 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 contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sachtjen/	Date (YYYY-MM-DD)	2009-09-14
Name	Peter D. Sachtjen	Registration Number	24619

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.

*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 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.

Electronic Patent Application Fee Transmittal				
<b>Application Number:</b>		11309508		
<b>Filing Date:</b>		15-Aug-2006		
<b>Title of Invention:</b>		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
<b>First Named Inventor/Applicant Name:</b>		Charles G. Shamoon		
<b>Filer:</b>		Peter D. Sachtjen/Stefanie Hansen		
<b>Attorney Docket Number:</b>		7279-06-06		
Filed as Small Entity				
<b>Utility under 35 USC 111(a) Filing Fees</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				
Extension - 3 months with \$0 paid	2253	1	555	555

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Miscellaneous:</b>				
Request for continued examination	2801	1	405	405
<b>Total in USD (\$)</b>				<b>960</b>

Electronic Acknowledgement Receipt	
<b>EFS ID:</b>	6069714
<b>Application Number:</b>	11309508
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4507
<b>Title of Invention:</b>	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
<b>First Named Inventor/Applicant Name:</b>	Charles G. Shamoon
<b>Customer Number:</b>	23983
<b>Filer:</b>	Peter D. Sachtjen/Stefanie Hansen
<b>Filer Authorized By:</b>	Peter D. Sachtjen
<b>Attorney Docket Number:</b>	7279-06-06
<b>Receipt Date:</b>	14-SEP-2009
<b>Filing Date:</b>	15-AUG-2006
<b>Time Stamp:</b>	18:02:32
<b>Application Type:</b>	Utility under 35 USC 111(a)

**Payment information:**

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 960
RAM confirmation Number	4541
Deposit Account	
Authorized User	

**File Listing:**

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1		Amend091409Rf.pdf	38610 dea83a45a6b8b73d6e6894fdc208930bd8608ff1	yes	10
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	2	
	Claims		3	5	
	Applicant Arguments/Remarks Made in an Amendment		6	10	
Warnings:					
Information:					
2	Extension of Time	EOT091409.pdf	67220 7d2da74d93dc01de2caab54db1a1383cfe81621	no	1
Warnings:					
Information:					
3	Request for Continued Examination (RCE)	RCE091409.pdf	697398 06f837003db8bc726a35e3b646e3c0a9c6393050	no	3
Warnings:					
Information:					
4	Fee Worksheet (PTO-875)	fee-info.pdf	32806 f12d16a2f3dbbf665498c01eb94fa85995242db4	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			836034		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: SHAMOON, Charles G., et al.  
Title: UBIQUITOUS CONNECTIVITY AND  
CONTROL SYSTEM FOR REMOTE  
LOCATIONS  
Serial No.: 11/309,508  
Filing Date: 08/15/2006  
Group Art Unit: 2617  
Examiner: NGUYEN, Huy D.  
Docket No.: 7279-06-06  
Last Action: 03/12/08  
Customer No.: 23983

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

AMENDMENT

In response to the Office Action mailed March 12, 2009. If any additional fees are required in association with this response, the Director is hereby authorized to charge them to Deposit Account 500498, and consider this a petition therefor.

In the Claims:

Amend claims as set forth in the attached Claims Status.

## Claims Status

1. (Currently Amended) A detection system for selectively determining the presence of individuals ~~within a proximate distance~~ of a structure, said detection system comprising: a base unit at said structure; a first remote unit operated by one of the individuals and a master remote unit operated by another individual, said remote units being cellular telephones, said remote units and said base unit having geographical dependent bidirectional communications modules with limited transmission ranges of about 100 m or less ~~the proximate distance~~, said module of said first remote unit transmitting a first identification signal; receiving means associated with said base unit for receiving said first identification signal when said first remote unit is within said limited transmission range ~~the proximate distance~~ of the structure; selection means operatively associated with said base unit for selectively establishing an authorized user status to said first remote unit upon receipt of said first identification signal; instant wireless connectivity means for transmitting over a cellular network from said base unit to said master remote unit ~~at a location beyond said limited transmission~~

range the presence of said first remote unit within said limited transmission range ~~proximate distance~~ of said structure.

2. (Previously Amended) The system as recited in claim 1 wherein said base unit includes a Bluetooth transmitter and receiver for bidirectional communications with said remote units.

3. (Original) The system as recited in claim 1 wherein said base unit includes a bidirectional radio frequency communications module conforming to the 802.11 protocol.

Claim 4 is cancelled.

5. (Original) The system as recited in claim 1 wherein said receiving means associated with said base unit is a Bluetooth bidirectional communications module.

6. (Original) The system as recited in claim 1 wherein said receiving means associated with said base unit is a bidirectional radio

frequency communications module conforming to the 802.11 protocol.

7. (Original) The system as recited in claim 1 wherein said selection means comprises a microcontroller-based processing unit having customizable application specific software.

8. (Original) The system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the Bluetooth communications protocol.

9. (Original) The system as recited in claim 1 wherein said instant wireless connectivity means is a radio frequency communications channel according to the 802.11 communications protocol.

## REMARKS

This reply is in response to the Office Action of March 12, 2009.

### Extension of Time

Applicant is requesting a three month extension of time from June 12, 2009 through September 14, 2009 (September 12, 2009 and September 13, 2009 being a Saturday and Sunday, respectively). The requisite petition and fee are included with this response.

### Request for Continued Examination

A Request for Continuing Examination and the requisite small entity filing fee is submitted herewith.

### Claim Rejections– 35 USC 112

Claim 1 was rejected under section 112 in paragraph 3 based on a lack of antecedence for “said first remote”. Claim 1 has been amended to recite this element as “first remote unit”. In paragraph 2, claim 1 was rejected for alleged indefiniteness in the recitation of

“proximate distance”. Applicant submits that the claim as presented has requisite definition through subsequently recited equivalence to “limited transmission ranges” for the remote units. Nonetheless, claim 1 has been amended as hereinafter noted to overcome the rejection and provide a numerically specified transmission range. Acceptance of these changes is requested.

#### Claim Rejections – 35 USC 102/103

In the noted Office Action, claims 1 through 9 were rejected under Sections 102/103 over the newly cited primary reference to Mazzara. The differences between the present system and the reference system are manifest upon even casual inspection. By this Amendment, Applicant is further amending claim 1 to recite with additional clarity these patentable aspects of the invention.

As Examiner well knows, the present invention provides a presence detection system whereby two classes of cellular phones may be utilized for notifying a master unit, such as operated by a parent, of the presence of a first remote unit, such as operated by a child, within a proximate distance of a structure such as the home, regardless of where the parent may be at the time thereby providing

ubiquitous connectivity. This determination is provided by limited range modules, i.e. Bluetooth, whereby the base unit within the structure receives the identification signal from the remote unit, determines if it is an authorized unit, and if authorized sends a notification over a cellular network to a master unit globally accessible regardless of its proximity to the structure.

Such access conditioning and connectivity is not taught or suggested by Mazzara. This reference is a system whereby a motor vehicle 110 can call a service center for vehicle related information and service. The vehicle can be located anywhere and there is not any geographically dependent aspect of its operation. To assert that inherency could provide such a missing teaching or suggestion strains credibility. There is nothing in Mazzara to render desirable the ability to sense when the vehicle is close within a predetermined distance to the service center. The desired operating conditions are completely opposite, i.e. the ability to contact the service center from wherever the vehicle may be.

Claim 1 has been amended to set forth additional distinction over Examiner's expansive interpretation of the cited reference. The claim recites that the remote units and base unit have a limited

transmission range of about 100 m or less, a distance consistent with the class 3 Bluetooth range. No such operation enablement or limitation is present in the reference, explicitly or implicitly.

Because no geographically limited assessment of the vehicle 110 to the base station 140 is made, it cannot be argued that “instant wireless connectivity means for transmitting over a cellular network from said base unit to said master remote unit the presence of said first remote unit within said limited transmission range of said structure”. Accordingly, it is submitted that claim 1 and dependent claims 2–3 and 5–9 are allowable. 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.

Dated: September 14, 2009

Respectfully submitted,

ISHMAN LAW FIRM, PLLC

A handwritten signature in cursive script, reading "Peter D. Sachtjen".

Peter D. Sachtjen, Reg. No. 24,619

Ishman Law Firm PC  
Post Office Box 1297  
Holly Springs, NC 27540  
Telephone: (919) 468-3266  
Facsimile: (919) 882-1466  
Attorney Direct Line: (252) 413-0475

<b>PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)</b> <b>FY 2009</b> <i>(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)</i>		Docket Number (Optional)  7279-06-06
Application Number 11/309,508		Filed 08/15/2006
For <b>UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS</b>		
Art Unit 2617		Examiner Huy D. NGUYEN

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	<u>Fee</u>	<u>Small Entity Fee</u>	
<input type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$130	\$65	\$ _____
<input type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$490	\$245	\$ _____
<input checked="" type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1110	\$555	\$ <u>555.00</u>
<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$1730	\$865	\$ _____
<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$2350	\$1175	\$ _____

☒ Applicant claims small entity status. See 37 CFR 1.27.

☐ A check in the amount of the fee is enclosed.

☒ Payment by credit card. XXXXXXXXXXXXXXXXXXXX ☒ Fee paid via E-Filing System

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number \_\_\_\_\_.

**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/inventor.

☐ 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).

☒ attorney or agent of record. Registration Number 24619

☐ attorney or agent under 37 CFR 1.34.  
Registration number if acting under 37 CFR 1.34 \_\_\_\_\_

Peter D. Sachtjen \_\_\_\_\_ 09/14/2009  
Signature Date

Peter D. Sachtjen \_\_\_\_\_ 252-413-0475  
Typed or printed name Telephone Number

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 (1) forms are submitted.

This collection of information is required by 37 CFR 1.136(a). 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 6 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.

<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875					Application or Docket Number <b>11/309,508</b>		Filing Date <b>08/15/2006</b>		<input type="checkbox"/> To be Mailed									
<b>APPLICATION AS FILED – PART I</b>																		
(Column 1)			(Column 2)			SMALL ENTITY <input checked="" type="checkbox"/>		OR		OTHER THAN SMALL ENTITY								
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)		RATE (\$)		FEE (\$)						
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A				N/A								
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A				N/A								
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A				N/A								
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =				X \$ =								
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =				X \$ =								
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 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).																
<input type="checkbox"/> 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				TOTAL								
<b>APPLICATION AS AMENDED – PART II</b>																		
(Column 1)			(Column 2)			(Column 3)			SMALL ENTITY		OR		OTHER THAN SMALL ENTITY					
<b>AMENDMENT</b>	<b>09/14/2009</b>		CLAIMS REMAINING AFTER AMENDMENT				HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))		* 8		Minus		** 20		= 0		X \$26 =		0		OR		X \$ =	
	Independent (37 CFR 1.16(h))		* 1		Minus		*** 3		= 0		X \$110 =		0		OR		X \$ =	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))																	
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))																	
						TOTAL ADD'L FEE		0		OR		TOTAL ADD'L FEE						
<b>AMENDMENT</b>			CLAIMS REMAINING AFTER AMENDMENT				HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))		*		Minus		**		=		X \$ =				OR		X \$ =	
	Independent (37 CFR 1.16(h))		*		Minus		***		=		X \$ =				OR		X \$ =	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))																	
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))																	
						TOTAL ADD'L FEE				OR		TOTAL ADD'L FEE						
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>											<b>Legal Instrument Examiner:</b> /ANTHONY WILLIAMS/							

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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Alexandria, Virginia 22313-1450  
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

23983 7590 10/07/2009

Ishman Law Firm P.C.  
P.O BOX 1297  
Holly Springs, NC 27540-1297

EXAMINER

NGUYEN, HUY D

ART UNIT

PAPER NUMBER

2627

DATE MAILED: 10/07/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/309,508

08/15/2006

Charles G. Shamoon

7279-06-06

4507

TITLE OF INVENTION: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/07/2010

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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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)

23983 7590 10/07/2009

Ishman Law Firm P.C.  
P.O BOX 1297  
Holly Springs, NC 27540-1297

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.
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06	4507

TITLE OF INVENTION: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/07/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, HUY D	2627	455-410000

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,
- (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.

1 \_\_\_\_\_

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 credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06	4507
23983	7590	10/07/2009	EXAMINER	
Ishman Law Firm P.C. P.O BOX 1297 Holly Springs, NC 27540-1297			NGUYEN, HUY D	
			ART UNIT	PAPER NUMBER
			2627	
DATE MAILED: 10/07/2009				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	11/309,508	SHAMOON ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	HUY D. NGUYEN	2627	

**-- 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 9/14/2009.

2. ☒ The allowed claim(s) is/are 1-3 and 5-9.

3. ☐ 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 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.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  
     (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  
         1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
     (b) ☐ 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. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____.
---	---

**DETAILED ACTION**

***Allowable Subject Matter***

1. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the cited prior arts, either alone or in combination, fail to teach remote units being cellular telephones, said remote units and said base unit having geographical dependent bidirectional communications modules with limited transmission ranges of about 100 m or less, said module of said first remote unit transmitting a first identification signal; receiving means associated with said base unit for receiving said first identification signal when said first remote unit is within said limited transmission range of the structure, in combination with all of other limitations of the claim.

Claims 2-3, 5-9 depend on claim 1. Thus, they are allowable.

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."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY D. NGUYEN whose telephone number is (571)272-7845. The examiner can normally be reached on M-F.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. 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.

/Joseph H. Feild/  
Supervisory Patent Examiner, Art Unit  
2627

/Huy D Nguyen/  
Examiner, Art Unit 2627



<b>Search Notes</b>  	<b>Application/Control No.</b>  11309508	<b>Applicant(s)/Patent Under Reexamination</b>  SHAMOON ET AL.
	<b>Examiner</b>  Nguyen, Huy D	<b>Art Unit</b>  2617

SEARCHED			
Class	Subclass	Date	Examiner
455	410, 411, 41.2, 456.1, 456.3, 456.4, 435.1	10/22/2007	HN
370	338	10/22/2007	HN
same	above	6/12/2008	HN
same	above	3/6/2009	HN
updated search	same as above	9/28/2009	HN

SEARCH NOTES		
Search Notes	Date	Examiner
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT).See search history.	10/22/2007	HN
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT).See search history.	6/12/2008	HN
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT).See search history.	3/6/2009	HN
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT).See search history.	9/28/2009	HN
See interference search.	9/28/2009	HN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
455	410, 411, 41.2, 456.1, 456.3, 456.4, 435.1	9/28/2009	HN
370	338	9/28/2009	HN

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

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S63	0	((building or structure or office or vehicle or residence or house or home) with (entrance or enter\$3 or access \$3 or intrud\$4) with (notice \$2 or detect\$3) same (alert\$3 or send\$3 or sent or transmit \$4) with (cell or cellular) adj2 (phone or telephone) and "100" adj (m or meter)). clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/09/28 10:08
S62	0	((building or structure or office or vehicle or residence or house or home) with (entrance or enter\$3 or access \$3 or intrud\$4) with (notice \$2 or detect\$3) same (alert\$3 or send\$3 or sent or transmit \$4) near5 (cell or cellular) adj2 (phone or telephone) and "100" adj (m or meter)). clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/09/28 10:08
S61	1	(building or structure or office or vehicle or residence or house or home) with (entrance or enter\$3 or access \$3 or intrud\$4) with (notice \$2 or detect\$3) same (alert\$3 or send\$3 or sent or transmit \$4) near5 (cell or cellular) adj2 (phone or telephone) and "100" adj (m or meter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/09/28 10:07
S60	0	S58 and S59	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/09/28 10:06
S59	29758133	@ad<"20041118" or @rlad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/09/28 10:06

S58	1	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access \$3 or intrud\$4) with (notice \$2 or detect\$3) same (alert\$3 or send\$3 or sent or transmit \$4) near5 (cell or cellular) adj2 (phone or telephone) and "100" adj (m or meter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/09/28 10:05
S57	4	S55 and S56	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/03/06 14:42
S56	29378891	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/03/06 14:42
S55	8	(cell or cellular or hand or handheld or portable) adj2 (phone or telephone) with (within or enter\$3) adj2 (cell or boundary) with (register \$2 or registration) same (authoriz\$5 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/03/06 14:42
S54	0	((building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access \$3 or intrud\$4) with (notice \$2 or detect\$3) same (alert\$3 or send\$3 or sent or transmit \$4) near5 (cell or cellular) adj2 (phone or telephone)). clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/10 18:11
S53	10	S51 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/10 12:15
S52	29324896	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/10 12:15
S51	13	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access \$3 or intrud\$4) with (notice \$2 or detect\$3) same (alert\$3 or send\$3 or sent or transmit \$4) near5 (cell or cellular) adj2 (phone or telephone)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/10 12:13

S50	24	S48 and S49	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/09 20:42
S49	29323385	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/09 20:42
S48	29	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access \$3 or intrud\$4) with detect\$3 same (alert\$3 or send\$3 or sent or transmit\$4) with (cell or cellular) adj2 (phone or telephone)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/09 20:42
S47	2	"7058358".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/09 20:26
S46	2	"7058358".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 15:15
S45	8	S43 and S44	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 15:15
S44	26902763	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 14:16
S43	8	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access \$3 or intrud\$4) with detect\$3 with (alert\$3 or send\$3 or sent or transmit\$4) with police	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 14:16
S40	13	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access \$3) with ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) with detect \$3 with alarm\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 14:14
S42	13	S40 and S41	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 11:51

S41	26902763	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 11:51
S20	2	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access \$3) with ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near4 proximity near2 detect\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/25 11:49
S39	3	S34 and S38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:53
S38	7	customiz\$4 near4 application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:45
S30	707	application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:45
S37	2	S35 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:44
S36	215786	"455"/\$.ccls. or "370"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S35	12	S33 and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S34	26902610	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S33	16	micro adj processor and application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S32	0	micro adj processor same application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:43
S31	0	micro adj processor with application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:42
S26	0	micro adj controller same application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/24 12:41
S29	2	S27 and S28	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:18

S28	26902610	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:18
S27	2	micro adj controller same application adj2 specific adj2 software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:18
S25	0	micro adj controller with application adj specific adj software	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:17
S24	2	"7043635".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 22:16
S23	2	S18 and S22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 21:18
S22	3	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access \$3) with ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near9 proximity near2 detect\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 18:06
S21	1	S20 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 18:06
S17	6	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access \$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) near4 proximity	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 18:04
S19	5	S17 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 17:57
S18	26902610	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 17:57
S16	12	S12 and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 17:43

S10	122	(building or structure or office or vehicle or residence or house or home) near4 (entrance or enter\$3 or access \$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) with (security or authori\$6 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 17:43
S15	42877	bluetooth	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:50
S14	22	S12 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:50
S13	215786	"455"/\$.ccls. or "370"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:42
S12	85	S8 and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:41
S11	111	(building or structure or office or vehicle or residence or house or home) near3 (entrance or enter\$3 or access \$3) near4 ((cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) or pda) with (security or authori\$6 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:41
S9	34	S7 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:37
S7	43	(building or structure or office or vehicle) near4 (entrance or enter\$3 or access \$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) same (security or authori\$6 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:37
S8	26902610	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:36

S3	7	(building or structure or office) near4 (entrance or enter\$3 or access\$3 or authori\$6 or authenticat\$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) with security	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/23 13:34
S6	7	(building or structure or office) near4 (entrance or enter\$3 or access\$3 or authori\$6 or authenticat\$3) near3 (cell or cellular or portable or hand or handheld or mobile or wireless) adj2 (device or unit or telephone or phone) with security	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 15:59
S5	5	S3 and S4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 13:30
S4	26899584	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 13:30
S2	3709	(building or structure or office) near4 (entrance or enter or access or authori\$6 or authenticat\$3) with (portable or hand or handheld or mobile or wireless)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 13:28
S1	26899584	@ad<"20041118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/19 13:26

9/28/09 11:41:34 AM

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01-06-10  
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)

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23983 7590 10/07/2006  
Ishman Law Firm P.C.  
P.O BOX 1297  
Holly Springs, NC 27540-1297



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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.

CHARLES SHAMMOON	(Depositor's name)
<i>Charles Shammoon</i>	(Signature)
1-5-10	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/309,508	08/15/2006	Charles G. Shamnoon	7279-06-06	4507

TITLE OF INVENTION: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	01/06/2010 CCHAUE	0000\$092511309508	01/07/2010
EXAMINER		ART UNIT	CLASS-SUBCLASS			
NGUYEN, HUY D		2627	455-410000	01 FC:2501 02 FC:1504		
				755.00 OP 300.00 OP		

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,  
(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.

1  
2 **ISHMAN LAW FIRM P.C.**  
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.  
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☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

*Charles Shammoon*  
**CHARLES SHAMMOON**

Date

1/5/2010

Typed or printed name

Registration No. \_\_\_\_\_

This collection of information 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.

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/309,508	02/23/2010	7668532	7279-06-06	4507
23983	7590	02/03/2010		
Ishman Law Firm P.C. P.O BOX 1297 Holly Springs, NC 27540-1297				

### 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;

REVOCATION/NEW POA/CORRFS. 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**

**[X]** I hereby appoint the practitioners associated with the Customer Number: **000040401** for the patent(s)/application(s) identified herein.

**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

Name		HERSHKOVITZ & ASSOCIATES, LLC			
Address					
City		State			Zip Code
Country	Email		Telephone		Facsimile
	patent@hershkovitz.net		703-370-4800		

**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:

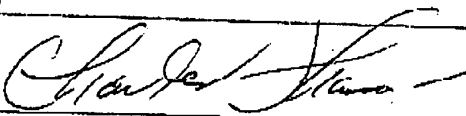
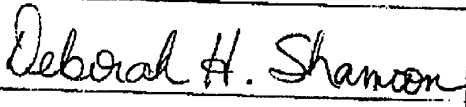
☐ Inventor(s)☒ Assignee(s) of entire and exclusive interest in and to the patent(s) and application(s) identified herein. See 37 CFR §3.71.☒ Statement under 37 CFR §3.73(b):

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 SHAMON		Date	6/24/2011
Signature of Assignee DEBORAH H. SHAMON		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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TEL: 7033704800

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PAGE 1/5 \* RCVD AT 6/24/2011 4:07:29 PM (Eastern Daylight Time) \* SVR:WPTOFAX-002/30 \* DNIS:2738300 \* CSID:7033704809 \* DURATION (mm-ss):01-30

**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**Fax**

To: US PTO From: Abe Hershkovitz

Fax: 571-273-8300 Date: June 24, 2011

Phone: Pages: 4

Re: U.S. Patent No: 7,668,532; Docket No: P2921567

☒ Urgent☒ For Review☐ Please Comment☐ Please Reply☐ Please Recycle\*\*\*\*\***CONFIDENTIALITY NOTE**\*\*\*\*\*

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TEL. 703-370-4800 ~ FACSIMILE 703-370-4809  
patent@hershkovitz.net ~ www.hershkovitz.net

Applicant : Charles G. SHAMOON et al. Group Art Unit : 2627  
Patent No. : 7,668,532 Examiner : NGUYEN, HUY D  
Issued : February 23, 2010 Confirmation No. : 4507  
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 **Revocation of Power of Attorney** in 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:			x 26=	\$	x 52=	\$
Indep. Claims:			x 110=	\$	x 220=	\$
				\$		\$
Total:				\$	Total:	\$

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The U.S. Patent and Trademark Office is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-2929:

Any patent application processing fees under 37 C.F.R. 1.17, including any required extension of time fees in any concurrent or future reply requiring a petition for extension of time for its timely submission (37 CFR 1.136)(a)(3).

Respectfully submitted,

Date: June 24, 2011

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

P2921567.A01; AH/DN/pc



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06

**CONFIRMATION NO. 4507**

**POWER OF ATTORNEY NOTICE**

23983

Ishman Law Firm P.C.  
9660 Falls of Neuse Road  
Suite 138-350  
Raleigh, NC 27615



Date Mailed: 07/13/2011

**NOTICE REGARDING CHANGE OF POWER OF ATTORNEY**

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

- 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).

/ttkim/

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



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/309,508	08/15/2006	Charles G. Shamoon	7279-06-06

**CONFIRMATION NO. 4507**  
**POA ACCEPTANCE LETTER**

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



Date Mailed: 07/13/2011

**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.

/tkim/

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

Doc Code: PET.POA.WDRW

Document Description: Petition to withdraw attorney or agent (SB883)

PTO/SB/83 (04-13)

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<b>REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS</b>	Application Number	11309508
	Filing Date	2006-08-15
	First Named Inventor	Charles G. Shamoon
	Art Unit	2627
	Examiner Name	Huy D. Nguyen
	Practitioner Docket Number	P2921567

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:

- |   |                                       |  |
|---|---------------------------------------|--|
| <input type="checkbox"/> 11.116(a)(1)                       | <input type="checkbox"/> 11.116(a)(2) | <input type="checkbox"/> 11.116(a)(3)            |
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| <input type="checkbox"/> 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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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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<b>NOTE: Withdrawal is effective when approved rather than when received.</b>			

[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.

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Electronic Acknowledgement Receipt	
<b>EFS ID:</b>	20232090
<b>Application Number:</b>	11309508
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4507
<b>Title of Invention:</b>	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
<b>First Named Inventor/Applicant Name:</b>	Charles G. Shamoon
<b>Customer Number:</b>	40401
<b>Filer:</b>	Abraham HersHKovitz/Dinh Nguyen
<b>Filer Authorized By:</b>	Abraham HersHKovitz
<b>Attorney Docket Number:</b>	P2921567
<b>Receipt Date:</b>	25-SEP-2014
<b>Filing Date:</b>	15-AUG-2006
<b>Time Stamp:</b>	07:38:59
<b>Application Type:</b>	Utility under 35 USC 111(a)

**Payment information:**

Submitted with Payment		no			
<b>File Listing:</b>					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		p2921567_20140924081010.pdf	170950	yes	3
			1879ea6253bb36e6286bd7f0dd9b69858b9c6494		

	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:			
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<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b> 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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b> 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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b> 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.</p>			



# HERSHKOVITZ & ASSOCIATES, PLLC

## PATENT AGENCY

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Applicant: Charles E. Shamoon et al.

Examiner: Huy D. Nguyen

Appl. No.: 11/309,508

Group Art Unit: 2627

Appl. Filed: August 15, 2006

Confirmation No.: 4507

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