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UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	SHAM1010-2
	First Named Inventor	Charles G. Shamoon
	Title	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
	Express Mail Label No.	Filed via EFS

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form (PTO/SB/17 or equivalent)	ACCOMPANYING APPLICATION PAPERS
2. ☒ Applicant asserts small entity status. See 37 CFR 1.27	
3. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.	
4. ☒ Specification [Total Pages <u>39</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement)	
5. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets <u>4</u>]	
6. Inventor's Oath or Declaration [Total Pages _____] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) a. ☐ Newly executed (original or copy) b. ☒ A copy from a prior application (37 CFR 1.63(d))	
7. ☒ Application Data Sheet * See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent)	
8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix) ☐ Landscape Table on CD	
9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) a. ☐ Computer Readable Form (CRF) b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ Paper c. ☐ Statements verifying identity of above copies	
10. ☐ Assignment Papers (cover sheet & document(s)) Name of Assignee _____	
11. ☐ 37 CFR 3.73(c) Statement (when there is an assignee) ☐ Power of Attorney	
12. ☐ English Translation Document (if applicable)	
13. ☐ Information Disclosure Statement (PTO/SB/08 or PTO-1449) ☐ Copies of citations attached	
14. ☐ Preliminary Amendment	
15. ☐ Return Receipt Postcard (MPEP § 503) (Should be specifically itemized)	
16. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)	
17. ☐ Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.	
18. ☐ Other: _____ _____ _____ _____	

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS			
☒ The address associated with Customer Number: <u>109967</u> OR ☐ Correspondence address below			
Name _____			
Address _____			
City _____	State _____	Zip Code _____	
Country _____	Telephone _____	Email _____	
Signature	/Gene Pierson/	Date	08/25/2016
Name (Print/Type)	Gene Pierson	Registration No. (Attorney/Agent)	67359

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Resideo Technologies, Inc. v. Ubiquitous Connectivity, LP

IPR2019-01335

Patent # 8,064,935

Exhibit # 1011

Privacy Act Statement

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

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

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

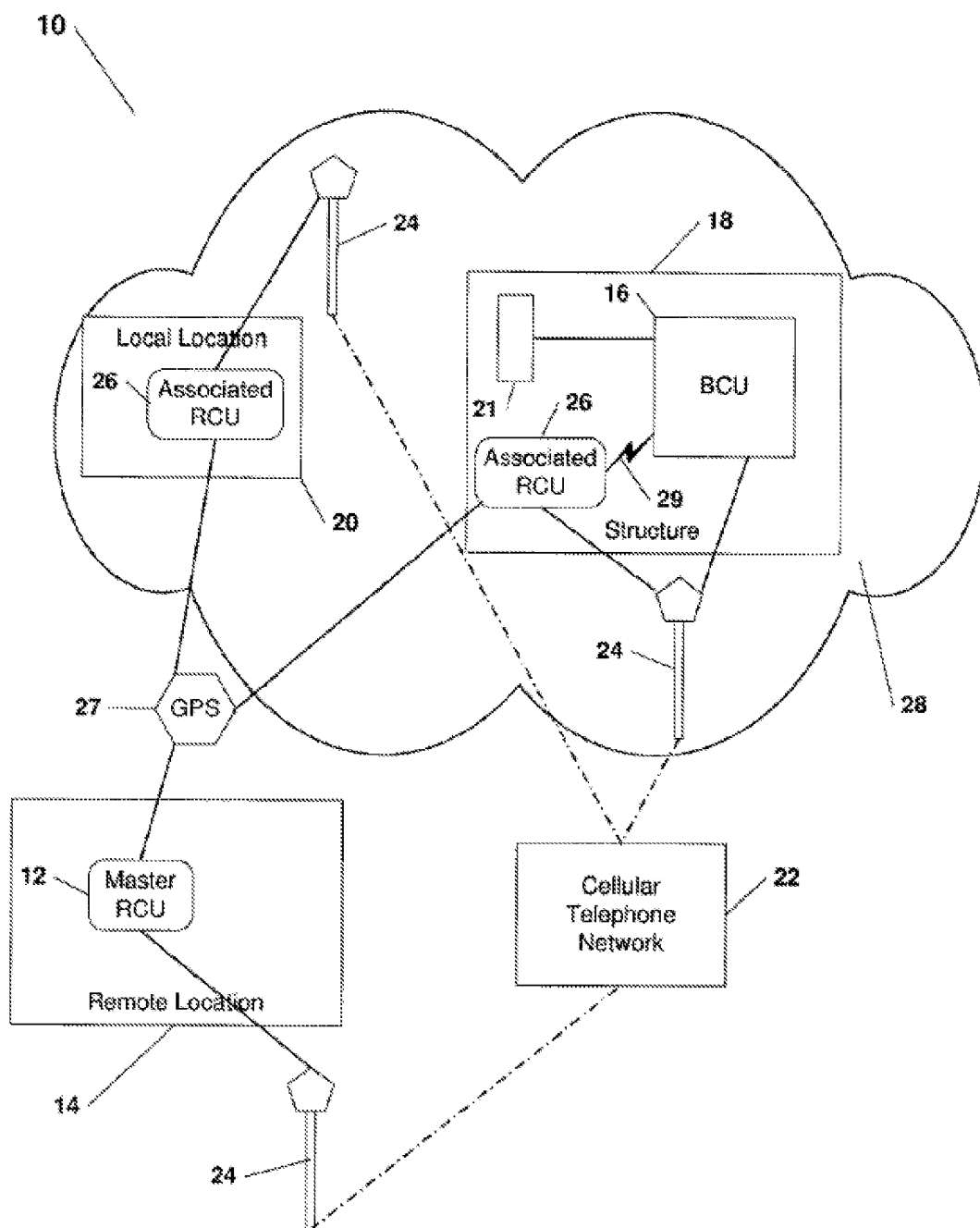


Fig. 1

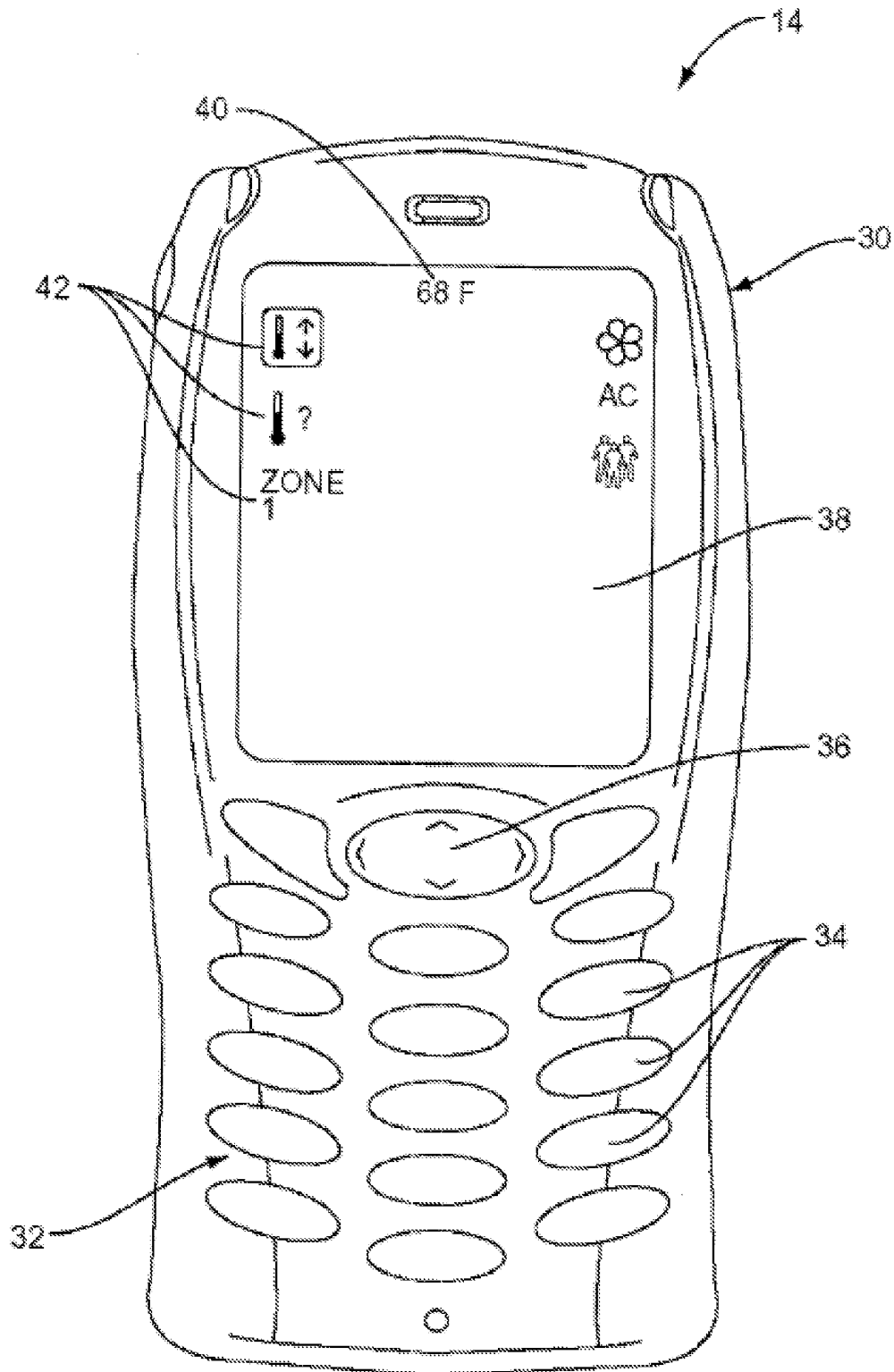
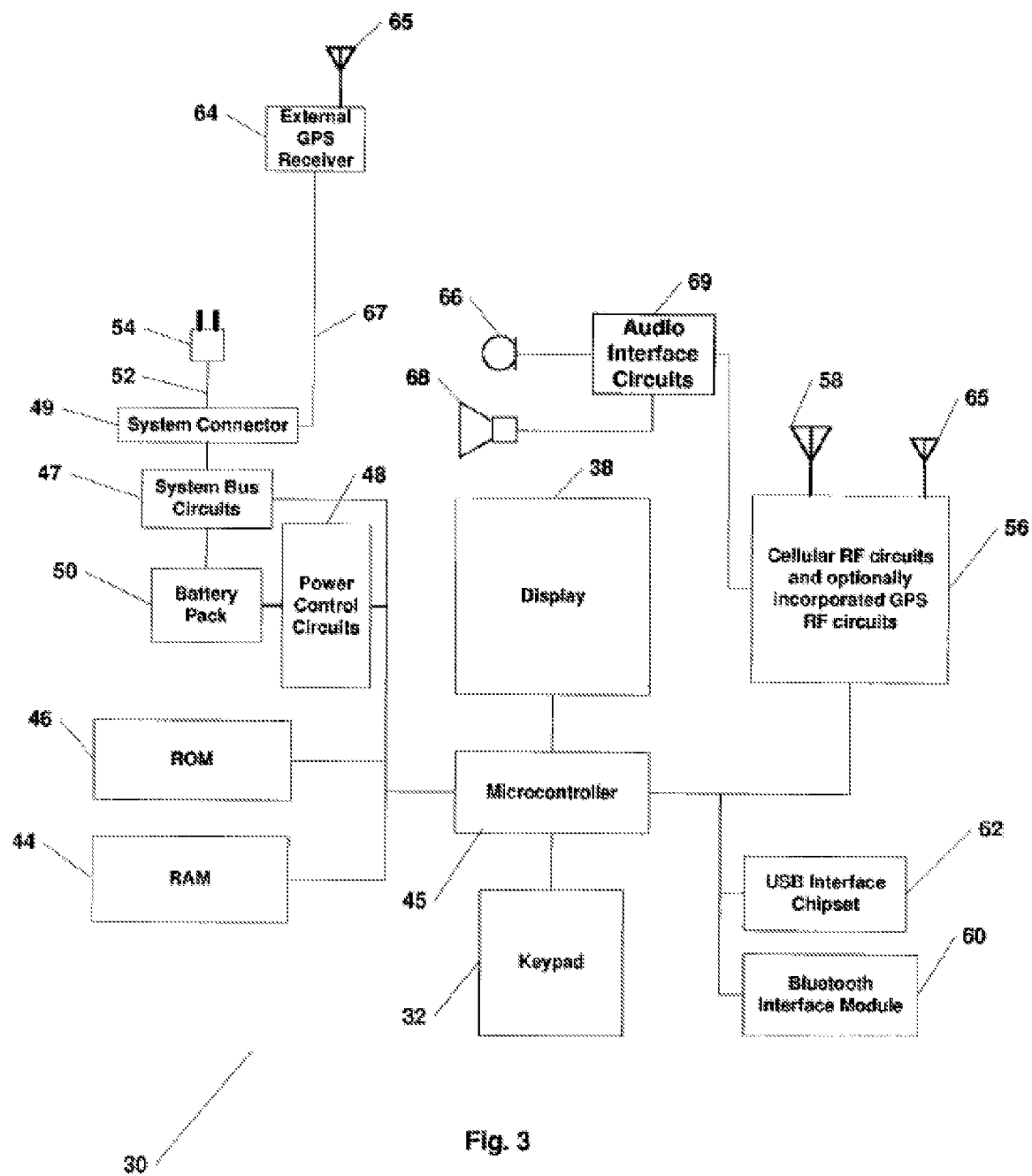


FIG. 2



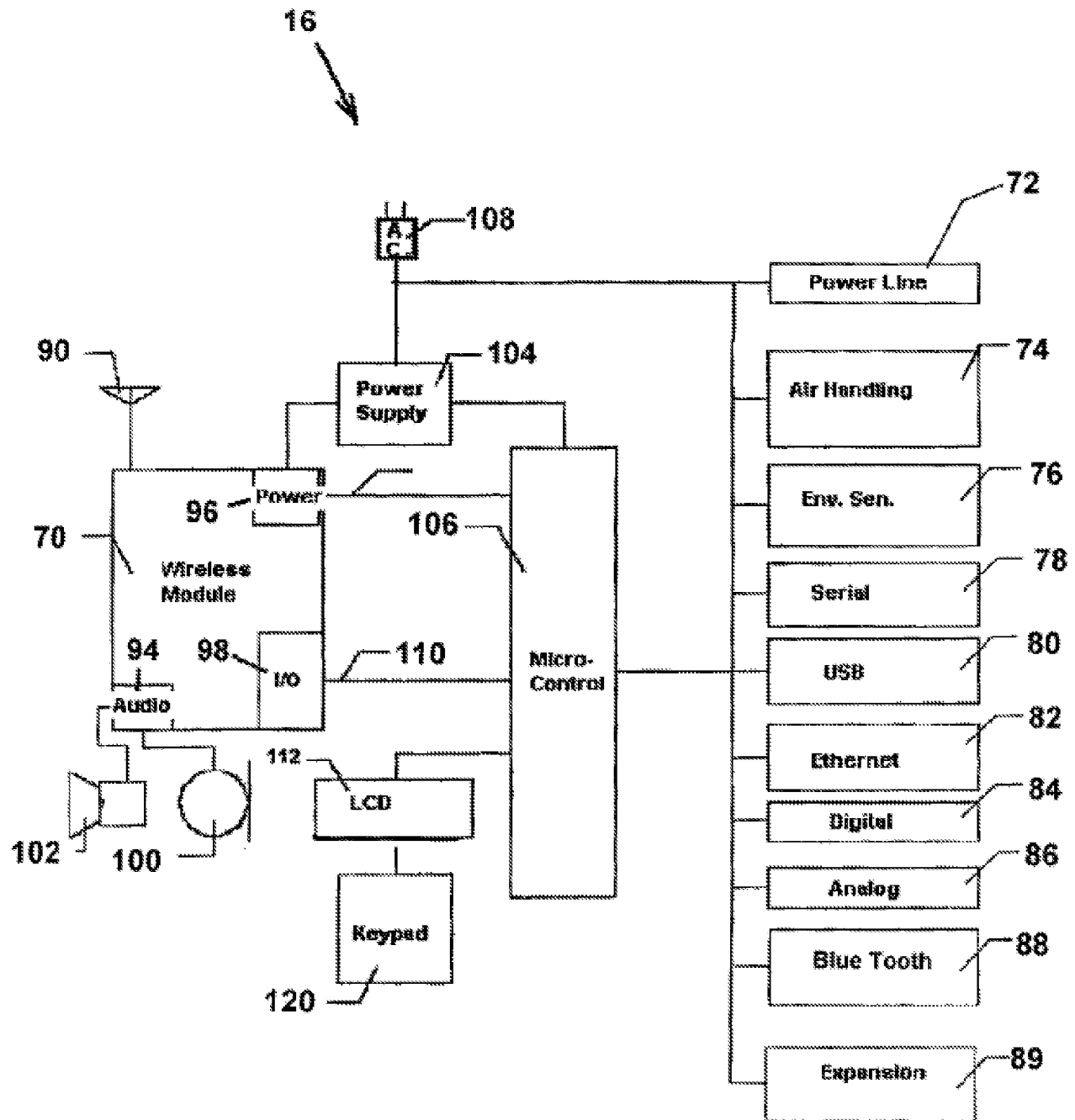


Fig. 4

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

I hereby declare that:

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

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

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

(Title of the Invention)

the specification of which

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

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

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

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

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

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

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

[Page 1 of 2]

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

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DECLARATION — Utility or Design Patent Application

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

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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet

Page 1 of 1

Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Franklin Eugene		NEAL	
Inventor's Signature: <i>Franklin Eugene Neal</i>		Date: 5-25-05	
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:		☐ 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:		☐ 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: 6-2-2005	
Residence: City	FUQUAY-VARINA	State	N.C.
		Country	USA
3021 BENTWILLOW DRIVE			
Mailing Address			
FUQUAY-VARINA City	N.C. State	27526 Zip	USA Country

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

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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	herewith
Filing Date	herewith
First Named Inventor	Charles G. Shamoon
Title	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
Art Unit	
Examiner Name	
Attorney Docket Number	SHAM1010-2

SIGNATURE of Applicant or Patent Practitioner

Signature	/Gene Pierson/	Date (Optional)	
Name	Gene Pierson	Registration Number	67359
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
☐ *Total of _____ forms are submitted.			

This collection of information is required by 37 CFR 1.131, 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 BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

109967

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR

Firm or Individual Name				
Address				
City		State		Zip
Country				
Telephone		Email		

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):



Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	/Charles G. Shamoon/	Date (Optional)	
Name	Charles G. Shamoon		
Title	President of Ubiquitous Connectivity, LP		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 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 BY APPLICANT

No more than ten (10) patent practitioners total may be appointed as set forth below by name and registration number. This page need not be submitted if appointing the Patent Practitioner(s) associated with a Customer Number (see form PTO/AIA/82B):

Name	Registration Number

Privacy Act Statement

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

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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).
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM
FOR REMOTE LOCATIONS

Related Application

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

Field of the Invention

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

Background of the Invention

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary of the Invention

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

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

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

Brief Description of the Drawings

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

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

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

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

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

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

Detailed Description of the Preferred Embodiments

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

0041000AC10294268088000023060504C3C800003C7AB90D
07E9DFEE724F041381EC6176BDDC13DD64A2970F <ctrl-Z>
```

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

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

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

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

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

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

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

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

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

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

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

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

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

the control unit. The user instructs the control unit to request authorization from the Bluetooth device. An authorization code is manually entered into the base control unit and then into Bluetooth device. If the unique identification or serial number entered into each unit matches, it is stored and associated with the particular user or class of users, and the base control unit and the Bluetooth 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ABSTRACT OF THE DISCLOSURE

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

Doc code : PET.OP.AGE

Description : Petition to make special based on Age/Health

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PETITION TO MAKE SPECIAL BASED ON AGE FOR ADVANCEMENT OF EXAMINATION UNDER 37 CFR 1.102(c)(1)					
Application Information					
Application Number		Confirmation Number		Filing Date	
Attorney Docket Number (optional)		Art Unit		Examiner	
First Named Inventor	Charles G. Shamoon				
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS				
Attention: Office of Petitions An application may be made special for advancement of examination upon filing of a petition showing that the applicant is 65 years of age, or more. No fee is required with such a petition. See <u>37 CFR 1.102(c)(1)</u> and MPEP 708.02 (IV). APPLICANT HEREBY PETITIONS TO MAKE SPECIAL FOR ADVANCEMENT OF EXAMINATION IN THIS APPLICATION UNDER 37 CFR 1.102(c)(1) and MPEP 708.02 (IV) ON THE BASIS OF THE APPLICANT'S AGE. A grantable petition requires one of the following items: (1) Statement by one named inventor in the application that he/she is 65 years of age, or more; or (2) Certification by a registered attorney/agent having evidence such as a birth certificate, passport, driver's license, etc. showing one named inventor in the application is 65 years of age, or more.					
Name of Inventor who is 65 years of age, or older					
Given Name	Middle Name	Family Name	Suffix		
Franklin	Eugene	Neal			
A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the format of the signature. Select (1) or (2) :					
☐ (1) I am an inventor in this application and I am 65 years of age, or more.					
☒ (2) I am an attorney or agent registered to practice before the Patent and Trademark Office, and I certify that I am in possession of evidence, and will retain such in the application file record, showing that the inventor listed above is 65 years of age, or more.					
Signature	/Gene Pierson/		Date (YYYY-MM-DD)	2017-01-13	
Name	Gene Pierson		Registration Number	67359	

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				
Application Number:				
Filing Date:				
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles G. Shamoon		
Filer:		Eugene Gordon Pierson		
Attorney Docket Number:		SHAM1010-2		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	70	70
UTILITY SEARCH FEE	2111	1	300	300
UTILITY EXAMINATION FEE	2311	1	360	360
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				730

Electronic Acknowledgement Receipt	
EFS ID:	28059963
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	SHAM1010-2
Receipt Date:	13-JAN-2017
Filing Date:	
Time Stamp:	14:27:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$730
RAM confirmation Number	011717INTEFSW14280200
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	SHAM1010-2ADS.pdf	1819627	no	8
			49bcdff156d86f975519e77e44b9c5af1c0bc527b		
Warnings:					
Information:					
2	Assignee showing of ownership per 37 CFR 3.73	SHAM1010-2chainoftitle.pdf	119492	no	3
			78ea63ad4c20ad8185637079790d27fccd852ded		
Warnings:					
Information:					
3	Claims	SHAM1010-2claims.pdf	49210	no	5
			c3ad3bca30cd74b5789f0770e7353e74f8675795		
Warnings:					
Information:					
4	Transmittal of New Application	SHAM1010-2coversheet.pdf	275690	no	2
			4b4acc52b4e68a9c7cfd26dab944dcc3aafcbea3		
Warnings:					
Information:					
5	Drawings-only black and white line drawings	SHAM1010-2drawings.pdf	171669	no	4
			2de74c002c829da1e1392ac286abf6bd97c49ae4		
Warnings:					
Information:					
6	Oath or Declaration filed	SHAM1010-2oathprevious.pdf	189664	no	3
			2cb933c9c014a6cfc1173c9ebfe54079713f08aa		
Warnings:					
Information:					

7	Power of Attorney	SHAM1010-2POAfiled.pdf	176847	no	4
			eeae71ca00d2bbeeb60228238f9b95c8ea5cae47		
Warnings:					
Information:					
8	Specification	SHAM1010-2specandabstract.pdf	1368944	no	40
			20c67f063599d1c2c0a8c2f21b867853d177b9d8		
Warnings:					
Information:					
9	Petition for 12-month Accelerated Exam	SHAM1010-2inventorsage.pdf	71357	no	2
			559ca82d3b7ced9b048a525dbb85db5534360f45		
Warnings:					
This is not a USPTO supplied Accelerated Exam SB28 form.					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	34894	no	2
			4b05ad0f63be82a62b212f2e4e7fdece51b7e3		
Warnings:					
Information:					
Total Files Size (in bytes):			4277394		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SHAM1010-2
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

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

Inventor Information:

Inventor	1				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Charles		Shamoon		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Little Elm	State/Province	TX	Country of Residence	US
Mailing Address of Inventor:					
Address 1	2436 Tisbury Way				
Address 2					
City	Little Elm	State/Province	TX		
Postal Code	75068	Country	US		
Inventor	2				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Deborah		Shamoon		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Little Elm	State/Province	TX	Country of Residence	US
Mailing Address of Inventor:					
Address 1	2436 Tisbury Way				
Address 2					
City	Little Elm	State/Province	TX		
Postal Code	75068	Country	US		
Inventor	3				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Franklin	Eugene	Neal		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SHAM1010-2	
		Application Number		
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS			

City	Ashland	State/Province	KY	Country of Residence	US

Mailing Address of Inventor:

Address 1	9220 Oakhill Drive				
Address 2					
City	Ashland	State/Province	KY		
Postal Code	41102	Country i	US		
Inventor	4				Remove
Legal Name					

Prefix	Given Name	Middle Name	Family Name	Suffix
	Michael		Fehnel	

Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service

City	Fuquay Varina	State/Province	NC	Country of Residence	US

Mailing Address of Inventor:

Address 1	3021 Bentwillow Drive				
Address 2					
City	Fuquay Varina	State/Province	NC		
Postal Code	27526	Country i	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add					

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
☐ An Address is being provided for the correspondence information of this application.			
Customer Number	109967		
Email Address	Gene.Pierson@PiersonIP.com	Add Email	Remove Email

Application Information:

Title of the Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS				
Attorney Docket Number	SHAM1010-2	Small Entity Status Claimed	☒		
Application Type	Nonprovisional				
Subject Matter	Utility				
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	1		

Filing By Reference :

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SHAM1010-2
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

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

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	109967		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

Prior Application Status	Pending		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
	Continuation of	13271203	2011-10-11		
Prior Application Status	Patented		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13271203	Continuation of	11686993	2007-03-16	8064935	2011-11-22
Prior Application Status	Patented		Remove		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		SHAM1010-2	
		Application Number			
Title of Invention		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS			

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11686993	Division of v	11163372	2005-10-17	7257397	2007-08-14
Prior Application Status		Patented v		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11163372	Division of v	11160006	2005-06-06	6990335	2006-01-24
Prior Application Status		Expired v		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
11160006	Claims benefit of provisional v	60522887	2004-11-18		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button. Add 					

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
Remove			
Additional Foreign Priority Data may be generated within this form by selecting the Add button. Add 			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐	This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SHAM1010-2
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices
If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application. In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application. In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.		
Applicant	1	Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.		
Clear		
Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:		
Name of the Deceased or Legally Incapacitated Inventor :		
If the Applicant is an Organization check here. ☒		
Organization Name	UBIQUITOUS CONNECTIVITY, LP	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SHAM1010-2
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

Mailing Address Information For Applicant:			
Address 1	2436 TISBURY WAY		
Address 2			
City	Little Elm	State/Province	TX
Country	US	Postal Code	75068
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button. Add			

Assignee Information including Non-Applicant Assignee Information:

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

Assignee	1			
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
				Remove
If the Assignee or Non-Applicant Assignee is an Organization check here.				☐
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add				

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SHAM1010-2
		Application Number	
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		

Signature:

Remove

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Signature	/Gene Pierson/			Date (YYYY-MM-DD)	2016-08-25
First Name	Gene	Last Name	Pierson	Registration Number	67359
Additional Signature may be generated within this form by selecting the Add button.					Add

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

Privacy Act Statement

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

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

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

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Ubiquitous Connectivity, LP

Application No./Patent No.: _____ Filed/Issue Date: _____

Titled: Ubiquitous Connectivity And Control Systems For Remote Locations

Ubiquitous Connectivity, LP, a Partnership

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Shamoon, Charles and Shamoon, Deborah To: Ubiquitous Connectivity, LP

The document was recorded in the United States Patent and Trademark Office at
Reel 028125, Frame 0418, or for which a copy thereof is attached.

2. From: Turkow, Allen and Turkow, Lucy To: Ubiquitous Connectivity, LP

The document was recorded in the United States Patent and Trademark Office at
Reel 028125, Frame 0242, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Gene Pierson/

Signature

Gene Pierson

Printed or Typed Name

1/13/2017

Date

67359

Title or Registration Number

Privacy Act Statement

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

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

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

1. A base unit configured to communicate with an environmental device and to communicate with a cellular remote the base unit comprising:

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

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

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

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

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

wherein the command is initiated by a user via the cellular remote unit to change an environmental characteristic controlled by the environmental device, and

wherein the base unit is configured to operate without a personal computer.

2. The base unit of claim 1, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

3. (Previously Presented) The base unit of claim 1, wherein the command is associated with an icon on the remote unit.

4. The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off.

5. The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting associated with the environmental device.

6. The base unit of claim 1, wherein the cellular communications network includes a data bearer service.

7. The base unit of claim 1, wherein the remote unit is a mobile remote unit.

8. The base unit of claim 1, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

9. The base unit of claim 1, wherein the command is an energy conservation command associated with multiple environmental devices.

10. The base unit of claim 1,

wherein the cellular communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction;
and
wherein the command includes an environmental command.

11. The base unit of claim 10, wherein the second message includes an energy conservation command associated with multiple environmental devices.

12. The base unit of claim 10, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

13. The base unit of claim 1, wherein the remote unit is a cellular telephone, and wherein the environmental device comprises a thermostat.

14. The base unit of claim 1, wherein the environmental device comprises at least one of a light, thermostat, or an alarm system.

15. The base unit of claim 1, wherein the base unit and the environmental device are contained in the same enclosure.

16. A base unit configured to communicate with an environmental device and to communicate with a cellular remote the base unit comprising:

a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network;

a second communication interface configured to send a control instruction from the base unit to the environmental device;

wherein the first message is a first digital communications message including a command;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface, wherein the first message is received before sending the control instruction; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

17. The base unit of claim 16, wherein the first message is received from the cellular remote unit using a data bearer service.

18. The base unit of claim 16, wherein cellular remote unit is a mobile remote unit.

19. The base unit of claim 16, wherein the base unit and the environmental device are contained in the same enclosure.

20. A base unit configured to communicate with an environmental device and to communicate with a cellular remote the base unit comprising:

a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message;

a second communication interface configured to send a control instruction from the base unit to the environmental device; and to receive an environmental status from the environmental device

wherein the first message is a first digital communications message including a command;

wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

PETITION TO MAKE SPECIAL BASED ON AGE FOR ADVANCEMENT OF EXAMINATION UNDER 37 CFR 1.102(c)(1)					
Application Information					
Application Number	15405793	Confirmation Number	1009	Filing Date	2017-01-13
Attorney Docket Number (optional)		Art Unit		Examiner	
First Named Inventor	Charles G. Shamoon				
Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS				
Attention: Office of Petitions An application may be made special for advancement of examination upon filing of a petition showing that the applicant is 65 years of age, or more. No fee is required with such a petition. See 37 CFR 1.102(c)(1) and MPEP 708.02 (IV). APPLICANT HEREBY PETITIONS TO MAKE SPECIAL FOR ADVANCEMENT OF EXAMINATION IN THIS APPLICATION UNDER 37 CFR 1.102(c)(1) and MPEP 708.02 (IV) ON THE BASIS OF THE APPLICANT'S AGE. A grantable petition requires one of the following items: (1) Statement by one named inventor in the application that he/she is 65 years of age, or more; or (2) Certification by a registered attorney/agent having evidence such as a birth certificate, passport, driver's license, etc. showing one named inventor in the application is 65 years of age, or more.					
Name of Inventor who is 65 years of age, or older					
Given Name	Middle Name	Family Name	Suffix		
Franklin	Eugene	Neal			
A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the format of the signature. Select (1) or (2) : (1) I am an inventor in this application and I am 65 years of age, or more. • (2) I am an attorney or agent registered to practice before the Patent and Trademark Office, and I certify that I am in possession of evidence, and will retain such in the application file record, showing that the inventor listed above is 65 years of age, or more.					
Signature	Gene Pierson/		Date (YYYY-MM-DD)	2017-01-13	
Name	Gene Pierson		Registration Number	67359	

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Application of
Charles Shamoon

:
:

Application No. 15405793

:DECISION ON PETITION TO MAKE SPECIAL
:UNDER 37 CFR 1.102(c)(1)

Filed:

:

Attorney Docket No. SHAM1010-2

This is a decision on the electronic petition under 37 CFR 1.102 (c)(1), filed 13-JAN-2017 to make the above-identified application special based on applicant's age as set forth in MPEP § 708.02, Section II.

The petition is **GRANTED**.

A grantable petition to make an application special under 37 CFR 1.102(c)(1), MPEP § 708.02, Section II : Applicant's Age must include a statement by applicant or a registered practitioner having evidence that applicant is at least 65 years of age. No fee is required.

Accordingly, the above-identified application has been accorded "special" status and will be taken up for action by the examiner upon the completion of all pre-examination processing.

Telephone inquiries concerning this electronic decision should be directed to the Electronic Business Center at 866-217-9197.

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

Electronic Acknowledgement Receipt	
EFS ID:	28060173
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamoon
Correspondence Address:	Pierson IP, PLLC - 415 West 16th St SUITE B Houston TX 77008 US 703-598-9443 USPTO@dockettrak.com
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	SHAM1010-2
Receipt Date:	13-JAN-2017
Filing Date:	
Time Stamp:	14:35:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	SHAM1010-2inventorsage.pdf	752139 0b1863bad835e018121334d11170325da4a23cb8	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			752139		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 15/405,793			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	300		N/A			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))	20	minus 20 = *	x 40 =	0.00	OR				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *	x 210 =	0.00					
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00					
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00					
			TOTAL	730		TOTAL			
* If the difference in column 1 is less than zero, enter "0" in column 2.									
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT A	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	=
	Application Size Fee (37 CFR 1.16(s))						OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
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	=
	Application Size Fee (37 CFR 1.16(s))						OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
15/405,793	01/13/2017	2642	730	SHAM1010-2	20	3

CONFIRMATION NO. 1009

FILING RECEIPT



CC000000088530647

109967
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008

Date Mailed: 01/18/2017

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

Inventor(s)

Charles Shamoon, Little Elm, TX;
Deborah Shamoon, Little Elm, TX;
Franklin Eugene Neal, Ashland, KY;
Michael Fehnel, Fuquay Varina, NC;

Applicant(s)

UBIQUITOUS CONNECTIVITY, LP, Little Elm, TX;

Power of Attorney: The patent practitioners associated with Customer Number 109967

Domestic Priority data as claimed by applicant

This application is a CON of 13/271,203 10/11/2011
which is a CON of 11/686,993 03/16/2007 PAT 8064935
which is a DIV of 11/163,372 10/17/2005 PAT 7257397
which is a DIV of 11/160,006 06/06/2005 PAT 6990335
which claims benefit of 60/522,887 11/18/2004

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 01/17/2017

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/405,793**

Projected Publication Date: 04/27/2017

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Preliminary Class

455

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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>.

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page 2 of 4

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 (1-866-999-4258).

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

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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

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

NOT GRANTED

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

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2

CONFIRMATION NO. 1009

WITHDRAWAL NOTICE

109967
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008



Date Mailed: 01/18/2017

Letter Regarding a New Notice and/or the Status of the Application

If a new notice or Filing Receipt is enclosed, applicant may disregard the previous notice mailed on 01/18/2017. The time period for reply runs from the mail date of the new notice. Within the time period for reply, applicant is required to file a reply in compliance with the requirements set forth in the new notice to avoid abandonment of the application.

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

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

If the reply is not filed electronically via EFS-Web, the reply must be accompanied by a copy of the new notice.

If the Office previously granted a petition to withdraw the holding of abandonment or a petition to revive under 37 CFR 1.137, the status of the application has been returned to pending status.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/tnguyen/

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 15/405,793	
APPLICATION AS FILED - PART I							
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	20	minus 20 = *	x 40 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *	x 210 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
			TOTAL	730		TOTAL	
* If the difference in column 1 is less than zero, enter "0" in column 2.							
APPLICATION AS AMENDED - PART II							
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		OTHER THAN SMALL ENTITY
	Total (37 CFR 1.16(i))	*	Minus **	=	x =		RATE(\$)
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =		ADDITIONAL FEE(\$)
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		OTHER THAN SMALL ENTITY
	Total (37 CFR 1.16(i))	*	Minus **	=	x =		RATE(\$)
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =		ADDITIONAL FEE(\$)
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.							



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2

CONFIRMATION NO. 1009

109967
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008

INFORMAL NOTICE



Date Mailed: 01/18/2017

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

A new inventor's oath or declaration that identifies this application (e.g., by Application Number and filing date) is required. The inventor's oath or declaration does not comply with 37 CFR 1.63 in that it:

- does not state that the above-identified application was made or authorized to be made by the person executing the oath or declaration.

Charles Shamoon
Deborah Shamoon
Franklin Eugene Neal
Michael Fehnel

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/tnguyen/



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
15/405,793	01/13/2017	2642	730	SHAM1010-2	20	3

CONFIRMATION NO. 1009

FILING RECEIPT



CC000000088534694

109967
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008

Date Mailed: 01/18/2017

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

Inventor(s)

Charles Shamoon, Little Elm, TX;
Deborah Shamoon, Little Elm, TX;
Franklin Eugene Neal, Ashland, KY;
Michael Fehnel, Fuquay Varina, NC;

Applicant(s)

UBIQUITOUS CONNECTIVITY, LP, Little Elm, TX;

Power of Attorney: The patent practitioners associated with Customer Number 109967

Domestic Priority data as claimed by applicant

This application is a CON of 13/271,203 10/11/2011
which is a CON of 11/686,993 03/16/2007 PAT 8064935
which is a DIV of 11/163,372 10/17/2005 PAT 7257397
which is a DIV of 11/160,006 06/06/2005 PAT 6990335
which claims benefit of 60/522,887 11/18/2004

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 01/17/2017

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/405,793**

Projected Publication Date: 04/27/2017

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Preliminary Class

455

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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NOT GRANTED

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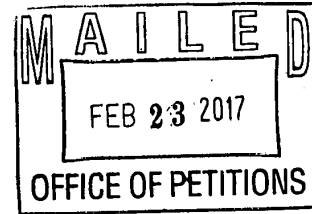
The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.



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PIERSON IP, PLLC
415 WEST 16TH ST
SUITE B
HOUSTON TX 77008

In re Application of	:
Charles Shamoon, et al	: DECISION ON PETITION
Application No. 15/405,793	: TO MAKE SPECIAL
Filed: January 13, 2017	:
Attorney Docket No.: SHAM1010-2	:

This is a decision on the Petition To Make Special Based On Age For Advancement Of Examination Under 37 CFR 1.102(c)(1), filed January 13, 2017.

The petition is **DISMISSED AS MOOT**.

The petition filed by EFS is **dismissed as moot** because an e-petition on Petition To Make Special Based On Age For Advancement Of Examination Under 37 CFR 1.02(c)(1) was also filed electronically and auto-granted on January 13, 2017.

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

The application file is being directed to the Technology Center, Art Unit 2126.

Any questions concerning this decision may be directed to the undersigned at (571) 272-3213.

/Cheryl Gibson-Baylor/
Cheryl Gibson-Baylor
Petitions Paralegal Specialist
Office of Petitions



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2

CONFIRMATION NO. 1009

109967
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008

PUBLICATION NOTICE



OC000000090956797

Title:UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Publication No.US-2017-0115017-A1

Publication Date:04/27/2017

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

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

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

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2	1009
109967 7590 Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 07/13/2017	DELIVERY MODE ELECTRONIC

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

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

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

gene.pierson@piersonip.com
USPTO@dockettrak.com
gene.pierson@gmail.com

Office Action Summary	Application No. 15/405,793	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

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

Period for Reply

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

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

Status

1) ☒ Responsive to communication(s) filed on 01/13/2017.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

Disposition of Claims*

5) ☒ Claim(s) 1-20 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☒ Claim(s) 1-20 is/are rejected.

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

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

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

Application Papers

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

11) ☒ The drawing(s) filed on 01/13/2017 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

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

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Claim Rejections - 35 USC § 112

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

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

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

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

2. Claims 1-15 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1 is rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, because the specification, while being enabling for base unit configured to receive environmental information from an environmental device and send a control instruction to the environmental device, and send a first message to a cellular remote unit and receive a second message from the cellular remote unit, as set forth in the

claim, does not reasonably provide enablement for the claim limitation “wherein the base unit is configured to operate without a personal computer”. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with the claim.

The limitation “wherein the base unit is configured to operate without a personal computer” as set forth in claim 1 indicates that the base unit operates without a personal computer. The applicants' drawings and disclosure (figs. 1 and 4 of drawings, pages 12-17 of the disclosure) teaches a base unit with a LCD, keypad, power supply, wireless module, microcontroller, expansion, USB, etc. This clearly reads on a personal computer, as generally defined (dictionary.com definition of a personal computer: *a compact computer that uses a microprocessor and is designed for individual use, as by a person in an office or at home or school, for such applications as word processing, data management, financial analysis, or computer games*; Webster's II New Riverside University Dictionary definition of a personal computer: *“A microcomputer for use by an individual, as in an office or home”*). Thus, the base unit disclosed in figs. 1 and 4 of drawings and pages 12-17 of the disclosure fits within the definitions provided. Therefore, since there is no clear difference between a personal computer and base unit, the claim limitation “wherein the base unit is configured to operate without a personal computer” contradicts the applicants' drawings and disclosure. Since the base unit fits the definition of and is analogous to a personal computer, how does the base unit operate without a personal computer as claimed when the base unit is a personal computer?

Claims 2-15 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the enablement requirement, by virtue of being dependent on claim 1.

Claim Rejections - 35 USC § 102

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

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

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 2, and 4-20 are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by Kates 20050275530.

Regarding **claim 1**, Kates discloses a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the

sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote the base unit (cellular telephone 123, [0029]) comprising:

a first communication interface configured to receive environmental information from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]) and to send a control instruction to the environmental device (“the computer 113 sends instructions to each sensor unit”, [0047], [0068]);

a wireless communication interface configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*); [0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions to monitoring computer 113),

wherein the first message is a first digital communications message including a representation of the environmental information (“The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120”, [0032]), and

wherein the second message is a second digital communications message including a command regarding the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]); and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)), and

wherein the command is initiated by a user via the cellular remote unit to change an environmental characteristic controlled by the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]), and wherein the base unit is configured to operate without a personal computer (see [0029]).

Regarding **claim 2** as applied to claim 1, Kates further discloses wherein the command regards entering an energy conservation mode ([0069]-[0071]), and wherein the energy conservation mode is associated with multiple environmental devices ([0069]-[0071], optional temperature sensor and sensor unit 102, also see [0030]).

Regarding **claim 4** as applied to claim 1, Kates further discloses wherein the

change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 5** as applied to claim 1, Kates further discloses wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting associated with the environmental device system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 6** as applied to claim 1, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claim 7** as applied to claim 1, Kates further discloses wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 8** as applied to claim 1, Kates further discloses wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 9** as applied to claim 1, Kates further discloses wherein the command is an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 10** as applied to claim 1, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of...

cellular network (i.e., cellular telephone) and Internet, [0029]); wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]); wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 11** as applied to claim 10, Kates further discloses wherein the second message includes an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 12** as applied to claim 10, Kates further discloses wherein the microcontroller is configured to process the environmental information into the representation ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]) and to process the command into the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 13** as applied to claim 1, Kates further discloses wherein the remote unit is a cellular telephone (cellular telephone 123, [0029]), and wherein the environmental device comprises a thermostat ([0051], [0069]-[0070]).

Regarding **claim 14** as applied to claim 1, Kates further discloses wherein the environmental device comprises light at least one of a light, thermostat or an alarm

system ([0030], [0069]-[0070]).

Regarding **claim 15** as applied to claim 1, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 16**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113") the base unit comprising: a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network ([0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions (*~first message*) to monitoring computer 113 via a cellular telephone communication system); a second communication interface configured to send a control construction from the base unit to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]); wherein the first message is a first digital communications message including a command ("the responsible party 120 sends instructions to the monitoring

computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface, wherein the first message is received before sending the control instruction ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the command is for the base unit, and wherein the command is initiated by a user from the cellular remote unit interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is based on the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 17** as applied to claim 16, Kates further discloses wherein the first message is received from the cellular remote unit using a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claim 18** as applied to claim 16, Kates further discloses wherein cellular remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 19** as applied to claim 16, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 20**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote unit ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113") the base unit comprising: a wireless communication interface configured to receive a first message from the cellular remote unit via a cellular communications network ([0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions (*~first message*) to monitoring computer 113 via a cellular telephone communication system) and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular

telephone, or email (*~contacts personnel's remote device*). The system in fig. 1 of Kates is not static. Therefore, the monitoring in the sensor system continues, indicating after the responsible personnel sends instructions via remote device/cellular phone 123 ([0068]), the monitoring unit will monitor the system and if an emergency condition is detected, contacts the appropriate personnel 120, [0029], [0033]-[0034]); a second communication interface configured to send a control instruction from the base unit to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]); and to receive an environmental status from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]); wherein the first message is a first digital communications message including a command ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); wherein the second message is a second digital communications message including the environmental status (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*)); a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface ([0068], responsible personnel 120 sends instructions

to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the command is for the base unit, and wherein the command initiated by a user from the cellular remote unit ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is based on the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Claim Rejections - 35 USC § 103

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

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

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, 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.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under pre-AIA 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of pre-AIA 35 U.S.C. 103(c) and potential pre-AIA 35 U.S.C. 102(e), (f) or (g) prior art under pre-AIA 35 U.S.C. 103(a).

6. Claim 3 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Sinclair 7,127,270**.

Regarding **claim 3** as applied to claim 1, Kates discloses the claimed limitation except wherein the command is associated with an icon on the remote unit. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices

(control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sinclair 7,127,270.

Pedraza et al 20050285748.

Tessier et al 20050194456.

Ehlers et al 7,130,719.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an

interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

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

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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

Notice of References Cited	Application/Control No. 15/405,793		Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI		Art Unit 2641	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2005/0275530 A1	12-2005	Kates, Lawrence	G08B25/009	340/539.22
*	B	US-7,127,270 B2	10-2006	Sinclair; John	G08C17/02	340/12.51
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NON-PATENT DOCUMENTS

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*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.



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BIB DATA SHEET

CONFIRMATION NO. 1009

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
15/405,793	01/13/2017	455	2641	SHAM1010-2		
APPLICANTS UBIQUITOUS CONNECTIVITY, LP, Little Elm, TX; INVENTORS Charles Shamon, Little Elm, TX; Deborah Shamon, Little Elm, TX; Franklin Eugene Neal, Ashland, KY; Michael Fehnel, Fuquay Varina, NC;						
** CONTINUING DATA ***** This application is a CON of 13/271,203 10/11/2011 PAT 9602655 which is a CON of 11/686,993 03/16/2007 PAT 8064935 which is a DIV of 11/163,372 10/17/2005 PAT 7257397 which is a DIV of 11/160,006 06/06/2005 PAT 6990335 which claims benefit of 60/522,887 11/18/2004						
** FOREIGN APPLICATIONS *****						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 01/17/2017						
Foreign Priority claimed	☐ Yes ☒ No	☐ Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☐ Yes ☒ No		TX	4	20	3
Verified and	/OLUMIDE AJIBADE AKONAI/	Initials				
Acknowledged	Examiner's Signature					
ADDRESS Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008 UNITED STATES						
TITLE UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS						
FILING FEE RECEIVED 730	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees		
				☐ 1.16 Fees (Filing)		
				☐ 1.17 Fees (Processing Ext. of time)		
				☐ 1.18 Fees (Issue)		
				☐ Other _____		
				☐ Credit		

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L26	617	(sensor\$1 mote smart\$1dust) same ("base unit" (access adj (unit point))) same (short\$1range zigbee WLAN "802.11" Bluetooth "wireless local area network") same (cellular PLMN CDMA GSM)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/07/10 12:51
L27	124	L26 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2017/07/10 12:51
L28	109	L27 AND ((G08B21/182 OR G08B1/08 OR G08B25/009 OR G08B17/10 OR G08B25/007 OR G08B25/10 OR G08B27/005 OR H04W84/18 OR H04W84/12 OR H04W4/043 OR H04W48/16 OR H04W4/20).CPC.)	US-PGPUB; USPAT	OR	OFF	2017/07/10 12:51
L29	28	2007/0091063	US-PGPUB; USPAT	OR	OFF	2017/07/10 13:28
L30	1	"20070091063"	US-PGPUB; USPAT	OR	OFF	2017/07/10 13:29
S108	3	"13271203"	US-PGPUB; USPAT	OR	OFF	2017/07/10 07:45
S109	62	sensor\$1 with "base unit" with (phone PDA wtru "user equipment" ((mobile cellular wireless) adj (phone device station terminal)) WCD)	USPAT	OR	OFF	2017/07/10 08:09
S110	167	sensor\$1 with "base unit" with (phone PDA wtru "user equipment" ((mobile cellular wireless) adj (phone device station terminal)) WCD)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/07/10 08:09
S111	87	S110 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2017/07/10 08:09
S112	284	("20020005707" "20020011570" "20020011923" "20020030592" "20020033759" "20020075145" "20020084414" "20020124169" "20020186141" "20030011428" "20030011482" "20030037125" "20030058093" "20030114898" "20030122677" "20030146833" "20030151513" "20030199247" "20030231001" "20040007264" "20040019783" "20040050429" "20040090329" "20040164238" "20040181693" "20040217858" "20040224631" "20040233855" "20050012601" "20050035877" "20050043907" "20050046563"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/07/10 08:15

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"5319698"	"5357241"
"5430433"	"5568121"
"5655561"	"5748092"
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S113	240	S112 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2017/07/10 08:17
S114	1	"7130719".pn.	US-PGPUB; USPAT	OR	OFF	2017/07/10 08:25
S115	374	sensor\$1 same ("base unit" (access adj (unit point))) with (short\$1range zigbee WLAN "802.11" Bluetooth "wireless local area network") same (cellular PLMN DDMA GSM)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/07/10 08:38
S116	82	S115 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2017/07/10 08:38
S117	14	S116 not Kates.in.	US-PGPUB; USPAT	OR	OFF	2017/07/10 08:39
S118	606	(sensor\$1 mote smart\$1dust) same ("base unit" (access adj (unit point))) same (short\$1range zigbee WLAN "802.11" Bluetooth "wireless local area network") same (cellular PLMN DDMA GSM)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/07/10 08:49
S119	617	(sensor\$1 mote smart\$1dust) same ("base unit" (access adj (unit point))) same (short\$1range zigbee WLAN "802.11" Bluetooth "wireless local area network") same (cellular PLMN CDMA GSM)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/07/10 08:49
S120	124	S119 and (@ad<="20041118" or	US-PGPUB;	OR	OFF	2017/07/10

EAST Search History

		@rlad<="20041118")	USPAT			08:49
S122	42	S120 not S116	US-PGPUB; USPAT	OR	OFF	2017/07/10 08:51

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S123	3	"13271203"	US-PGPUB; USPAT	OR	OFF	2017/07/10 07:45
S124	151	sensor\$1 with "base unit" with (phone PDA wtru "user equipment" ((mobile cellular wireless) adj (phone device station terminal)) WCD)	US-PGPUB; USPAT	OR	OFF	2017/07/10 08:08

7/ 10/ 2017 2:36:50 PM

C:\Users\oajibadeakonai\Documents\EAST\Workspaces\15405793.wsp

Search Notes 	Application/Control No. 15405793	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner
H04W84/18 84/12 4/043 48/16 4/20	7/10/2017	OA
G08B21/182 1/08 25/009 17/10 25/007 25/10 27/005	7/10/2017	OA

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
EAST search	7/10/2017	OA

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

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

<i>Index of Claims</i> 	Application/Control No. 15405793	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 2641

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

☐ Claims renumbered in the same order as presented by applicant											☐ CPA											☐ T.D.											☐ R.1.47										
CLAIM			DATE																																								
Final	Original	07/10/2017																																									
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2	1009
109967 7590 Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 2641	PAPER NUMBER
			NOTIFICATION DATE 10/30/2017	DELIVERY MODE ELECTRONIC

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

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

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

gene.pierson@piersonip.com
USPTO@dockettrak.com
gene.pierson@gmail.com



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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
15/405,793	13 January, 2017	SHAMOON ET AL.	SHAM1010-2

Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008		EXAMINER	
		RICHARD ELLIS	
		ART UNIT	PAPER
		OPIM	20171023-180604

DATE MAILED:

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Commissioner for Patents

The time period for reply set forth in the previous non-final action is being restarted to run from the mail date of the instant communication. Please refer to the non-final action for information on extensions of time if needed for the reply.

The time period is being restarted because the USPTO has identified that the zip code of the correspondence address of the instant application is in an area affected by a recent hurricane. In addition, the non-final action was outstanding on the applicable date and the statutory time period for reply has not yet expired.

If a reply to the non-final action has been filed, no reply to the instant communication is required.

For a copy of the relevant notice on the relief available due to the recent hurricane, see <https://www.uspto.gov/learning-and-resources/operational-status/customers-affected-hurricane-harvey>

Questions regarding this communication may be directed to DisasterRelief@uspto.gov

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 15/405,793

Group Art Unit: 2641

Filing Date: 01/13/2017

Examiner: OLUMIDE

Applicant: Charles G. Shamoon

Confirmation No: 1099

Title: Ubiquitous Connectivity And Control Systems For Remote Locations

Mailstop: AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT UNDER 37 C.F.R. §1.111

Sir or Madam:

In response to the current Office Action, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

Amendments to the Claims begin on page 2 of this Amendment.

Remarks begin on page 10 of this Amendment.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	22	-	20	=	2
Independent	3	-	3	=	0

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

1. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote the base unit comprising:

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

a wireless ~~communication interface~~ module in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network, wherein the base unit is wall mountable,

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

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

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

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

wherein the command is initiated by a user via the cellular remote unit to change an environmental characteristic controlled by the environmental device,~~and wherein the base unit is configured to operate without a personal computer.~~

2. (Previously Presented))The base unit of claim 1, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

3. (Currently Amended) The base unit of claim 1, wherein the command is associated with an icon stored on the remote unit, wherein the command associated with the icon is transmitted over the cellular communications network.

4. (Previously Presented)The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off.

5. (Previously Presented)The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting associated with the environmental device.

6. (Previously Presented)The base unit of claim 1, wherein the cellular communications network includes a data bearer service.

7. (Previously Presented)The base unit of claim 1, wherein the remote unit is a mobile remote unit.

8. (Previously Presented)The base unit of claim 1, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

9. (Previously Presented)The base unit of claim 1, wherein the command is an energy conservation command associated with multiple environmental devices.

10. (Previously Presented)The base unit of claim 1,
wherein the cellular communications network includes a data bearer service;
wherein the remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction;
and
wherein the command includes an environmental command.

11. (Previously Presented)The base unit of claim 10, wherein the second message includes an energy conservation command associated with multiple environmental devices.

12. (Previously Presented)The base unit of claim 10, wherein the microcontroller is configured to process the environmental information into the representation and to process the command into the control instruction.

13. (Previously Presented)The base unit of claim 1, wherein the remote unit is a cellular telephone, and wherein the environmental device comprises a thermostat.

14. (Previously Presented) The base unit of claim 1, wherein the environmental device comprises at least one of a light, thermostat, or an alarm system.

15. (Previously Presented) The base unit of claim 1, wherein the base unit and the environmental device are contained in the same enclosure.

16. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote the base unit comprising:

a first wireless module in the base unit ~~communication interface~~ configured to receive a first message from the cellular remote unit via a cellular communications network, wherein the base unit is wall mountable;

a second ~~communication interface~~ wireless module in the base unit configured to send a control instruction from the base unit to the environmental device;

wherein the first message is a first digital communications message including a command;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second wireless module ~~communication interface~~, wherein the first message is received before sending the control instruction; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

17. (Previously Presented)The base unit of claim 16, wherein the first message is received from the cellular remote unit using a data bearer service.

18. (Previously Presented)The base unit of claim 16, wherein cellular remote unit is a mobile remote unit.

19. (Previously Presented) The base unit of claim 16, wherein the base unit and the environmental device are contained in the same enclosure.

20. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote the base unit comprising:

a first wireless module in the base unit ~~communication interface~~ configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message, wherein the base unit is wall mountable;

a second wireless module in the base unit ~~communication interface~~ configured to send a control instruction from the base unit to the environmental device; and to receive an environmental status from the environmental device,

wherein the first message is a first digital communications message including a command;

wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second wireless module ~~communication interface~~; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

21. (New) The base unit of claim 1, wherein the base unit is configured to receive a third message from an external web service, wherein the third message includes a second command regarding the environmental device.

22. (New) The base unit of claim 1, wherein the command is a command string associated with an icon.

REMARKS

Favorable reconsideration of this application, in light of the preceding amendments and following remarks, is respectfully requested. No new matter is added.

Rejections under 35 U.S.C. § 112

The claims are rejected under 35 USC 112 as failing to comply with the written description requirement. To expedite prosecution and without conceding to the Examiner's positions, Applicant has amended the claims to comply with the written description requirement.

Rejections under 35 U.S.C. §§ 102 and 103

Claims 1, 2, and 4-20 are rejected under 35 USC 102(e) as being anticipated by Kates (US 2005/0275530).

Kates discloses a system with a plurality of sensor units that communicate with a base unit 112. The base unit 112 communicates with a monitoring computer 113 through a computer network connection such as, for example, Ethernet, wireless Ethernet, fireport, USB port, Bluetooth, etc. *See Kates, paragraph [0029]*. In Kates, when a sensor unit detects an anomalous condition, the sensor unit communicates with the appropriate repeater unit, the repeater unit forwards the data to the base unit 112, and the base unit 112 forwards the data to the computer system 113. *See Kates, paragraph [0029]*. The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personal 120. *See Kates, paragraph [0029]*.

In the office action, the examiner uses a monitoring computer 113 as disclosed by Kates to meet the limitations of a base unit, as recited in the claims. To address these concerns and without conceding to the Examiner's positions, Applicant has amended the claims to recite "a wireless module in the base unit" in combination with "wherein the base unit is wall mountable."

As disclosed in the present Application, because of the capabilities of a mounted base unit through wireless modules within the base unit, the base unit can be utilized without an external interface, while being wirelessly coupled to a plurality of different devices, wherein the wireless module can wirelessly receive and transmit commands. *See paragraph, [0029] of the present application, and element 56 in FIGURE 4 of the present application.* Kates requires monitoring computing 113 to have an external interface to receive commands directly from responsible party 120. *See paragraph [0068] of Kates.*

Furthermore, Applicant has the independent claims to recite "wherein the second message is a second digital communications message including a command regarding the environmental device." Kates is silent on such a communication.

The only disclosure of the computer receiving anything from the responsible party is in paragraph [0068] of Kates that recites "the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102." However, Kates is completely silent in regards to how the responsible party could possibly send "a command regarding the environmental device" as required by the claims. Yet, Kates does not disclose any such two way communications between computer 113 and the responsible party 120. Specifically, Kates is completely silent in regards to

computer 113 receiving anything from telephone 121, pager 122, cellular telephone 123, or local area network 124.

Because Kates fails to disclose how communications are possible from the remote unit to the computer, Kates cannot anticipate communicating “a command” as recited in the claims. This point is further articulated by new claim 22 that clarifies that the command is a “command string.”

In view of the above, the cited art fails to anticipate each and every feature disclosed in the amended independent claims. Therefore, the independent claims should be allowable, and withdrawal of these rejections is respectfully requested. The dependent claims are allowable at least base on virtue of their dependency from an allowable base claims.

Claim 3 is rejected under 35 USC 103(A) as being anticipated by Kates in view of Sinclair (US 7,127,270)

Claim 3 has been amended to disclose “wherein the command associated with the icon is transmitted over the cellular communications network.” This limitation is not met by Sinclair.

Sinclair discloses a wireless communication and control system particularly, but not exclusively, for use in a domestic environment to allow a user at one location to operate equipment at a remote location. In Sinclair, “the wireless communication is radio-frequency (RF).”

However, RF and Cellular technologies are vastly different technologies that require different hardware, software interfaces, capabilities, etc. Specifically, cellular phone signals are transmitted on bands between 800 – 900 MHz and 1.8 – 1.85 GHz.

Signals from cellular phones are transmitted by a computer, intercepted by a base station, and relayed in one or more directional beam to other receivers.

An RF transmission is electromagnetic radiation that is made up of electrical and magnetic fields perpendicular to one another. In common applications, a RF remote transmits radio waves that correspond to a binary command that directly correlates to the button. This requires RF remotes to address interference by transmitting specific RF frequencies and embedding digital address codes in the RF signal.

As such, Sinclair is completely silent regarding cellular technologies. Without knowing how the RF remote would operate using cellular technologies, it is not possible to build a system to control it. Substantial experimentation would have been required by some one of ordinary skill in the art to produce a working system.

Sinclair does not disclose nor overcome the above mentioned deficiencies. Further, for at least the reasons provided above, the independent claims should be allowable, and the dependent claims are allowable at least base on virtue of their dependency from an allowable base claims.

CONCLUSION

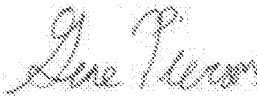
In view of the above remarks and amendments, the Applicants respectfully submit that each of the pending objections and rejections has been addressed and overcome, placing the present application in condition for allowance. A notice to that effect is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned, at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 506047 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

Pierson Intellectual Property, LLC

BY: 

Gene Pierson, Reg. No. 67,359
7000 N. Mopac Expressway,
Second Floor
Austin, Texas 78731
(703) 598-9443

Electronic Acknowledgement Receipt	
EFS ID:	31604660
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamoon
Customer Number:	109967
Filer:	Eugene Gordon Pierson
Filer Authorized By:	
Attorney Docket Number:	SHAM1010-2
Receipt Date:	25-JAN-2018
Filing Date:	13-JAN-2017
Time Stamp:	14:05:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	Shamoon1010OA-2.pdf	295580	no	12
			1791fdcc9d4b724b7cb06e59b3060e8c59e6ed7d		
Warnings:					

Information:	
Total Files Size (in bytes):	295580
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/405,793		Filing Date 01/13/2017		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (j), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	01/25/2018		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(j))		* 22		Minus	** 20	= 2		
	Independent (37 CFR 1.16(h))		* 3		Minus	***3	= 0		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$50 =		100	
						X \$230 =		0	
						TOTAL ADD'L FEE		100	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(j))		*		Minus	**	=		
	Independent (37 CFR 1.16(h))		*		Minus	***	=		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$ =			
						X \$ =			
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2	1009				
109967 Pierson IP, PLLC 415 West 16th St SUITE B Houston, TX 77008	7590 03/13/2018		<table border="1"><tr><td>EXAMINER</td></tr><tr><td>AJIBADE AKONAI, OLUMIDE</td></tr></table>		EXAMINER	AJIBADE AKONAI, OLUMIDE		
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			<table border="1"><tr><td>NOTIFICATION DATE</td><td>DELIVERY MODE</td></tr><tr><td>03/13/2018</td><td>ELECTRONIC</td></tr></table>	NOTIFICATION DATE	DELIVERY MODE	03/13/2018	ELECTRONIC	
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03/13/2018	ELECTRONIC							

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

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

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

gene.pierson@piersonip.com
USPTO@doctrak.com
gene.pierson@gmail.com

Office Action Summary	Application No. 15/405,793	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 2641	AIA (First Inventor to File) Status No

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

Period for Reply

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

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

Status

1) ☒ Responsive to communication(s) filed on 01/25/2018.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

Disposition of Claims*

5) ☒ Claim(s) 1-22 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☒ Claim(s) 1-22 is/are rejected.

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

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

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

Application Papers

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

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

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed January 25, 2018 have been fully considered but they are not persuasive. Regarding claims 1, 16, and 20, the applicants' representative asserts that Kates requires an external interface to receive commands directly from the responsible party. While the examiner does not necessarily disagree with the fact that Kates has an external base unit 112 attached to it, the examiner notes that the base unit 112 attached to monitoring computer 113 is a single entity that receives signals from and transmits signals. Furthermore, the monitoring computer 113 communicating with the personnel 120 via cellular communication as disclosed in [0029] of Kates clearly indicates a "wireless module" configured to enable cellular communication between the monitoring computer 113 and cellular telephone 123 using one of the cellular communication options disclosed in [0029].

Applicant's arguments regarding the amendment to the claims with the limitation "wherein the base unit is wall mountable" have been considered but are moot because the arguments do not apply to any of the combination of references being used in the current rejection.

Regarding applicants' representative's argument that Kates is silent on the limitation "wherein the second message is a second digital message including a command regarding the environmental device", the examiner maintains that in Kates,

the responsible party 120 is contacted using any one of from telephone 121, pager 122, cellular network 123, or local area network 124 ([0029]). In response to contacting the responsible party, the responsible sends instructions to the monitoring computer ([0068]). This clearly teaches applicants' limitation of communications between cellular telephone 123 and computer 113 and thus Kates is not silent in regards to computer 113 receiving instructions/command/message from telephone 121, pager 122, cellular network 123, or local area network 124 because the responsible party sends the instructions, using anyone of telephone 121, pager 122, cellular network 123, or local area network 124 to send the instructions. Therefore, the examiner maintains that Kates teaches the limitation "wherein the second message is a second digital message including a command regarding the environmental device" as set forth in claims 1, 16, and 20.

In response to applicant's arguments against the references individually (i.e., regarding applicants' representative's argument that Sinclair is completely silent regarding cellular technologies), one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In this case, Sinclair is not used to disclose cellular technologies, but instead to teach associated an icon with a command on a wireless communication device (control unit 10, see figs. 1 and 2, col. 10, lines 1-25). Kates already discloses a base unit communicating with and receiving a command from a cellular telephone using cellular communication technologies (see [0068]). The

examiner maintains that the combination of Kates, Hager, and Sinclair disclose the claim limitations as set forth in claim 3.

Claim Interpretation

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

(f) Element in Claim for a Combination. – An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

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

An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

Use of the word “means” (or “step for”) in a claim with functional language creates a rebuttable presumption that the claim element is to be treated in accordance with 35 U.S.C. 112(f) (pre-AIA 35 U.S.C. 112, sixth paragraph). The presumption that 35 U.S.C. 112(f) (pre-AIA 35 U.S.C. 112, sixth paragraph) is invoked is rebutted when the function is recited with sufficient structure, material, or acts within the claim itself to entirely perform the recited function.

Absence of the word “means” (or “step for”) in a claim creates a rebuttable presumption that the claim element **is not** to be treated in accordance with 35 U.S.C. 112(f) (pre-AIA 35 U.S.C. 112, sixth paragraph). The presumption that 35 U.S.C. 112(f) (pre-AIA 35 U.S.C. 112, sixth paragraph) is not invoked is rebutted when the claim element recites function but fails to recite sufficiently definite structure, material or acts to perform that function.

Claim elements in this application that use the word “means” (or “step for”) are presumed to invoke 35 U.S.C. 112(f) except as otherwise indicated in an Office action. Similarly, claim elements that do not use the word “means” (or “step for”) are presumed not to invoke 35 U.S.C. 112(f) except as otherwise indicated in an Office action.

The claims in this application are given their broadest reasonable interpretation using the plain meaning of the claim language in light of the specification as it would be understood by one of ordinary skill in the art. The broadest reasonable interpretation of a claim element (also commonly referred to as a claim limitation) is limited by the description in the specification when 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, is invoked.

As explained in MPEP § 2181, subsection I, claim limitations that meet the following three-prong test will be interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph:

- (A) the claim limitation uses the term “means” or “step” or a term used as a substitute for “means” that is a generic placeholder (also called a nonce term or a non-structural term having no specific structural meaning) for performing the claimed function;
- (B) the term “means” or “step” or the generic placeholder is modified by functional language, typically, but not always linked by the transition word “for” (e.g., “means for”) or another linking word or phrase, such as “configured to” or “so that”; and

- (C) the term “means” or “step” or the generic placeholder is not modified by sufficient structure, material, or acts for performing the claimed function.

Use of the word “means” (or “step”) in a claim with functional language creates a rebuttable presumption that the claim limitation is to be treated in accordance with 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph. The presumption that the claim limitation is interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, is rebutted when the claim limitation recites sufficient structure, material, or acts to entirely perform the recited function.

Absence of the word “means” (or “step”) in a claim creates a rebuttable presumption that the claim limitation is not to be treated in accordance with 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph. The presumption that the claim limitation is not interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, is rebutted when the claim limitation recites function without reciting sufficient structure, material or acts to entirely perform the recited function.

Claim limitations in this application that use the word “means” (or “step”) are being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, except as otherwise indicated in an Office action. Conversely, claim limitations in this application that do not use the word “means” (or “step”) are not being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, except as otherwise indicated in an Office action.

This application includes one or more claim limitations that do not use the word “means,” but are nonetheless being interpreted under 35 U.S.C. 112(f) or pre-AIA 35

U.S.C. 112, sixth paragraph, because the claim limitation(s) uses a generic placeholder that is coupled with functional language without reciting sufficient structure to perform the recited function and the generic placeholder is not preceded by a structural modifier. Such claim limitations are: “wireless module ... configured to” in claim 1, “a first wireless module... configured to” and “a second wireless module... configured to” in claims 16 and 20.

Because these claim limitation(s) is/are being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, it/they is/are being interpreted to cover the corresponding structure described in the specification as performing the claimed function, and equivalents thereof.

If applicant does not intend to have this/these limitation(s) interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, applicant may: (1) amend the claim limitation(s) to avoid it/them being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph (e.g., by reciting sufficient structure to perform the claimed function); or (2) present a sufficient showing that the claim limitation(s) recite(s) sufficient structure to perform the claimed function so as to avoid it/them being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph.

Claim limitation “wireless module”, “first wireless module”, and “second wireless module” have been interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, because they use a generic placeholder “wireless module” coupled with functional language “configured to” without reciting sufficient structure to achieve the function. Furthermore, the generic placeholder is not preceded by a structural modifier.

Since the claim limitation(s) invokes 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, claims 1, 16, and 20 have been interpreted to cover the corresponding structure described in the specification that achieves the claimed function, and equivalents thereof.

A review of the specification shows that the following appears to be the corresponding structure described in the specification for the 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph limitation: Figures 1 and 4, Page 12, lines 6-7, page 13, lines 1-10, page 13, line 15 – page 14, line 1, page 27, lines 17-20, page 28, and page 29, lines 1-13.

If applicant wishes to provide further explanation or dispute the examiner's interpretation of the corresponding structure, applicant must identify the corresponding structure with reference to the specification by page and line number, and to the drawing, if any, by reference characters in response to this Office action.

If applicant does not intend to have the claim limitation(s) treated under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, applicant may amend the claim(s) so that it/they will clearly not invoke 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, or present a sufficient showing that the claim recites/recite sufficient structure, material, or acts for performing the claimed function to preclude application of 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph.

For more information, see MPEP § 2173 *et seq.* and *Supplementary Examination Guidelines for Determining Compliance With 35 U.S.C. 112 and for Treatment of Related Issues in Patent Applications*, 76 FR 7162, 7167 (Feb. 9, 2011).

Claim Rejections - 35 USC § 103

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

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1, 2, 4-15, and 21 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates 20050275530** in view of **Hager 20020024452**.

Regarding **claim 1**, Kates discloses a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote the base unit (cellular telephone 123, [0029]) comprising:

a wireless **module in the base unit** (The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, see [0029]. The responsible party sends instructions to the monitoring computer 113, see [0068]. Contacting the responsible personnel 120 via cellular telephone 12 and receiving instructions from the responsible party/personnel 120 requires cellular communication circuitry/module in the monitoring computer 113) configured to send a first message to the cellular remote unit via a

cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network (monitoring computer 113 determines whether the condition is an emergency and contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts the responsible personnel using one more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*); responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions to monitoring computer 113, [0068], [0029]), a first communication interface configured to wirelessly receive environmental information from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]) and to wirelessly send a control instruction to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]);

wherein the first message is a first digital communications message including a representation of the environmental information ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]), and

wherein the second message is a second digital communications message including a command regarding the environmental device ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); and

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)), and

wherein the command is initiated by a user via the cellular remote unit to change an environmental characteristic controlled by the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]).

While Kates discloses a base unit performing all the functions set forth in claim 1, Kates does not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

Regarding **claim 2** as applied to claim 1, Kates further discloses wherein the command regards entering an energy conservation mode ([0069]-[0071]), and wherein the energy conservation mode is associated with multiple environmental devices ([0069]-[0071], optional temperature sensor and sensor unit 102, also see [0030]).

Regarding **claim 4** as applied to claim 1, Kates further discloses wherein the change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 5** as applied to claim 1, Kates further discloses wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting associated with the environmental device system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 6** as applied to claim 1, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claim 7** as applied to claim 1, Kates further discloses wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 8** as applied to claim 1, Kates further discloses wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 9** as applied to claim 1, Kates further discloses wherein the

command is an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 10** as applied to claim 1, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]); wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]); wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 11** as applied to claim 10, Kates further discloses wherein the second message includes an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 12** as applied to claim 10, Kates further discloses wherein the microcontroller is configured to process the environmental information into the representation ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]) and to process the command into the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 13** as applied to claim 1, Kates further discloses wherein the remote unit is a cellular telephone (cellular telephone 123, [0029]), and wherein the environmental device comprises a thermostat ([0051], [0069]-[0070]).

Regarding **claim 14** as applied to claim 1, Kates further discloses wherein the environmental device comprises light at least one of a light, thermostat or an alarm system ([0030], [0069]-[0070]).

Regarding **claim 15** as applied to claim 1, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 21** as applied to claim 1, Kates as modified by Hager disclose the claimed invention. Kates further discloses wherein the base station is configured to receive a third message from an external web service, wherein the third message includes a second command regarding the environmental device ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102". Instructions sent by the personnel 120 is over the Internet (~external web service) [0029], [0068]. The monitoring unit also sends instructions to the sensor unit 102, to change the sleep period, listen period, etc, see [0064]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the responsible party 120 to instruct the monitoring computer 113 to change the monitoring patterns of the sensor units 102 for the benefit of changing the pattern of operation of the sensor units between periodic and continuous monitoring based on whether an environmental

condition is detected.

5. Claims 16-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates 20050275530** in view of **Rusch 20030100308** and **Hager 20020024452**.

Regarding **claim 16**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113") the base unit comprising: a first wireless module in the base unit (The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, see [0029]. The responsible party sends instructions to the monitoring computer 113, see [0068]. Contacting the responsible personnel 120 via cellular telephone 12 and receiving instructions from the responsible party/personnel 120 requires cellular communication circuitry/module in the monitoring computer 113) configured to receive a first message from the cellular remote unit via a cellular communications network ([0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions (*~first message*) to monitoring computer 113 via a cellular telephone

communication system); a second communication interface configured to send a control construction from the base unit to the environmental device (“the computer 113 sends instructions to each sensor unit”, [0047], [0068]); wherein the first message is a first digital communications message including a command (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]); a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface, wherein the first message is received before sending the control instruction ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the command is for the base unit, and wherein the command is initiated by a user from the cellular remote unit interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is based on the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

While Kates discloses a first wireless module and second communication interface in the base unit configured to send a control construction from the base unit to the environmental device, Kates does not specifically disclose a ***second wireless module*** in the base unit configured to send a control construction from the base unit to the environmental device.

Rusch however, discloses a wireless unit (100, see fig. 1, [0009]) comprising a first wireless module (radio interfaces 102, 104, see fig. 1, [0010]-[0012]) and a second wireless module (radio interfaces 106, 108, see fig. 1, [0010]-[0012]), wherein the first wireless module in the wireless unit is configured to receive messages from a cellular remote unit via a cellular communications network (see fig. 1, [0010]) and the second wireless module is configured to communicate with other devices (communicating via WLAN, Bluetooth, with other devices, see fig. 1, [0010]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Rusch with the system of Kates by having two wireless modules for the Bluetooth and cellular interfaces in the monitoring computer 113, as taught by Rusch, for the benefit of enabling the computer to communicating using various protocols with multiple networks according to application requirements.

While Kates as modified by Rusch disclose a base unit performing all the functions set forth in claim 16, the combination of Kates and Rusch do not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates as modified by Rusch by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

Regarding **claim 17** as applied to claim 16, Kates further discloses wherein the first message is received from the cellular remote unit using a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claim 18** as applied to claim 16, Kates further discloses wherein cellular remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 19** as applied to claim 16, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 20**, Kates teaches a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a

cellular remote unit ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113") the base unit comprising: a first wireless module in the base unit (The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, see [0029]. The responsible party sends instructions to the monitoring computer 113, see [0068]. Contacting the responsible personnel 120 via cellular telephone 12 and receiving instructions from the responsible party/personnel 120 requires cellular communication circuitry/module in the monitoring computer 113) configured to receive a first message from the cellular remote unit via a cellular communications network ([0068], [0029] responsible personnel 120 (*~using remote device/cellular telephone 123*) sends instructions (*~first message*) to monitoring computer 113 via a cellular telephone communication system) and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*). The system in fig. 1 of Kates

is not static. Therefore, the monitoring in the sensor system continues, indicating after the responsible personnel sends instructions via remote device/cellular phone 123 ([0068]), the monitoring unit will monitor the system and if an emergency condition is detected, contacts the appropriate personnel 120, [0029], [0033]-[0034]); a second communication interface configured to send a control instruction from the base unit to the environmental device ("the computer 113 sends instructions to each sensor unit", [0047], [0068]); and to receive an environmental status from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor unit, [0032], [0047]); wherein the first message is a first digital communications message including a command ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068]); wherein the second message is a second digital communications message including the environmental status (monitoring computer 113 determines whether the condition is an emergency contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts responsible personnel 120 using one or more of several communication systems such as telephone, pager, cellular telephone, or email (*~contacts personnel's remote device*)); a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instruction to the environmental device via the second communication interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off

instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and wherein the command is for the base unit, and wherein the command initiated by a user from the cellular remote unit ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is based on the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

While Kates discloses a first wireless module and second communication interface in the base unit configured to send a control construction from the base unit to the environmental device, Kates does not specifically disclose a *second wireless module* in the base unit configured to send a control construction from the base unit to the environmental device.

Rusch however, discloses a wireless unit (100, see fig. 1, [0009]) comprising a first wireless module (radio interfaces 102, 104, see fig. 1, [0010]-[0012]) and a second wireless module (radio interfaces 106, 108, see fig. 1, [0010]-[0012]), wherein the first wireless module in the wireless unit is configured to receive messages from a cellular remote unit via a cellular communications network (see fig. 1, [0010]) and the second wireless module is configured to communicate with other devices (communicating via WLAN, Bluetooth, with other devices, see fig. 1, [0010]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Rusch with the system of Kates by having two wireless modules for the Bluetooth and cellular interfaces in the monitoring computer 113, as taught by Rusch, for the benefit of enabling the computer to communicating using various protocols with multiple networks according to application requirements.

While Kates as modified by Rusch disclose a base unit performing all the functions set forth in claim 16, the combination of Kates and Rusch do not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates as modified by Rusch by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

6. Claims 3 and 22 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Hager 20020024452** as applied to claim 1 above, and further in view of **Sinclair 7,127,270**.

Regarding **claim 3** as applied to claim 1, Kates as modified by Hager discloses the claimed limitation. Kates further discloses wherein the command (associated with a user response) is transmitted over the cellular communications network ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102". Instructions sent by the personnel 120 via the cellular telephone 123 is over a cellular network, see [0029], [0068]). However, Kates does not expressly disclose wherein the command is associated with an icon on the remote unit. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices, and transmitting the command associated with the user icon to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates as modified by Hager by incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Regarding **claim 22** as applied to claim 1, Kates as modified by Hager discloses the claimed limitation. Kates further discloses wherein the command is a command string (responsible party sends instructions to the monitoring computer 113 instructing

the monitoring computer 113 to send water shut off instructions to sensor 102, see [0068]). However Kates does not expressly disclose wherein the command is a command string associated with an icon. However, in an analogous art, Sinclair an icon associated with command strings to control remote devices, and transmitting the command associated with the user icon to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates as modified by Hager by incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Brunius 6,204,760.

Suomela 20030011467.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

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

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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

Notice of References Cited	Application/Control No. 15/405,793		Applicant(s)/Patent Under Reexamination SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI		Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2002/0024452 A1	02-2002	Hager, Gary	B25B23/0021	340/999
*	B	US-2003/0100308 A1	05-2003	Rusch, Leslie A.	H04W48/18	455/445
*	C	US-6,204,760 B1	03-2001	Brunius; Robert	G08B25/001	340/506
*	D	US-2003/0011467 A1	01-2003	Suomela, Riku	G08C17/02	340/7.1
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S131	1265	wall with mount\$3 with (unit device) same (monitor\$3 measur\$5) same (temperature humidity gas water smoke moisture) same sensor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/07 08:45
S132	141	S131 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/03/07 08:47
S133	80	("3133269" "4864102" "4945943" "5454510" "5590831" "5644302" "6152375" "6260765" "6394359" "6631619" "6686911" "D359698").PN. OR ("7108194").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/03/07 09:00
S134	15	S132 AND ((G08B27/00 OR G08B25/016 OR G08B19/00 OR G08B21/02 OR G08B21/12 OR G08B21/18 OR G08B7/06 OR G08B25/10 OR H04W4/22 OR H04W4/90 OR H04W76/007 OR H04W76/50).CPC.)	US-PGPUB; USPAT	OR	OFF	2018/03/07 09:05
S135	44	wall with mount\$3 with (unit device) same (monitor\$3 measur\$5) same (temperature humidity gas water smoke moisture) same sensor same2 (cellular cell\$1phone "mobile device")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/07 09:35
S136	0	wall with (mount\$3 attach\$4) with ("access point" "base station") same (monitor\$3 measur\$5) same (temperature humidity gas water smoke moisture) same sensor same2 (cellular cell\$1phone "mobile device")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/07 10:33
S137	0	wall with (mount\$3 attach\$4) with ("access point" "base station") same (temperature humidity gas water smoke moisture) same sensor same2 (cellular cell\$1phone "mobile device")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/07 10:35
S138	7	wall with (mount\$3 attach\$4) with ("access point" "base station") same (temperature humidity gas water smoke moisture) same sensor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/07 10:37
S139	2	"7499679".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/03/07 10:39

			IBM_TDB			
S140	5	("20020119769" "20050136972").PN. OR ("7499679").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/03/07 10:39
S141	41	wall with (mount\$3 attach\$4) with ("access point" "base station") same sensor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/07 10:40
S142	11	S141 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/03/07 10:41
S143	967	wall with (mount\$3 attach\$4) with ("access point" "base station")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/07 10:44
S144	298	S143 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/03/07 10:44
S145	39	S144 and 340/\$.cls.	US-PGPUB; USPAT	OR	OFF	2018/03/07 10:44
S146	1	"15405793"	US-PGPUB; USPAT	OR	OFF	2018/03/07 14:31
S147	1	"09860792"	US-PGPUB; USPAT	OR	OFF	2018/03/07 17:25
S148	11	(leslie near Rusch).in.	US-PGPUB; USPAT	OR	OFF	2018/03/07 21:19
S149	0	"09995449"	US-PGPUB; USPAT	OR	OFF	2018/03/07 21:22

EAST Search History (Interference)

< This search history is empty >

3/ 8/ 2018 10:23:38 AM**C:\Users\oajibadeakonai\Documents\EAST\Workspaces\15405793.wsp**

<i>Index of Claims</i> 	Application/Control No. 15405793	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 2641

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

☐ Claims renumbered in the same order as presented by applicant										☐ CPA										☐ T.D.										☐ R.1.47									
CLAIM		DATE																																					
Final	Original	07/10/2017	03/08/2018																																				
	1	✓	✓																																				
	2	✓	✓																																				
	3	✓	✓																																				
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Search Notes 	Application/Control No. 15405793	Applicant(s)/Patent Under Reexamination SHAMOON ET AL.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 2641

CPC- SEARCHED		
Symbol	Date	Examiner
H04W84/18 84/12 4/043 48/16 4/20	7/10/2017	OA
G08B21/182 1/08 25/009 17/10 25/007 25/10 27/005	7/10/2017	OA
G08B27/00 25/016 19/00 21/02 21/12 21/18 7/06 25/10	3/8/2018	OA
H04W4/22 4/90 76/007 76/50	3/8/2018	OA

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST search	7/10/2017	OA
EAST search	3/8/2018	OA

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

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

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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

24112

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



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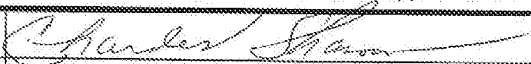
☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address: Ubiquitous Connectivity, LP
2436 Tisbury Way
Little Elm, Texas 75068

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	3/29/2018
Name	CHARLES SHAMMOON	Telephone	214 491 7247
Title	President		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 5 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND 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	
EFS ID:	32208053
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamon
Customer Number:	109967
Filer:	Stephen A. Herrera/Kristi Dunshee
Filer Authorized By:	Stephen A. Herrera
Attorney Docket Number:	SHAM1010-2
Receipt Date:	30-MAR-2018
Filing Date:	13-JAN-2017
Time Stamp:	13:24:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73	7688Statemment.pdf	83126	no	2
			8c0fa9de24037199cdbc64e7943d8bdc7e10d1f		
Warnings:					

Information:					
2	Power of Attorney	7688POA.pdf	538080	no	1
			e38af4ba2a368eaf715c8114b6f3819b9bb1dcd1		
Warnings:					
Information:					
Total Files Size (in bytes):			621206		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Ubiquitous Connectivity, LP
Application No./Patent No.: 15/405,793 Filed/Issue Date: January 13, 2017
Titled: Ubiquitous Connectivity and Control System for Remote Locations
Ubiquitous Connectivity, LP, a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Charles Shamoon To: Ubiquitous Connectivity, LP

The document was recorded in the United States Patent and Trademark Office at
Reel 028125, Frame 0418, or for which a copy thereof is attached.

2. From: Deborah Shamoon To: Ubiquitous Connectivity, LP

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[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: Allen Turkow To: Ubiquitous Connectivity, LP

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4. From: Lucy Turkow To: Ubiquitous Connectivity, LP

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Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Stephen A. Herrera/

Signature

Stephen A. Herrera

Printed or Typed Name

March 30, 2018

Date

47,642

Title or Registration Number



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2

CONFIRMATION NO. 1009

POWER OF ATTORNEY NOTICE

109967
Pierson IP, PLLC
415 West 16th St
SUITE B
Houston, TX 77008



Date Mailed: 04/04/2018

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/30/2018.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/ytdemisse/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2

CONFIRMATION NO. 1009

POA ACCEPTANCE LETTER

24112
COATS & BENNETT, PLLC
1400 Crescent Green, Suite 300
Cary, NC 27518



Date Mailed: 04/04/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/30/2018.

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

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/ytdemisse/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Charles Shamoon	)	
	)	
Serial No.: 15/405793	)	
	)	
Filed: January 13, 2017	)	Examiner: Olumide Ajibade Akonai
	)	
For: Ubiquitous Connectivity and Control	)	Group Art Unit: 2641
System for Remote Locations	)	
	)	
Docket No: 7688-001	)	Confirmation No.: 1009
	)	
	)	
	)	
	)	

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Alexandria, VA 22313-1450

AFTER FINAL RESPONSE

This paper is being filed in response to the Action mailed March 13, 2018.

Reconsideration is respectfully requested in light of the amendments and/or remarks below.

The Office is hereby authorized to charge any fees required for entry of this paper to Deposit

Account 18-1167.

CLAIMS LISTING

1. (Currently Amended) A base unit configured to communicate with an environmental device and to communication with a cellular remote the base unit comprising:

a wireless ~~module~~ circuit in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network, wherein the base unit is wall mountable[[,]];

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

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

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

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instructions to the environmental device via the first communication interface[,]]; and

wherein the command is initiated by the user via the cellular remote unit to change an environmental characteristic controlled by the environmental device.

2. (Previously Presented) The base unit of claim 1, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

3. (Previously Presented) The base unit of claim 1, wherein the command is associated with an icon stored on the remote unit, wherein the command associated with the icon is transmitted over the cellular communications network.

4. (Previously Presented) The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off.

5. (Currently Amended) The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting ~~associated~~ associated with the environmental device.

6. (Previously Presented) The base unit of claim 1, wherein the cellular communications network includes a data bearer service.

7. (Previously Presented) The base unit of claim 1, wherein the remote unit is a mobile remote unit.

8. (Previously Presented) The base unit of claim 1, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

9. (Previously Presented) The base unit of claim 1, wherein the command is an energy conservation command associated with multiple environmental devices.

10. (Previously Presented) The base unit of claim 1,
wherein the cellular communications network includes a data bearer service; wherein the
remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction; and
wherein the command includes an environmental command.
11. (Previously Presented) The base unit of claim 10, wherein the second message includes an
energy conservation command associated with multiple environmental devices.
12. (Previously Presented) The base unit of claim 10, wherein the microcontroller is configured
to process the environmental information into the representation and to process the command
into the control instructions.
13. (Previously Presented) The base unit of claim 1, wherein the remote unit is a cellular
telephone, and wherein the environmental device comprises a thermostat.
14. (Previously Presented) The base unit of claim 1, wherein the environmental device
comprises at least one of a light, thermostat, or an alarm system.
15. (Previously Presented) The base unit of claim 1, wherein the base unit and the
environmental device are contained in the same enclosure.

16. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote, the base unit comprising:

a first wireless ~~module~~ circuit in the base unit configured to receive a first message from the cellular remote unit via a cellular communications network, wherein the base unit is wall mountable;

a second wireless ~~module~~ circuit in the base unit configured to send a control instruction from the base unit to the environmental device;

wherein the first message is a first digital communications message including a command;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instructions to the environmental device via the second wireless ~~module~~ circuit, wherein the first message is received before sending the control instructions; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

17. (Previously Presented) The base unit of claim 16, wherein the first message is received from the cellular remote unit using a data bearer service.

18. (Previously Presented) The base unit of claim 16, wherein cellular remote unit is a mobile remote unit.

19. (Previously Presented) The base unit of claim 16, wherein the base unit and the environmental device are contained in the same enclosure.

20. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote, the base unit comprising:

a first wireless ~~module~~ circuit in the base unit configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message, wherein the base unit is wall mountable;

a second wireless ~~module~~ circuit in the base unit configured to send a control instruction from the base unit to the environmental device; and to receive an environmental status from the environmental device[[,]];

wherein the first message is a first digital communications message including a command;

wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command; and to send the control instruction to the environmental device via the second wireless ~~module~~ circuit; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

21. (Previously Presented) the base unit of claim 1, wherein the base unit is configured to receive a third message from an external web service, wherein the third message includes a second command regarding the environmental device.

22. (Previously Presented) The base unit of claim 1, wherein the command is a command string associated with an icon.

REMARKS

Claims Amendments

Claims 1, 5, 16, and 20 have been amended as noted in the following remarks. No new matter has been added, and all amendments are fully supported by the as-filed specification.

Claim Interpretation under 35 U.S.C. §112 ¶6

The Office Action first notes the claim terms “wireless module,” “first wireless module,” and “second wireless module,” and thus, interprets the claims under 35 U.S.C. §112 ¶6. Applicant respectfully disagrees, but has amended the claims to address the Examiner’s concerns. As amended, these terms now appear throughout the claims as “wireless circuit,” “first wireless circuit,” and “second wireless circuit,” respectively.

The fact that the modules are hardware circuits is fully supported by the as-filed specification. As seen in Figure 4, for example, the so-called wireless module 70 communicates wirelessly via an antenna 90, as well as with a processing circuit via hardware bus 110. It also electrically connects to a microphone 100 and a speaker 102. Moreover, a power supply 104 provides electrical power to the wireless circuits. Such connections, especially those that provide electrical power, are hardware circuits. And circuits have long been held by the Federal Circuit to connote structure “(...the term circuit, combined with a description of the function of the circuit, connoted sufficient structure to one of ordinary skill in the art.)”, *Linear Tech. Corp. v. Impala Linear Corp.*, 379 F.3d 1311, 1321, 72 USPQ2d 1065, 1071 (Fed. Cir. 2004). See also *MPEP* §2181(I)(A).

In light of the foregoing amendments and their corresponding remarks, the pending claims do not invoke analysis under 35 U.S.C. §112(f) or 35 U.S.C. §112 ¶6.

35 U.S.C. §103(a) Rejections

Independent Claim 1 – Kates in view of Hager

The Office Action next indicates that claim 1 stands rejected under 35 U.S.C. §103(a) as being obvious over “Kates” (U.S. Pat. App. Pub. No. 2005/0275530) in view of “Hager” (U.S. Pat. App. Pub. No. 2002/0024452). Respectfully, the rejection is improper.

Claim 1 recites a base unit comprising an integrated wireless circuit expressly configured for two-way communication with a cellular remote unit. Particularly, the wireless circuit is configured to send a first message to the cellular remote unit via a cellular communications network, but more notably, is also configured to “receive a second message from the cellular remote unit via the cellular communications network.” Neither Kates nor Hager, alone or in combination, teaches or suggests this aspect.

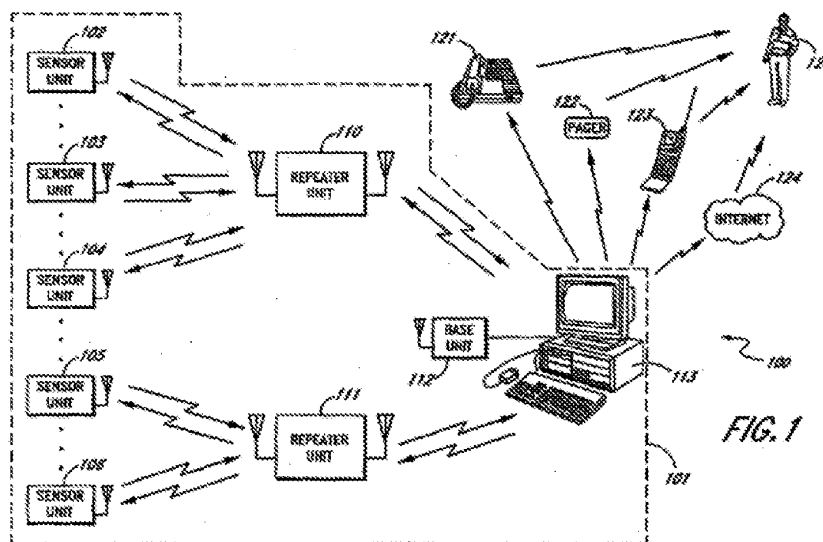
The rejection relies entirely on Kates to support the assertion that a base unit having a wireless “module” (now, “circuit”) capable of two-way communication with a cellular device is known. However, Applicant submits that the rejection overstates Kates’ teachings.

Kates states that the monitoring computer (113) (which the rejection equates to the claimed base unit) can send a user (120) a message indicating a problem or failure detected by one of the sensors (102-106). According to Kates, that message will eventually be received by the user’s cell phone (123). *Kates*, ¶[0029]. Kates purports to disclose that the user can send instructions to the monitoring computer to send corresponding instructions to the sensor. *Kates*, ¶[0068]. However, Kates does not provide an enabling disclosure for communications between these entities via a cellular communications network as claimed. *Kates*, [0057]; Figure 4.

In the Response to Arguments section of the Final Office Action, the Examiner asserts that because the monitoring computer of Kates can incorporate the base unit, and because the monitoring computer communicates with a user via a cellular telephone, the monitoring computer is “a single entity that receives signals from and transmits signals.” Based on this

reasoning, the Examiner concludes that the monitoring computer of Kates must have a wireless circuit capable of communicating with a cellular telephone, as claimed. *Final Office Action*, p. 2, ¶1. However, this reasoning fails scrutiny because the base unit of Kates is not configured for two-way communication with a cellular remote. Kates, ¶[0057]; Figure 4.

There is evidence in Kates that the monitoring computer does not have capability to effect two-way communications with a cellular remote. Consider Figure 1 of Kates, for example, which is relied on to support the Kates-based assertions.



As seen in this Figure, Kates clearly shows entities that are capable of two-way communication using two distinct directional arrows. Thus, the base unit (112) of Kates, for example, can send data to, and receive data from, the repeaters (110, 111). The directional arrow between the monitoring computer and the cellular telephone, however, reflects only one-way (i.e., outbound) communications from the monitoring computer to the cellular telephone. Applicant submits that if Kates wanted to show two-way communications between the monitoring computer and the cellular telephone, Kates would have explicitly indicated as much by including a second

directional arrow pointing to the monitoring computer, just as was done for the other entities in the Kates system.

The assertion that the user can send instructions to the monitoring computer is flawed. Kates never teaches or suggests, explicitly or implicitly, how the user could provide instructions to a wireless circuit that is disposed in the monitoring computer or base unit via a cellular network. *Kates*, ¶[0057]; Figure 4. Nor can one of ordinary skill in the art determine as much merely from reading the single line in Kates that mentions this ability. *Kates*, ¶[0068]. For all that is known, the user in Kates can only provide such instructions using one or both of a keyboard and a mouse associated with the monitoring computer, as is conventional. Kates certainly does not go into any detail regarding these aspects. However, one thing is certain - Kates does not enable two-way communication with a cellular remote, nor does Kates teach or suggest a wireless circuit in the monitoring computer or base unit configured to perform the claimed functions. *Kates*, ¶[0057]; Figure 4.

The Office argues that because Kates shows cellular communications that occur between a monitoring computer and a cellular telephone, two-way cellular communications “must” exist in Kates. However, as evidenced above, Kates is conspicuously silent with respect to how a wireless circuit in the disclosed monitoring computer or base unit could receive a message from a cellular remote, as claimed. *Kates*, ¶[0057]; Figure 4.

Respectfully, the reasoning for supporting the §103 rejection of claim 1 equates to a “back-door” type of Official Notice. More particularly, the statement that a wireless circuit capable of two-way communications via a cellular communications network “must” be in the monitoring computer, as claimed, is based solely on the statement that the monitoring computer in Kates can send messages that are ultimately received at a cellular telephone. The same goes for the reasoning related to the user’s ability to send instructions to the monitoring computer in Kates. Therefore, given Kates’ silence on such a wireless circuit, Applicant

requests that the Office provide proof that monitoring computers comprising a wireless circuit configured to communicate with a cellular remote via a cellular communications network existed at the time the invention was filed.

The Office bears the initial burden of presenting a *prima facie* case of obviousness. *In re Oetiker*, 977 F.2d 1443, 1445 (Fed. Cir. 1992). And it is well-settled that an obviousness rejection cannot be sustained by mere conclusory statements; there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. See *KSR Int'l Co. v. Teleflex Inc.*, 127 S. Ct. 1727, 1741 (2007), quoting *In re Kahn*, 441 F. 3d 977, 988 (Fed. Cir. 2006). In this case, Kates does not teach or suggest a wireless circuit in the monitoring computer or base unit configured to “receive a second message from the cellular remote unit via the cellular communications network,” as claimed. *Kates*, ¶[0057]; Figure 4. Therefore, Kates does not teach or suggest every limitation of claim 1.

As for the secondary reference, Hager, it is cited only because it allegedly discloses a wall-mounted base unit, and not because it shows a wireless circuit “in a base station,” which it does not. Accordingly, because both Kates and Hager alone fail to teach or suggest the same limitation, any combination of these references necessarily fails to teach or suggest this limitation. Thus, the §103 rejection should be withdrawn.

Independent Claims 16 and 20 – Kates in view of Rusch and Hager

Independent claim 16 is directed to a base unit capable of communicating with a cellular remote and recites “a first wireless circuit in the base unit configured to receive a first message from the cellular remote unit via a cellular communications network.” Independent claim 20 is also directed to a base unit capable of communicating with a cellular remote and recites, “a first wireless circuit in the base unit configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message.” For reasons

similar to those stated above, neither Kates nor Hager, alone or in combination, teaches or suggests these limitations. And as for Rusch, it fails to remedy these deficiencies.

Rusch discloses a mobile wireless device, such as a cellular telephone, configured with a plurality of wireless interfaces. Each interface enables the wireless device to communicate with a remote entity over a different network using an appropriate protocol. However, what Rusch discloses is a device such as a cellular telephone capable of communicating via a cellular network. Rusch does not teach or suggest a base unit comprising an integrated wireless circuit configured to communicate with a cellular remote unit via a cellular communications network, as recited in claims 16 and 20. Nor does Rusch ever mention that the disclosed wireless interface modules could be utilized in any hand-held device other than a user device (i.e., a cellular telephone, laptop computer, PDA, video camera, etc.). Rusch certainly does not teach or suggest that the wireless interface modules could be utilized in a base unit, as claimed. As such, Rusch fails to remedy the above-noted deficiencies of Kates and Hager, alone and in combination, and the §103 rejections of claims 16 and 20 fail for at least this reason.

Additionally, however, no one of ordinary skill in the art would have a reason to alter the teachings of Kates and Hager according to those of Rusch. Indeed, Kates already discloses a cellular telephone. Therefore, Rusch does not provide anything that Kates does not already provide. Accordingly, for at least these reasons, the §103 rejection of claims 16 and 20 fails and should be withdrawn.

Dependent Claims

Applicant submits that all pending dependent claims are allowable over the cited art due at least to their dependencies on a respective one of the independent claims.

Conclusion

Finally, the instant application was filed with a Petition to Make Special and Applicant greatly appreciates the Examiner's prompt consideration.

For the forgoing reasons, it is respectfully urged that the present application is in condition for allowance and notice to such effect is respectfully requested.

Respectfully submitted,
COATS & BENNETT, P.L.L.C.

A handwritten signature in black ink, appearing to read "Stephen A. Herrera", written over a horizontal line.

Stephen A. Herrera
Registration No.: 47,642
Telephone: (919) 854-1844

Dated: May 16, 2018

Electronic Acknowledgement Receipt	
EFS ID:	32644372
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamon
Customer Number:	24112
Filer:	Stephen A. Herrera/Leslie Ruckdeschel
Filer Authorized By:	Stephen A. Herrera
Attorney Docket Number:	SHAM1010-2
Receipt Date:	16-MAY-2018
Filing Date:	13-JAN-2017
Time Stamp:	17:05:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response_After_Final.pdf	234355	yes	14
			4e9d2a3bb517abaa2f2e9ae28f3bb9f86fdc eb62		

Multipart Description/PDF files in .zip description			
Document Description	Start	End	
Response After Final Action	1	1	
Claims	2	7	
Applicant Arguments/Remarks Made in an Amendment	8	14	

Warnings:

Information:

Total Files Size (in bytes):	234355

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/405,793		Filing Date 01/13/2017		☐ To be Mailed				
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO												
APPLICATION AS FILED - PART I												
		(Column 1)		(Column 2)								
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)				
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A						
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A						
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A						
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 = *				x \$40 =						
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$210 =						
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).										
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))												
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL						
APPLICATION AS AMENDED - PART II												
		(Column 1)		(Column 2)		(Column 3)						
AMENDMENT	05/16/2018	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(j))	* 22	Minus	** 22	= 0			x \$50 =		0		
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0			x \$230 =		0		
	☐ Application Size Fee (37 CFR 1.16(s))											
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))											
								TOTAL ADD'L FEE		0		
		(Column 1)		(Column 2)		(Column 3)						
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(j))	*	Minus	**	=			x \$ 0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=			x \$ 0 =				
	☐ Application Size Fee (37 CFR 1.16(s))											
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))											
								TOTAL ADD'L FEE				
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								LIE				
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								diana A bates				
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".												
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.												

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

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2	1009
24112 7590 06/04/2018 COATS & BENNETT, PLLC 1400 Crescent Green, Suite 300 Cary, NC 27518			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 3648	PAPER NUMBER
			MAIL DATE 06/04/2018	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.

Advisory Action Before the Filing of an Appeal Brief	Application No. 15/405,793	Applicant(s) SHAMOON ET AL.	
	Examiner OLUMIDE T. AJIBADE AKONAI	Art Unit 3648	AIA (First Inventor to File) Status No

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

THE REPLY FILED 16 May 2018 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.
NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance;
 (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.

b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires _____ months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because

a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);

b) ☐ They raise the issue of new matter (see NOTE below);

c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicant's reply has overcome the following rejection(s): _____.

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☒ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.

13. ☐ Note the attached Information *Disclosure Statement(s)*. (PTO/SB/08) Paper No(s). _____

14. ☐ Other: _____.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 1-22.

Claim(s) withdrawn from consideration: _____.

	/OLUMIDE T AJIBADE AKONAI/ Primary Examiner, Art Unit 3648

Continuation of 12. does NOT place the application in condition for allowance because: Applicant's remarks submitted 05/6/2018 regarding the the 35 USC 103(a) rejection of claims 1-22 have been considered but they are not persuasive. Regarding claim 1, the applicant's representative asserts that Kates fails teach or suggest "receive a second message from the cellular remote unit via the cellular communications network". The applicant asserts that Kates does not provide an enabling disclosure for communications between these entities via a cellular communications network as recited in claim 1, and that the base unit of Kates is not configured for two-way communication with a cellular remote. The examiner respectfully disagrees with the applicant because Kates clearly discloses that the monitoring computer 113 communicates with (contacts) a responsible party 120 via a communication system such as cellular telephone ([0029], [0032]) and receives instructions from the responsible party 120 who is outside of building 101 (see [0068]), thus demonstrating two-way communication. Therefore, while Kates does not show a second directional arrow pointing to the monitoring computer 113, Kates does disclose sending instructions from the responsible party via any of devices 121-124, and that can include cellular telephone communication via cellular telephone 123. Kates therefore provides an enabling disclosure for two-way communications between the monitoring station 113 and cellular telephone 123.

The applicant further asserts that Kates never suggests implicitly or explicitly how the user could provide instructions to a wireless circuit that is disposed in the monitoring computer or base unit via cellular communication and therefore the assertion that the user can send instructions to the monitoring computer is flawed. The examiner notes that this amendment to the claim requiring a wireless circuit changes the scope of the claim and requires further consideration. However, the examiner respectfully disagrees with the applicant's arguments because as previously indicated, the responsible user can send instructions to the monitoring computer 113 via any of devices 121-124, thus indicating that it can be sent via cellular communications using cellular telephone 123 (see [0029], [0032], [0068]). The monitoring computer and base unit 112 as a combined unit (see fig. 4), has a wireless module that receives the instructions, and based on the received instructions send water shut off instructions to the sensor unit 102 ([0068]).

In response to applicant's assertion that the reasoning for supporting the backdoor rejection equates to official notice, the examiner notes that the 103(a) rejection is not based on official notice, but rather on the combination of Kates and Hager. Nowhere in the rejection is official notice taken or given as a reason for, or motivation to combine Kates and Hager. As already indicated above, Kates discloses a wireless module that performs 2-way communication, as disclosed in [0029], [0032], [0068] in which the monitoring computer forwards information to a cellular telephone using cellular telephone communication system and receives instructions from the cellular telephone using cellular telephone communication system. The 35 USC 103(a) rejection of claims 1-22 is therefore maintained.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Charles Shamoon**

Serial No.: **15/405793**

Filed: **January 13, 2017**

For: **Ubiquitous Connectivity and Control
System for Remote Locations**

Docket No: **7688-001**

Examiner: Olumide Ajibade Akonai

Group Art Unit: 2641

Confirmation No.: 1009

DO NOT ENTER: /O.A/

05/30/2018

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

AFTER FINAL RESPONSE

This paper is being filed in response to the Action mailed March 13, 2018.

Reconsideration is respectfully requested in light of the amendments and/or remarks below.

The Office is hereby authorized to charge any fees required for entry of this paper to Deposit

Account 18-1167.

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)

Approved for use through 11/30/2020. 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	15405793	Filing Date	2017-01-13	Docket Number (if applicable)	7688-001	Art Unit	2641
First Named Inventor	Charles Shamoon			Examiner Name	Olumide Ajibade Akonai		

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 181167

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 (02-18)

Approved for use through 11/30/2020. 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	Stephen A. Herrera, Reg. No. 47642/	Date (YYYY-MM-DD)	2018-06-13
Name	Stephen A. Herrera	Registration Number	47642

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Charles Shamoon**

Serial No.: **15/405793**

Filed: **January 13, 2017**

For: **Ubiquitous Connectivity and Control
System for Remote Locations**

Docket No: **7688-001**

Examiner: Olumide Ajibade Akonai

Group Art Unit: 2641

Confirmation No.: 1009

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

AMENDMENT

This paper is being filed in response to the Final Office Action mailed March 13, 2018, and to the Advisory Action mailed June 4, 2018, and concurrently with a Request for Continued Examination (RCE). Reconsideration is respectfully requested in light of the amendments and/or remarks below. The Office is hereby authorized to charge any fees required for entry of this paper to Deposit Account 18-1167.

CLAIMS LISTING

1. (Currently Amended) A base unit configured to communicate with an environmental device and to communication with a cellular remote the base unit comprising:

a wireless ~~module~~ circuit in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network, wherein the base unit is wall mountable[~~,~~];

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

wherein the first message is a first digital communications message including a representation of the environmental information[~~,~~ and];

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

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

wherein the command is initiated by the user via the cellular remote unit to change an environmental characteristic controlled by the environmental device.

2. (Previously Presented) The base unit of claim 1, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

3. (Previously Presented) The base unit of claim 1, wherein the command is associated with an icon stored on the remote unit, wherein the command associated with the icon is transmitted over the cellular communications network.

4. (Previously Presented) The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off.

5. (Currently Amended) The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting ~~associated~~ associated with the environmental device.

6. (Previously Presented) The base unit of claim 1, wherein the cellular communications network includes a data bearer service.

7. (Previously Presented) The base unit of claim 1, wherein the remote unit is a mobile remote unit.

8. (Previously Presented) The base unit of claim 1, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.

9. (Previously Presented) The base unit of claim 1, wherein the command is an energy conservation command associated with multiple environmental devices.

10. (Previously Presented) The base unit of claim 1,
wherein the cellular communications network includes a data bearer service; wherein the
remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction; and
wherein the command includes an environmental command.
11. (Previously Presented) The base unit of claim 10, wherein the second message includes an
energy conservation command associated with multiple environmental devices.
12. (Previously Presented) The base unit of claim 10, wherein the microcontroller is configured
to process the environmental information into the representation and to process the command
into the control instructions.
13. (Previously Presented) The base unit of claim 1, wherein the remote unit is a cellular
telephone, and wherein the environmental device comprises a thermostat.
14. (Previously Presented) The base unit of claim 1, wherein the environmental device
comprises at least one of a light, thermostat, or an alarm system.
15. (Previously Presented) The base unit of claim 1, wherein the base unit and the
environmental device are contained in the same enclosure.

16. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote, the base unit comprising:

a first wireless ~~module in~~ circuit communicatively coupled to the base unit configured to receive a first message from the cellular remote unit via a cellular communications network, wherein the base unit is wall mountable;

a second wireless ~~module circuit~~ in the base unit configured to send a control instruction from the base unit to the environmental device;

wherein the first message is a first digital communications message including a command;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control instructions to the environmental device via the second wireless ~~module circuit~~, wherein the first message is received before sending the control instructions; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

17. (Previously Presented) The base unit of claim 16, wherein the first message is received from the cellular remote unit using a data bearer service.

18. (Previously Presented) The base unit of claim 16, wherein cellular remote unit is a mobile remote unit.

19. (Previously Presented) The base unit of claim 16, wherein the base unit and the environmental device are contained in the same enclosure.

20. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote, the base unit comprising:

a first wireless ~~module in~~ circuit communicatively coupled to in the base unit configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message, wherein the base unit is wall mountable;

a second wireless ~~module~~ circuit in the base unit configured to send a control instruction from the base unit to the environmental device~~[[.]]~~, and to receive an environmental status from the environmental device~~[[.]]~~;

wherein the first message is a first digital communications message including a command; wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command; and to send the control instruction to the environmental device via the second wireless ~~module~~ circuit; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

21. (Previously Presented) the base unit of claim 1, wherein the base unit is configured to receive a third message from an external web service, wherein the third message includes a second command regarding the environmental device.

22. (Previously Presented) The base unit of claim 1, wherein the command is a command string associated with an icon.

23. (New) The base unit of claim 1, wherein the first message sent to the cellular remote unit via the cellular communications network controls the cellular remote unit to display one or more icons stored on the cellular remote unit responsive to receiving the first message.

24. (New) The base unit of claim 16, wherein the first message is not received from the cellular remote unit in response to a previous message sent by the base unit to the remote cellular unit.

REMARKS

Claims Amendments

Claims 1, 5, 16, and 20 have been amended as noted in the following remarks. Claims 23-24 are added for consideration by the Examiner. No new matter has been added, and all amendments are fully supported by the as-filed specification.

Claim Interpretation under 35 U.S.C. §112 ¶6

The Advisory Action indicated that the amendments submitted by Applicant in the After Final Response dated May 16, 2018 would not be entered as they allegedly “altered the scope of the claims.” Applicant disagrees, but resubmits the amendments in this response. As amended, Applicant submits that none of the claims invokes a “means-plus-function” analysis under 35 U.S.C. §112 ¶6, and requests that the Office enter the amended claims into the record.

35 U.S.C. §103(a) Rejections

Independent Claim 1

The Advisory Action further maintains the 35 U.S.C. §103(a) rejection of claim 1 as being obvious over “Kates” (U.S. Pat. App. Pub. No. 2005/0275530) in view of “Hager” (U.S. Pat. App. Pub. No. 2002/0024452). Applicant respectfully maintains, however, that the rejection is in error because neither Kates nor Hager, alone or in combination, teaches or suggests “a wireless circuit in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,” as recited in claim 1.

The Office maintains that Kates discloses a wireless circuit (i.e., the base unit 112 of Figure 1) in a base station. However, as expressly taught by Kates, that base unit is only able to communicate with one or more repeater stations that are in the same “closed” system (i.e., the building 101) of Kates. Kates does not teach or suggest that the base unit, which may or

may not be part of a monitoring computer 113, configures the monitoring computer to communicate messages with a cellular remote via a cellular communications network, as recited in claim 1.

The Office cites Figure 1 and paragraph [0029] of Kates to support the assertion that the unidirectional arrow extending from the monitoring computer to a user indicates that the monitoring computer communicates with a user's cellular telephone via a cellular communications network. Respectfully, this assertion is not supported by Kates. Such communications does not automatically mean that Kates teaches or suggests a wireless circuit in the monitoring computer that communicates with a user's cellular telephone via a cellular communications network. Rather, it means only that messages originating from the monitoring computer of Kates can "end up" being delivered to the user's cell phone. Paragraph [0029] of Kates alleges that messages sent from the user's cell phone can "end up" being delivered to the monitoring computer. Indeed, there are many different ways for the system of Kates to accomplish these communications functions without having a wireless circuit in the monitoring computer, as alleged by the Office.

In just one example, the monitoring computer of Kates could very well be equipped only with an ETHERNET card that connects the monitoring computer to a modem or other such piece of equipment via a physical ETHERNET cable. Further, that modem may, in turn, be connected via physical cabling to some other pieces of telco equipment associated with an off-site base station. Thus, while the monitoring computer of Kates may be able to communicate with the repeater stations that are in the building, there is no "wireless circuit in the [monitoring computer] configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network," as recited in claim 1.

Applicant notes that Kates discloses the communications between the monitoring computer and the user's cell phone in very broad and unspecified terms. Such teachings, however, are mere results. Kates lacks any details detailing how the communications between the monitoring computer and the cellular telephone are accomplished. Thus, the teachings of Kates can only be considered for what occurs (i.e., communications between two entities). They cannot be considered to teach or suggest how such communications are carried out – especially not in the specific context recited in claim 1 – i.e., via “a wireless circuit in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network.”

The Office purports to address this distinction in the Advisory Action. In particular, the Office asserts that Kates teaches a wireless circuit in the base unit configured to communicate messages with a cellular telephone via a cellular communications network simply because a responsible user can “send instructions to the monitoring computer 113 via any of devices 121-124.” *Id.* Respectfully, however, this assertion is entirely improper as it is based on the observation that the monitoring computer of Kates can somehow communicate with other entities.

The applicant further asserts that Kates never suggests implicitly or explicitly how the user could provide instructions to a wireless circuit that is disposed in the monitoring computer or base unit via cellular communication and therefore the assertion that the user can send instructions to the monitoring computer is flawed. The examiner notes that this amendment to the claim requiring a wireless circuit changes the scope of the claim and requires further consideration. However, the examiner respectfully disagrees with the applicant's arguments because as previously indicated, the responsible user can send instructions to the monitoring computer 113 via any of devices 121-124, thus indicating that it can be sent via cellular communications using cellular telephone 123 (see [0029], [0032], [0068]). The monitoring computer and base unit 112 as a combined unit (see fig. 4), has a wireless module that receives the instructions, and based on the received instructions send water shut off [sic] instructions to the sensor unit 102 ([0068]).

Advisory Action, p. 2, ¶2 (emphasis added). Such corollaries are conclusory, however, and thus, improper. The base unit may be part of the monitoring computer, but is configured only to communicate with the repeater stations. The base unit in Kates is not, under any circumstances, configured to “send a first message to the cellular remote unit via a cellular communications network and [] receive a second message from the cellular remote unit via the cellular communications network.” Nor does Kates teach or suggest that it does – a fact made clear by the structural details of both the repeater stations and the base unit in Kates.

Particularly, Figure 3 illustrates the components of the repeater stations. Note that one of the components is a transceiver 302. Importantly, Kates identifies this transceiver as being based on “a TRF 6901 transceiver chip from Texas Instruments, Inc.” *Kates*, ¶[0051]. And because the base unit of Kates communicates with the repeater station, any transceiver components in the base unit of Kates must necessarily be compatible with such chips. Such chips, however, are not capable of communicating messages to a cellular remote unit via a cellular communications network, as recited in claim 1. Therefore, while the base unit of Kates can communicate with the repeater stations, it is not capable of communicating messages to a cellular remote unit via a cellular communications network.

Simply put, Kates does not teach or suggest how the communications between the user’s cell phone and the monitoring computer (with or without the base unit) occur. Kates teaches only that communications occurs. Certainly, there is nothing in Kates that teaches or suggests “a wireless circuit in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,” as recited in claim 1. And to assert otherwise is legal error. “[A]n obviousness rejection cannot be sustained by mere conclusory statements; there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *See KSR Int’l Co. v. Teleflex Inc.*,

127 S. Ct. 1727, 1741 (2007), quoting *In re Kahn*, 441 F. 3d 977, 988 (Fed. Cir. 2006). With all due respect, the requisite “rational underpinning” supporting the legal conclusion of obviousness is conspicuously absent from the rejection of claim 1. Applicant submits, therefore, that Kates does not support the rejection and should be withdrawn.

Should the Examiner seek to maintain the rejection, the Examiner is specifically requested to provide a citation in Kates that specifically identifies the claimed “wireless circuit in the [base unit and/or monitoring computer]” of Kates. Simply pointing to an overall ability to communicate is not enough with which to maintain the rejection of claim 1.

Regarding the secondary reference, Hager, it is cited only because it allegedly discloses a wall-mounted base unit. Like Kates, Hager does not teach or suggest “a wireless circuit in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network,” as recited in claim 1. Therefore, Hager fails to remedy the deficiencies of Kates. As such, the §103(a) rejection of claim 1 based on Kates in view of Hager is improper and should be withdrawn.

Independent Claims 16 and 20

Regarding independent claims 16 and 20, they remain finally rejected under 35 U.S.C. §103 as being obvious over Kates in view of Rusch (U.S. Pat. App. Pub. No. 2003/0100308A1), and in further view of Hager. However, the Advisory Action does not address these different rejections. Instead, the Advisory Action addresses only Applicants rebuttal of the rejection to independent claim 1. Respectfully, this is improper.

In order to provide a complete application file history and to enhance the clarity of the prosecution history record, an examiner must provide clear explanations of all actions taken by the examiner during prosecution of an application... Where the applicant traverses any rejection, the examiner should, if he or she repeats the rejection, take note of the applicant's argument and answer the substance of it.

MPEP §707.07(f) (emphasis added).

Nevertheless, claim 16 has been amended to recite, “a first wireless circuit communicatively coupled to the base unit configured to receive a first message from the cellular remote unit via a cellular communications network.” Claim 20 has been amended to recite, “a first wireless circuit communicatively coupled to in the base unit configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit.” For reasons similar to those stated above, neither Kates nor Hager, alone or in combination, teaches or suggests a wireless circuit, communicatively coupled to the base unit, that is configured to perform these functions (i.e., send and receive messages to/from a cellular remote unit via a cellular communications network). Moreover, Rusch fails to remedy these deficiencies.

Rusch discloses a mobile wireless device configured with a plurality of wireless interfaces. Each of the wireless interfaces enables the wireless device to communicate with a remote entity over a different network using an appropriate protocol. However, Rusch simply teaches a cellular telephone capable of communicating via a cellular network. Rusch does not teach or suggest a first wireless circuit that is associated with a base unit, and is configured to send and receive messages to/from a cellular remote unit via a cellular communications network, as recited in amended claims 16 and 20. As such, Rusch fails to remedy the above-noted deficiencies of Kates and Hager, alone and in combination, and the §103 rejections of claims 16 and 20 fail for at least this reason.

Dependent Claims

Dependent Claim 3

Applicant submits that all pending dependent claims are allowable over the cited art due at least to their dependencies on a respective one of the independent claims. However, Applicant specifically notes dependent claim 3, which stands rejected under 35 U.S.C. §103(a) as being obvious over Kates in view of Hager, and in further view of “Sinclair” (U.S. Pat. No.

7,127,270). Claim 3 further defines the command sent by the cellular remote unit and received at the base unit. In particular, claim 3 identifies the command as being “associated with an icon stored on [a] remote unit...[and]...transmitted over the cellular communications network.”

To reject claim 3, the Office notes that Sinclair teaches a remote device that displays icons to a user. The user can control various devices throughout his/her house by selecting an appropriate icon. Importantly, however, when the user selects an icon, the remote device sends a command directly to the object being controlled. There is no teaching or suggestion of the command being “transmitted over [a] cellular communications network,” as recited in claim 3.

Applicant notes that the Office cites Kates for this particular teaching. However, Kates and Sinclair cannot be combined as asserted by the Office. In particular, modifying Kates according to Sinclair would only configure the cellular telephone of Kates to transmit commands directly to the objects being controlled in the house. No commands would be sent over a wireless communications network, as recited in claim 3. This is due to the manner in which Sinclair teaches addressing the objects being controlled. Specifically, Sinclair teaches that the commands are sent to an object (e.g., a lamp) using a unique address. This address is required to specify both the function and location of the object being controlled, and therefore, is of the form “House.Room.Object.” See *Sinclair*, col. 13, ll. 30-33.

The need (and indeed the requirement) for unique addresses in Sinclair necessarily means that any attempt at modifying the cellular telephone of Kates as asserted by the Office would only produce a cellular telephone capable of directly controlling objects in the house via a direct communications link (i.e., not over the cellular network). The address required for sending the commands in Sinclair has no meaning to the cellular network, and no cellular network would be able to properly route the command to the desired object.

As for the final reference, Hager, it is not cited by the Examiner specifically to support the rejection of claim 3. This is not surprising, however, as Hager fails to remedy the

deficiencies of both Kates and Sinclair. Accordingly, Kates, Sinclair, and Hager all fail to teach or suggest, alone and in combination, the limitations of claim 3. Therefore, claim 3 is patentable over the cited art.

New Claims 23-24

Applicant notes that new claims 23-24 have been added for consideration by the Office. Dependent claim 23 depends directly from claim 1 and further recites the control of the cellular remote unit functions by the base unit. In particular, upon receipt of the first message at the cellular remote unit, the first message controls the cellular remote unit to display one or more graphical icons stored on the cellular remote unit. *E.g., Spec.*, ¶[0021]. None of the cited references, alone or in combination, teaches or suggests a base unit controlling a cellular remote unit to display one or more icons by sending that cellular control unit a message.

Dependent claim 24 depends directly from claim 16 and further clarifies that the first message ***is not received*** from the cellular remote unit in response to a previous message sent by the base unit to the remote cellular unit. That is, to receive the first message, the base unit does not have to do anything to cause the cellular remote unit to send the first message. For example, the base unit does not have to send a message to the cellular remote unit indicating the occurrence of an “alert” event. Rather, the base unit of claim 24 is configured to receive, and to respond to, individual commands and requests sent by the cellular remote unit without “triggering” the cellular remote unit to send those individual commands and requests. *E.g., Spec.*, ¶[0053].

While the cellular telephone in Kates sends commands to the monitoring computer, those commands are sent in reply to receiving an alert notification from the monitoring computer. Thus, Kates does something to cause the cellular telephone to send the commands. Kates does not teach or suggest that the monitoring computer receives commands from the

cellular telephone unless the monitoring computer sends a message (e.g., an alert notification) to “trigger” the cellular telephone to send the message.

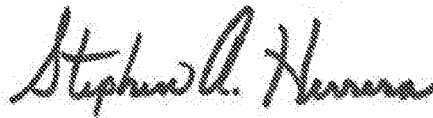
As for the remaining references, they, too, fail to teach or suggest this limitation. Thus, none of the cited references teaches or suggests the newly-added limitation of claim 24.

Conclusion

Finally, the instant application was filed with a Petition to Make Special and Applicant greatly appreciates the Examiner’s prompt consideration.

For the forgoing reasons, it is respectfully urged that the present application is in condition for allowance and notice to such effect is respectfully requested.

Respectfully submitted,
COATS & BENNETT, P.L.L.C.



Dated: June 13, 2018

Stephen A. Herrera
Registration No.: 47,642
Telephone: (919) 854-1844

Electronic Patent Application Fee Transmittal				
Application Number:		15405793		
Filing Date:		13-Jan-2017		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles Shamon		
Filer:		Stephen A. Herrera/Katya Fox		
Attorney Docket Number:		SHAM1010-2		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	2202	2	50	100
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
RCE- 1ST REQUEST	2801	1	650	650
Total in USD (\$)				750

Electronic Acknowledgement Receipt	
EFS ID:	32889451
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamoan
Customer Number:	24112
Filer:	Stephen A. Herrera/Katya Fox
Filer Authorized By:	Stephen A. Herrera
Attorney Docket Number:	SHAM1010-2
Receipt Date:	13-JUN-2018
Filing Date:	13-JAN-2017
Time Stamp:	16:18:12
Application Type:	Utility under 35 USC 111(a)

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Payment Type	EFT
Payment was successfully received in RAM	\$750
RAM confirmation Number	061418INTEFSW16183800
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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	RCE.pdf	1350124	no	3
			4060a43e7be4f8022ecc98cd850085707b4f98d9		
Warnings:					
Information:					
2		Amendments.pdf	90835	yes	16
			ae0f7e844240e1220dcd2769f66c1de258bb583b		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	7	
	Applicant Arguments/Remarks Made in an Amendment		8	16	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	32104	no	2
			d93b706d1e21bb80808c66ca90620bbc47fc70a5		
Warnings:					
Information:					
Total Files Size (in bytes):			1473063		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/405,793		Filing Date 01/13/2017		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (j), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	06/13/2018		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(j))		* 24		Minus	** 22	= 2		
	Independent (37 CFR 1.16(h))		* 3		Minus	***3	= 0		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$50 =		100	
						X \$230 =		0	
						TOTAL ADD'L FEE		100	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(j))		*		Minus	**	=		
	Independent (37 CFR 1.16(h))		*		Minus	***	=		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$ =			
						X \$ =			
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	SHAM1010-2	1009
24112 7590 07/02/2018 COATS & BENNETT, PLLC 1400 Crescent Green, Suite 300 Cary, NORTH CAROLINA 27518 UNITED STATES OF AMERICA			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 3648	PAPER NUMBER
			MAIL DATE 07/02/2018	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.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 13, 2018 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 16, and 20 have been considered but are moot because the arguments do not apply to the combination of references being used in the current rejection necessitated by the amendments to the claims.

Claim Rejections - 35 USC § 103

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

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1, 2, 4-21, and 24 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates 20050275530** in view of **Seo 7,209,487** and **Hager 20020024452**.

Regarding **claim 1**, Kates discloses a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote the base unit (cellular telephone 123, [0029]) comprising:

a wireless circuit in the base unit (The monitoring computer 113 has a base unit comprising a transceiver for wirelessly communicating with sensor units 102-106, (~wireless circuit), see figs. 1 and 4, [0057]).

Kates further discloses the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network (monitoring computer 113 determines whether the condition is an emergency and contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts the responsible personnel using one more of several communication systems such as telephone, pager, cellular telephone, or email (~contacts personnel's remote device); responsible personnel 120 (~using remote device/cellular telephone 123) sends instructions to monitoring computer 113, [0068], [0029]); a first communication interface configured to wirelessly receive environmental information from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor

Art Unit: 3648

unit, [0032], [0047]) and to wirelessly send a control instruction to the environmental device (“the computer 113 sends instructions to each sensor unit”, [0047], [0068]);

wherein the first message is a first digital communications message including a representation of the environmental information (“The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120”, [0032]);

wherein the second message is a second digital communications message including a command regarding the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]);

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and

wherein the command is initiated by a user via the cellular remote unit to change an environmental characteristic controlled by the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]).

While Kates discloses a wireless circuit in the base unit, Kates does not specifically disclose the wireless circuit in the base unit sends a first message via a cellular communications network and receive a second message from a cellular remote unit via the cellular communications network.

In an analogous art, Seo discloses a base unit (portable computer 10, see fig. 1, col. 2, lines 55-56) comprising a wireless circuit in the base unit (data communication card 100, see figs. 1 and 2, col. 3, lines 8-11) configured to send and receive messages from a cellular remote unit via a cellular communications network (portable computer 10, wherein high-speed wireless data communication is conducted by the portable computer 10 with another party using the card 100, via a cellular network (~CDMA communication), see figs. 1 and 2, col. 2, lines 55-62, col. 3, lines 8-21, and lines 41-44, col. 4, lines 7-11).

It would therefore have been obvious to one of ordinary skill in the art before the invention was made to combine the teaching of Seo with Kates by having a wireless interface circuit in the computer for communicating with the user or responsible party with a cellular telephone over a cellular telephone network, for the benefit of enabling the computer to simultaneously receive and transmit information wirelessly.

While Kates discloses a base unit performing all the functions set forth in claim 1, the combination of Kates and Seo does not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount

computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates as modified by Seo by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

Regarding **claim 2** as applied to claim 1, Kates further discloses wherein the command regards entering an energy conservation mode ([0069]-[0071]), and wherein the energy conservation mode is associated with multiple environmental devices ([0069]-[0071], optional temperature sensor and sensor unit 102, also see [0030]).

Regarding **claim 4** as applied to claim 1, Kates further discloses wherein the change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 5** as applied to claim 1, Kates further discloses wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting associated with the environmental device system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 6** as applied to claim 1, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claim 7** as applied to claim 1, Kates further discloses wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 8** as applied to claim 1, Kates further discloses wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 9** as applied to claim 1, Kates further discloses wherein the command is an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 10** as applied to claim 1, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]); wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]); wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 11** as applied to claim 10, Kates further discloses wherein the second message includes an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 12** as applied to claim 10, Kates further discloses wherein the microcontroller is configured to process the environmental information into

the representation ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]) and to process the command into the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 13** as applied to claim 1, Kates further discloses wherein the remote unit is a cellular telephone (cellular telephone 123, [0029]), and wherein the environmental device comprises a thermostat ([0051], [0069]-[0070]).

Regarding **claim 14** as applied to claim 1, Kates further discloses wherein the environmental device comprises light at least one of a light, thermostat or an alarm system ([0030], [0069]-[0070]).

Regarding **claim 15** as applied to claim 1, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 16**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible

personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113") the base unit comprising:

a second wireless circuit in the base unit configured to send a control instruction from the base unit to the environmental device (The monitoring computer 113 has a base unit comprising a transceiver for transmitting instructions to the sensor units 102-106, (~wireless circuit), see figs. 1 and 4, [0064], [0068]);

Kates further discloses that the base unit is configured to receive a first message from the cellular remote unit via a cellular communications network (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message)); wherein the first message is a first digital communications message including a command (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message)); and

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command; and to send the control instruction to the environmental device via the second wireless circuit ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, and the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (~control instruction based on command from personnel)), wherein the first message is received before sending the control instructions (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer

113, [0068], [0029] (~first message); in response, base unit sends shutoff commands to the sensor unit 102 (control instructions)); and

wherein the command is for the base unit, and wherein the command is initiated by a user from the cellular remote unit interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is based on the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

While Kates discloses the base unit receiving a first message via a cellular communications network and a second wireless circuit in the base unit, Kates does not specifically disclose a first wireless circuit communicatively coupled to the base unit configured to receive the first message via a cellular communications network.

In an analogous art, Seo discloses a base unit (portable computer 10, see fig. 1, col. 2, lines 55-56) comprising a first wireless circuit communicatively coupled to the base unit (data communication card 100, with CDMA MSM chip, see figs. 1 and 2, col. 3, lines 8-11 and 41-44) configured to receive a first message via a cellular communications network and to send a second message to a cellular remote unit via the cellular communications network (portable computer 10, wherein high-speed wireless data communication is conducted by the portable computer 10 with another party using the card 100, via a cellular network (~CDMA communication), see figs. 1 and 2, col. 2, lines 55-62, col. 3, lines 8-21, and lines 41-44, col. 4, lines 7-11).

It would therefore have been obvious to one of ordinary skill in the art before the invention was made to combine the teaching of Seo with Kates by having a wireless interface circuit in the computer for communicating with the user or responsible party with a cellular telephone over a cellular telephone network, for the benefit of enabling the computer to simultaneously receive and transmit information wirelessly.

While Kates as modified by Seo disclose a base unit performing all the functions set forth in claim 16, the combination of Kates and Seo do not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates as modified by Seo by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

Regarding **claim 17** as applied to claim 16, Kates further discloses wherein the first message is received from the cellular remote unit using a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claim 18** as applied to claim 16, Kates further discloses wherein cellular remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 19** as applied to claim 16, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 20**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113") the base unit comprising:

a second wireless circuit in the base unit configured to send a control construction from the base unit to the environmental device (The monitoring computer 113 has a base unit comprising a transceiver for transmitting instructions to the sensor units 102-106, (~wireless circuit), see figs. 1 and 4, [0064], [0068]), and to receive an environmental status from the environmental device (The monitoring computer 113 has a base unit comprising a transceiver for receiving data from the sensor units 102-106, (~wireless circuit), see figs. 1 and 4, [0031]-[0032], [0057]);

Kates further discloses that the base unit is configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message from the cellular remote unit via the cellular

communications network, wherein the first message is received before sending the second message (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message); the base unit continues to send information regarding the other sensors 103-106 to the responsible party 120 (via cellular telephone 23) based on sensor data received from the sensors 103-106 (~second message), see [0030]-[0032]); wherein the first message is a first digital communications message including a command (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message)); wherein the second message is a second digital communications message including the environmental status (the base unit continues to send information regarding the other sensors 103-106 to the responsible party 120 (via cellular telephone 23) based on sensor data received from the sensors 103-106 (~second message), see [0030]-[0032]);

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command; and to send the control instruction to the environmental device via the second wireless circuit ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (~*control instruction based on command from personnel*)); and wherein the command is for the base unit, and wherein the command is initiated by a user from the cellular remote unit interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off

instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is based on the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

While Kates discloses a second wireless circuit in the base unit and the base unit receiving a first message via a cellular communications network and sending a second message to a cellular remote unit via the cellular communications network, Kates does not specifically disclose a first wireless circuit communicatively coupled to the base unit configured to receive the first message via a cellular communications network and to send the second message to a cellular remote unit via the cellular communications network.

In an analogous art, Seo discloses a base unit (portable computer 10, see fig. 1, col. 2, lines 55-56) comprising a first wireless circuit communicatively coupled to the base unit (data communication card 100, with CDMA MSM chip, see figs. 1 and 2, col. 3, lines 8-11 and 41-44) configured to receive a first message via a cellular communications network and to send a second message from a cellular remote unit via the cellular communications network (portable computer 100, wherein high-speed wireless data communication is conducted by the portable computer 10 with another party using the card 100, via a cellular network (*~CDMA communication*), see figs. 1 and 2, col. 2, lines 55-62, col. 3, lines 8-21, and lines 41-44, col. 4, lines 7-11).

It would therefore have been obvious to one of ordinary skill in the art before the invention was made to combine the teaching of Seo with Kates by having a wireless

interface circuit in the computer for communicating with the user or responsible party with a cellular telephone over a cellular telephone network, for the benefit of enabling the computer to simultaneously receive and transmit information wirelessly.

While Kates as modified by Seo disclose a base unit performing all the functions set forth in claim 16, the combination of Kates and Seo do not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates as modified by Seo by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

Regarding **claim 21** as applied to claim 1, Kates as modified by Hager disclose the claimed invention. Kates further discloses wherein the base station is configured to receive a third message from an external web service, wherein the third message includes a second command regarding the environmental device ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102". Instructions sent by the personnel 120 is over the Internet (~external web service) [0029], [0068].

The monitoring unit also sends instructions to the sensor unit 102, to change the sleep period, listen period, etc, see [0064]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the responsible party 120 to instruct the monitoring computer 113 to change the monitoring patterns of the sensor units 102 for the benefit of changing the pattern of operation of the sensor units between periodic and continuous monitoring based on whether an environmental condition is detected.

Regarding **claim 24** as applied to claim 16, Kates further discloses wherein the first message is not received from the cellular remote unit in response to a previous message sent by the base unit to the remote cellular unit (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message) based on information received from sensor 102; the base unit continues to send information regarding the other sensors 103-106 to the responsible party 120 (via cellular telephone 23) based on sensor data received from the sensors 103-106, see [0030]-[0032]).

5. Claims 3 and 22 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Seo 7,209,487** and **Hager 20020024452** as applied to claim 1 above, and further in view of **Sinclair 7,127,270**.

Regarding **claim 3** as applied to claim 1, Kates as modified by Seo and Hager discloses the claimed limitation. Kates further discloses wherein the command (associated with a user response) is transmitted over the cellular communications network ("the responsible party 120 sends instructions to the monitoring computer 113

instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102". Instructions sent by the personnel 120 via the cellular telephone 123 is over a cellular network, see [0029], [0068]). However, Kates as modified by Seo and Hager does not expressly disclose wherein the command is associated with an icon on the remote unit. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices, and transmitting the command associated with the user icon to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates as modified by Seo and Hager by incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Regarding **claim 22** as applied to claim 1, Kates as modified by Seo and Hager discloses the claimed limitation. Kates further discloses wherein the command is a command string (responsible party sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to sensor 102, see [0068]). However Kates does not expressly disclose wherein the command is a command string associated with an icon. However, in an analogous art, Sinclair an icon associated with command strings to control remote devices, and transmitting the

command associated with the user icon to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates as modified by Seo and Hager by incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

6. Claim 23 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Seo 7,209,487** and **Hager 20020024452** as applied to claim 16 above, and further in view of **Lindsey 20040116822**.

Regarding **claim 23** as applied to claim 1, Kates as modified by Seo and Hager disclose the claimed invention except wherein the first message sent to the remote unit via the cellular network controls the cellular remote unit to display one or more icons stored on the cellular remote unit responsive to receiving the first message. However, in the same field of endeavor, Lindsey discloses controlling a remote unit to display one or more icons stored on the remote unit responsive to wirelessly receiving a message (see figs. 1A-1C, fig. 2A, [0013], [0028], [0034]; receiving measured temperatures from sensors at a remote host, and displaying a visual alarm indicator on a display based on the received measured temperature).

It would therefore have been obvious to one of ordinary skill in the art at the time

the invention was made to combine the teaching of Lindsey into the system of Kates as modified by Seo and Hager by displaying an icon/visual indicator on the responsible party's cellular telephone in response to determining an environmental condition and transmitting information regarding the condition to the responsible party's device, for the benefit of notifying the responsible party of a dangerous condition.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Petite 20020019725.

Whitney 20020013162.

Saadeh et al 20020006812.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on Monday-Friday 8AM-4PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, VLADIMIR MAGLOIRE can be reached on 571-270-5144. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/OLUMIDE AJIBADE AKONAI/
Primary Examiner, Art Unit 3648

<i>Notice of References Cited</i>	Application/Control No. 15/405,793		Applicant(s)/Patent Under Reexamination Shamoon et al.	
	Examiner OLUMIDE T AJIBADE AKONAI		Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20020019725-A1	02-2002	Petite, Thomas D.	G05B23/0208	702/188
*	B	US-20020013162-A1	01-2002	Whitney, Ray	H04M1/253	455/557
*	C	US-20020006812-A1	01-2002	Saadeh, Said S.	H04M1/725	455/557
*	D	US-20040116822-A1	06-2004	Lindsey, Carol	G01K1/024	600/549
*	E	US-7209487-B2	04-2007	Seo; Jeong-Hyun	H04L12/5692	370/401
	F					
	G					
	H					
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	L					
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FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20180629

<i>Index of Claims</i> 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoan et al.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 2641

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	07/10/2017	03/08/2018	06/29/2018						
	1	✓	✓	✓						
	2	✓	✓	✓						
	3	✓	✓	✓						
	4	✓	✓	✓						
	5	✓	✓	✓						
	6	✓	✓	✓						
	7	✓	✓	✓						
	8	✓	✓	✓						
	9	✓	✓	✓						
	10	✓	✓	✓						
	11	✓	✓	✓						
	12	✓	✓	✓						
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	14	✓	✓	✓						
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	21		✓	✓						
	22		✓	✓						
	23			✓						
	24			✓						

<i>Search Notes</i> 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoon et al.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 2641

CPC - Searched*		
Symbol	Date	Examiner
H04W84/18 84/12 4/043 48/16 4/20	7/10/2017	OA
G08B21/182 1/08 25/009 17/10 25/007 25/10 27/005	7/10/2017	OA
G08B27/00 25/016 19/00 21/02 21/12 21/18 7/06 25/10	3/8/2018	OA
H04W4/22 4/90 76/007 76/50	3/8/2018	OA
H04M2250/02 1/72533 1/6016 1/7253 1/72527	06/29/2018	OA
H04W88/02 84/042 84/14 88/021 92/02 76/10 88/06	06/29/2018	OA

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
EAST search	7/10/2017	OA
EAST search	3/8/2018	OA
EAST search	06/29/2018	OA

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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

<i>Search Notes</i> 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoon et al.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 2641

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	369	sensor\$1 with (temperature heat humidity moisture fire smoke) same (alarm warn\$3 alert\$3) same (display\$3 GUI LCD screen) same (flag\$1 icon\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/29 20:27
L9	136	8 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/29 20:30
S150	4274	sensor with (repeater relay) same (transmit\$4 send\$3 sent forward\$3) same (user subscriber cell\$1phone ((wireless cellular mobile) near2 (terminal station device phone)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/26 07:19
S151	420	S150 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/26 07:19
S152	6352	sensor with (repeater relay "base unit" computer) same (transmit\$4 send\$3 sent forward\$3) same (cellular GSM CDMA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 07:09
S153	2848	sensor with (repeater relay "base unit" computer) same (transmit\$4 send\$3 sent forward\$3) same (cellular GSM CDMA) near5 (cell\$1phone ((wireless mobile cellular) near2 (device terminal station phone)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 07:11
S154	2186	sensor with (repeater relay "base unit" computer) same (transmit\$4 send\$3 sent forward\$3) with (cellular GSM CDMA) near5 (cell\$1phone ((wireless mobile cellular) near2 (device terminal station phone)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 07:12
S155	2679	sensor with (repeater relay "base unit" computer) same (transmit\$4 send\$3 sent forward\$3) with (cellular GSM CDMA) with (cell\$1phone ((wireless mobile cellular) near2 (device terminal station phone)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 07:12
S156	188	sensor with (repeater relay "base unit" computer) near6 (transmit\$4 send\$3 sent forward\$3) with (cellular GSM CDMA) with (cell\$1phone ((wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	2018/06/27 07:13

		mobile cellular) near2 (device terminal station phone)))	JPO; DERWENT; IBM_TDB			
S157	47	S156 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/27 07:14
S158	44	("4772876" "5381136" "5572192" "5717378").PN. OR ("5861804").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/06/27 07:18
S159	131	S155 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/27 07:21
S160	84	S159 not (S157 S158)	US-PGPUB; USPAT	OR	OFF	2018/06/27 07:22
S161	708	S152 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/27 07:54
S162	3950	sensor with (repeater relay "base unit" computer) same (transmit\$4 send\$3 sent forward\$3) with (cellular GSM CDMA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 07:55
S163	370	S162 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/27 07:55
S164	239	S163 not (S157 S158 S159)	US-PGPUB; USPAT	OR	OFF	2018/06/27 07:55
S165	2579	computer near5 (transceiver (transmitter and receiver)) with (cellular GSM CDMA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 08:39
S166	1033	S165 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/27 08:40
S167	191	computer near5 (transceiver (transmitter and receiver)) with (cellular GSM CDMA) same sensor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 08:41
S168	61	S167 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/27 08:42
S169	20	computer with (transceiver (transmitter and receiver)) near5 (cellular GSM CDMA) near5 (detach\$4 attach\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 08:47
S170	43	computer same (transceiver (transmitter and receiver)) near8 (cellular GSM CDMA) near7 (detach\$4 attach\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/27 08:50
S171	393	(repeater relay "base unit" computer)	US-PGPUB;	OR	ON	2018/06/27

EAST Search History

		with (transmit\$4 send\$3 sent forward\$3) with (cellular GSM CDMA) and 455/556.1,557.ccls.	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:54
S172	277	S171 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2018/06/27 08:54
S173	277	S172 not S170	US-PGPUB; USPAT	OR	OFF	2018/06/27 08:54
S174	10	("20050089052" "5889816" "6654616" "6785556" "6915142" "6928301" "7110444").PN. OR ("7209487").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/06/27 09:17
S175	10	("20050089052" "5889816" "6654616" "6785556" "6915142" "6928301" "7110444").PN. OR ("7209487").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/06/27 09:28
S176	176	S172 AND ((H04M2250/02 OR H04M1/72533 OR H04M1/6016 OR H04M1/7253 OR H04M1/72527 OR H04W88/02 OR H04W84/042 OR H04W84/14 OR H04W88/021 OR H04W92/02 OR H04W76/10 OR H04W88/06 OR G06F1/1632).CPC.)	US-PGPUB; USPAT	OR	OFF	2018/06/27 09:31
S177	1	"7121270".pn.	USPAT	OR	OFF	2018/06/29 13:50
S178	1	"7127270".pn.	US-PGPUB; USPAT	OR	OFF	2018/06/29 13:51

EAST Search History (I nterference)

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6/ 29/ 2018 9:31:35 PM**C:\ Users\ oajibadeakonai\ Documents\ EAST\ Workspaces\ 15405793.wsp**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Charles Shamoon <i>et al.</i>	)	
	)	
Serial No.: 15/405,793	)	
	)	
Filed: January 13, 2017	)	Examiner: Olumide Ajibade Akonai
	)	
For: Ubiquitous Connectivity and Control	)	Group Art Unit: 2641
System for Remote Locations	)	
	)	Confirmation No.: 1009
Docket No: 7688-001	)	
	)	
	)	
	)	
	)	

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

RESPONSE TO NON-FINAL OFFICE ACTION

This paper is being filed in response to the Non-Final Office Action mailed July 2, 2018, having a reply due date of October 2, 2018. Reconsideration is respectfully requested in light of the amendments and/or remarks below. The Office is hereby authorized to charge any fees required for entry of this paper to Deposit Account 18-1167.

CLAIMS LISTING

1. (Currently Amended) A base unit configured to communicate with an environmental device and to ~~communication~~ communicate with a cellular remote the base unit comprising:
 - a wireless circuit in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network, wherein the base unit is wall mountable;
 - a first communication interface configured to wirelessly receive environmental information from the environmental device and to wirelessly send a control ~~instructions~~ instruction to the environmental device;
 - wherein the first message is a first digital communications message including a representation of the environmental information;
 - wherein the second message is a second digital communications message including a command regarding the environmental device;
 - a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instructions to the environmental device via the first communication interface; and
 - wherein the command is initiated by the user via the cellular remote unit to change an environmental characteristic controlled by the environmental device.
2. (Previously Presented) The base unit of claim 1, wherein the command regards entering an energy conservation mode, and wherein the energy conservation mode is associated with multiple environmental devices.

3. (Previously Presented) The base unit of claim 1, wherein the command is associated with an icon stored on the remote unit, wherein the command associated with the icon is transmitted over the cellular communications network.
4. (Previously Presented) The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off.
5. (Previously Presented) The base unit of claim 1, wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting associated with the environmental device.
6. (Previously Presented) The base unit of claim 1, wherein the cellular communications network includes a data bearer service.
7. (Previously Presented) The base unit of claim 1, wherein the remote unit is a mobile remote unit.
8. (Previously Presented) The base unit of claim 1, wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.
9. (Previously Presented) The base unit of claim 1, wherein the command is an energy conservation command associated with multiple environmental devices.

10. (Previously Presented) The base unit of claim 1,
wherein the cellular communications network includes a data bearer service; wherein the
remote unit is a mobile remote unit;
wherein the control instruction includes an environmental control instruction; and
wherein the command includes an environmental command.
11. (Previously Presented) The base unit of claim 10, wherein the second message includes an
energy conservation command associated with multiple environmental devices.
12. (Currently Amended) The base unit of claim 10, wherein the microcontroller is configured to
process the environmental information into the representation and to process the command into
the control ~~instructions~~ instruction.
13. (Previously Presented) The base unit of claim 1, wherein the remote unit is a cellular
telephone, and wherein the environmental device comprises a thermostat.
14. (Currently Amended) The base unit of claim 1, wherein the environmental device comprises
at least one of a light, thermostat, or an alarm system.
15. (Previously Presented) The base unit of claim 1, wherein the base unit and the
environmental device are contained in the same enclosure.

16. (Currently Amended) A base unit configured to communicate with an environmental device and to communicate with a cellular remote, the base unit comprising:

a first wireless circuit communicatively coupled to the base unit configured to receive a first message from the cellular remote unit via a cellular communications network, wherein the base unit is wall mountable;

a second wireless circuit in the base unit configured to send a control instruction from the base unit to the environmental device;

wherein the first message is a first digital communications message including a command;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command, and to send the control ~~instructions~~ instruction to the environmental device via the second wireless circuit, wherein the first message is received before sending the control ~~instructions~~ instruction; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

17. (Previously Presented) The base unit of claim 16, wherein the first message is received from the cellular remote unit using a data bearer service.

18. (Previously Presented) The base unit of claim 16, wherein cellular remote unit is a mobile remote unit.

19. (Previously Presented) The base unit of claim 16, wherein the base unit and the environmental device are contained in the same enclosure.

20. (Previously Presented) A base unit configured to communicate with an environmental device and to communicate with a cellular remote, the base unit comprising:

a first wireless circuit communicatively coupled to in the base unit configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message, wherein the base unit is wall mountable;

a second wireless circuit in the base unit configured to send a control instruction from the base unit to the environmental device, and to receive an environmental status from the environmental device;

wherein the first message is a first digital communications message including a command; wherein the second message is a second digital communications message including the environmental status;

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command; and to send the control instruction to the environmental device via the second wireless circuit; and

wherein the command is for the base unit, and wherein the command is initiated by a user via the cellular remote unit; and

wherein the control instruction to the environmental device is based on the command for the base unit.

21. (Previously Presented) the base unit of claim 1, wherein the base unit is configured to receive a third message from an external web service, wherein the third message includes a second command regarding the environmental device.

22. (Previously Presented) The base unit of claim 1, wherein the command is a command string associated with an icon.

23. (Previously Presented) The base unit of claim 1, wherein the first message sent to the cellular remote unit via the cellular communications network controls the cellular remote unit to display one or more icons stored on the cellular remote unit responsive to receiving the first message.

24. (Previously Presented) The base unit of claim 16, wherein the first message is not received from the cellular remote unit in response to a previous message sent by the base unit to the remote cellular unit.

25. (New) A base unit configured to communicate with an environmental device and with a cellular remote device, the base unit comprising:

a first wireless communications circuit configured to:

receive a first data message from the cellular remote device unit via a cellular communications network, the first data message comprising a control command for the environmental device; and

send a second data message to the cellular remote device via the cellular communications network, the second data message comprising data indicating environmental information associated with the environmental device;

processing circuitry configured to generate a control instruction based on the control command received from the cellular remote, wherein the control instruction configures the environmental device to perform a corresponding function; and

a second wireless communications circuit configured to:

receive the environmental information from the environmental device; and

send the control instruction to the environmental device.

REMARKS

Claims Amendments

Claims 1, 12, 14, and 16 have been amended in this response. The amendments are not for reasons to define over the cited art and do not affect the scope of the claims. Rather, the amendments merely correct minor inconsistencies in wording between the claims filed by former counsel in a response dated January 13, 2017, and the previous response filed by the undersigned attorney on May 16, 2018. The inconsistencies were inadvertent. Additionally, claim 25 has been added for consideration by the Examiner. No new matter has been added.

35 U.S.C. §103(a) Rejections

Claim 1 is directed to a base unit configured to communicate with both an environmental device and a cellular remote, and stands rejected under 35 U.S.C. §103(a) as being obvious over “Kates” (U.S. Pat. App. Pub. No. 2005/0275530) in view of newly-cited “Seo” (U.S. Pat. No. 7,209,487), and in further view of “Hager” (U.S. Pat. App. Pub. No. 2002/0024452). Applicant disagrees. None of the cited references, alone or in combination, teaches or suggests a base unit comprising “a wireless circuit in the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network... wherein the first message is a first digital communications message including a representation of the environmental information...[and]... wherein the second message is a second digital communications message including a command regarding the environmental device.”

In the Office Action, the Examiner acknowledges that both Kates and Hager fail, alone and in combination, to teach or suggest this limitation. However, Seo fails to remedy this deficiency. Seo discloses a pluggable, high-speed wireless data communications card that configures a computer for simultaneous communication with a cellular network, as well as with a LAN, using a single antenna. According to Seo, the card comprises a wireless LAN (Local Area

Network) module for performing data communication over the LAN, and a separate CDMA (Code Division Multiple Access) module for performing wireless data communication over a mobile communication network. Seo, col. 2, ll. 4-12.

The Examiner cites Seo to show that computers were capable of sending and receiving data messages via a cellular network at the time the claimed invention was made. Scrutiny reveals, however, that Seo discloses voice-only communications with a CDMA network via a CDMA module – not data messages that include a command for controlling an environmental device, as recited in claim 1. This is evidenced by the components in Figure 2 of the cited reference. As seen in this figure, the card (100) of Seo includes a CDMA module (130) and an antenna (ANT) configured to communicate voice with a CDMA network. To communicate data messages, however, the disclosed card requires a separate wireless LAN module (120). Both the LAN module and the CDMA module utilize the same antenna. Importantly, however, the LAN module of Seo communicates only with the LAN– not the CDMA network.

In the case where the user selects the simultaneous wireless LAN/CDMA communication mode, the portable computer first operates an application program for wireless LAN communication, thereby enabling the user to conduct data communication. At this time, if the user desires to conduct voice communication through the CDMA module, the portable computer operates an application program for the voice communication and the user enters another party's telephone number. The entered telephone number is RF processed by the CDMA module and then transmitted to a base station through the antenna.

Seo, col. 4, ll. 15-25 (emphasis added).

Applicant submits that by including the LAN module in the communications card specifically to communicate data messages, Seo teaches away from utilizing the CDMA module to perform anything other than voice communications. Indeed, given the presence and functional capabilities of the LAN module, there is no need for Seo to utilize the CDMA module to also send and receive first and second messages that respectively include “a representation of the environmental information” and “a command regarding the environmental device,” as recited in claim 1. Accordingly, Seo does not remedy the deficiencies experienced by both

Kates and Hager.

Because each of the cited references alone fail to teach or suggest the above-quoted limitation of claim 1, the combination of the cited references necessarily fails to teach or suggest the above-quoted limitation of claim 1. Moreover, because Seo utilizes a LAN module to send and receive data messages, it teaches away from using the CDMA module to communicate with a cellular communications network for anything other than voice communications. Indeed, due to the LAN module in Seo, there is no need to use the CDMA module for anything other than voice communications. As such, the §103 rejection of claim 1 fails and should be withdrawn.

Regarding the other claims, independent claim 16 is directed to a base unit configured to communicate with both an environmental device and a cellular remote and recites “a first wireless circuit communicatively coupled to the base unit configured to receive a first message from the cellular remote unit via a cellular communications network...wherein the first message is a first digital communications message including a command.” Claim 20 is also directed to a base unit configured to communicate with both an environmental device and a cellular remote and recites, “a first wireless circuit communicatively coupled to in the base unit configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message to the cellular remote unit, wherein the first message is received before sending the second message.” For reasons similar to those stated above with respect to independent claim 1, claims 16 and 20 are each patentably non-obvious over the cited art.

As for the dependent claims, they are all allowable over the cited art due at least to their dependencies on a respective one of the independent claims.

New Claim 25

New claim 25 has been added for consideration by the Examiner. Claim 25 is also directed to a base unit configured to communicate with an environmental device and with a cellular remote device. Claim 25 recites, “a first wireless communications circuit configured

to...receive a first data message from the cellular remote device unit via a cellular communications network, the first data message comprising a control command for the environmental device...and...send a second data message to the cellular remote device via the cellular communications network, the second data message comprising data indicating environmental information associated with the environmental device.” For reasons similar to those stated above, the cited art does not teach or suggest the first wireless communications circuit. Accordingly, none of the cited references, alone or in combination, teaches or suggests claim 25.

Conclusion

For at least the forgoing reasons, it is respectfully urged that the present application is in condition for allowance and notice to such effect is respectfully requested. Further, Applicant respectfully reminds the Office that the instant application was filed with a Petition to Make Special, and Applicant greatly appreciates the Examiner’s prompt consideration of this response.

Respectfully submitted,
COATS & BENNETT, P.L.L.C.



Stephen A. Herrera
Registration No.: 47,642
Telephone: (919) 854-1844

Dated: September 14, 2018

Electronic Patent Application Fee Transmittal				
Application Number:		15405793		
Filing Date:		13-Jan-2017		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles Shamoon		
Filer:		Stephen A. Herrera/Leslie Ruckdeschel		
Attorney Docket Number:		7688-001		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	1	100	100
INDEPENDENT CLAIMS IN EXCESS OF 3	1201	1	460	460
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				560

Electronic Acknowledgement Receipt	
EFS ID:	33722299
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamoan
Customer Number:	24112
Filer:	Stephen A. Herrera/Leslie Ruckdeschel
Filer Authorized By:	Stephen A. Herrera
Attorney Docket Number:	7688-001
Receipt Date:	14-SEP-2018
Filing Date:	13-JAN-2017
Time Stamp:	11:37:01
Application Type:	Utility under 35 USC 111(a)

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Payment Type	EFT
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RAM confirmation Number	091418INTEFSW11373600
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File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response_OA.pdf	163165	yes	12
			e1736ca55c5e98c3d1913e3f360ef9317a0953dd		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	8	
	Applicant Arguments/Remarks Made in an Amendment		9	12	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32334	no	2
			3b4dae4d6f72e8f2f2ef9a574b387bcf965ef68c7		
Warnings:					
Information:					
Total Files Size (in bytes):			195499		

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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.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/405,793		Filing Date 01/13/2017		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	09/14/2018		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		* 25		Minus	** 24	= 1		
	Independent (37 CFR 1.16(h))		* 4		Minus	***3	= 1		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$50 =		50	
						X \$230 =		230	
						TOTAL ADD'L FEE		280	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))		*		Minus	**	=		
	Independent (37 CFR 1.16(h))		*		Minus	***	=		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						RATE (\$)		ADDITIONAL FEE (\$)	
						X \$ =			
						X \$ =			
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									
SLIE LISA WRIGHT									

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	7688-001	1009
24112 7590 10/22/2018 COATS & BENNETT, PLLC 1400 Crescent Green, Suite 300 Cary, NC 27518			EXAMINER AJIBADE AKONAI, OLUMIDE	
			ART UNIT 3648	PAPER NUMBER
			MAIL DATE 10/22/2018	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.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed September 14, 2018 have been fully considered but they are not persuasive. Regarding claims 1, 12, 14, and 16, the applicant asserts that Seo discloses voice-only communications with a CDMA network via a CDMA module, and not data messages, thus Seo teaches away from using the CDMA module to communicate with a cellular communications network for anything other than voice communications. The applicant further asserts that it is the LAN module, not the CDMA module in Seo that is used for data communications. The examiner respectfully disagrees. The columns and lines in Seo cited by the applicant as teaching away from utilizing the CDMA module for voice communications only is simultaneous LAN/CDMA communication mode. However, Seo also discloses two other modes, a LAN communication mode and a CDMA communication mode (see col. 4, lines 7-11). Selecting the CDMA mode enables wireless communication using the CDMA module 130. The CDMA module 130 can be a MSM 5105 chip available from Qualcomm (see fig. 2, col. 3, lines 41-44). The MSM 5105 chip is mobile system chip for CDMA 2000, which is a 3G technology standard for sending data and voice. Therefore, Seo does not teach away from utilizing the CDMA module to perform data communications. The 35 U.S.C. 103(a) rejection of claims 1-25 is therefore maintained.

Claim Rejections - 35 USC § 103

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

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claim 25 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates 20050275530** in view of **Seo 7,209,487**.

Regarding **claim 25**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device (monitoring computer 113 to send water shut off instructions to the sensor unit 102, [0068], wherein the sensor unit 102 is being read as the environmental device), and with a cellular remote device ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113"), the base unit comprising:

a second wireless communication circuit configured to: **receive environmental information from the environmental device** (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental

device/sensor unit, [0032], [0047]); send a control instruction to the environmental device (The monitoring computer 113 has a base unit 112 comprising a transceiver for transmitting instructions to the sensor units 102-106, see figs. 1 and 4, [0064], [0068]);

Kates further discloses that the base unit is configured to: receive a first **data** message from the cellular remote unit via a cellular communications network (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message)); the first **data** message **comprising a control command for the environmental device** (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029]); and **send a second data message to the cellular remote device via the cellular communications network, the second message comprising data indicating environmental information associated with the environmental device** (monitoring computer 113 determines whether the condition is an emergency and contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts the responsible personnel using one more of several communication systems such as telephone, pager, cellular telephone, or email (*~using remote device/cellular telephone 123*), see fig. 1, [0029], [0032]); and

processing circuitry configured to generate a control instruction based on the control command received from the cellular remote, wherein the control instruction configures the environmental device to perform a corresponding function (see figs. 1 and 4, [0029], [0032], [0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring

computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)).

While Kates discloses the base unit receiving a first data message and sending the second data message via a cellular communications network, and a second wireless circuit in the base unit, Kates does not specifically disclose the base unit comprising a first wireless communications circuit configured to receive the first data message and send the second data message via a cellular communications network.

In an analogous art, Seo discloses a base unit (portable computer 10, see fig. 1, col. 2, lines 55-56) comprising a wireless communication circuit coupled to the base unit (data communication card 100, with CDMA MSM chip, see figs. 1 and 2, col. 3, lines 8-11 and 41-44) and configured to receive a first data message via a cellular communications network and to send a second data message to a cellular remote unit via the cellular communications network (portable computer 10, wherein high-speed wireless data communication is conducted by the portable computer 10 with another party using the card 100, via a cellular network (*~CDMA communication*), see figs. 1 and 2, col. 2, lines 55-62, col. 3, lines 8-21, and lines 41-44, col. 4, lines 7-14).

It would therefore have been obvious to one of ordinary skill in the art before the invention was made to combine the teaching of Seo with Kates by having a wireless interface circuit in the computer for communicating with the user or responsible party with a cellular telephone over a cellular telephone network, for the benefit of enabling the computer to simultaneously receive and transmit information wirelessly.

4. Claims 1, 2, 4-21, and 24 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates 20050275530** in view of **Seo 7,209,487** and **Hager 20020024452**.

Regarding **claim 1**, Kates discloses a base unit (“monitoring computer 113”, [0068]) configured to communicate with an environmental device (“monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote the base unit (cellular telephone 123, [0029]) comprising:

a wireless circuit in the base unit (The monitoring computer 113 has a base unit comprising a transceiver for wirelessly communicating with sensor units 102-106, (~wireless circuit), see figs. 1 and 4, [0057]).

Kates further discloses the base unit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network (monitoring computer 113 determines whether the condition is an emergency and contacts the appropriate personnel 120 via cellular telephone 12, [0029]. The monitoring computer 113 contacts the responsible personnel using one more of several communication systems such as telephone, pager, cellular telephone, or email (~contacts personnel's remote device); responsible personnel 120 (~using remote device/cellular telephone 123) sends instructions to monitoring computer 113, [0068], [0029]); a first communication interface configured to wirelessly receive environmental information from the environmental device (computer 113, with base unit 112 attached to it, receives environmental reporting information from the environmental device/sensor

unit, [0032], [0047]) and to wirelessly send a control instruction to the environmental device (“the computer 113 sends instructions to each sensor unit”, [0047], [0068]);

wherein the first message is a first digital communications message including a representation of the environmental information (“The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120”, [0032]);

wherein the second message is a second digital communications message including a command regarding the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]);

a microcontroller configured to process the second message, to provide the control instruction based on the command, and to send the control instruction to the environmental device via the first communication interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (*~control instruction based on command from personnel*)); and

wherein the command is initiated by a user via the cellular remote unit to change an environmental characteristic controlled by the environmental device (“the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102”, [0068]).

While Kates discloses a wireless circuit in the base unit, Kates does not specifically disclose the wireless circuit in the base unit sends a first message via a cellular communications network and receive a second message from a cellular remote unit via the cellular communications network.

In an analogous art, Seo discloses a base unit (portable computer 10, see fig. 1, col. 2, lines 55-56) comprising a wireless circuit in the base unit (data communication card 100, see figs. 1 and 2, col. 3, lines 8-11) configured to send and receive messages from a cellular remote unit via a cellular communications network (portable computer 10, wherein high-speed wireless data communication is conducted by the portable computer 10 with another party using the card 100, via a cellular network (~CDMA communication), see figs. 1 and 2, col. 2, lines 55-62, col. 3, lines 8-21, and lines 41-44, col. 4, lines 7-11).

It would therefore have been obvious to one of ordinary skill in the art before the invention was made to combine the teaching of Seo with Kates by having a wireless interface circuit in the computer for communicating with the user or responsible party with a cellular telephone over a cellular telephone network, for the benefit of enabling the computer to simultaneously receive and transmit information wirelessly.

While Kates discloses a base unit performing all the functions set forth in claim 1, the combination of Kates and Seo does not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount

computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates as modified by Seo by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

Regarding **claim 2** as applied to claim 1, Kates further discloses wherein the command regards entering an energy conservation mode ([0069]-[0071]), and wherein the energy conservation mode is associated with multiple environmental devices ([0069]-[0071], optional temperature sensor and sensor unit 102, also see [0030]).

Regarding **claim 4** as applied to claim 1, Kates further discloses wherein the change in the environmental characteristic associated with the environmental device is to turn the environmental device on or off system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 5** as applied to claim 1, Kates further discloses wherein the change in the environmental characteristic associated with the environmental device is to raise or lower a setting associated with the environmental device system ([0068], shutting of gas to water heater or furnace).

Regarding **claim 6** as applied to claim 1, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claim 7** as applied to claim 1, Kates further discloses wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 8** as applied to claim 1, Kates further discloses wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 9** as applied to claim 1, Kates further discloses wherein the command is an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 10** as applied to claim 1, Kates further discloses wherein the cellular communications network includes a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]); wherein the remote unit is a mobile remote unit (cellular telephone 123, [0029]); wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command (instructions to shut off water or gas valve are environmental instructions comprising a command, [0068]).

Regarding **claim 11** as applied to claim 10, Kates further discloses wherein the second message includes an energy conservation command associated with multiple environmental devices (instructions to shut off water or gas valve are environmental instructions are energy conservation commands, [0068]-[0071]).

Regarding **claim 12** as applied to claim 10, Kates further discloses wherein the microcontroller is configured to process the environmental information into

the representation ("The computer 113 evaluates the data and takes appropriate action. If the computer 113 determines that the condition is an emergency (e.g., fire, smoke, large quantities of water), then the computer 113 contacts the appropriate personnel 120", [0032]) and to process the command into the control instruction (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

Regarding **claim 13** as applied to claim 1, Kates further discloses wherein the remote unit is a cellular telephone (cellular telephone 123, [0029]), and wherein the environmental device comprises a thermostat ([0051], [0069]-[0070]).

Regarding **claim 14** as applied to claim 1, Kates further discloses wherein the environmental device comprises light at least one of a light, thermostat or an alarm system ([0030], [0069]-[0070]).

Regarding **claim 15** as applied to claim 1, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 16**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible

personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113") the base unit comprising:

a second wireless circuit in the base unit configured to send a control instruction from the base unit to the environmental device (The monitoring computer 113 has a base unit comprising a transceiver for transmitting instructions to the sensor units 102-106, (~wireless circuit), see figs. 1 and 4, [0064], [0068]);

Kates further discloses that the base unit is configured to receive a first message from the cellular remote unit via a cellular communications network (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message)); wherein the first message is a first digital communications message including a command (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message)); and

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command; and to send the control instruction to the environmental device via the second wireless circuit ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, and the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (~control instruction based on command from personnel)), wherein the first message is received before sending the control instruction (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer

113, [0068], [0029] (~first message); in response, base unit sends shutoff commands to the sensor unit 102 (control instructions)); and

wherein the command is for the base unit, and wherein the command is initiated by a user from the cellular remote unit interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is based on the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

While Kates discloses the base unit receiving a first message via a cellular communications network and a second wireless circuit in the base unit, Kates does not specifically disclose a first wireless circuit communicatively coupled to the base unit configured to receive the first message via a cellular communications network.

In an analogous art, Seo discloses a base unit (portable computer 10, see fig. 1, col. 2, lines 55-56) comprising a first wireless circuit communicatively coupled to the base unit (data communication card 100, with CDMA MSM chip, see figs. 1 and 2, col. 3, lines 8-11 and 41-44) configured to receive a first message via a cellular communications network and to send a second message to a cellular remote unit via the cellular communications network (portable computer 10, wherein high-speed wireless data communication is conducted by the portable computer 10 with another party using the card 100, via a cellular network (~CDMA communication), see figs. 1 and 2, col. 2, lines 55-62, col. 3, lines 8-21, and lines 41-44, col. 4, lines 7-11).

It would therefore have been obvious to one of ordinary skill in the art before the invention was made to combine the teaching of Seo with Kates by having a wireless interface circuit in the computer for communicating with the user or responsible party with a cellular telephone over a cellular telephone network, for the benefit of enabling the computer to simultaneously receive and transmit information wirelessly.

While Kates as modified by Seo disclose a base unit performing all the functions set forth in claim 16, the combination of Kates and Seo do not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates as modified by Seo by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

Regarding **claim 17** as applied to claim 16, Kates further discloses wherein the first message is received from the cellular remote unit using a data bearer service (using one or more of... cellular network (i.e., cellular telephone) and Internet, [0029]).

Regarding **claim 18** as applied to claim 16, Kates further discloses wherein cellular remote unit is a mobile remote unit (cellular telephone 123, [0029]).

Regarding **claim 19** as applied to claim 16, Kates further discloses wherein the base unit and the environmental device are contained in the same enclosure (building 101 comprising base computer 113 and sensor units, fig. 1, [0029]).

Regarding **claim 20**, Kates teaches a base unit ("monitoring computer 113", [0068]) configured to communicate with an environmental device ("monitoring computer 113 to send water shut off instructions to the sensor unit 102", [0068] wherein the sensor unit 102 is being read as the environmental device) and to communicate with a cellular remote ("The computer system 113 contacts a building manager, maintenance service, alarm service, or other responsible personnel 120 using one or more of several communication systems such as, for example, telephone 121, pager 122, cellular telephone 123 (e.g., direct contact, voicemail", [0029] wherein the responsible personnel 120 who utilizes the remote unit receives the communication from the base unit/"computer 113") the base unit comprising:

a second wireless circuit in the base unit configured to send a control construction from the base unit to the environmental device (The monitoring computer 113 has a base unit comprising a transceiver for transmitting instructions to the sensor units 102-106, (~wireless circuit), see figs. 1 and 4, [0064], [0068]), and to receive an environmental status from the environmental device (The monitoring computer 113 has a base unit comprising a transceiver for receiving data from the sensor units 102-106, (~wireless circuit), see figs. 1 and 4, [0031]-[0032], [0057]);

Kates further discloses that the base unit is configured to receive a first message from the cellular remote unit via a cellular communications network and to send a second message from the cellular remote unit via the cellular

communications network, wherein the first message is received before sending the second message (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message); the base unit continues to send information regarding the other sensors 103-106 to the responsible party 120 (via cellular telephone 23) based on sensor data received from the sensors 103-106 (~second message), see [0030]-[0032]); wherein the first message is a first digital communications message including a command (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message)); wherein the second message is a second digital communications message including the environmental status (the base unit continues to send information regarding the other sensors 103-106 to the responsible party 120 (via cellular telephone 23) based on sensor data received from the sensors 103-106 (~second message), see [0030]-[0032]);

a microcontroller, at the base unit, configured to process the first message, to provide a control instruction based on the command; and to send the control instruction to the environmental device via the second wireless circuit ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off instructions to sensor unit 102, the sensor unit 102 receives instructions from monitoring computer 113 through base unit 112 to shut off the water supply (~*control instruction based on command from personnel*)); and wherein the command is for the base unit, and wherein the command is initiated by a user from the cellular remote unit interface ([0068], responsible personnel 120 sends instructions to monitoring computer 113 instructing the monitoring computer to send water shut off

instructions to sensor unit 102, (*~control instruction based on command from personnel*)); and wherein the control instruction to the environmental device is based on the command for the base unit (the computer 113 sends instructions to each sensor unit based on the instructions from the responsible personnel with cellular telephone 123, [0029], [0068]).

While Kates discloses a second wireless circuit in the base unit and the base unit receiving a first message via a cellular communications network and sending a second message to a cellular remote unit via the cellular communications network, Kates does not specifically disclose a first wireless circuit communicatively coupled to the base unit configured to receive the first message via a cellular communications network and to send the second message to a cellular remote unit via the cellular communications network.

In an analogous art, Seo discloses a base unit (portable computer 10, see fig. 1, col. 2, lines 55-56) comprising a first wireless circuit communicatively coupled to the base unit (data communication card 100, with CDMA MSM chip, see figs. 1 and 2, col. 3, lines 8-11 and 41-44) configured to receive a first message via a cellular communications network and to send a second message from a cellular remote unit via the cellular communications network (portable computer 100, wherein high-speed wireless data communication is conducted by the portable computer 10 with another party using the card 100, via a cellular network (*~CDMA communication*), see figs. 1 and 2, col. 2, lines 55-62, col. 3, lines 8-21, and lines 41-44, col. 4, lines 7-11).

It would therefore have been obvious to one of ordinary skill in the art before the invention was made to combine the teaching of Seo with Kates by having a wireless

interface circuit in the computer for communicating with the user or responsible party with a cellular telephone over a cellular telephone network, for the benefit of enabling the computer to simultaneously receive and transmit information wirelessly.

While Kates as modified by Seo disclose a base unit performing all the functions set forth in claim 16, the combination of Kates and Seo do not specifically disclose that the base unit is wall mountable.

Hager however, discloses a base unit configured to communicate with other remote devices (see [0045]), wherein the base unit is wall mountable (wall mount computer 10, which can communicate with other telephones, see 1, 2, 4, and 5, [0006], [0011], [0012], [0019], [0026], [0034], [0045], [0048]-[0049], [0054]-[0056]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Hager with Kates as modified by Seo by mounting the monitoring computer 113 into an empty space of an interior wall in a structure for the benefit of providing space within an area of the structure and limiting the mess of the tangle of cords often attendant to the conventional installation of the computer.

Regarding **claim 21** as applied to claim 1, Kates as modified by Hager disclose the claimed invention. Kates further discloses wherein the base station is configured to receive a third message from an external web service, wherein the third message includes a second command regarding the environmental device ("the responsible party 120 sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102". Instructions sent by the personnel 120 is over the Internet (~external web service) [0029], [0068].

The monitoring unit also sends instructions to the sensor unit 102, to change the sleep period, listen period, etc, see [0064]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the responsible party 120 to instruct the monitoring computer 113 to change the monitoring patterns of the sensor units 102 for the benefit of changing the pattern of operation of the sensor units between periodic and continuous monitoring based on whether an environmental condition is detected.

Regarding **claim 24** as applied to claim 16, Kates further discloses wherein the first message is not received from the cellular remote unit in response to a previous message sent by the base unit to the remote cellular unit (responsible personnel 120, using remote device/cellular telephone 123, sends instructions to monitoring computer 113, [0068], [0029] (~first message) based on information received from sensor 102; the base unit continues to send information regarding the other sensors 103-106 to the responsible party 120 (via cellular telephone 23) based on sensor data received from the sensors 103-106, see [0030]-[0032]).

5. Claims 3 and 22 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Seo 7,209,487** and **Hager 20020024452** as applied to claim 1 above, and further in view of **Sinclair 7,127,270**.

Regarding **claim 3** as applied to claim 1, Kates as modified by Seo and Hager discloses the claimed limitation. Kates further discloses wherein the command (associated with a user response) is transmitted over the cellular communications network ("the responsible party 120 sends instructions to the monitoring computer 113

instructing the monitoring computer 113 to send water shut off instructions to the sensor unit 102". Instructions sent by the personnel 120 via the cellular telephone 123 is over a cellular network, see [0029], [0068]). However, Kates as modified by Seo and Hager does not expressly disclose wherein the command is associated with an icon on the remote unit. However, in an analogous art, Sinclair discloses a remote unit comprising an icon on the display of the remote unit, the icon being associated with commands to control remote devices, and transmitting the command associated with the user icon to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates as modified by Seo and Hager by incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

Regarding **claim 22** as applied to claim 1, Kates as modified by Seo and Hager discloses the claimed limitation. Kates further discloses wherein the command is a command string (responsible party sends instructions to the monitoring computer 113 instructing the monitoring computer 113 to send water shut off instructions to sensor 102, see [0068]). However Kates does not expressly disclose wherein the command is a command string associated with an icon. However, in an analogous art, Sinclair an icon associated with command strings to control remote devices, and transmitting the

command associated with the user icon to control remote devices (control device 10, with display screen 60, that displays icon 27, for controlling variables such as temperature of remote devices, see figs. 1 and 2, col. 9, lines 43-50, col. 10, lines 1-25).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sinclair into the system of Kates as modified by Seo and Hager by incorporating into the cellular telephone display 123 of Kates, an icon for controlling for controlling condition of remote devices as taught by Sinclair, for the benefit of creating a wireless communication remote control system for a user of a wireless communication device to interact with environmental sensor units.

6. Claim 23 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kates (US PGPub 2005/0275530 A1)** in view of **Seo 7,209,487** and **Hager 20020024452** as applied to claim 16 above, and further in view of **Lindsey 20040116822**.

Regarding **claim 23** as applied to claim 1, Kates as modified by Seo and Hager disclose the claimed invention except wherein the first message sent to the remote unit via the cellular network controls the cellular remote unit to display one or more icons stored on the cellular remote unit responsive to receiving the first message. However, in the same field of endeavor, Lindsey discloses controlling a remote unit to display one or more icons stored on the remote unit responsive to wirelessly receiving a message (see figs. 1A-1C, fig. 2A, [0013], [0028], [0034]; receiving measured temperatures from sensors at a remote host, and displaying a visual alarm indicator on a display based on the received measured temperature).

It would therefore have been obvious to one of ordinary skill in the art at the time

the invention was made to combine the teaching of Lindsey into the system of Kates as modified by Seo and Hager by displaying an icon/visual indicator on the responsible party's cellular telephone in response to determining an environmental condition and transmitting information regarding the condition to the responsible party's device, for the benefit of notifying the responsible party of a dangerous condition.

Conclusion

7. **THIS ACTION IS MADE FINAL.** 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 mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on Monday-Friday 8AM-4PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an

interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, VLADIMIR MAGLOIRE can be reached on 571-270-5144. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/OLUMIDE AJIBADE AKONAI/
Primary Examiner, Art Unit 3648

<i>Index of Claims</i> 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoan et al.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	07/10/2017	03/08/2018	06/29/2018	10/21/2018					
	1	✓	✓	✓	✓					
	2	✓	✓	✓	✓					
	3	✓	✓	✓	✓					
	4	✓	✓	✓	✓					
	5	✓	✓	✓	✓					
	6	✓	✓	✓	✓					
	7	✓	✓	✓	✓					
	8	✓	✓	✓	✓					
	9	✓	✓	✓	✓					
	10	✓	✓	✓	✓					
	11	✓	✓	✓	✓					
	12	✓	✓	✓	✓					
	13	✓	✓	✓	✓					
	14	✓	✓	✓	✓					
	15	✓	✓	✓	✓					
	16	✓	✓	✓	✓					
	17	✓	✓	✓	✓					
	18	✓	✓	✓	✓					
	19	✓	✓	✓	✓					
	20	✓	✓	✓	✓					
	21		✓	✓	✓					
	22		✓	✓	✓					
	23			✓	✓					
	24			✓	✓					
	25				✓					

REQUEST FOR REFUND

Reference # (Patent #, Application #, Trademark Serial #, Registration #, etc.)	Title of Invention or Mark Information	
15/405793	Ubiquitous Connectivity and Control System for Remote	
Attorney Docket # (if applicable)	Payment Date (mm/dd/yyyy)	Refund Request Amount
7688-001	09/14/2018	\$ 280.00
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Steven A. Herrera		47,642
Signature		Date (mm/dd/yyyy)
/Steven A. Herrera/		11/15/2018

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Electronic Acknowledgement Receipt	
EFS ID:	34317811
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamon
Customer Number:	24112
Filer:	Stephen A. Herrera/Kristi Dunshee
Filer Authorized By:	Stephen A. Herrera
Attorney Docket Number:	7688-001
Receipt Date:	15-NOV-2018
Filing Date:	13-JAN-2017
Time Stamp:	11:35:59
Application Type:	Utility under 35 USC 111(a)

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15/405,793	01/13/2017	Charles Shamoon	7688-001	1009

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COATS & BENNETT, PLLC		
1400 Crescent Green, Suite 300		
Cary, NC 27518		

EXAMINER
AJIBADE AKONAI, OLUMIDE

ART UNIT	PAPER NUMBER
3648	

MAIL DATE	DELIVERY MODE
03/22/2019	PAPER

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Filing Date

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OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR



Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Ubiquitous Connectivity, LP



Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Name

Charles Shamoon

Title

Principal

Date (Optional)

4/4/2019

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of

forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Electronic Acknowledgement Receipt	
EFS ID:	35705040
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamoon
Customer Number:	24112
Filer:	Jacob Lee Peterson/Valerie Jones
Filer Authorized By:	Jacob Lee Peterson
Attorney Docket Number:	7688-001
Receipt Date:	11-APR-2019
Filing Date:	13-JAN-2017
Time Stamp:	20:17:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Executed_POA_UBQCN_001C2.pdf	1029618	yes	2
			f6c7b14a480c1d558b55c4f72b87952b01f9c931		

Multipart Description/PDF files in .zip description			
Document Description		Start	End
Transmittal Letter		1	1
Power of Attorney		2	2
Warnings:			
Information:			
Total Files Size (in bytes):		1029618	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.			

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	15/405793
Filing Date	January 13, 2017
First Named Inventor	Charles Shamoon
Title	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
Art Unit	3648
Examiner Name	Olumide Ajibade Akonai
Attorney Docket Number	UBQCN.001C2

SIGNATURE of Applicant or Patent Practitioner

Signature	/Jacob Peterson/	Date (Optional)	
Name	Jacob Peterson	Registration Number	65096
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
☒ *Total of <u>1</u> forms are submitted.			

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/405,793	01/13/2017	Charles Shamoon	7688-001

CONFIRMATION NO. 1009

POWER OF ATTORNEY NOTICE

24112
COATS & BENNETT, PLLC
1400 Crescent Green, Suite 300
Cary, NC 27518



Date Mailed: 04/18/2019

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/11/2019.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/vnguyen/



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/405,793	01/13/2017	Charles Shamoon	UBQCN.001C2

CONFIRMATION NO. 1009

POA ACCEPTANCE LETTER

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614



Date Mailed: 04/18/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/11/2019.

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

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/vnguyen/

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)

Approved for use through 11/30/2020. 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	15/405,793	Filing Date	2017-01-13	Docket Number (if applicable)	UBQCN.001C2	Art Unit	3648
First Named Inventor	Charles Shamoon			Examiner Name	AJIBADE AKONAI, OLUMIDE		

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 111410

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 (02-18)

Approved for use through 11/30/2020. 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	Jacob Peterson/	Date (YYYY-MM-DD)	2019-04-18
Name	Jacob Peterson	Registration Number	65096

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.

INFORMATION DISCLOSURE STATEMENT

First Inventor :	Charles Shamoon
App. No. :	15/405,793
Filed :	January 13, 2017
For :	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
Examiner :	Ajibade Akonai, Olumide
Art Unit :	3648
Conf. No. :	1009

Mail Stop RCE

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

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Cite Nos. 109-114 are of record in U.S. patent application No. 13/271,203, filed October 11, 2011, which is the parent of this continuation application, and is relied upon for an earlier filing date under 35 USC 120. Copies of Cite Nos. 109-114 are not submitted pursuant to 37 CFR 1.98(d). Copies of Cite Nos. 115-129 are being submitted.

Notification of Existence of Litigation

Co-owned U.S. Patent Nos. 9,602,655 and 8,064,935 are currently involved in the following proceeding: *Ubiquitous Connectivity, LP v. Central Security Group – Nationwide, Inc.*, U.S. District Court for the Northern District of Oklahoma, Case No. 18-cv-00368-JED-FHM. The complaint, answer, and possibly other information from this proceeding are being submitted herewith. This information is being submitted pursuant to MPEP § 2001.06(c). One or more of the patents involved in this lawsuit are claimed as part of the priority claim of the present application.

Co-owned U.S. Patent Nos. 9,602,655 and 8,064,935 are also currently involved in the following proceeding: *Ubiquitous Connectivity, LP v. City of San Antonio*, U.S. District Court for the Western District of Texas San Antonio Division, Case No. 5:18-cv-00718-XR. The

Application No.: 15/405,793
Filing Date: January 13, 2017

complaint, answer, and possibly other information from this proceeding are being submitted herewith. This information is being submitted pursuant to MPEP § 2001.06(c).

In addition, co-owned U.S. Patent Nos. 9,602,655 and 8,064,935 are currently involved in the following proceeding: *Ubiquitous Connectivity, LP v. TXU Energy Retail Company LLC*, U.S. District Court for the Northern District of Texas Dallas Division, Case No. 3:18-cv-02084-K. The complaint and possibly other information from this proceeding are being submitted herewith. This information is being submitted pursuant to MPEP § 2001.06(c).

Further, co-owned U.S. Patent Nos. 9,602,655 and 8,064,935 were involved in the following proceeding: *Ubiquitous Connectivity, LP v. TXU Energy Retail Company LLC*, U.S. District Court for the Eastern District of Texas Tyler Division, Case No. 6:17-cv-00433-RWS-JDL. The complaint and possibly other information from this proceeding are being submitted herewith. This information is being submitted pursuant to MPEP § 2001.06(c). The proceeding has been dismissed and is no longer pending.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed within three months of the filing date or date of national phase entry, with an RCE, or before receipt of a First Office Action after an RCE, and no fee is believed to be required.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: April 19, 2019

By: Jacob Peterson/

Jacob Peterson
Registration No. 65,096
Registered Practitioner
Customer No. 20995
(206) 405-2000

30269429

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Multiple sheets used when necessary)</i>	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
	Examiner	Ajibade Akonai, Olumide
SHEET 1 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number <i>Number - Kind Code (if known)</i> Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	4,918,439	04-1990	Wozniak et al.	
	2	4,965,557	10-1990	Schepers et al.	
	3	5,109,222	04-1992	Welty	
	4	5,247,580	09-1993	Kimura et al.	
	5	5,544,036	08-1996	Brown, Jr. et al.	
	6	5,545,857	08-1996	Lee et al.	
	7	5,579,496	11-1996	Van Steenbrugge	
	8	5,621,662	04-1997	Humphries et al.	
	9	5,778,256	07-1998	Darbee et al.	
	10	5,805,530	09-1998	Youngberg	
	11	5,818,428	10-1998	Eisenbrandt et al.	
	12	5,917,105	06-1999	Xu et al.	
	13	5,917,405	06-1999	Joao	
	14	5,924,486	07-1999	Ehlers et al.	
	15	5,990,803	11-1999	Park	
	16	6,005,490	12-1999	Higashihara	
	17	6,014,089	01-2000	Tracy et al.	
	18	6,081,750	06-2000	Hoffberg et al.	
	19	6,104,334	08-2000	Allport	
	20	6,192,282	02-2001	Smith et al.	
	21	6,195,589	02-2001	Ketcham	
	22	6,216,956	04-2001	Ehlers et al.	
	23	6,223,029	04-2001	Stenman et al.	
	24	6,260,765	07-2001	Natale et al.	
	25	6,264,559	07-2001	Lawrence et al.	
	26	6,301,481	10-2001	Rogers et al.	
	27	6,301,484	10-2001	Rogers et al.	
	28	6,343,255	01-2002	Peek	
	29	6,393,297	05-2002	Song	

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.	

T¹ - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Multiple sheets used when necessary)</i>	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
	Examiner	Ajibade Akonai, Olumide
SHEET 2 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number <i>Number - Kind Code (if known)</i> Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	6,394,359	05-2002	Morgan	
	31	6,398,727	06-2002	Bui et al.	
	32	6,400,956	06-2002	Richton	
	33	6,476,714	11-2002	Mizuta	
	34	6,650,249	11-2003	Meyer et al.	
	35	6,813,474	11-2004	Robinson et al.	
	36	6,820,049	11-2004	Monroe et al.	
	37	6,847,822	01-2005	Dennison et al.	
	38	6,854,660	02-2005	Yoon et al.	
	39	6,873,824	03-2005	Flick	
	40	6,919,790	07-2005	Kanazawa	
	41	6,934,862	08-2005	Sharood et al.	
	42	6,957,393	10-2005	Fano et al.	
	43	6,959,196	10-2005	Yarkosky	
	44	6,970,539	11-2005	Yamamoto et al.	
	45	6,990,335	01-2006	Shamoon et al.	
	46	7,005,979	02-2006	Haughawout et al.	
	47	7,031,663	04-2006	Heinonen et al.	
	48	7,043,635	05-2006	Keech	
	49	7,058,358	06-2006	Cannon et al.	
	50	7,257,397	08-2007	Shamoon et al.	
	51	7,343,226	03-2008	Ehlers et al.	
	52	7,363,031	04-2008	Aisa	
	53	7,379,997	05-2008	Ehlers et al.	
	54	7,418,428	08-2008	Ehlers et al.	
	55	7,502,656	03-2009	Thibault et al.	
	56	7,565,106	07-2009	Oh et al.	
	57	7,610,113	10-2009	Cocciadiferro et al.	
	58	7,639,157	12-2009	Whitley et al.	

Examiner Signature	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T¹ - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Multiple sheets used when necessary)</i>	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
	Examiner	Ajibade Akonai, Olumide
SHEET 3 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number <i>Number - Kind Code (if known)</i> Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	59	7,643,823	01-2010	Shamoon et al.	
	60	7,792,256	09-2010	Arledge et al.	
	61	7,904,074	03-2011	Karaoguz et al.	
	62	7,949,615	05-2011	Ehlers et al.	
	63	8,064,935	11-2011	Shamoon et al.	
	64	8,180,336	05-2012	Wesby	
	65	2001/0025349	09-2001	Sharood et al.	
	66	2001/0035817	11-2001	Mizuta	
	67	2001/0048376	12-2001	Maeda et al.	
	68	2002/0013819	01-2002	Lim et al.	
	69	2002/0029342	03-2002	Keech	
	70	2002/0059146	05-2002	Keech	
	71	2002/0072356	06-2002	Yamashita et al.	
	72	2002/0094777	07-2002	Cannon et al.	
	73	2002/0133545	09-2002	Fano et al.	
	74	2002/0149705	10-2002	Allen et al.	
	75	2002/0165024	11-2002	Puskala	
	76	2002/0177109	11-2002	Robinson et al.	
	77	2002/0198990	12-2002	Bradfield et al.	
	78	2003/0034897	02-2003	Shamoon et al.	
	79	2003/0034898	02-2003	Shamoon et al.	
	80	2003/0080772	05-2003	Giacomini et al.	
	81	2003/0087642	05-2003	Mazzara	
	82	2003/0104820	06-2003	Greene et al.	
	83	2003/0134623	07-2003	Kanamura et al.	
	84	2003/0186690	10-2003	Ko	
	85	2003/0193428	10-2003	Moransais	
	86	2003/0210126	11-2003	Kanazawa	
	87	2004/0053641	03-2004	Leung et al.	

Examiner Signature	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T¹ - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Multiple sheets used when necessary)</i>	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
	Examiner	Ajibade Akonai, Olumide
SHEET 4 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number <i>Number - Kind Code (if known)</i> Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	88	2004/0063446	04-2004	Kennett	
	89	2004/0066092	04-2004	Muller	
	90	2004/0086090	05-2004	Naidoo et al.	
	91	2004/0092282	05-2004	Kim et al.	
	92	2004/0128033	07-2004	Ku et al.	
	93	2004/0214576	10-2004	Myers et al.	
	94	2004/0235446	11-2004	Flaherty et al.	
	95	2004/0260406	12-2004	Ljunggren et al.	
	96	2004/0263349	12-2004	Haughawout et al.	
	97	2005/0033707	02-2005	Ehlers et al.	
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	103	2006/0011721	01-2006	Olsen, III	
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	105	2006/0046725	03-2006	Sonnenrein et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document <i>Country Code-Number-Kind Code</i> Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
	109	WO 01/65875	09-07-2001	Sabie		

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.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
(Multiple sheets used when necessary)	Examiner	Ajibade Akonai, Olumide
SHEET 5 OF 6	Attorney Docket No.	UBQCN.001C2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	110	Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal "Intelligent and Versatile Control Terminal", 2 pages LZT 123 7602 R1D, 2003.	
	111	Sony Ericsson Mobile Communications International GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003.	
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	115	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. Central Security Group nationwide, Inc., Case No. 18-cv-00368-JED-FHM, filed July 17, 2018, in 17 pages.	
	116	Answer, Affirmative Defenses, and Counterclaims to Plaintiff's Complaint for Patent Infringement, Ubiquitous Connectivity, LC v. Central Security Group Nationwide, Inc. Case No. 4:18-cv-00368-JED-FHM, filed October 4, 2018, in 19 pages.	
	117	Answer to Defendant's Counterclaims, Ubiquitous Connectivity, LP v. Central Security Group-Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed October 22, 2018, in 6 pages.	
	118	Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. Central Security Group Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed October 4, 2018, in 26 pages.	
	119	Opposition to Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. Central Security Group Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed November 5, 2018, in 219 pages.	
	120	Reply in Support of Rule 12(b)(6) Motion to Dismiss For Failure to State Claim, Ubiquitous Connectivity, LC v. Central Security Group Nationwide, Inc. Case No. 4:18-cv-00368-JED-FHM, filed November 26, 2018, in 13 pages.	
	121	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. City of San Antonio by and through its agent, City Public Service Board of San Antonio d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed July 12, 2018, in 16 pages.	
	122	Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim and Memorandum of Law in Support Thereof, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed September 20, 2018, in 26 pages.	
	123	Answer, Affirmative Defenses, and Counterclaims to Plaintiff's Complaint, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed September 20, 2018, in 18 pages.	
	124	Answer to Defendant's Counterclaims, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed October 11, 2018, in 6 pages.	
	125	Opposition to Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed November 5, 2018, in 216 pages.	

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.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
(Multiple sheets used when necessary)	Examiner	Ajibade Akonai, Olumide
SHEET 6 OF 6	Attorney Docket No.	UBQCN.001C2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	126	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP, v. TXU Energy Retail Company LLC, Case 3:18-cv-02084-K, filed August 10, 2018, in 15 pages.	
	127	First Amended Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. TXU Energy Retail Company LLC, Case No. 3:18-cv-02084-K, filed December 28, 2018, in 21 pages.	
	128	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. TXU Energy Retail Company LLC., Case 6:17-cv-00433-RWS-JDL, Filed July 27, 2017, in 14 pages.	
	129	Final Judgment, Ubiquitous Connectivity, LP, v. TXU Energy Retail Company LLC, Case No. 6:17cv0433-RWS-JDL, Filed October 23, 2017, in 1 page.	

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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.	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor	: Charles Shamoon
App. No.	: 15/405,793
Filed	: January 13, 2017
For	: UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
Examiner	: AJIBADE AKONAI, OLUMIDE
Art Unit	: 3648
Conf. No.	: 1009

RESPONSE TO OFFICE ACTION**Mail Stop RCE**

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

Dear Commissioner:

In response to the Office Action dated October 22, 2018, please consider the following.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks begin on page 11 of this paper.

Application No.: 15/405,793
Filing Date: January 13, 2017

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph following the Related Application header on page 1 as follows:

This application is a continuation application of U.S. application Ser. No. 13/271,203, filed Oct. 11, 2011, now U.S. Patent No. 9,602,655, patented on Mar. 21, 2017, which is a continuation application of U.S. application Ser. No. 11/686,993, filed March 16, 2007, now U.S. Patent No. 8,064,935-pending, patented on Nov. 22, 2011, which is a divisional of U.S. application Ser. No. 11/163,372, filed Oct. 17, 2005, now U.S. Patent No. 7,257,397, patented on August 14, 2007, which is a divisional of U.S. application Ser. No. 11/160,006, filed Jun. 6, 2005, now U.S. Pat. No. 6,990,335, patented on Jan. 24, 2006, which claims the benefit of U.S. Provisional Application No. 60/522,887, filed Nov. 18, 2004, in the name of Charles Shamoon and entitled "Ubiquitous Connectivity and Control System for Remote Locations". All of the above enumerated applications are hereby incorporated by reference in their entirety.

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A ~~system base unit~~ configured to communicate with an environmental device and to communicate with a cellular remote unit, the system base unit comprising:

an environmental device configured to control an environmental characteristic;
a communication interface configured to communicate with the environmental device;

~~a wireless circuit in the base unit~~ configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network, ~~wherein the base unit is wall mountable;~~

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

wherein the first message is a first digital communications message including a representation of ~~the environmental information~~, the environmental information being received from the environmental device via the communication interface and indicative of a measurement of the environmental characteristic;

wherein the second message is a second digital communications message including a command ~~regarding for~~ the environmental device, the command being initiated by a user via the cellular remote unit and indicating to change the environmental characteristic;

a microcontroller configured ~~to process the second message, to generate a provide the control instruction from the command included in the second message based on the command,~~ and to send the control instruction ~~instructions~~ to the environmental device via the ~~first communication interface;~~ and

wherein the environmental device is configured to change the environmental characteristic responsive to the control instruction; and

a housing configured to mount to a wall of a building, the housing physically supporting the environmental device, the communication interface, the wireless

~~circuit, and the microcontroller wherein the command is initiated by the user via the cellular remote unit to change an environmental characteristic controlled by the environmental device.~~

2. (Currently Amended) The system ~~base unit~~ of claim 1, wherein the command ~~regards entering~~ indicates to enter an energy conservation mode, and ~~wherein the~~ energy conservation mode is associated with multiple environmental devices that are in communication with the communication interface, the multiple environmental devices including the environmental device.

3. (Currently Amended) The system ~~base unit~~ of claim 1, wherein the command is associated with an icon stored on the cellular remote unit, ~~wherein the command associated with the icon is transmitted over the cellular communications network.~~

4. (Currently Amended) The system ~~base unit~~ of claim 1, wherein ~~the change in the environmental characteristic associated with the environmental device is to turn the environmental device~~ is configured to turn on or off responsive to the control instruction.

5. (Currently Amended) The system ~~base unit~~ of claim 1, wherein ~~the change in the environmental characteristic associated with the environmental device is~~ configured to raise or lower a setting associated with the environmental device responsive to the control instruction.

6. (Currently Amended) The system ~~base unit~~ of claim 1, wherein the cellular communications network includes a data bearer service.

7. (Currently Amended) The system ~~base unit~~ of claim 1, wherein the cellular remote unit is a mobile remote unit.

8. (Canceled)

Application No.: 15/405,793
Filing Date: January 13, 2017

9. (Currently Amended) The system ~~base unit~~ of claim 1, wherein the command is an energy conservation command associated with multiple environmental devices that are in communication with the communication interface, the multiple environmental devices including the environmental device.

10. (Currently Amended) The system ~~base unit~~ of claim 1, wherein the cellular communications network includes a data bearer service; and wherein the cellular remote unit is a mobile remote unit; ~~wherein the control instruction includes an environmental control instruction; and wherein the command includes an environmental command.~~

11. (Canceled)

12. (Currently Amended) The system ~~base unit~~ of claim 1—10, wherein the microcontroller is configured to process the environmental information into the representation ~~and to process the command into the control instruction.~~

13. (Currently Amended) The system ~~base unit~~ of claim 1, wherein ~~the remote unit is a cellular telephone, and wherein~~ the environmental device comprises a thermostat.

14. (Currently Amended) The system ~~base unit~~ of claim 1, wherein the environmental device comprises at least one of a light, ~~thermostat,~~ or an alarm system.

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

Application No.: 15/405,793
Filing Date: January 13, 2017

19. (Canceled)

20. (Canceled)

21. (Currently Amended) The system ~~the base unit~~ of claim 1,
wherein the wireless circuit ~~base unit~~ is configured to receive a third message from
an external web service, ~~wherein the third message including another includes a~~
~~second command for regarding the environmental device; and~~
wherein the microcontroller is configured to generate another control instruction from
the another command included in the third message and to send the another
control instruction to the environmental device via the communication interface to
change an operation of the environmental device.

22. (Canceled)

23. (Currently Amended) The system ~~base unit~~ of claim 1, wherein the first message,
upon receipt by the cellular remote unit, sent to the cellular remote unit via the cellular
~~communications network controls causes~~ the cellular remote unit to display one or more
icons stored on the cellular remote unit ~~responsive to receiving the first message.~~

24. (Canceled)

25. (Canceled)

26. (New) A base unit comprising:
a communication interface configured to communicate with an environmental
device;
a wireless circuit configured to:
send a first message to a first cellular remote unit via a cellular
communications network, the first message including a first representation
of first environmental information, the first environmental information

being received from the environmental device via the communication interface,

receive a second message from the first cellular remote unit via the cellular communications network, the second message including a first command for the environmental device, the first command indicating to change an environmental characteristic controlled by the environmental device,

send a third message to a second cellular remote unit via the cellular communications network, the third message including a second representation of second environmental information, the second environmental information being received from the environmental device via the communication interface, and

receive a fourth message from the second cellular remote unit via the cellular communications network, the fourth message including a second command for the environmental device, the second command indicating to change the environmental characteristic; and

a microcontroller configured to:

determine that the first cellular remote unit is authorized to change the environmental characteristic and that the second cellular remote unit is unauthorized to change the environmental characteristic,

responsive to determining that the first cellular remote unit is authorized to change the environmental characteristic, generate a control instruction from the first command included in the second message and send the control instruction to the environmental device via the communication interface to cause the environmental device to change the environmental characteristic, and

responsive to determining that the second cellular remote unit is unauthorized to change the environmental characteristic, not provide any control instructions to the environmental device based on the second command included in the fourth message.

27. (New) The base unit of claim 26, wherein the microcontroller is configured to:
determine from a first class in which the first cellular remote unit is assigned that the
first cellular remote unit is authorized to change the environmental characteristic,
and
determine from a second class in which the second cellular remote unit is assigned
that the second cellular remote unit is unauthorized to change the environmental
characteristic, the second class being different from the first class.
28. (New) The base unit of claim 26, wherein the control instruction causes the
environmental device to raise or lower a setting associated with the environmental
device.
29. (New) The base unit of claim 26, wherein the first command indicates to perform
the same operation to change the environmental characteristic as the second
command.
30. (New) The base unit of claim 26, wherein the first environmental information is
indicative of a first measurement of the environmental characteristic, and the second
environmental information is indicative of a second measurement of the environmental
characteristic.
31. (New) The base unit of claim 26, wherein the communication interface is configured
to communicate wirelessly with the environmental device.
32. (New) The base unit of claim 26, wherein the environmental device comprises at
least one of a light, a thermostat, or an alarm system.
33. (New) The base unit of claim 26, wherein the second message is received from the
first cellular remote unit using a data bearer service.

34. (New) A base unit comprising:

- a communication interface configured to communicate with an environmental device;

- a wireless circuit configured to:

- send a first message to a first cellular remote unit via a cellular communications network, the first message including a representation of environmental information, the environmental information being received from the environmental device via the communication interface and indicative of a measurement of an environmental characteristic controlled by the environmental device,

- receive a second message from the first cellular remote unit via the cellular communications network, the second message including a command for the environmental device, the command indicating to change the environmental characteristic, and

- send a third message to a second cellular remote unit via the cellular communications network, the third message indicating receipt of the command from the first cellular remote unit; and

- a microcontroller configured to:

- determine that the command from the first cellular remote unit should be reported to the second cellular remote unit,

- responsive to determining that the command from the first cellular remote unit should be reported to the second cellular remote unit, initiate sending of the third message to the second cellular remote unit using the wireless circuit, and

- generate a control instruction from the command included in the second message and send the control instruction to the environmental device via the communication interface to cause the environmental device to change the environmental characteristic.

35. (New) The base unit of claim 34, wherein the microcontroller is configured to determine from a first class in which the first cellular remote unit is assigned and a

second class in which the second cellular remote unit is assigned that the command from the first cellular remote unit should be reported to the second cellular remote unit, the first class being different from the second class.

36. (New) A base unit comprising:

- a communication interface configured to communicate with an environmental device;

- a wireless circuit configured to:

- send a first message to a first cellular remote unit via a cellular communications network, the first message including a representation of environmental information, the environmental information being received from the environmental device via the communication interface and indicative of a measurement of an environmental characteristic controlled by the environmental device,

- receive a second message from the first cellular remote unit via the cellular communications network, the second message including a single character or a single word; and

- a microcontroller configured to:

- activate a plurality of commands according to the single character or the single word in the second message, the plurality of commands including a first command indicating to change the environmental characteristic; and
 - generate a control instruction from the first command and send the control instruction to the environmental device via the communication interface to cause the environmental device to change the environmental characteristic.

Application No.: 15/405,793
Filing Date: January 13, 2017

REMARKS

In the Office Action dated October 22, 2018, the Office Action rejected claims. In this Reply, Applicant has canceled claims without prejudice or disclaimer, amended claim without prejudice or disclaimer to their previously-presented versions, and added claims. Applicant respectfully submits that no new matter has been added by these amendments and that the amendments and new claims are fully supported by the originally-filed specification and claims. For instance, the amendments and new claims are supported, by not limited, by at least pages 9, 13, 22, 23, 30, and 33 of the specification and Figures 1 and 4 of the drawings as-filed.

Accordingly, claims 1-7, 9, 10, 12-14, 21, 23, and 26-36 are pending.

Claim Rejections – 35 U.S.C. § 103

The Office Action rejected claims 1-25 under 35 U.S.C. § 103 as being unpatentable over two or more of U.S. Patent App. Pub. Nos. 2005/0275530 (“Kates”), 2002/0024452 (“Hager”), and 2004/0116822 (“Lindsey”) or U.S. Patent Nos. 7,209,487 (“Seo”) and 7,127,270 (“Sinclair”). Applicant respectfully traverses each rejection, each finding of fact, including each assertion regarding what the references show or teach, any rationales for modifying or combining the references, and each and every implicit and explicit potential for reliance on Official Notice, and Applicant does not acquiesce in the validity of the rejections.

Independent Claim 1

The system of amended claim 1 includes at least:

- an environmental device configured to control an environmental characteristic;
- a communication interface configured to communicate with the environmental device;
- a wireless circuit configured to send a first message to the cellular remote unit via a cellular communications network and to receive a second message from the cellular remote unit via the cellular communications network;
- a microcontroller configured to generate a control instruction from the command included in the second message and to send the control instruction to the environmental device via the communication interface;

a housing configured to mount to a wall of a building, the housing physically supporting the environmental device, the communication interface, the wireless circuit, and the microcontroller.

(Emphasis added).

Applicant respectfully submits that the cited references, alone or in combination, fail to teach or suggest at least the above-emphasized features of claim 1 as amended.

Kates discloses a system that includes “one or more intelligent sensor units and a base unit that can communicate with a [sic] the sensor units.” Kates at ¶ 5. Kates further explains that “the sensor unit communicates with the base unit and provides data regarding the anomalous condition” and that “[t]he base unit can contact a supervisor or other responsible person by a plurality of techniques, such as, telephone, pager, cellular telephone, Internet (and/or local area network), etc.” *Id.*

However, Kates appears to always describe the sensor units as separate from the base unit. Accordingly, Kates fails to teach or suggest at least “a housing configured to mount to a wall of a building, the housing physically supporting the environmental device, the communication interface, the wireless circuit, and the microcontroller” as recited in amended claim 1.

Seo, Hager, and the other cited references fail to cure these deficiencies in Kates. In particular, Seo, Hager, and the other cited references, alone or in combination, also fail to teach or suggest at least “a housing configured to mount to a wall of a building, the housing physically supporting the environmental device, the communication interface, the wireless circuit, and the microcontroller.”

Thus, Appellant respectfully submits that claim 1 as amended is patentable over the cited references, alone or in combination.

Applicant moreover respectfully continues to traverse the Examiner’s assertions regarding what Seo teaches or suggests although the detailed reasons for this traversal are not described in this Reply. Applicant reserves the right to further describe the differences between the claimed subject matter and Seo in any future communications.

Independent Claim 26

In contrast to the features of the cited references, new claim 26 includes at least:

a microcontroller configured to:

determine that the first cellular remote unit is authorized to change the environmental characteristic and that the second cellular remote unit is unauthorized to change the environmental characteristic,

responsive to determining that the first cellular remote unit is authorized to change the environmental characteristic, generate a control instruction from the first command included in the second message and send the control instruction to the environmental device via the communication interface to cause the environmental device to change the environmental characteristic, and

responsive to determining that the second cellular remote unit is unauthorized to change the environmental characteristic, not provide any control instructions to the environmental device based on the second command included in the fourth message.

(Emphasis added).

Thus, Appellant respectfully submits that new claim 26 is patentable over the cited references, alone or in combination.

Independent Claim 34

In contrast to the features of the cited references, new claim 34 includes at least:

a microcontroller configured to:

determine that the command from the first cellular remote unit should be reported to the second cellular remote unit,

responsive to determining that the command from the first cellular remote unit should be reported to the second cellular remote unit, initiate sending of the third message to the second cellular remote unit using the wireless circuit,
and

generate a control instruction from the command included in the second message and send the control instruction to the environmental device via the communication interface to cause the environmental device to change the environmental characteristic.

(Emphasis added).

Thus, Appellant respectfully submits that new claim 34 is patentable over the cited references, alone or in combination.

Independent Claim 36

In contrast to the features of the cited references, new claim 36 includes at least:

a wireless circuit configured to:

receive a second message from the first cellular remote unit via the cellular communications network, the second message including a single character or a single word; and

a microcontroller configured to:

activate a plurality of commands according to the single character or the single word in the second message, the plurality of commands including a first command indicating to change the environmental characteristic; and

generate a control instruction from the first command and send the control instruction to the environmental device via the communication interface to cause the environmental device to change the environmental characteristic.

(Emphasis added).

Thus, Appellant respectfully submits that new claim 36 is patentable over the cited references, alone or in combination.

Dependent Claims 2-7, 9, 10, 12-14, 21, 23, 27-33, and 35

The dependent claims are patentable for at least the same reasons articulated with respect to their respective independent claims. Accordingly, Appellant respectfully requests that the rejections of the dependent claims be withdrawn.

No Disclaimers or Disavowals

Although the present communication may include alterations to the claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or

Application No.: 15/405,793
Filing Date: January 13, 2017

related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: April 18, 2019

By: Jacob Peterson/
Jacob Peterson
Registration No. 65096
Registered Practitioner
Customer No. 20995
(206) 405-2000

30283941

Electronic Patent Application Fee Transmittal				
Application Number:		15405793		
Filing Date:		13-Jan-2017		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles Shamoon		
Filer:		Jacob Lee Peterson/MIREYA VELEZ		
Attorney Docket Number:		UBQCN.001C2		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 3 months with \$0 paid	2253	1	700	700
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	2820	1	950	950
Total in USD (\$)				1650

Electronic Acknowledgement Receipt	
EFS ID:	35775763
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamoan
Customer Number:	20995
Filer:	Jacob Lee Peterson/ThuyQuyen Nguyen
Filer Authorized By:	Jacob Lee Peterson
Attorney Docket Number:	UBQCN.001C2
Receipt Date:	19-APR-2019
Filing Date:	13-JAN-2017
Time Stamp:	14:32:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1650
RAM confirmation Number	042219INTEFSW14324900
Deposit Account	111410
Authorized User	ThuyQuyen Nguyen
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	RCE.pdf	1349948	no	3
			a04386d4874ff930709301f1b655919d1334fa36		
Warnings:					
Information:					
2	Transmittal Letter	IDS-TRANSMITTAL.pdf	29986	no	2
			7e459ef9c29b5c8bc5dc1d2d4b8372342adfec19		
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	IDS-LIST.pdf	60075	no	6
			d364b7ddc73ce2ad7e69bcaf4186487393778bf32		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
4		AMENDMENT-RCE.pdf	70200	yes	15
			61421c00ada2a0dea1c499d25a4927e5caa77caa		
	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Amendment Submitted/Entered with Filing of CPA/RCE	1	1		
	Specification	2	2		
	Claims	3	10		
	Applicant Arguments/Remarks Made in an Amendment	11	15		
Warnings:					
Information:					

5	Non Patent Literature	Answer_to_Defendants_Count erclaim_4_18- cv-00368_10-22-2018.pdf	133095	no	6
			eb8753c09ca3ee464857516d79e1127b54d92682		
Warnings:					
Information:					
6	Non Patent Literature	Answer_to_Defendants_Count erclaim_dkt_18_October11_20 18.pdf	131343	no	6
			07743d393fa75f3af5237f7c6fb0dccc4c9612589		
Warnings:					
Information:					
7	Non Patent Literature	Central_Security_Group_Natio nwides_Reply_in_Support_of_i ts_Rule_Motion_to_Dismiss_11 -26-2018.pdf	210479	no	13
			d6ca5dc64388231af86b41bceb7214cf2422976d		
Warnings:					
Information:					
8	Non Patent Literature	Central_Security_Group_Paintif fs_Complaint_for_Patent_Infrin gement_00368-10-04-2018.pdf	190290	no	19
			4f88ea8a281ae46429594acba2a557feae91b396		
Warnings:					
Information:					
9	Non Patent Literature	CPS_Energys_answer_affirmati ve_defenses_and_Counterclai ms_to_Plaintiffs_Complaint_Se pt_20-2018.pdf	257627	no	18
			c76999458b789807b9638128e047bd575e8a606a		
Warnings:					
Information:					
10	Non Patent Literature	CPS_Energys_Rule_12_b_6_Mo tion_to_Dismiss_09-20-2018. pdf	448902	no	26
			8a6ff35bc5ae289f29be0787b8763c2d3f39a566		
Warnings:					
Information:					
11	Non Patent Literature	Final_Judgment_UQCN_TXU_E NERGY_October_23_2017.pdf	109744	no	1
			33689fbfde80f88106229874eac37e7d5895c7ad		
Warnings:					
Information:					

12	Non Patent Literature	First_amended_Complaint_for_Patent_Infringement_UBQCN_TXU_December_28-2018.pdf	1227282	no	21
			0ada802bd12adb77b776339370d09ad4e85ed0e2		
Warnings:					
Information:					
13	Non Patent Literature	Original_Complaint_forPatentInfring_00368-07-17-2018.pdf	831616	no	17
			c160c8c23990fe9699fce922e4fe309d92d973c6		
Warnings:					
Information:					
14	Non Patent Literature	Original_Complaint_UBQCN_City_of_San_Antonio_07-12-2018.pdf	1236786	no	16
			488e15bc3281aa86fac691068a31281ac7f22f5b		
Warnings:					
Information:					
15	Non Patent Literature	Original_Complaint_UBQCN_TXU_Energy_Retail_08-10-2018.pdf	1027008	no	15
			d8e2ccccbfbd501610c76d01532e08a5dc1c4fd30		
Warnings:					
Information:					
16	Non Patent Literature	Original_Complaint_UBQCN_txu_eEnergy_Retail_July_27_2017.pdf	4211833	no	14
			ef3ed6d951b84b40409e4771271cdfc245813dca		
Warnings:					
Information:					
17	Non Patent Literature	Ubiquitous_connectivitys_opposition_to_central_security_group_november_5_2018-in_27_pages.pdf	5261395	no	219
			c29d38c33614ee2e0e0d55451aabe64cee6a6ebc		
Warnings:					
Information:					
18	Non Patent Literature	UBQCN_connectivitys_opposition_to_cps_energys_Rule_Claim_dk_17_filed_Nov_5_2018_in_216.pdf	5091833	no	216
			c69813f7d2bed1ef15326e620f841c151b0de6ac		
Warnings:					
Information:					

19	Non Patent Literature	CSG-13-MTD-10-04-2018-RULE12.pdf	313253	no	26
			3c57e3cc57d79265a270a6d4920dbf765fa9e27d		
Warnings:					
Information:					
20	Fee Worksheet (SB06)	fee-info.pdf	32448	no	2
			d079e4f7c22734a4fc8e629f034a51e58878942d		
Warnings:					
Information:					
Total Files Size (in bytes):				22225143	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/405,793		Filing Date 01/13/2017		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED - PART I									
		(Column 1)	(Column 2)						
FOR		NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A	N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =	*		x \$40 =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*		x \$210 =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.					TOTAL				
APPLICATION AS AMENDED - PART II									
		(Column 1)	(Column 2)		(Column 3)				
AMENDMENT	04/19/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(j))	* 24	Minus	** 24	= 0	x \$50 =	0		
	Independent (37 CFR 1.16(h))	* 5	Minus	*** 5	= 0	x \$230 =	0		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE	0		
		(Column 1)	(Column 2)		(Column 3)				
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(j))	*	Minus	**	=	x \$0 =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =			
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/TONI R HAKIM/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".									
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

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

Please Direct All Correspondence to Customer Number 20995

TRANSMITTAL FOR SUBSTITUTE STATEMENT AND DECLARATIONS

First Inventor	:	Charles Shamoon
App. No.	:	15/405793
Filed	:	January 13, 2017
For	:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
Art Unit	:	3648
Conf No.	:	1009

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

Dear Colleagues:

Enclosed in compliance with 37 CFR 1.53(f) are the following.

(X) Declaration(s) for:

Charles Shamoon

Deborah Shamoon

Franklin Eugene Neal

(X) Substitute Statement in Lieu of Declaration document(s) for:

Michael Fehnel

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment, to Account No. 11-1410.

/Jacob Peterson/

Jacob Peterson

Registration No. 65,096

Attorney of Record

Customer No. 20995

(206) 405-2007

30458765

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of
Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

As the below named inventor, I hereby declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number 15/405,793

filed on January 13, 2017

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Charles Shamoon

Date (Optional): _____

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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 1 minute 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.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of
Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE
LOCATIONS

As the below named inventor, I hereby declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number 15/405,793

filed on January 13, 2017

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

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LEGAL NAME OF INVENTOR

Inventor: Deborah Shamoon

Date (Optional): _____

Signature: Deborah Shamoon

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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 1 minute 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.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
As the below named inventor, I hereby declare that:			
This declaration is directed to: ☐ The attached application, or			
☒ United States application or PCT international application number <u>15/405,793</u>			
Filed on <u>January 13, 2017</u>			
The above-identified application was made or authorized to be made by me.			
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.			
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
WARNING:			
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identify them. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.			
LEGAL NAME OF INVENTOR			
Inventor	Franklin Eugene Neal		
Date (Optional)			
Signature	<i>Franklin Eugene Neal</i>		
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/G1 form for each additional inventor.			

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 be sent by the USPTO to process an application. Confidentiality is provided by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute 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 the 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 22315-1450. (DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22315-1450)

**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

Title of Invention	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
This statement is directed to:			
☐ The attached application.			
OR			
☒ United States application or PCT international application number <u>15/405,793</u> filed on <u>January 13, 2017</u>			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Michael Fehnel			
Residence (except for a deceased or legally incapacitated inventor):			
City		State	Country
Mailing Address (except for a deceased or legally incapacitated inventor):			
City		State	Zip Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
☐ Legal Representative (for deceased or legally incapacitated inventor only),			
☒ Assignee,			
☐ Person to whom the inventor is under an obligation to assign,			
☐ Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
☐ Joint Inventor.			

[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 1 minute 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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SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☒ Inventor is deceased,
☐ Inventor is under legal incapacity,
☐ Inventor cannot be found or reached after diligent effort, or
☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.
OR
☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:Name: **Charles Shamoon**

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer.

Ubiquitous Connectivity, LP

Applicant Name:

Title of Person Executing
This Substitute Statement: **Principal**

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City

State

Country

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

City

State

Zip

Country

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

{Page 2 of 2}

Electronic Acknowledgement Receipt	
EFS ID:	35924004
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamoon
Customer Number:	20995
Filer:	Jacob Lee Peterson/Sandra Autry
Filer Authorized By:	Jacob Lee Peterson
Attorney Docket Number:	UBQCN.001C2
Receipt Date:	06-MAY-2019
Filing Date:	13-JAN-2017
Time Stamp:	13:56:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	TRANSM-OATH.pdf	17562	no	1
			1a798dfc233e1fb388fec8f78fe541adc7238a5		
Warnings:					

Information:					
2	Oath or Declaration filed	OATH.pdf	3360330	no	5
			ac7ed73520db84a66baf5db3171acc7b2d35ab14		
Warnings:					
Information:					
Total Files Size (in bytes):			3377892		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

20995 7590 05/10/2019
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
AJIBADE AKONAI, OLUMIDE	
ART UNIT	PAPER NUMBER
3648	

DATE MAILED: 05/10/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	UBQCN.001C2	1009

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

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	08/12/2019

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

20995 7590 05/10/2019
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	UBQCN.001C2	1009

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APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	08/12/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
AJIBADE AKONAI, OLUMIDE	3648	455-466000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). 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. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	UBQCN.001C2	1009
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IRVINE, CA 92614				
EXAMINER				
AJIBADE AKONAI, OLUMIDE				
ART UNIT		PAPER NUMBER		
3648				

DATE MAILED: 05/10/2019

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

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 15/405,793	Applicant(s) Shamoon et al.	
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648	AIA (FITF) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to claims submitted 04/19/2019.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☒ The allowed claim(s) is/are 1-7,9-10,12-14,21,23 and 26-36. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

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

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

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

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

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

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	

/OLUMIDE AJIBADE AKONAI/ Primary Examiner, Art Unit 3648	

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 19, 2019 has been entered.

Allowable Subject Matter

3. Claims 1-7, 9, 10, 12-14, 21, 23, and 26-36 are allowed.

4. The following is an examiner's statement of reasons for allowance: Claims 1, 26, 34, and 36 are in view of the amendment to claim 1 and associated remarks submitted April 19, 2019. They are persuasive over The prior art of record, Kates 20050275530, Hager 20020024452, Lindsey 20040116822, Sinclair 7,127,270, and Seo 7,209,487.

Claims 2-7, 9, 10, 12-14, 21, and 23 are allowed by virtue of being dependent on claim 1.

Claims 27-33 are allowed by virtue of being dependent on claim 26.

Claim 35 is allowed by virtue of being dependent on claim 34.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kong et al 20050012640.

Salazar et al 5,802,467.

Benda 5,798,945.

Liu 20040246382.

Parvulescu et al 5,802,460.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on Monday-Friday 8AM-4PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, VLADIMIR MAGLOIRE can be reached on 571-270-5144. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/OLUMIDE AJIBADE AKONAI/
Primary Examiner, Art Unit 3648

<i>Notice of References Cited</i>	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoon et al.	
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Code-Number-Kind Code	Country	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20050012640-A1		01-2005	Kong, Qin	G08C17/02	340/870.17
*	B	US-5802467-A		09-1998	Salazar, Joe Andrew	H04B10/1149	455/420
*	C	US-5798945-A		08-1998	Benda, George	G08B21/14	340/538
*	D	US-20040246382-A1		12-2004	Liu, Chien-Chih	G08C17/02	348/734
*	E	US-5802460-A		09-1998	Parvulescu, Adrian	H04B1/202	455/419
	F						
	G						
	H						
	I						
	J						
	K						
	L						
	M						

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20190505

<i>Search Notes</i> 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoan et al.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648

CPC - Searched*		
Symbol	Date	Examiner
H04W84/18 84/12 4/043 48/16 4/20	7/10/2017	OA
G08B21/182 1/08 25/009 17/10 25/007 25/10 27/005	7/10/2017	OA
G08B27/00 25/016 19/00 21/02 21/12 21/18 7/06 25/10	3/8/2018	OA
H04W4/22 4/90 76/007 76/50	3/8/2018	OA
H04M2250/02 1/72533 1/6016 1/7253 1/72527	06/29/2018	OA
H04W88/02 84/042 84/14 88/021 92/02 76/10 88/06	06/29/2018	OA
F24F11/30 11/46 11/56 11/57 11/62 11/63	05/05/2019	OA
H04W84/18 84/12 4/043 48/16 4/20 48/08	05/05/2019	OA
G08C17/02 2201/42 2201/50 2201/91 2201/93	05/05/2019	OA
H04L12/2818 12/2825 12/2827	05/05/2019	OA
H04M1/72522 1/72533 2203/1016 2207/18 3/42	05/05/2019	OA

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
455	418,419,420,423	05/05/2019	OA
370	338	05/05/2019	OA
340	539.11,539.13,539.22,539.24,539.27,539.29,540	05/05/2019	OA

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/OLUMIDE AJIBADE AKONAI/ Primary Examiner, Art Unit 3648	

<i>Search Notes</i> 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoon et al.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648

Search Notes		
Search Notes	Date	Examiner
EAST search	7/10/2017	OA
EAST search	3/8/2018	OA
EAST search	06/29/2018	OA
EAST search	05/05/2019	OA
inventor and assignee search	05/05/2019	OA
google patents search	05/05/2019	OA

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
F24F	11/30 11/46 11/56 11/57 11/62 11/63	05/05/2019	OA
H04W	84/18 84/12 4/043 48/16 4/20 48/08	05/05/2019	OA
H04M	1/72522 1/72533 2203/1016 2207/18 3/42	05/05/2019	OA
H04L	12/2818 12/2825 12/2827	05/05/2019	OA
G08C	17/02 2201/42 2201/50 2201/91 2201/93	05/05/2019	OA

/OLUMIDE AJIBADE AKONAI/ Primary Examiner, Art Unit 3648	

Issue Classification 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoon et al.	
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648	

CPC						
Symbol					Type	Version
F24F	/	11	/	30	F	2018-01-01
G01D	/	21	/	00	I	2013-01-01
G08C	/	17	/	02	I	2013-01-01
H04L	/	12	/	2825	I	2013-01-01
H04L	/	12	/	2827	I	2013-01-01
H04M	/	1	/	72533	I	2013-01-01
H04M	/	3	/	42	I	2013-01-01
F24F	/	11	/	62	I	2018-01-01
G05B	/	15	/	02	I	2013-01-01
H04L	/	12	/	2818	I	2013-01-01
H04M	/	1	/	72522	I	2013-01-01
H04W	/	84	/	042	I	2013-01-01
G08C	/	2201	/	42	A	2013-01-01
G08C	/	2201	/	50	A	2013-01-01
G08C	/	2201	/	91	A	2013-01-01
G08C	/	2201	/	93	A	2013-01-01
H04M	/	2203	/	1016	A	2013-01-01
H04M	/	2207	/	18	A	2013-01-01
H04W	/	48	/	08	A	2013-01-01
H04W	/	64	/	00	A	2013-01-01
H04W	/	84	/	105	A	2013-01-01
H04W	/	88	/	08	A	2013-01-01
F24F	/	11	/	63	A	2018-01-01
F24F	/	11	/	57	A	2018-01-01
F24F	/	11	/	46	A	2018-01-01
F24F	/	11	/	56	A	2018-01-01

CPC Combination Sets					
Symbol		Type	Set	Ranking	Version
	/		/		

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	25	
/OLUMIDE AJIBADE AKONAI/ Primary Examiner, Art Unit 3648	05 May 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20190505

Issue Classification 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoan et al.	
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648	

INTERNATIONAL CLASSIFICATION			
CLAIMED			
F24F11/30	/	11	/ 30
G08C17/02	/	17	/ 02
H04L12/28	/	12	/ 28
H04M1/725	/	1	/ 725
H04M3/42	/	3	/ 42
F24F11/62	/	11	/ 62
G05B15/02	/	15	/ 02
H04W84/04	/	84	/ 04
H04W48/08	/	48	/ 08
H04W84/10	/	84	/ 10
H04W88/08	/	88	/ 08
F24F11/57	/	11	/ 57
F24F11/46	/	11	/ 46
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	25	
/OLUMIDE AJIBADE AKONAI/ Primary Examiner, Art Unit 3648	05 May 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

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	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	9	10	-	19	17	28								
2	2	-	11	-	20	18	29								
3	3	10	12	13	21	19	30								
4	4	11	13	-	22	20	31								
5	5	12	14	14	23	21	32								
6	6	-	15	-	24	22	33								
7	7	-	16	-	25	23	34								
-	8	-	17	15	26	24	35								
8	9	-	18	16	27	25	36								

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	25	
/OLUMIDE AJIBADE AKONAI/ Primary Examiner, Art Unit 3648	05 May 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

<i>Index of Claims</i> 	Application/Control No. 15/405,793	Applicant(s)/Patent Under Reexamination Shamoan et al.
	Examiner OLUMIDE T AJIBADE AKONAI	Art Unit 3648

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	07/10/2017	03/08/2018	06/29/2018	10/21/2018	05/05/2019				
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3	3	✓	✓	✓	✓	=				
4	4	✓	✓	✓	✓	=				
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24	35					=				
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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Multiple sheets used when necessary)</i>	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
	Examiner	Ajibade Akonai, Olumide
SHEET 1 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	4,918,439	04-1990	Wozniak et al.	
	2	4,965,557	10-1990	Schepers et al.	
	3	5,109,222	04-1992	Welty	
	4	5,247,580	09-1993	Kimura et al.	
	5	5,544,036	08-1996	Brown, Jr. et al.	
	6	5,545,857	08-1996	Lee et al.	
	7	5,579,496	11-1996	Van Steenbrugge	
	8	5,621,662	04-1997	Humphries et al.	
	9	5,778,256	07-1998	Darbee et al.	
	10	5,805,530	09-1998	Youngberg	
	11	5,818,428	10-1998	Eisenbrandt et al.	
	12	5,917,105	06-1999	Xu et al.	
	13	5,917,405	06-1999	Joao	
	14	5,924,486	07-1999	Ehlers et al.	
	15	5,990,803	11-1999	Park	
	16	6,005,490	12-1999	Higashihara	
	17	6,014,089	01-2000	Tracy et al.	
	18	6,081,750	06-2000	Hoffberg et al.	
	19	6,104,334	08-2000	Allport	
	20	6,192,282	02-2001	Smith et al.	
	21	6,195,589	02-2001	Ketcham	
	22	6,216,956	04-2001	Ehlers et al.	
	23	6,223,029	04-2001	Stenman et al.	
	24	6,260,765	07-2001	Natale et al.	
	25	6,264,559	07-2001	Lawrence et al.	
	26	6,301,481	10-2001	Rogers et al.	
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	28	6,343,255	01-2002	Peek	
	29	6,393,297	05-2002	Song	

Examiner Signature	/OLUMIDE AJIBADE AKONAI/	Date Considered	05/02/2019
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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Multiple sheets used when necessary)</i>	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
	Examiner	Ajibade Akonai, Olumide
SHEET 2 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number <i>Number - Kind Code (if known)</i> Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	6,394,359	05-2002	Morgan	
	31	6,398,727	06-2002	Bui et al.	
	32	6,400,956	06-2002	Richton	
	33	6,476,714	11-2002	Mizuta	
	34	6,650,249	11-2003	Meyer et al.	
	35	6,813,474	11-2004	Robinson et al.	
	36	6,820,049	11-2004	Monroe et al.	
	37	6,847,822	01-2005	Dennison et al.	
	38	6,854,660	02-2005	Yoon et al.	
	39	6,873,824	03-2005	Flick	
	40	6,919,790	07-2005	Kanazawa	
	41	6,934,862	08-2005	Sharood et al.	
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	48	7,043,635	05-2006	Keech	
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	57	7,610,113	10-2009	Cocciadiferro et al.	
	58	7,639,157	12-2009	Whitley et al.	

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	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
(Multiple sheets used when necessary)	Examiner	Ajibade Akonai, Olumide
SHEET 3 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	59	7,643,823	01-2010	Shamoon et al.	
	60	7,792,256	09-2010	Arledge et al.	
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	63	8,064,935	11-2011	Shamoon et al.	
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	65	2001/0025349	09-2001	Sharood et al.	
	66	2001/0035817	11-2001	Mizuta	
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	69	2002/0029342	03-2002	Keech	
	70	2002/0059146	05-2002	Keech	
	71	2002/0072356	06-2002	Yamashita et al.	
	72	2002/0094777	07-2002	Cannon et al.	
	73	2002/0133545	09-2002	Fano et al.	
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	75	2002/0165024	11-2002	Puskala	
	76	2002/0177109	11-2002	Robinson et al.	
	77	2002/0198990	12-2002	Bradfield et al.	
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	80	2003/0080772	05-2003	Giacomini et al.	
	81	2003/0087642	05-2003	Mazzara	
	82	2003/0104820	06-2003	Greene et al.	
	83	2003/0134623	07-2003	Kanamura et al.	
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	85	2003/0193428	10-2003	Moransais	
	86	2003/0210126	11-2003	Kanazawa	
	87	2004/0053641	03-2004	Leung et al.	

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	First Named Inventor	Charles Shamoon	
	Art Unit	3648	
(Multiple sheets used when necessary)		Examiner	Ajibade Akonai, Olumide
SHEET 4 OF 6		Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	88	2004/0063446	04-2004	Kennett	
	89	2004/0066092	04-2004	Muller	
	90	2004/0086090	05-2004	Naidoo et al.	
	91	2004/0092282	05-2004	Kim et al.	
	92	2004/0128033	07-2004	Ku et al.	
	93	2004/0214576	10-2004	Myers et al.	
	94	2004/0235446	11-2004	Flaherty et al.	
	95	2004/0260406	12-2004	Ljunggren et al.	
	96	2004/0263349	12-2004	Haughawout et al.	
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	100	2005/0085928	04-2005	Shani	
	101	2005/0131551	06-2005	Ruutu et al.	
	102	2005/0259618	11-2005	Ahya et al.	
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	104	2006/0022816	02-2006	Yukawa	
	105	2006/0046725	03-2006	Sonnenrein et al.	
	106	2006/0147003	07-2006	Archacki, Jr. et al.	
	107	2006/0149395	07-2006	Archacki, Jr. et al.	
	108	2007/0167179	07-2007	Shamoon et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
	109	WO 01/65875	09-07-2001	Sabie		

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SHEET 5 OF 6	Attorney Docket No.	UBQCN.001C2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	110	Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal "Intelligent and Versatile Control Terminal", 2 pages LZT 123 7602 R1D, 2003.	
	111	Sony Ericsson Mobile Communications International GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003.	
	112	Cellgard--Cellgard Technical Specifications, "Cellgard", http://www.cellgard.com/specs/index.html , 3 pages, Oct. 17, 2005.	
	113	Cellgard--Frequently Asked Questions, "Cellgard", http://www.cellgard.com/faq/index.html , 4 pages, Oct. 17, 2005.	
	114	Cellgard--Use your GSM cellphone as a remote control for almost anything, "Cellgard", http://www.cellgard.com/index.html , 2 pages, Oct. 17, 2005.	
	115	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. Central Security Group nationwide, Inc., Case No. 18-cv-00368-JED-FHM, filed July 17, 2018, in 17 pages.	
	116	Answer, Affirmative Defenses, and Counterclaims to Plaintiff's Complaint for Patent Infringement, Ubiquitous Connectivity, LC v. Central Security Group Nationwide, Inc. Case No. 4:18-cv-00368-JED-FHM, filed October 4, 2018, in 19 pages.	
	117	Answer to Defendant's Counterclaims, Ubiquitous Connectivity, LP v. Central Security Group-Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed October 22, 2018, in 6 pages.	
	118	Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. Central Security Group Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed October 4, 2018, in 26 pages.	
	119	Opposition to Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. Central Security Group Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed November 5, 2018, in 219 pages.	
	120	Reply in Support of Rule 12(b)(6) Motion to Dismiss For Failure to State Claim, Ubiquitous Connectivity, LC v. Central Security Group Nationwide, Inc. Case No. 4:18-cv-00368-JED-FHM, filed November 26, 2018, in 13 pages.	
	121	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. City of San Antonio by and through its agent, City Public Service Board of San Antonio d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed July 12, 2018, in 16 pages.	
	122	Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim and Memorandum of Law in Support Thereof, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed September 20, 2018, in 26 pages.	
	123	Answer, Affirmative Defenses, and Counterclaims to Plaintiff's Complaint, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed September 20, 2018, in 18 pages.	
	124	Answer to Defendant's Counterclaims, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed October 11, 2018, in 6 pages.	
	125	Opposition to Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed November 5, 2018, in 216 pages.	

Examiner Signature /OLUMIDE AJIBADE AKONAI/	Date Considered 05/02/2019
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	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
	Examiner	Ajibade Akonai, Olumide
SHEET 6 OF 6	Attorney Docket No.	UBQCN.001C2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	126	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP, v. TXU Energy Retail Company LLC, Case 3:18-cv-02084-K, filed August 10, 2018, in 15 pages.	
	127	First Amended Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. TXU Energy Retail Company LLC, Case No. 3:18-cv-02084-K, filed December 28, 2018, in 21 pages.	
	128	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. TXU Energy Retail Company LLC., Case 6:17-cv-00433-RWS-JDL, Filed July 27, 2017, in 14 pages.	
	129	Final Judgment, Ubiquitous Connectivity, LP, v. TXU Energy Retail Company LLC, Case No. 6:17cv0433-RWS-JDL, Filed October 23, 2017, in 1 page.	

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Examiner Signature /OLUMIDE AJIBADE AKONAI/	Date Considered 05/02/2019
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S181	4	"6990335".pn.",7257397".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 11:26
S182	87	("20010025349" "20020133545" "20020149705" "20030034897" "20030034898" "20030210126" "20040092282" "20040128033" "20050044225" "4918439" "4965557" "5109222" "5247580" "5544036" "5545857" "5579496" "5621662" "5778256" "5805530" "5818428" "5917105" "5924486" "6005490" "6014089" "6081750" "6104334" "6192282" "6195589" "6216956" "6260765" "6264559" "6301484" "6393297" "6394359" "6398727" "6650249" "6820049" "6847822" "6854660" "6873824").PN. OR ("6990335").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/02 11:28
S183	2	S181 AND ((F24F11/30 OR F24F11/46 OR F24F11/56 OR F24F11/57 OR F24F11/62 OR F24F11/63 OR G08C17/02 OR G08C2201/42 OR G08C2201/50 OR G08C2201/91 OR G08C2201/93 OR H04L12/2818 OR H04L12/2825 OR H04L12/2827 OR H04M1/72522 OR H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 11:29
S184	2	S181 and activat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 11:38
S185	1118	sensor same (pressure humidity temperature moisture smoke "carbon monoxide" gas fire heat) same (alert message alarm\$3) same (command\$3 instruct\$4 word character text) with (((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 11:52
S186	43	S185 AND ((F24F11/30 OR F24F11/46 OR F24F11/56 OR F24F11/57 OR F24F11/62 OR F24F11/63 OR G08C17/02 OR G08C2201/42 OR G08C2201/50 OR G08C2201/91 OR	US-PGPUB; USPAT; USOCR;	OR	OFF	2019/05/02 11:56

		G08C2201/93 OR H04L12/2818 OR H04L12/2825 OR H04L12/2827 OR H04M1/72522 OR H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08).CPC.)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S187	391	("4338492" "4349701" "4356509" "4377729" "4392022" "4414432" "4427847" "4456925" "4465902" "4482947" "4508935" "4626847" "4718112" "4775996" "4855746" "4999622" "5138649" "5268666" "5341167" "5369685" "5428388" "5481595" "5584054").PN. OR ("5802467").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/02 12:01
S188	53	S185 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2019/05/02 12:11
S189	218	sensor\$1 with "base unit" with (phone PDA wtru "user equipment" ((mobile cellular wireless) adj (phone device station terminal)) WCD)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 12:14
S190	100	S189 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2019/05/02 12:38
S191	1	"15405793"	US-PGPUB; USPAT	OR	OFF	2019/05/02 13:16
S192	4	"8064935".pn.",6990335".pn.",7257397".pn.",9602655".pn.	US-PGPUB; USPAT	OR	OFF	2019/05/02 13:18
S193	4	S192 and (authorized unauthorized)	US-PGPUB; USPAT	OR	OFF	2019/05/02 13:22
S194	56	sensor same (command\$3 instruct\$4) same ((cellular wireless) near2 (network system)) same (environmental moisture humidity temperature heat pressure) AND (455/418,419,420,466.ccls. or 370/338.ccls. or 340/539.11,539.13,539.22,539.24,539.27,539.29,540.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 13:25
S195	0	sensor same (pressure humidity temperature moisture smoke "carbon monoxide" gas fire heat) same (command\$3 instruct\$4) with ((single one) near (word character text)) with (((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 21:52
S196	3	(pressure humidity temperature moisture smoke "carbon monoxide" gas fire heat) same (command\$3 instruct\$4) with ((single one) near (word character text)) with (((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 22:09

		"wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet)				
S197	3	(pressure humidity temperature moisture smoke "carbon monoxide" gas fire heat) same (command\$3 instruct\$4) with ((single one) near (word character text)) with (((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 22:10
S198	177	(command\$3 instruct\$4) with ((single one) near (word character)) with (((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/02 22:15
S199	55	S198 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2019/05/02 22:17
S200	7	((single one) near (word character)) with (associat\$3 match\$3 correspond\$3) near5 (command\$3 instruct\$4) with (remote\$2 near5 (control controlled controlling))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 08:23
S201	31	((single one) near (word character)) with (command\$3 instruct\$4) with (remote\$2 near5 (control controlled controlling))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 08:25
S202	10	((single one) near (word character)) with (command\$3 instruct\$4) and 455/419.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 08:28
S203	12	((single one) near (word character)) with (command\$3 instruct\$4) and 455/419.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/05/03 08:28

			DERWENT; IBM_TDB			
S204	193	((single one) near (word character)) with (command\$3 instruct\$4) and 340/\$.cls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/03 08:35
S205	127	S204 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2019/05/03 08:37
S206	0	((((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) near3 (send\$3 sent transmit\$4 transmission) near3 ((single one) near (word character)) with (command\$3 instruct\$4 control shut\$1off shut\$1down reduc\$4 increas\$3 decreas\$3) with (temperature pressure humidity heat)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 08:46
S207	5	((((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) near3 (send\$3 sent transmit\$4 transmission) near3 ((single one) near (word character)) with (command\$3 instruct\$4 control shut\$1off shut\$1down reduc\$4 increas\$3 decreas\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 08:49
S208	377	((((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) with ((single one) near (word character)) with (command\$3 instruct\$4 control shut\$1off shut\$1down reduc\$4 increas\$3 decreas\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 08:54
S209	72	((((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2019/05/03 08:54

		(terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) with ((single one) near (word character)) with (command\$3 instruct\$4) same (control\$3 shut\$1off shut\$1down reduc\$4 increas\$3 decreas\$3)	EPO; JPO; DERWENT; IBM_TDB			
S210	15	S209 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2019/05/03 08:59
S211	1	("single character" "single word") near5 (instruct\$4 command\$3) same (wireless\$2 cellular) same control\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 09:02
S212	18	("single character" "single word") near5 (instruct\$4 command\$3) same (wireless\$2 cellular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 09:02
S213	2201	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) with (Key\$1pad key\$1board) with key\$1 with (command\$3 instruct\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 09:07
S214	25	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) with (Key\$1pad key\$1board) with key\$1 with (command\$3 instruct\$4) with (shut\$1off shut\$1down reduc\$4 increas\$3 decreas\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 09:09
S215	861	S213 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2019/05/03 09:10
S217	66	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2019/05/03 09:11

		(terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) with (Key\$1pad key\$1board) with key\$1 with (correspond\$4 match\$3 asociat\$3) with (command\$3 instruct\$4)	EPO; JPO; DERWENT; IBM_TDB			
S218	23	S217 and (@ad<="20041118" or @rlad<="20041118")	US-PGPUB; USPAT	OR	OFF	2019/05/03 09:13
S219	16	S218 AND ((H04M1/2535 OR H04M1/72519 OR H04M1/72533 OR G06F3/0219).CPC.)	US-PGPUB; USPAT	OR	OFF	2019/05/03 10:17
S220	0	"10846758"	US-PGPUB; USPAT	OR	OFF	2019/05/03 10:29
S221	1	"5802460".pn.	US-PGPUB; USPAT	OR	OFF	2019/05/03 10:30
S222	3	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) same (Key\$1pad qwerty key\$1board) with key\$1 with (correspond\$4 match\$3 asociat\$3) with (plurality multiple two) near3 (command\$3 instruct\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 10:40
S223	51	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) same (Key\$1pad qwerty key\$1board) with key\$1 with (plurality multiple two) near3 (command\$3 instruct\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/03 10:44
S224	102	(((wireless mobile portable cellular RF hand\$1held hand) adj (phone node\$1 telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or hand\$1set or (subscriber adj (unit\$1 terminal\$1)) or (user adj equipment) MCU WCD PDA "mobile communication device" "wireless communication device" "mobile communication unit" "personal digital assistant" WTRU (subscriber near station\$1) smart\$1phone\$1 "portable communication device" "portable communication unit" "wireless communication device" laptop tablet) same (Key\$1pad key\$1board) with (key\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/03 10:51

		character\$1 word\$1) with (correspond\$4 match\$3 associat\$3) with (command\$3 instruct\$4)				
S225	36	S224 not S217	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/03 10:52
S226	2	"15327295"	US-PGPUB; USPAT	OR	OFF	2019/05/03 13:48

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("base unit" and command and chang\$3 and environmental and instruct\$3).clm. AND (F24F11/30 OR F24F11/46 OR F24F11/56 OR F24F11/57 OR F24F11/62 OR F24F11/63 OR G08C17/02 OR G08C2201/42 OR G08C2201/50 OR G08C2201/91 OR G08C2201/93 OR H04L12/2818 OR H04L12/2825 OR H04L12/2827 OR H04M1/72522 OR H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08).CPC.)	US-PGPUB; USPAT	OR	OFF	2019/05/05 08:24
L2	0	("base unit" and command and single and word and character).clm. AND (F24F11/30 OR F24F11/46 OR F24F11/56 OR F24F11/57 OR F24F11/62 OR F24F11/63 OR G08C17/02 OR G08C2201/42 OR G08C2201/50 OR G08C2201/91 OR G08C2201/93 OR H04L12/2818 OR H04L12/2825 OR H04L12/2827 OR H04M1/72522 OR H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08).CPC.)	US-PGPUB; USPAT	OR	OFF	2019/05/05 08:25
L3	1	("base unit" and command and single and word and character).clm.	US-PGPUB; USPAT	OR	OFF	2019/05/05 08:26
L4	14	Shamoon.in. AND (F24F11/30 OR F24F11/46 OR F24F11/56 OR F24F11/57 OR F24F11/62 OR F24F11/63 OR G08C17/02 OR G08C2201/42 OR G08C2201/50 OR G08C2201/91 OR G08C2201/93 OR H04L12/2818 OR H04L12/2825 OR H04L12/2827 OR H04M1/72522 OR H04M1/72533 OR H04M2203/1016 OR H04M2207/18 OR H04M3/42 OR H04W48/08).CPC.)	US-PGPUB; USPAT	OR	OFF	2019/05/05 08:26
L5	87	("20010025349" "20020133545" "20020149705" "20030034897" "20030034898" "20030210126" "20040092282" "20040128033" "20050044225" "4918439" "4965557" "5109222" "5247580" "5544036" "5545857" "5579496" "5621662" "5778256" "5805530" "5818428" "5917105" "5924486" "6005490" "6014089" "6081750" "6104334" "6192282" "6195589" "6216956" "6260765" "6264559" "6301484" "6393297" "6394359" "6398727" "6650249" "6820049" "6847822" "6854660" "6873824").PN. OR ("6990335").URPN.	US-PGPUB; USPAT	OR	OFF	2019/05/05 08:37

EAST Search History

L6	138	Shamoon.in.	US- PGPUB; USPAT	OR	OFF	2019/05/05 08:38

5/ 5/ 2019 9:36:10 AM

C:\Users\oajibadeakonai\Documents\EAST\Workspaces\15405793.wsp

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

20995 7590 05/10/2019
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	UBQCN.001C2	1009

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

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	08/12/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
AJIBADE AKONAI, OLUMIDE	3648	455-466000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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 Knobbe, Martens,2 Olson & Bear LLP

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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

UBIQUITOUS CONNECTIVITY, LP

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

LITTLE ELM, TEXAS

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 11-1410

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29☐ Applicant asserting small entity status. See 37 CFR 1.27☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Jacob Peterson/Date May 10, 2019Typed or printed name Jacob PetersonRegistration No. 65096

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors	:	Shamoon et al.
App. No.	:	15/405,793
Filed	:	January 13, 2017
For	:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
Examiner	:	AJIBADE AKONAI, OLUMIDE
Art Unit	:	3648
Conf. No.	:	1009

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE**Mail Stop Issue Fee**

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

In response to the Statement of Reasons for Allowance in the Notice of Allowance, Applicant agrees that the claimed subject matter is patentable. Applicant respectfully asserts that there may be additional reasons for patentability of the claimed subject matter not explicitly stated in this record, and Applicant does not waive the rights to such arguments by not further addressing such reasons herein. Moreover, to the extent that there is any implication in the Statement that the patentability of the claims rests on the recitation of a single feature or the combination of particular features in a particular claim, Applicant respectfully disagrees, since patentability rests on each claim taken as a whole.

Applicant also respectfully reserves the right to traverse the characterizations of what any particular reference shows or teaches, of what any combination of references shows or teaches, or the appropriateness of combining references. Further, Applicant is not conceding that previously pending claims are not patentable. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the application's disclosure.

Application No.: 15/405,793
Filing Date: January 13, 2017

Accordingly, reviewers of this or any parent, child, or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: May 10, 2019

By: Jacob Peterson/

Jacob Peterson
Registration No. 65,096
Attorney of Record
Customer No. 20995
(949) 760-0404

30479938

Electronic Patent Application Fee Transmittal				
Application Number:		15405793		
Filing Date:		13-Jan-2017		
Title of Invention:		UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:		Charles Shamoon		
Filer:		Jacob Lee Peterson/MIREYA VELEZ		
Attorney Docket Number:		UBQCN.001C2		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				500

Electronic Acknowledgement Receipt	
EFS ID:	35976214
Application Number:	15405793
International Application Number:	
Confirmation Number:	1009
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles Shamoan
Customer Number:	20995
Filer:	Jacob Lee Peterson/Sandra Autry
Filer Authorized By:	Jacob Lee Peterson
Attorney Docket Number:	UBQCN.001C2
Receipt Date:	10-MAY-2019
Filing Date:	13-JAN-2017
Time Stamp:	14:32:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 500
RAM confirmation Number	051319INTEFSW14332400
Deposit Account	111410
Authorized User	Sandra Autry
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	IssueFeeTransmittal.pdf	169585	no	1
			112419676809c12b9b7001ca60db0c96b7b86679		
Warnings:					
Information:					
2	Post Allowance Communication - Incoming	comments.pdf	17680	no	2
			b2d62a15e1c9536b6434bc7899eded268ac47993		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30172	no	2
			2b5cf7fcc06703fa8778b2fa477925c53cf4e47f		
Warnings:					
Information:					
Total Files Size (in bytes):			217437		
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
15/405,793	01/13/2017	3648	1110	UBQCN.001C2	20	3

CONFIRMATION NO. 1009
CORRECTED FILING RECEIPT

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614



CC000000108292863

Date Mailed: 05/20/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

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

Applicant(s)

UBIQUITOUS CONNECTIVITY, LP, Little Elm, TX;

Power of Attorney: The patent practitioners associated with Customer Number 20995

Domestic Priority data as claimed by applicant

This application is a CON of 13/271,203 10/11/2011 PAT 9602655
which is a CON of 11/686,993 03/16/2007 PAT 8064935
which is a DIV of 11/163,372 10/17/2005 PAT 7257397
which is a DIV of 11/160,006 06/06/2005 PAT 6990335
which claims benefit of 60/522,887 11/18/2004

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 01/17/2017

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/405,793**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Preliminary Class

455

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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,

page 2 of 4

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 (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	01/13/2017	Charles Shamoon	UBQCN.001C2	1009
20995	7590	05/29/2019	EXAMINER	
KNOBBE MARTENS OLSON & BEAR LLP			AJIBADE AKONAI, OLUMIDE	
2040 MAIN STREET			ART UNIT	
FOURTEENTH FLOOR			PAPER NUMBER	
IRVINE, CA 92614			3648	
			NOTIFICATION DATE	
			DELIVERY MODE	
			05/29/2019	
			ELECTRONIC	

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

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

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

efiling@knobbe.com
jayna.cartee@knobbe.com



APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR/ PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
15/405,793	01/13/2017	Shamoon et al.	UBQCN.001C2

		EXAMINER	
KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614		OLUMIDE T AJIBADE AKONAI	
		ART UNIT	PAPER
		3648	20190523

DATE MAILED: _____

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

Commissioner for Patents

The IDS submitted 04/19/2019 has been considered and made of record.

/OLUMIDE AJIBADE AKONAI/
Primary Examiner, Art Unit 3648

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
(Multiple sheets used when necessary)		Examiner
SHEET 1 OF 6		Attorney Docket No.
		Ajibade Akonai, Olumide
		UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number <i>Number - Kind Code (if known)</i> Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	4,918,439	04-1990	Wozniak et al.	
	2	4,965,557	10-1990	Schepers et al.	
	3	5,109,222	04-1992	Welty	
	4	5,247,580	09-1993	Kimura et al.	
	5	5,544,036	08-1996	Brown, Jr. et al.	
	6	5,545,857	08-1996	Lee et al.	
	7	5,579,496	11-1996	Van Steenbrugge	
	8	5,621,662	04-1997	Humphries et al.	
	9	5,778,256	07-1998	Darbee et al.	
	10	5,805,530	09-1998	Youngberg	
	11	5,818,428	10-1998	Eisenbrandt et al.	
	12	5,917,105	06-1999	Xu et al.	
	13	5,917,405	06-1999	Joao	
	14	5,924,486	07-1999	Ehlers et al.	
	15	5,990,803	11-1999	Park	
	16	6,005,490	12-1999	Higashihara	
	17	6,014,089	01-2000	Tracy et al.	
	18	6,081,750	06-2000	Hoffberg et al.	
	19	6,104,334	08-2000	Allport	
	20	6,192,282	02-2001	Smith et al.	
	21	6,195,589	02-2001	Ketcham	
	22	6,216,956	04-2001	Ehlers et al.	
	23	6,223,029	04-2001	Stenman et al.	
	24	6,260,765	07-2001	Natale et al.	
	25	6,264,559	07-2001	Lawrence et al.	
	26	6,301,481	10-2001	Rogers et al.	
	27	6,301,484	10-2001	Rogers et al.	
	28	6,343,255	01-2002	Peek	
	29	6,393,297	05-2002	Song	

Examiner Signature	/OLUMIDE AJIBADE AKONAI/	Date Considered	05/02/2019
*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.			

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
(Multiple sheets used when necessary)	Examiner	Ajibade Akonai, Olumide
SHEET 2 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	6,394,359	05-2002	Morgan	
	31	6,398,727	06-2002	Bui et al.	
	32	6,400,956	06-2002	Richton	
	33	6,476,714	11-2002	Mizuta	
	34	6,650,249	11-2003	Meyer et al.	
	35	6,813,474	11-2004	Robinson et al.	
	36	6,820,049	11-2004	Monroe et al.	
	37	6,847,822	01-2005	Dennison et al.	
	38	6,854,660	02-2005	Yoon et al.	
	39	6,873,824	03-2005	Flick	
	40	6,919,790	07-2005	Kanazawa	
	41	6,934,862	08-2005	Sharood et al.	
	42	6,957,393	10-2005	Fano et al.	
	43	6,959,196	10-2005	Yarkosky	
	44	6,970,539	11-2005	Yamamoto et al.	
	45	6,990,335	01-2006	Shamoon et al.	
	46	7,005,979	02-2006	Haughawout et al.	
	47	7,031,663	04-2006	Heinonen et al.	
	48	7,043,635	05-2006	Keech	
	49	7,058,358	06-2006	Cannon et al.	
	50	7,257,397	08-2007	Shamoon et al.	
	51	7,343,226	03-2008	Ehlers et al.	
	52	7,363,031	04-2008	Aisa	
	53	7,379,997	05-2008	Ehlers et al.	
	54	7,418,428	08-2008	Ehlers et al.	
	55	7,502,656	03-2009	Thibault et al.	
	56	7,565,106	07-2009	Oh et al.	
	57	7,610,113	10-2009	Cocciadiferro et al.	
	58	7,639,157	12-2009	Whitley et al.	

Examiner Signature /OLUMIDE AJIBADE AKONAI/	Date Considered 05/02/2019
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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	15/405,793	
	Filing Date	January 13, 2017	
	First Named Inventor	Charles Shamoon	
	Art Unit	3648	
(Multiple sheets used when necessary)		Examiner	Ajibade Akonai, Olumide
SHEET 3 OF 6		Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	59	7,643,823	01-2010	Shamoon et al.	
	60	7,792,256	09-2010	Arledge et al.	
	61	7,904,074	03-2011	Karaoguz et al.	
	62	7,949,615	05-2011	Ehlers et al.	
	63	8,064,935	11-2011	Shamoon et al.	
	64	8,180,336	05-2012	Wesby	
	65	2001/0025349	09-2001	Sharood et al.	
	66	2001/0035817	11-2001	Mizuta	
	67	2001/0048376	12-2001	Maeda et al.	
	68	2002/0013819	01-2002	Lim et al.	
	69	2002/0029342	03-2002	Keech	
	70	2002/0059146	05-2002	Keech	
	71	2002/0072356	06-2002	Yamashita et al.	
	72	2002/0094777	07-2002	Cannon et al.	
	73	2002/0133545	09-2002	Fano et al.	
	74	2002/0149705	10-2002	Allen et al.	
	75	2002/0165024	11-2002	Puskala	
	76	2002/0177109	11-2002	Robinson et al.	
	77	2002/0198990	12-2002	Bradfield et al.	
	78	2003/0034897	02-2003	Shamoon et al.	
	79	2003/0034898	02-2003	Shamoon et al.	
	80	2003/0080772	05-2003	Giacomini et al.	
	81	2003/0087642	05-2003	Mazzara	
	82	2003/0104820	06-2003	Greene et al.	
	83	2003/0134623	07-2003	Kanamura et al.	
	84	2003/0186690	10-2003	Ko	
	85	2003/0193428	10-2003	Moransais	
	86	2003/0210126	11-2003	Kanazawa	
	87	2004/0053641	03-2004	Leung et al.	

Examiner Signature /OLUMIDE AJIBADE AKONAI/	Date Considered 05/02/2019
*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.	

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
(Multiple sheets used when necessary)	Examiner	Ajibade Akonai, Olumide
SHEET 4 OF 6	Attorney Docket No.	UBQCN.001C2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	88	2004/0063446	04-2004	Kennett	
	89	2004/0066092	04-2004	Muller	
	90	2004/0086090	05-2004	Naidoo et al.	
	91	2004/0092282	05-2004	Kim et al.	
	92	2004/0128033	07-2004	Ku et al.	
	93	2004/0214576	10-2004	Myers et al.	
	94	2004/0235446	11-2004	Flaherty et al.	
	95	2004/0260406	12-2004	Ljunggren et al.	
	96	2004/0263349	12-2004	Haughawout et al.	
	97	2005/0033707	02-2005	Ehlers et al.	
	98	2005/0044225	02-2005	Ota et al.	
	99	2005/0079880	04-2005	Donner et al.	
	100	2005/0085928	04-2005	Shani	
	101	2005/0131551	06-2005	Ruutu et al.	
	102	2005/0259618	11-2005	Ahya et al.	
	103	2006/0011721	01-2006	Olsen, III	
	104	2006/0022816	02-2006	Yukawa	
	105	2006/0046725	03-2006	Sonnenrein et al.	
	106	2006/0147003	07-2006	Archacki, Jr. et al.	
	107	2006/0149395	07-2006	Archacki, Jr. et al.	
	108	2007/0167179	07-2007	Shamoon et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
	109	WO 01/65875	09-07-2001	Sabie		

Examiner Signature /OLUMIDE AJIBADE AKONAI/	Date Considered 05/02/2019
*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.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	15/405,793
	Filing Date	January 13, 2017
	First Named Inventor	Charles Shamoon
	Art Unit	3648
(Multiple sheets used when necessary)	Examiner	Ajibade Akonai, Olumide
SHEET 5 OF 6	Attorney Docket No.	UBQCN.001C2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	110	Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal "Intelligent and Versatile Control Terminal", 2 pages LZT 123 7602 R1D, 2003.	
	111	Sony Ericsson Mobile Communications International GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003.	
	112	Cellgard--Cellgard Technical Specifications, "Cellgard", http://www.cellgard.com/specs/index.html , 3 pages, Oct. 17, 2005.	
	113	Cellgard--Frequently Asked Questions, "Cellgard", http://www.cellgard.com/faq/index.html , 4 pages, Oct. 17, 2005.	
	114	Cellgard--Use your GSM cellphone as a remote control for almost anything, "Cellgard", http://www.cellgard.com/index.html , 2 pages, Oct. 17, 2005.	
	115	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. Central Security Group nationwide, Inc., Case No. 18-cv-00368-JED-FHM, filed July 17, 2018, in 17 pages.	
	116	Answer, Affirmative Defenses, and Counterclaims to Plaintiff's Complaint for Patent Infringement, Ubiquitous Connectivity, LC v. Central Security Group Nationwide, Inc. Case No. 4:18-cv-00368-JED-FHM, filed October 4, 2018, in 19 pages.	
	117	Answer to Defendant's Counterclaims, Ubiquitous Connectivity, LP v. Central Security Group-Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed October 22, 2018, in 6 pages.	
	118	Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. Central Security Group Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed October 4, 2018, in 26 pages.	
	119	Opposition to Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. Central Security Group Nationwide, Inc., Case No. 4:18-cv-00368-JED-FHM, filed November 5, 2018, in 219 pages.	
	120	Reply in Support of Rule 12(b)(6) Motion to Dismiss For Failure to State Claim, Ubiquitous Connectivity, LC v. Central Security Group Nationwide, Inc. Case No. 4:18-cv-00368-JED-FHM, filed November 26, 2018, in 13 pages.	
	121	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. City of San Antonio by and through its agent, City Public Service Board of San Antonio d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed July 12, 2018, in 16 pages.	
	122	Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim and Memorandum of Law in Support Thereof, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed September 20, 2018, in 26 pages.	
	123	Answer, Affirmative Defenses, and Counterclaims to Plaintiff's Complaint, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed September 20, 2018, in 18 pages.	
	124	Answer to Defendant's Counterclaims, Ubiquitous Connectivity, LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed October 11, 2018, in 6 pages.	
	125	Opposition to Rule 12(b)(6) Motion to Dismiss for Failure to State a Claim, Ubiquitous Connectivity LP v. City of San Antonio, by and through its agent, City Public Services Board of San Antonio, d/b/a CPS Energy, Case No. 5:18-cv-00718-XR, filed November 5, 2018, in 216 pages.	

Examiner Signature /OLUMIDE AJIBADE AKONAI/	Date Considered 05/02/2019
*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.	

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	126	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP, v. TXU Energy Retail Company LLC, Case 3:18-cv-02084-K, filed August 10, 2018, in 15 pages.	
	127	First Amended Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. TXU Energy Retail Company LLC, Case No. 3:18-cv-02084-K, filed December 28, 2018, in 21 pages.	
	128	Original Complaint for Patent Infringement, Ubiquitous Connectivity, LP v. TXU Energy Retail Company LLC., Case 6:17-cv-00433-RWS-JDL, Filed July 27, 2017, in 14 pages.	
	129	Final Judgment, Ubiquitous Connectivity, LP, v. TXU Energy Retail Company LLC, Case No. 6:17cv0433-RWS-JDL, Filed October 23, 2017, in 1 page.	

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Examiner Signature /OLUMIDE AJIBADE AKONAI/	Date Considered 05/02/2019
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/405,793	07/09/2019	10344999	UBQCN.001C2	1009

20995 7590 06/19/2019
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

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 Shamoon, Little Elm, TX;
UBIQUITOUS CONNECTIVITY, LP, Little Elm, TX;
Deborah Shamoon, Little Elm, TX;
Franklin Eugene Neal, Ashland, KY;
Michael Fehnel, Fuquay Varina, NC, Deceased;

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