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	Application Number			
POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM	Filing Date			
	First Named Inventor	SHAMOON, Charles G. et al.		
	Title	UBIQUITOUS CONNECTIVITY AND		
	Art Unit			
	Examiner Name			
	Attorney Docket Number	7192-06-05		

I hereby revoke all previous powers of attorney given in the above-identified application.						
	previous powers of attorney give	ven in the ab	ove-lae	intitied applic	ation.	·
I hereby appoint:	ſ				 }	
	ociated with the Customer Number:		239	983		
OR						
Practitioner(s) nar	med below:					
	Name			Registrat	ion Numbe	r
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as my/our attorney(s) or Trademark Office conne	agent(s) to prosecute the application is	identified above	, and to t	ransact all busin	ess in the l	Jnited States Patent and
Please recognize or cha-	ange the correspondence address for the	ha ahova-idantii	fied anali	ration to		
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l <u>am</u> the:			Email		• ***	
Applicant/Inven	ntor					
	cord of the entire interest. See 37 CFR	2 71				
	er 37 CFR 3.73(b) is enclosed. (Form I	PTO/SB/96)				
	SIGNATURE of	Applicant or A	ssignee (of Record		
Signature	(May 1) - Han	. July -			Date	16-17-65
	Charles G. SHAMOON				Telephone	2146181486
Title and Company Assignee of Record						
NOTE: Signatures of all the signature is required, see be	inventors or assignees of record of the entirelow".	re Interest or their	representa	ative(s) are require	d. Submit m	ultiple forms if more than one
*Total of two (2)	forms are submitted.					

This collection of Information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (end 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.

Resideo Technologies, Inc. v. Ubiquitous Connectivity, LP

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IPR2019-01335

Patent # 8,064,935 Exhibit # 1007

PTO/SB/81 (04-05)

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

I hereby revoke all previous powers of attorney given in the above-identified application.									
I her	eby appoint:	***********		· · · · · · · · · · · · · · · · · · ·					
~		sociated v	with the Customer Number:		239	983			
	OR		'						
	Practitioner(s) n	amed be	low:						
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	our attorney(s) of mark Office conf		s) to prosecute the application erewith.	identified above	, and to t	ransact all busine	ss in the U	Inited States Patent and	
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The address associated with Customer Number: 23983									
	OR Firm or								
	Individual	Name							
	Address								
	City				State			Zip	
	Country					<u> </u>	L		
	Telephone				Email				
l am 1	the: Applicant/Inve	antor							
	• •		the entire interest See 37 CFF	2 7 1					
Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)									
SIGNATURE of Applicant or Assignee of Record									
Signature Walkiah H. Mambra Date 16-17-65									
Name Deborah H. SHAMOON Telephone 214-612-1426 Titte and Company Assignee of Record					<u>'</u>				
			e of Record rs or assignees of record of the ent	ira intornat a-th-t-		ativo(a) are	L Corker 4	JE-1- 6 19	
signatu	re is required, see	below.	s or assignees or record or the ent	ne merest or men	represent	auve(s) are required	i. Scomit mi	alupte forms if more than one	
4	*Total of two (2) forms are submitted.								

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APPLICATION DATA SHEET

Electronic Version v14

Stylesheet Version v14.1

Applicants Information:

Inventor 1:

Applicant Authority Type: Inventor
Citizenship: US
Given Name: Charles
Middle Name: G.

Family Name: SHAMOON
City of Residence: Little Elm

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Country of Residence: US

Address-1 of Mailing Address: 2436 Tisbury Way

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State of Mailing Address: TX

Postal Code of Mailing Address: 75068
Country of Mailing Address: US

Phone: Fax: E-mail:

Inventor 2:

Applicant Authority Type:InventorCitizenship:USGiven Name:Deborah

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State of Residence: TX

Country of Residence: US

Address-1 of Mailing Address: 2436 Tisbury Way

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State of Mailing Address: TX

Postal Code of Mailing Address: 75068

Country of Mailing Address: US

Phone:

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E-mail:	
Inventor 3:	
Applicant Authority Type:	Inventor
Citizenship:	US
Given Name:	Franklin
Middle Name:	Eugene
Family Name:	NEAL
City of Residence:	Ashland
State of Residence:	KY
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Address-1 of Mailing Address:	9220 Oak Hall Drive
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Inventor 4:	
Applicant Authority Type:	Inventor
Citizenship:	US
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State of Mailing Address:	NC
Postal Code of Mailing Address:	27526
Country of Mailing Address:	US
Phone:	
Fax:	
E-mail:	

Correspondence Information:

Customer Number: 23983



Application Information:

Title of Invention: UBIQUITOUS CONNECTIVITY AND

CONTROL SYSTEM FOR REMOTE

LOCATIONS

Application Type : regular, utility **Attorney Docket Number :** 7192-06-05

Request Not To Publish

I/We hereby request that the attached application not be published under 37 U.S.C. 122(b).

I/We hereby 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 agreement, that requires publication at eighteen months after filing.

Botanic Information:

Publication Information:

Suggested Figure for Publication -

Suggested Classification -

Suggested Technology Center -

Total Number of Drawing Sheets -

Representative Information:

practitioner(s) at Customer Number:

23983



as our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Domestic Priority Information:

This is a Division of US application number 11/160,006, filed 2005-06-06, now pending.

US application number 11/160006, filed 2005-06-06 is a Non-Provisional of US

application number 60/522,887, filed 2004-11-18, now pending.

Foreign Priority Information:

Assignee	intormation:	
_		

Assignee 1:

Given Name: Charles
Middle Name: G.

Family Name: SHAMOON

Address-1 of Mailing Address: 2436 Tisbury Way

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City of Mailing Address: Little Elm

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Postal Code of Mailing Address: 75068

Country of Mailing Address: US

Phone:
Fax:
E-mail:
Assignee 2:

Given Name: Deborah Middle Name: H.

Family Name: SHAMOON

Address-1 of Mailing Address: 2436 Tisbury Way

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City of Mailing Address: Little Elm

State of Mailing Address: TX

Postal Code of Mailing Address: 75068

Country of Mailing Address: US

Phone: Fax: E-mail:

FEE TRANSMITTAL

Electronic Version v10

Stylesheet Version v10

Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Application Number:

Date:

First Named Applicant: Charles G. SHAMOON

Attorney Docket Number: 7192-06-05

Art Unit: 2681

Examiner: Huy D. NGUYEN

TOTAL FEE AUTHORIZED \$ 425

Patent fees are subject to annual revisions on or about October 1st of each year.

Filing as small entity

BASIC FILING FEE

Fee Description	Fee Code	Amount \$	Fee Paid \$
Utility Filing Fee	4011	75	75
		Subtotal F	or Basic Filing Fees: \$ 75

EXTRA CLAIM FEES

Fee Description	Extra Claim	Fee Code	Amount \$	Fee Paid \$		
Total Claims : 20	0	2202	25	0		
Independent Claims : 2	0	2201	100	0		
Subtotal For Extra Claims Fees: \$ 0						

ADDITIONAL FEES

Fee Description	Extra Pages Increment	Fee Code	Amount \$	Fee Paid \$
Extra pages fee	0	2081	125	0
Examination fee		2311	100	100
Search fee		2111	250	250
			Subtotal For Addit	tional Fees: \$350

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Access Code ****

Deposit name: MILLS LAW FIRM PLLC

Deposit authorized name: Michael C. Phillips

Signature: /Michael C. Phillips/

Date (YYYYMMDD): 2005-10-17

PTO/SB/01 (04-05)
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DECLARATION — Utility or Design Patent Application

									
correspondence to:	The address associated with Customer Number	r:	23983			OR		Correspondence address below	
Name									
Address				***************************************	******				
City				State	е		···		ZIP
Country		Telephone				Ema			
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			ПАр	etition	has				ned inventor
Given Name (first and middle	[if any])				Family Name or Surname				
Charles G. SHAMOON									
Inventor's Signature Samoor Date 5/24/05						Date 5/24/05			
Residence: City	State			Cour	ntry			Citizer	nship
Little Elm	TX	•		US	US US			US	- · · · <u> · · · · </u>
Mailing Address 2436 Tisbury Way									
City	State				Zip				Country
Little Elm	TX				75068				US
NAME OF SECOND INVENT	J] A	petition ha	s bee	n filed f	or this unsigned inventor
Given Name (first and middle	[if any])					Family Nar			
Deborah H.			-1			SHAMOO	N		
Inventor's Signature	. Sham	1000							Date 5つ24-05
Residence: City	State			Cour	ntry			Citizer	
Little Elm	TX			US				US	·
Mailing Address 2436 Tisbury Way									
City	State		W		Zip			Countr	ry
Little Elm	TX				750	168		US	
Additional inventors or a legal	representative are beli	ng named or	n the ONE s	upplem	ental s	heet(s) PTO/S	 B/02A	or 02LR (ettached hereto.

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DECLARATION ADDITIONAL INVENTOR(Supplemental Sheet					ce 1 of 1	
Name of Additional Joint Inventor, if a	ny:	A petition has been filed for this unsigned inventor				
Given Name (first and middle (if an	y))	Family Name	Family Name or Surname			
Franklin Eugene		NEAL,				
Signature Franklin Eng	goo no	cal		Date	5-25-05	
Ashland Residence: City	KY State	l	JS Country	US Citize	enship	
9220 Oak Hill Drive Mailing Address						
Ashland City	KY State		41102 Zip	US	itry	
Name of Additional Joint Inventor, if a	A petitio	on has been filled for this				
Given Name (first and middle (if any	Family Namo or Surnamo					
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 Coun	try	
Name of Additional Joint Inventor, if ar	ame of Additional Joint Inventor, if any:		n has been filed for this	unsigned	inventor	
Given Name (first and middle (if any))		Family Name or Surname				
Inventor's Signature Muhaul D. January Residence: City Fuquay - Vakina 3021 BENTWILLOW Mailing Address	State N.C J DRIVE	,	USA Country	6 - Date	- 2 - 200.5 U.S.A. Cltizenship	
FUQUAY - VARINA	N.C.		27526 Zlp	Count	SA	

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SHAMOON, Charles G.

7080-04-04

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Number

DECLARATION FOR UTILITY OR

DESIGN

Attorney Docket

First Named Inventor

PATENT APPLICATION		COMPLETE IF KNOWN					
(37 CFR 1.63)	Application	n Number					
Declaration Declaration	1 -	-					
Submitted OR Submitted With Initial Filing (sure							
Filing (37 CFR 1. required)	.16 (e)) Examiner	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 ownich a patent is sought on the invention entitled	original and first inventor(s) d:	of the subject matter v	which is claimed and for				
UBIQUITOUS CONNECTIVITY AN	D CONTROL SYST	EM FOR REMOT	TE LOCATIONS				
	(Title of the Invention)						
the specification of which	(
is attached hereto							
OR							
was filed on (MM/DD/YYYY)	as Uni	ted States Application	Number or PCT International				
Application Number a	nd was amended on (MM/I	DD/YYY)	(if applicable).				
I hereby state that I have reviewed and understa amended by any amendment specifically referre	and the contents of the about	ve identified specificati	on, including the claims, as				
I acknowledge the duty to disclose information continuation-in-part applications, material inform	nation which became avail	able between the filing	n 37 CFR 1.56, including for larger and the prior application.				
and the national or PCT international filing date of the continuation-in-part application.							
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one							
country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date							
before that of the application on which priority is claimed.							
Prior Foreign Application Number(s) Country	Foreign Filing Date (MM/DD/YYYY)	Priority	Certified Copy Attached?				
US US		Not Claimed	YES NO				
i l							

[Page 1 Of 2]
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[Page 1 of 2]

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TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

Title	of
Invent	ion

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Application Number:

Date:

First Named Applicant:

Charles G. SHAMOON

Confirmation Number:

Attorney Docket Number: 7192-06-05

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Elec. Sign.	Sign. Capacity
'Michael C. Phillips/	Attorney
<u>'</u>	

Documents being submitted:	Files	
us-request	71920605-usrequ.xml	
	us-request.dtd	
	us-request.xsl	
us-fee-sheet	71920605-usfees.xml	
	us-fee-sheet.xsl	
	us-fee-sheet.dtd	
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us-declaration	DecPage3.tif	
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	Image3.tif	
	Image4.tif	
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	wipo.ent	
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Comments		

ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Submision Type : Utility Patent Filing

Application Number:

11/163372

EFS ID: 94768

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	4371
	Eer assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: http://www.uspto.gov/ebc/

First Named Applicant: Charles SHAMOON

Attorney Docket Number: 7192-06-05

Timestamp: 2005-10-17 11:41:00 EDT

From: us

File Listing:

Doc. Name	File Name	Size (Bytes)	
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			(yyyymmdd)
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us-declaration	DecPage3.tif	60850	2005-10-17
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application-body	isoamsc.ent	1460	2005-10-17
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application-body	isodia.ent	1508	2005-10-17

Doc. Name	File Name	Size (Bytes)	Date
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			(yyyymmdd)
application-body	isogrk1.ent	4030	2005-10-17
application-body	isogrk2.ent	2259	2005-10-17
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application-body	mathml2-qname-1.mod	13225	2005-10-17
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Commerce,o=U.S. Government,c=US

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS DESCRIPTION

Related Application

[Para 1] This application is a divisional of United States Application No. 11/160,006, filed June 6, 2005, which claims the benefit of United States Provisional Application No. 60/522,887, filed November 18, 2004, in the name of Charles Shamoon and entitled "Ubiquitous Connectivity and Control System for Remote Locations".

Field of the Invention

[Para 2] The present invention relates to a remote monitoring and control system for an environment. More specifically, the system relates to on demand bidirectional communication between a remote access unit and a multifunctional base control unit in a geographically remote location.

Background of the Invention

[Para 3] In addition to a main residence, modern times provide people and families with vacation homes that are geographically remote from the regular places of residence. Also, owners of businesses generally have their place of business remote from their residence. These structures tend to be affected by changes in environmental characteristics, either natural (i.e., weather conditions), or non-natural (i.e., vandalism, break-ins, etc.). Generally, a thermostat monitors the ambient temperature and regulates a heating/cooling appliance to keep the building within the predefined temperature range thereby accomplishing the typical environmental control. The typical thermostat only monitors the ambient

temperatures. Where the building is in a volatile climatic region, it is not always feasible to maintain the full functions of the appliances year round. For example, a building located in a region known for very warm temperatures, if the owner resides several hundred miles away, there would be no need to activate a cooling system on an abnormally warm day during a virtually cool season. There is no system found that monitors the ambient environmental factors within a predefined range of values, upon an exception to the predefined values, alerts the remotely located owner, and allows the owner to remotely redefine the acceptable environmental parameters. Thus a remote control system solving the aforementioned problem, as well as several others, is desired.

[Para 4] The home control industry is a rapidly growing, multi-billion dollar industry. This growth has been accompanied by the recent development of smart appliances and efforts to development a universal protocol for home control by major companies. The present invention provides the next major development in today's home control industry, ubiquitous connectivity and control of structure environment.

[Para 5] The home control industry has taken steps toward ubiquitous connectivity and control over the years, but these steps have fallen short until now. The home control industry has moved from ultrasonic remote control to infrared remote control to local RF remote control and on to land-line phone home-away-from-home remote control. The advent of improved cell phone technology provided more mobility and convenience to home-away-from-home control. High-speed and wireless Internet access has allowed connectivity to the home through home-based and wireless laptop computers. While an advance in connectivity, mobile Internet connectivity, like its predecessors, is not without significant challenges, especially with mobility and convenience.

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

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

[Para 7] Other technologies used for home automation include power line carrier and telephone line. Power line carrier and telephone line systems both have the benefit of being able to use existing facility wiring for communications. Each has its own benefits and detriments. Power line systems operate on existing building electrical wiring while telephone line systems use existing telephone wiring. Electrical wiring is usually available in more locations within a building than is telephone wiring. Telephone line systems are generally more secure.

[Para 8] By far the most popular and ubiquitous power line carrier system is the X10. This system use transmitter, receiver, and controller modules connected to the building wiring, usually by plugging directly into an electrical outlet. Each module is individually addressed by a companion module, which is responsive to commands issued or received that are encoded with a preset digital address. The X10 system, like most power line carrier technologies, is characteristically confined to operation within a very limited area, such as within a single building. Newer interfaces have been developed to allow control of a broad range of external communications systems with X10 systems.

[Para 9] The need to expand the geographic range of control for a limited system, such as power line carrier, radio frequency, or infrared, led to the development of telephone interfaces, including voice, DTMF, and Caller ID. While such systems allow users to exercise

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

[Para 10] The availability of personal computers, the Internet, and broadband networks has fueled the explosion in the number of home automation methods and devices.

Controlling software is available for Windows, Macintosh, Linux, and DOS based computers.

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

[Para 11] One of the most relevant entries into the home automation universe is the cellular telephone. In their most basic mode, cell phones can be used to control the same systems accessible by conventional telephones through the dial-up POTS network. A more advanced method involves the use of the cell phone network's short message service ("SMS") in which text messages are sent to and received from a controlled system. SMS messages travel on the same cellular network (on the same physical layer) as standard voice calls but on a different logical channel.

Summary of the Invention

[Para 12] The present invention uses an on-demand digital, private, and direct communications interface to overcome the shortcomings and limitations of current

communications interfacing. A digital, private, and direct-connect remote controller provides instant wireless connectivity to the home from anywhere in the world without dialing a number or waiting for a number of tones to send a command or to know the status of conditions in the home; provides silent and constant direct two-way communication privately and globally, with the home for control and monitoring of key functions; eliminates limitations, immobility, and inopportunities to connect, monitor and control the home, globally; can be configured to interface with many existing and future home automation systems and technologies; provides instant ubiquitous control for the end-user; and, if so desired, eliminates the need for the PC, modems and interconnected wiring.

[Para 13] The digital private direct connect controller allows the end-user to finally realize true global connectivity to and control of the home.

Brief Description of the Drawings

[Para 14] The above features and advantages of the present invention will become apparent upon reading the following description taken in conjunction with the accompanying drawings in which:

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

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

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

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

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

Detailed Description of the Preferred Embodiments

[Para 20] Referring to the drawings, Figure 1 illustrates a ubiquitous connectivity and control system 10 wherein a master remote control unit 12 at a geographically remote location 14 on demand interfaces with a base control unit 16 in a structure 18 to monitor and control associated devices 21 thereat through a short message and/or the data bearer cellular telephone network 22 including control towers 24. The system 10 further includes associated control units 26 that are enabled by the base control unit 16 to undertake select monitoring and controlling activities in a proximate area 28. Associated control units 26 and the master control unit 12 utilize the global position network 27 and/or the cellular telephone network 22 and towers 24 in order to determine their geographical locations 14, 20 and report this information back to the base control unit 16 using the short message and /or data bearer services of the cellular telephone network 22 and control towers 24. [Para 21] Referring to Figure 2, the master remote control unit 12 and associated remote control units 26 are Java/J2ME enable cellular telephones 30 having a keypad 32 with a plurality of keys 34 including a select button 36, and an LCD display 38 for displaying textual information 40 and graphical icons 42 responsive to commands received from the base control unit 16 or from other control units configured through base control unit 16 to work with system 10.

[Para 22] Referring to Figure 3, the cellular telephone 30 suitable as a remote control unit 12 or 26 includes a microcontroller 45 electrically interconnected with random access memory 44, read only memory 46, the keypad 32, and the LCD display 38. Power is supplied to the operational components by power control circuits 48 connected to rechargeable batteries 50. Wire 52 electrically interconnects charger 54 to system connector 49. Power from the system connector 49 is controlled through the system bus circuits 47 and microcontroller 45 to charge battery pack 50. The remote control unit 12

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

[Para 23] The custom JAVA/J2ME application software is transferred into the ROM 46 for access by the microcontroller 45. The application software can be downloaded into the ROM 46 by transmission from the cellular network 22 to the antenna 58 to the microcontroller 45, which stores the software therein. The application may also be downloaded by an external program device, such as a personal computer (not shown) by Bluetooth module 60, USB interface 62, or from the system connector 49. The RAM 44 provides service or scratchpad memory for computational use by microcontroller 45.

[Para 24] Referring to Figure 4, the base control unit 16 consists a wireless module 70 communicating with a microcontroller 106 for operating a number of separate subsystems. The microcontroller communicates with each of the subsystem components using either a serial or parallel communications bus depending upon the capabilities of the particular subsystem component.

[Para 25] The subsystems contained within the base control unit 16 consist of either off-the-shelf integrated circuits combined with discreet components or complete modules provided by other original equipment manufacturers (OEMs). As there are many different providers of components and modules, only one particular method of systems design and integration is described herein. Those skilled in the art will recognize that there are many ways to put together components and modules to achieve a design with similar features.

[Para 26] The base control unit 16 includes a plurality of communication interfaces 72, 74, 76, 78, 80, 82, 84 86 and 88 for providing the means for remote control and remote monitoring of the various subsystems within the residential environment. Remote monitoring and control can be achieved through either the wireless module 70 or the Ethernet interface 82. A multi-purpose expansion bus 89 is a proprietary bus providing a custom communications interface for accessories developed exclusively for use with the base control unit.

[Para 27] The base control unit 16 consists of an antenna 90 which is attached to the wireless interface module 70. The antenna connection may be made either directly through a connector incorporated as part of the antenna or through a coaxial cable so that the antenna 90 may be mounted at a location remote from the base control unit.

[Para 28] The wireless interface module 70 provides both voice and data communications capabilities to the base control unit 16 through audio interface 94, power interface 96 and I/O interface 98. A microphone 100 and a speaker 102 provide for voice communications to the user through the audio interface 94 of the wireless interface module 70. The power interface 96 provides power to the module 70 via power supply 104 and also allows a system microcontroller 106 to control the on/off state of the module. The power supply 104 is connected to the structure power supply through connector 108. The I/O interface 98 provides for a data pathway for digital communications over bus 110 as well as

providing the means for the system microcontroller 106 to control the various communications aspects of the wireless module 70. Data communicated over bus 110 is RS232 ASCII or text "AT" commands commonly used in telephone modem instruction sets. [Para 29] The user interacts with the base station through keypad 120 and LCD display 112 to the system microcontroller 106. Applications software embedded into the on-board ROM of the microcontroller 106 provides the functionality for interpreting the keypad 120 input and for displaying appropriate messages on the LCD display 112. Alternatively, the LCD display 112 may be of the well known touch pad design in which the keypad 120 functions are performed by pressing against predetermined screen areas that correspond to key designations. Further, the LCD Display 112 and keypad 120 may be eliminated completely with the base control unit 16 including web services that enable communication through one of the communications interfaces, such as the Ethernet 82 interface or the USB interface 80, to a connected personal computer equipped with a web browser or other communications software. The base control unit 16 is TCP/IP enabled, permitting its direct connection to a local area network or directly to the Internet. With this configuration, programming and customization of the applications software in the base control unit can be performed from anywhere in the world with an Internet connection.

[Para 30] The interfaces of the base control unit 16 provide for the control and the monitoring of a variety of subsystems within the residential environment as well as providing a means of expanding the functionality of the base station through the use of industry standard interface technologies including universal serial bus (USB) 80; the Ethernet (10/100/1000 Base-T) bus 82 and the RS-232 serial bus 78.

[Para 31] The interface 76, environmental sensor network, is implemented as a 1-Wire* network allowing for a number of various types of temperature, humidity, light-level and other sensors to be monitored by the base control unit 16. The 1-Wire* network is

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

[Para 32] The interface 74, the air handling control systems interface, provides the means by which the base station serves to control the heating, air conditioning and other air handling equipment within the residence. This interface is designed to replace the standard thermostat that is typically used within residential heating and cooling systems. The interface 74 may provide multi-zone thermostat functions control as well as an interface to electronic air dampers. The thermostat portion of the base control unit is capable of controlling an unlimited number of zones.

[Para 33] The serial data bus interface 78 allows for data communications with the wide range of devices on the market that support this type of communications interface.

Examples of such data communications include desk top computers, modems, and fax machines.

[Para 34] The USB interface 80 allows the base control unit 16 to communicate with other devices that support this type of interface. This bus can be used to expand the capabilities of the base station and add support for: persistent data storage; peripheral expansion devices (digital cameras etc); and other wireless interfaces (Bluetooth, 802.11).

[Para 35] The Digital Analog and I/O interfaces 84 and 86 respectively allow the base control unit to connect to a wide array of devices that interface to the real world. This allows the base control unit to serve as a bridge between simple devices and the networks to which the base station is connected. Examples of such would include: alarm systems; electronic locks; gate controls; pressure transducers; contact closures; and relays.

[Para 36] The multi-purpose expansion bus 89 is a proprietary bus that allows for the addition of custom accessories developed exclusively for use with the base station.

[Para 37] The power line interface 72 allows the base control unit to communicate over the power line to devices that support a power line communications interface. Examples of these type of interfaces are X10 and HomePlug.

[Para 38] The remote control units 12, 26 take advantage of either GPS Assisted ("GPSA") technology, an external GPS unit 64 or location based information provided by the cellular network 22. GPSA technology uses cellular-based location information provided by cellular infrastructure pursuant to the E911 protocol or mandate. With GPSA, cellular telephone towers locations have their own GPS receivers installed such that their coordinates are already known and can be readily communicated to the remote control units such that the normal three to five minute delay inherent in GPS position determination is avoided. For remote control units without GPSA technology, an external GPS can be used to communicate geographic location to the software within the remote control unit. The cellular carrier can further provide location based information to the cellular handset by using the cellular towers to determine its geographic location.

[Para 39] Each remote control unit 12, 26 communicates with the base control unit 16 to affect the operational aspects thereof and peripheral equipment operatively attached thereto. For example, a remote control unit can command the base control unit 16 to enter an energy conservation mode. The user moves the cursor of the LCD screen 38 until the desired operational icon 42 is highlighted. The function associated with the icon 42 by the applications software is triggered by pressing the select button 36. The applications software communicates the command to the base control unit 16 through the cellular telephone network 22. The command string so transmitted is received and processed by the base control unit 16. Upon entering this mode the base control unit 16 adjusts air handling

systems, open or close dampers, open or close window coverings, and adjusts operation of a hot water heater to conserve power consumption of the home. In the preferred embodiment, the remote control units are conventional cellular telephone handsets that are equipped with a programming kernel, such as Java or J2ME, that enables the telephone to be customized to perform functions that are not typical of standard cellular telephone operation. For example, to use a cellular telephone that has a home automation terminal in its conventional mode, the user would have to enter a telephone number, dial into a home automation controller, and press the telephone keys to send DTMF audio signals to the controller. After the session is completed, the user has to manually disconnect from the cellular network. The data path between the remote control unit and the base control unit is SMS ("simple message service".) However, the implemented port addressing scheme allows short messages to the remote control unit to bypass standard cellular telephone functions and to operate the features of the unit independently. The desired port to be addressed on the receiving unit is configured in the user data header of the SMS message that is transmitted to the receiving unit as is well known in the art. Further, the various remote control units can send SMS information to and from one another, exclusive of the base control unit in order to change the status information for a particular user. For example, if one remote control unit desires to be inactive, a command is sent to the other remote control unit to change the personal status thereof as displayed on the other units. Similarly, the remote control units can send SMS messages to the applications running in the other remote control units to affect operation parameters of those receiving remote control units. [Para 40] By way of illustration, if the base control unit notifies the remote control unit of an activation of an alarm system associated with the base control unit, the remote control unit receives textual messages and graphical indicators to alert the user. The user acknowledges receipt of the alert by pressing a button or entering a code. The

communication does not involve the voice mode for communicating between the two units. Use of a conventional programmable cellular telephone readily meets the regulatory requirement that a device that participates in the cellular network be FCC or CTIA approved.

[Para 41] SMS port addressing allows Mobile Terminated SMS messages to be processed within the cellular telephone's application software without user intervention. Such uses include Voice Mail notifications, Wireless Access Protocol WAP, E-mail, and Phone Provisioning. The Internet Assigned Numbers Authority (http://www.iana.com) is responsible for defining the use of the various ports and specific ranges of numbers have been assigned for use by application software.

[Para 42] When the Java software application is operationally accessed by microcontroller 45 and started within the remote control unit 12, it attaches itself to a specific port for the reception of SMS messages. All Mobile Terminated (MT) SMS messages that contain a User Data Header (UDH) that indicate a port address, such as 50120, will be forwarded to the application software for processing.

[Para 43] The following AT command sequence is illustrative of the commands the base station unit 16 sends to the wireless module 70 over serial communications interface 110 to send a message to the remote control unit 12 to notify it that the temperature in zone 0 is currently 72 degrees:

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

AT+CMGF=0 \r Set Module in PDU Message format

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

0041000AC10294268088000023060504C3C800003C7AB90D07E9DFEE724F041381 EC6176BDDC13DD64A2970F <ctrl-Z>

The base control unit 16 is configured to interact with and respond to multiple [Para 44] remote control units 12. If multiple remote control units 12, or associate units 26 are deployed, one of the remote control units could be considered a master and all others could be considered slaves. Specific operational characteristics of the base control unit 16 may be configured as to only respond to commands from the master remote control unit. Alternatively, the remote control units may be segregated into classes such that the base control unit responds to commands and communicates selected information to a class containing one or more remote control units. An example would be a first class consisting of remote control units operated by parents and a second class consisting of remote control units operated by children. Information pertaining to the activities of the children may be selectively reported by the base control unit to the parents. By way of illustration, when a child operating a remote control unit in the second class disarms the alarm system prior to entering the residence controlled by the base control unit, parents in the parent class are notified accordingly that the child has arrived at home. The class assignments and configurations are easily customized to provide the notifications desired by the authoritative system operators, in this case, the parents.

[Para 45] The GPS receiver module 64 including antenna 65 is optionally incorporated into the remote control unit 12 for allowing the remote control unit to communicate position information to the base control unit 16. The GPS may also be incorporated into wireless module 56, as in newer CDMA 2000 compatible cellular modules. This feature allows the base control unit to change its operational characteristics based upon the location of the remote control unit(s).

[Para 46] For example, the base control unit may adjust the water temperature and thermostats when one of the remote control units comes within a specific distance from the house. The geographic information that is acquired by the GPS subsystem in the remote

control unit (whether it is a separate GPS unit or part of the module) can be compared to settings stored in either the remote control unit itself or the base control unit to provide capabilities such as Geo-Fencing, Asset Tracking, and Bio-Location (knowing where a living entity is located).

[Para 47] In the preferred embodiment, the position data are derived from NEMA data received from the GPS component. NEMA data includes latitude, longitude, time, velocity, and heading information. Each information packet is streamed once per second. Data are captured by the remote control unit, they are processed by its application software, and the results are transmitted by port-addressed SMS to the base control unit for proximity detection. Specific remote control units can be configured in such a way that they send a status message to the base control unit if they exceed a programmed set of boundary conditions. If desired, the base control unit can on its own initiative query the remote control unit to learn its geographic location.

[Para 48] Geographic location information is programmed into the base control unit through keypad 120. Additionally, the geographic location of the base control unit may be entered into a GPS-enabled remote control unit through the application software user interface. A user-determined distance is then programmed into the remote control unit. When the remote control unit travels a distance that exceeds the programmed distance from the base control unit, the remote control unit reports this information to the base control unit. The base control unit will then send this information to the appropriate user or to a predetermined class of users. This is an example of geo-fencing and would be typically used to notify parents that one of their children has traveled beyond a set distance from the home.

[Para 49] The base control unit communicates status information to the remote control unit either on a periodic or event-driven basis. It can initiate communications based on its

aggregated inputs, or it can respond to individual requests and commands received from the remote control unit.

[Para 50] Examples of events that could cause the base control unit to initiate a communications session with the remote control unit include fire or burglar alarm activation, HVAC or freezer temperature thresholds exceeded, equipment failures, an air filter change necessary, a change in the home state vector, (occupied, unoccupied) or a geographical boundary condition exceeded by of one of the other remote control units.

[Para 51] In addition to communicating status information to the remote control unit, the base control unit will, as programmed, initiate corrective action for the indicated event. For example, upon communicating an alarm activation message to a remote control unit, the base control unit, upon detecting the presence of an authorized user arriving at the local location, could disable the alarm system. Upon the detection of a member of an authorized class member, the base control unit can start the operation of the whirlpool bath in anticipation of the user's arrival, turn on specified interior and exterior lighting, or increase

[Para 52] Yet additional geographical dependent operation or control may be provided by the inherent aspects of Bluetooth wireless technology presently available from a wide variety of professional and consumer electronic equipment manufacturers and vendors. Bluetooth radio–frequency protocol enabled devices allow totally wireless operation of devices such as computers, computer keyboards, printers, pointing devices, digital audio players, headphones, computer games, personal digital assistances, remote controls, and the like. Each Bluetooth device is characterized by one of three power classes: Class 1 is designed for long range (approximately 100m) devices, with a maximum output power of 20 dBm; Class 2 is for ordinary range devices (approximately 10m) devices, with a maximum output power of 4 dBm; and Class 3 is for short range devices (approximately 10cm) devices, with a

or decrease the thermostatic set point for the heater or air conditioner.

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 [Para 53] number. To enable the base control unit to recognize and respond to the presence of a Bluetooth enabled device, the device must be physically held within operable range of the control unit. The user instructs the control unit to request authorization from the Bluetooth device. An authorization code is manually entered into the base control unit and then into Bluetooth device. If the unique identification or serial number entered into each unit matches, it is stored and associated with the particular user or class of users, and the base control unit and the Bluetooth enable device are authenticated and are in communication with each other. At a periodic interval, the base control unit directs the Bluetooth master unit (located in the base control unit) to do a device discovery and report back the unique identification numbers it finds. If an identification number is not discovered, the user is assumed not within close proximity of the base control unit, which then reports the results to the designated class of users. If desired or necessary based on environmental circumstances, the Bluetooth receiver can be remotely located from the base control unit for controlled reception or to compensate for radio frequency coverage problems. The Bluetooth enabled device could be a cellular telephone, a watch, an MP3 player, a pendant, or any other Bluetooth equipped device compatible with current Bluetooth standards. [Para 54] In the preferred embodiment, the Bluetooth enabled remote control unit may be programmed using Java J2ME to send a message to other remote control units when they detect a specific base station control units. This feature allows multiple base station control

units in a large environment and the case that the remote control unit handles the

notification.

[Para 55] While the preferred embodiment employs popular Bluetooth technology, it should be appreciated and understood that other presently available technologies, such as 802.11(x), or future technologies can be used in the same manner as Bluetooth. The base control and remote control units each contain application software that is readily modifiable to adapt to a new or different technology or protocol.

Application software within the systems microcontroller 106 provides for [Para 56] 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, shortterm weather forecasts, family schedule and activities, structure occupancy, context, location of users; shutdown of sensitive electronic components and subsystems in cases of severe weather, or failures in other subsystems; closing and opening of windows and/or window coverings to conserve energy; control of sprinkler systems based upon current weather conditions and weather forecasts. The application software includes a macro language interpreter to enable efficient end-user customization and future expansion to the system. A macro is a miniature computer program activated by a symbol, name, or key that represents a list of commands, actions, or keystrokes. A macro allows a local or remote user to enter a single character or word to perform a series of predetermined actions.

[Para 57] Base control unit 16 further comprises the Ethernet interface 82 to respond to external web services generally accessible through an Internet connection. For example, at present, weather services on the Internet can be queried using the SOAP protocol. The services respond with timely weather information, typically encoded in XML. The base

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

[Para 58] Messages from the remote control unit 12 to the base control unit 16 do not need to rely on port addressing for processing. The base control unit 16 uses a cellular telephone module that does not contain a user interface. The processing of SMS messages is handled by the base control unit applications software.

[Para 59] The base control unit 16 commands the cellular module to send newly received SMS messages directly to the base control unit 16 over the serial port using unsolicited result codes. Upon receipt of a new message the cellular module sends the following:

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.

[Para 60] Although port addressing is not currently used when messages are sent from the remote control unit 12 to the base control unit 16 software (it still is used within the base control unit 16 cellular module for provisioning and control from the carriers), the system can utilize the port addressing to direct messages to specific subsystems that are tied to the base control unit 16.

[Para 61] The present invention thus provides an on-demand bidirectional communications interface for monitoring, controlling, and securing various environment functions and characteristics attendant the interior and exterior of a building. The system may thus monitor and control temperature, and a myriad of other environmental functions of the building include, by way of example and not limitation, temperature, power status for the building and discrete applications therein, humidity/moisture, smoke/toxic gases, structural breaches, security status, visual conditions and a host of other natural and non-natural phenomena.

[Para 62] The base control unit is preferably mounted at an appropriate location on a wall within the building to provide a local access for regulation. The base control unit is locally operatively interfaced with a plurality of sensors and devices systematically distributed throughout the building and communicating according to varying protocols such as infrared, radio frequency, X-10, and hard wiring.

[Para 63] The sensors provide continuous measurement and status of target environmental characteristics. Examples of sensor applications include utilities status, moisture and humidity detection, door and window condition, and the like. Associated

controlled devices providing operational functions refrigeration, water heating, security cameras, illumination devices, and the like.

[Para 64] The air handling unit receives signals from the associated sensors and communicates them to the base control unit 16 that, based on the processed measured characteristics thereof, activates or deactivates one or more of the devices of the unit in response to the measurement. For example, if the temperature sensor exceeds a preset value, the HVAC unit is activated, and when the measured characteristic is within a preset value range, the unit is deactivated. In addition, when a measured characteristic exceeds a predetermined value range, an alarm signal may be transmitted to a remote control unit 14 to provide an audible, tactile, and/or visual indication. Thus, if utility sensor S2 indicates a loss of electrical, water, or communications service, a signal is sent to the remote control unit 14 and the operator thereof has the ability to take corrective action in response thereto. Also, the operator may invoke the a command from the remote control unit 14 to the base control unit 16 to activate a select device such as the HVAC unit, a water heater, a refrigeration appliance or other discrete device remotely in order to prepare the building for occupancy by the operator or designee.

[Para 65] The sensors for the system are distributed throughout the building to detect the environmental characteristics of the building. These characteristics include, but are not limited to, temperature, humidity/moisture, smoke/toxic gases, structural breaches, and a host of other natural and non-natural phenomena.

[Para 66] In a conventional thermostat, a temperature sensor and switch automatically control a heating or cooling appliance when the sensed temperature is beyond a preset value. The thermostatic interface of the invention would include a temperature sensor that constantly monitors the environmental temperature and control of a heating and/or cooling appliance to maintain the building at a substantially constant temperature.

[Para 67] The thermostatic interface also receives other environmental characteristics of the building and responds in a like manner. For example, a sensor would monitor the humidity (or moisture content of the air) of the building. If the temperature monitored by temperature sensor is within the preset range value, a conventional thermostat would not adjust the heating and/or cooling appliance to regulate the moisture content, thus presenting favorable environment for the growth on molds and mildew. The thermostatic interface receives the humidity value measured by the humidity sensor, determines that the value exceeds a predefined limit, and generates an alarm signal that is transmitted as an alarm signal via the communication link to the remote control unit. The operator receives the information and transmits a control signal from the remote access unit to the base control unit via the communication link and activates the appropriate appliance in response thereto, thus reducing the humidity value to acceptable levels and preventing the progression of mold and mildew growth.

[Para 68] The sensors are distributed according to a predetermined plan that effectively makes the "most likely place" for a change in environmental characteristics to be sensed. For example, several smoke/toxic gas sensors would be distributed about the ceilings and floors so as to identify the presence of smoke (i.e. fire) or carbon monoxide (i.e. toxic gas), and relaying the measured characteristic to the thermostat. Other types of sensors would be optimally placed in order to monitor the egression of water into the building, lighting striking the building, suspension or cessation of a provided utility (i.e., electric power, water and sewer provisions, natural gas), collapse of the building or a portion thereof due to weather (i.e., tornado, hurricane, blizzard), or breach of the building security (i.e., breakins). The sensors may be hard wired through the structure of the building. Also, the sensors may have a wireless communication. The optimal presentation would be a dual connection, such a hard-wired and wireless communication, e.g., a transmitter/receiver. This provides

maximum effective monitoring of the building because the hard wiring would alleviate the need for constant battery monitoring, likewise, the wireless communication provides monitoring should the absence of electrical power be a factor. For example, the combined hard wired and wireless connection of the sensors to the unit allows the monitoring of the building and generates the alarm when the power is lost due to an area wide electrical outage. The unit transmits that information (i.e., the loss of electrical power) to the remote control unit and the operator is aware that the electrical power is absent. If the loss of electrical power were due to a nefarious figure seeking to breach the building, i.e., breaking a window to gain access, a security sensor would still be able to provide the base control unit with an indication that the building has a security breach. The base control unit, operating under an alternate electrical power supply such as a backup battery, would generate a subsequent alarm signal and transmit the subsequent alarm signal for routing through the direct connect wireless for immediate transmission to the remote control unit, thereby alerting the operator that in addition to the loss of electrical power, the security of the building has been breached. The operator can thereby contact the law enforcement facility of the local jurisdiction and have an immediate response. If the remote control units are organized in classes, such as "managers", the information would be almost simultaneously provided to each member of the class who would have a need to receive and react to it.

[Para 69] In addition to main residence use, the system is typically suited for a vacation/second dwelling, a business concern, or any building structure that is not constantly occupied. For example, if the thermostat control system is installed in a vacation home in one locality, the operator may effectively be in any other portion of the globe so long as an effective communication link is provided with the remote control unit 14.

[Para 70] Multiple base station units could be controlled through a single cellular phone for those instances where a person desires to have systems installed in multiple residences. The application software uses the Source Address field of the message to distinguish between different base control units 16.

[Para 71] It is to be understood that the present invention is not limited to the embodiments described above, but encompasses any and all embodiments within the scope of the following claim.

What is claimed is:

- [Claim 1] 1. A ubiquitous connectivity and communications system for controlling operation of an environmental condition in a structure, comprising: a device for controlling an environmental condition in the structure; a base unit in said structure and operatively interfaced with said device to control the operation thereof; at least one remote device; connectivity means providing an on-demand, private and direct communications interface between said base unit and said remote device enabling instant wireless connectivity therebetween; means for providing a indication of current status of said device to said base unit; means for transmitting said indication of current status through said connectivity means to said remote device; display means at said remote device for indicating said current status of said device; input means at said remote device for prescribing an indication of revised status for said device; means for transmitting said indication of revised status through said connectivity means to said base unit; means operatively associated with said base unit and operatively connected with said device for effecting said revised status for said device.
- [Claim 2] 2. The system as recited in claim 1 wherein said device for controlling an environmental condition includes electronic and electromechanical switching means interfaced with said device for controlling an environmental condition.
- [Claim 3] 3. The system as recited in claim 1 wherein said base unit is a microcontroller-based processing unit having customizable application specific software.
- [Claim 4] 4. The system as recited in claim 1 wherein said remote device is a cellular telephone handset with custom programmability means.
- [Claim 5] 5. The system as recited in claim 4 wherein said custom programmability means is a JAVA programming kernel.

- [Claim 6] 6. The system as recited in claim 4 wherein said custom programmability means is a J2ME programming kernel.
- [Claim 7] 7. The system as recited in claim 1 wherein said connectivity means includes a transmitting and receiving module in said base unit and a transmitting and receiving unit in said remote device operatively communicating with each other over the cellular telephone network.
- [Claim 8] 8. The system as recited in claim 1 wherein said means for providing an indication of current status to said base unit and said means for transmitting said indication of current status is an short message service (SMS) message carried along said cellular telephone network.
- [Claim 9] 9. The system as recited in claim 1 wherein said display means is a liquid crystal display module.
- [Claim 10] 10. The system as recited in claim 9 wherein said liquid crystal module includes selectable graphic icons corresponding to environmental conditions being monitored or controlled.
- [Claim 11] 11. The system as recited in claim 8 including means operative between said remote devices using said short message service (SMS) for selectively disabling transmission thereto.
- [Claim 12] 12. A detection system for selectively determining the presence of individuals within a proximate distance of a structure, said detection system comprising: a base unit at said structure; a first remote unit operated by one of the individuals and transmitting a first identification signal; a second remote device operated by another of the individuals and transmitting a second identification signal; receiving means associated with said base unit for receiving said authorizations codes when the associated remote device is within the proximate distance of the structure; selection means operatively associated with

said base unit for selectively establishing an authorized user status to said remote devices based on said identification signal; instant wireless connectivity means for transmitting to a master remote unit the presence of a remote unit with said proximate distance of said structure based on said authorized user status.

- [Claim 13] 13. The system as recited in claim 12 wherein said base unit includes a Bluetooth transmitter and receive module for bidirectional communications with said remote units.
- [Claim 14] 14. The system as recited in claim 12 wherein said base unit includes a bidirectional radio frequency communications module conforming to the 802.11 protocol.
- [Claim 15] 15. The system as recited in claim 12 wherein said remote units include cellular telephones including Bluetooth bidirectional communications modules.
- [Claim 16] 16. The system as recited in claim 12 wherein said receiving means associated with said base unit is a Bluetooth bidirectional communications module.
- [Claim 17] 17. The system as recited in claim 12 wherein said receiving means associated with said base unit is a bidirectional radio frequency communications module conforming to the 802.11 protocol.
- [Claim 18] 18. The system as recited in claim 12 wherein said selection means comprises a microcontroller-based processing unit having customizable application specific software.
- [Claim 19] 19. The system as recited in claim 12 wherein said instant wireless connectivity means is a radio frequency communications channel according to the Bluetooth communications protocol.
- [Claim 20] 20. The system as recited in claim 12 wherein said instant wireless connectivity means is a radio frequency communications channel according to the 802.11 communications protocol.

ABSTRACT

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

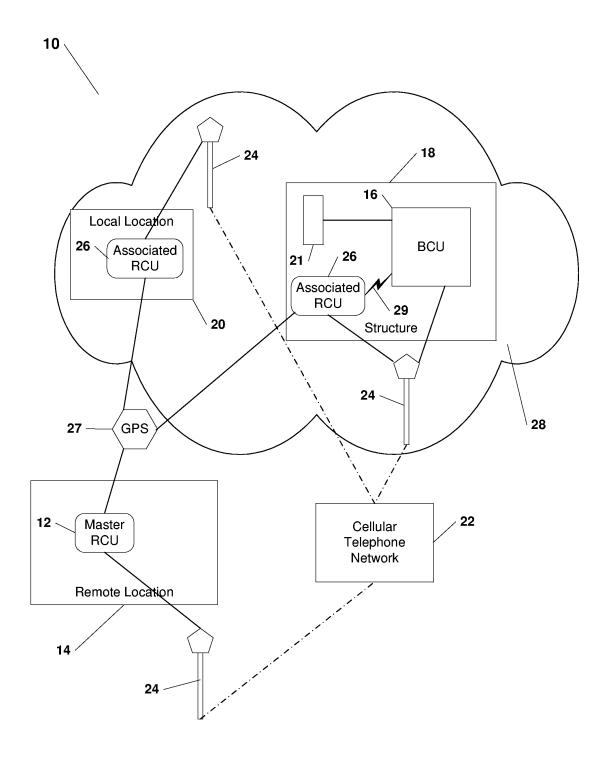


Fig. 1

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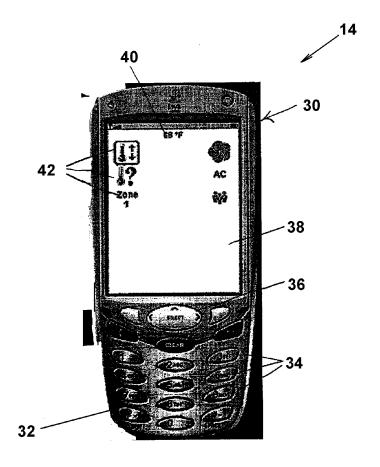
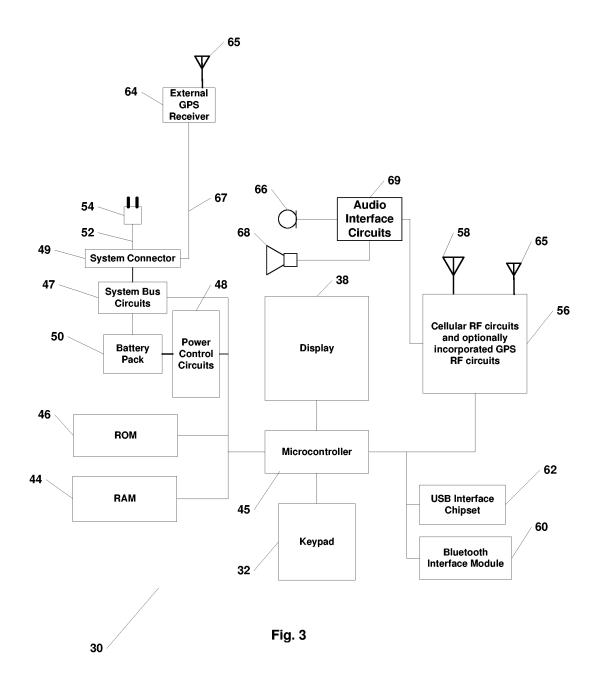


Fig. 2



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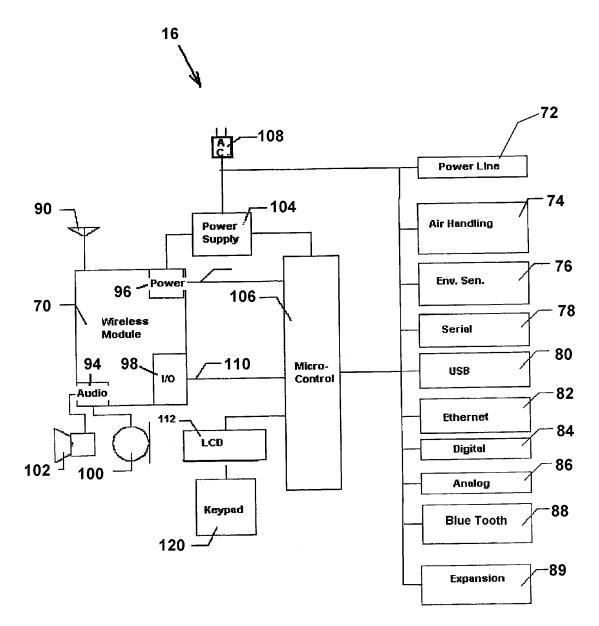


Fig. 4

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Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Submision Type: Information Disclosure

Statement

Application Number:

11/163372

EFS ID: 94770

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Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Application Number: 11/163372

Confirmation Number: 4371

First Named Applicant: Charles SHAMOON

Attorney Docket Number: 7192-06-05

Art Unit: Examiner:

Search string: (6014089 or 6260765 or 6301484 or 6393297 or 6650249 or 6820049 or 6847822

or 6854660 or 6873824).pn

US Patent Documents

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

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	6014089	2000-01-11	Tracy et al.			
	2	6260765	2001-07-17	Natale et al.			
	3	6301484	2001-10-09	Rogers et al.			
	4	6393297	2002-05-21	Song			
	5	6650249	2003-11-18	Meyer et al.			
	6	6820049	2004-11-16	Monroe et al.			
	7	6847822	2005-01-25	Dennison et al.			
	8	6854660	2005-02-15	Yoon et al.			
	9	6873824	2005-03-29	Flick	·		

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Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Application Number :

11/163372

Date:

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Registered Number: 42,072		

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Comments	us-ids.xsl	

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Application Number: 11/163372

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Attorney Docket Number: 7192-06-05

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or 5621662 or 5778256 or 5805530 or 5818428 or 5917105 or 5924486 or 6005490 or 6081750 or 6104334 or 6192282 or 6195589 or 6216956 or 6264559 or 6394359 or 6398727 or 6934862 or 20030034897 or 20030034898 or 20020149705).pn

US Patent Documents

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init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4918439	1990-04-17	Wozniak et al.			
	2	4965557	1990-10-23	Schepers et al.			
	3	5109222	1992-04-28	Welty			
	4	5247580	1993-09-21	Kimura et al.			
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				Steenbrugge			
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				al.			
	12	5917105	1999-06-29	Joao			
	13	5924486	1999-07-20	Ehlers et al.			
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	15	6081750	2000-06-27	Hoffberg et al.			
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	17	6192282	2001-02-20	Smith et al.			
	18	6195589	2001-02-27	Ketcham			
	19	6216956	2001-04-17	Ehlers et al.			

	20	6264559	2001-07-24	Lawrence et al.		
ſ	21	6394359	2002-05-28	Morgan		
ſ	22	6398727	2002-06-04	Bui et al.		
	23	6934862	2005-08-23	Sharood et al.		

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init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20030034897	2003-02-20	Shamoon et al.			
	2	20030034898	2003-02-20	Shamoon et al.			
	3	20020149705	2002-10-17	Allen et al.			

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Title of Invention

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Application Number :

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SHAMOON Charles G.

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Michael C. Phillips Registered Number: 42,072	/Michael C. Phillips/	Attorney

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Comments	do Ido.Aoi	

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Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Submision Type: Information Disclosure

Statement

Application Number:

11/163372

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~ ~)
In Re: Application of)
Charles G. SHAMOON, et al.)
)
Serial No. 11/163,372)
)
Filed: 10/17/2005)
)
) Examiner
)
) Art Unit
For: UBIQUITOUS CONNECTIVITY)
AND CONTROL SYSTEM FOR)
REMOTE LOCATIONS)
Idiviori Bookillono)
Attorney's Docket No. 7192-06-05)
Audilicy 5 Docket No. 7192-00-03	<i>)</i>
)

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

Assistant Commissioner for Patents Washington, DC 20231

Sir:

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

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

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

Dated: October 17, 2005

Respectfully submitted,
MILLS LAW FIRM PLLC

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

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Telephone: (919) 462-3036 Facsimile: (919) 462-3041

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	Filed: 10/17/2005)	
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)	Examiner
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	East LIDIOLHTOLIC CONNECTIVITY)	Art Unit
	For: UBIQUITOUS CONNECTIVITY)	
	AND CONTROL SYSTEM FOR)	
	REMOTE LOCATIONS)	
)	
	Attorney's Docket No. 7192-06-05)	
)	

VERIFIED STATEMENT OF AGE

Assistant Commissioner for Patents Washington, DC 20231

Sir:

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

The undersigned, Franklin Eugene NEAL, declares that all statements made herein of his own knowledge are true, that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by

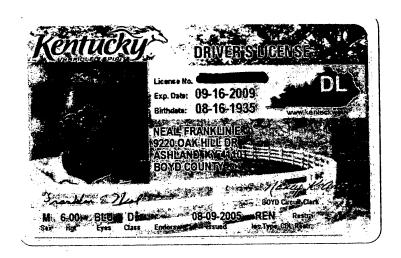
fine or imprisonment, or both, under § 1001 of Title 18 of United States Code that such willful false statements may jeopardize the validity of the Application or any patent issuing therefrom.

Respectfully submitted,

Franklin Eugene NEAL, Applicant

Date 9/15/2005

Attachment: Photocopy of Drivers License



OCI 19 2005



PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE der 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 Application Number 11/163,372 TRANSMITTAL Filing Date 10/17/2005 First Named Inventor **FORM** SHAMOON, Charles G., et al. Art Unit **Examiner Name** not assigned (to be used for all correspondence after initial filing) Attorney Docket Number 7192-06-05 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Drawing(s) Fee Transmittal Form Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request Return Receipt Postcard Request for Refund **Express Abandonment Request** 5 Non-Patent Literature Documents CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Application was filed electronically via ePave on 10/17/2005. Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Mills Law Firm PLLC Signature toter Doubt Printed name Peter D. Sachtien Reg. No. 10/17/2005 24,619 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature Date 10/17/2005 Stefanie Hansen Typed or printed name

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Shamoon, Charles G., et al.

itle

UBIQUITOUS CONNECTIVITY AND

CONTROL SYSTEM FOR REMOTE

LOCATIONS

Serial No.:

11/163,372

Confirmation No.:

47371

Filing Date:

10/17/2005

Group Art Unit:

not assigned

Examiner:

not assigned

Docket No.:

7192-06-05

Last Action:

Application Filed

Customer No.

23983

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

INFORMATION DISCLOSURE STATEMENT

Sir:

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

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

Dated: October 17, 2005

Respectfully submitted,

MILLS LAW FIRM PLLC

For D. Sachtjen

Peter D. Sachtjen Reg. No. 24,619

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

Fax: 919-462-3041

PTO/SB/08B (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known stitute for form 1449/PTO **Application Number** 11/163,372 INFORMATION DISCLOSURE **Filing Date** 10/17/2005 STATEMENT BY APPLICANT First Named Inventor SHAMOON, Charles G. Art Unit not assigned (Use as many sheets as necessary) **Examiner Name** not assigned Attorney Docket Number 7192-06-05 of

Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	А	Sony Ericsson Mobile Communications AB, GT47/GT48 Control Terminal "Intelligent and Versatile Control Terminal", 2 pages, LZT 123 7602 R1D, 2003	
	В	Sony Ericsson Mobile Communications International, GT47/GT48 Technical Description, 43 pages, LZT 123 7607 R1B, First Edition, June 2003	
	С	Cellgard - Use your GSM cellphone as a remote control for almost anything, "Cellgard", http://www.cellgard.com/index.html, 2 pages, (10/17/2005)	
	D	Cellgard - Cellgard Technical Specificaitons, "Cellgard", http://www.cellgard.com/specs/index.html, 3 pages, (10/17/2005)	
	E	Cellgard - Frequently Asked Questions, "Cellgard", http://www.cellgard.com/faq/index.html, 4 pages, (10/17/2005)	

Examiner	Date	
Signature	Considered	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

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

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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

NOV 0 2 2005

MILLS LAW FIRM PLLC PATENT LAWYERS

WAKE FOREST OFFICE POST OFFICE BOX 1088 WAKE FOREST, NC 27588 TEL 919-554-4200 FAX 919-554-4243 imils@milspalentlow.com 150 IOWA LANE, SUITE 104 POST OFFICE BOX 1245 CARY, NC 27512-1245 TEL 919-462-3036 FAX 919-462-3041 mphillips@millspatentlaw.com EASTERN OFFICE
3302 WALDEN DRIVE
GREENVILLE, NC 27858
TEL 252-413-0475
FAX 252-413-0445
psachtien@milspalentlaw.com

Date:

November 2, 2005

To:

USPTO 571-273-8300

Attn: PG PUB

From:

Peter D. Sachtjen

Re:

Serial No.: 11/163,372 SHAMOON

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US. THANKYOU

Please forward the attached Rescission of Previous Nonpublication Request and Notice of Foreign Filing to the **Pre-Grant Publication** division. There is 1 pages in the attached document (not including this cover page).

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PAGE 1/2 * RCVD AT 11/2/2005 2:47:51 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/25 * DNIS:2738300 * CSID:(919) 462-3041 * DURATION (mm-ss):01-26

NOV 0 2 2005

PTO/SB/36 (07-05)
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11/163,372 RESCISSION OF PREVIOUS NONPUBLICATION Application Number REQUEST 10/17/2005 Filing Date (35 U.S.C. 122(b)(2)(B)(ii)) AND, IF APPLICABLE, Charles G. SHAMOON et al. First Named Inventor NOTICE OF FOREIGN FILING UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS (35 U.S.C. 122(b)(2)(B)(iii)) Send completed form to: Mall Stop PG Pub 7192-06-05 Atty Docket Number Commissioner for Patents P.O. Box 1450 not yet assigned Art Unit Alexandria, VA 22313-1450 FAX: (571) 273-8300 Examiner not yet assigned

A request that the above-identified application not be published under 35 U.S.C. 122(b) (nonpublication request) was included with the above-identified application on filing pursuant to 35 U.S.C. 122(b)(2)(B)(i). I hereby rescind the previous nonpublication request.

If a notice of foreign or international filing is or will be required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c), I hereby provide such notice. This notice is being provided no later than forty-five (45) days after the date of such foreign or international filing.

If a notice of subsequent foreign or international filing required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c) was not filed within forty-five (45) days after the date of filing of the foreign or international application, the application is ABANDONED, and a petition to revive under 37 CFR 1.137(b) is required. See 37 CFR 1.137(f).

For D. Sultjan	11/02/2005
Signature	Date
Peter D. Sachtjen	24,619
Typed or printed name	Registration Number, i applicable
919-462-3036	
Telephone Number	
This request must be signed in compliance with 37 CFR 1.33(k	o).
If information or assistance is needed in completing this form, pleas Division at (703)605-4283 or by e-mail at PGPub@USPTO.gov.	e contact the Pre-Grant Publication

CERTIFICATE OF MAILING OR TRAI I hereby certify that this correspondence is being deposited with the United States Po In an envelope addressed to: Mail Stop PG Pub, Commissioner for Patents, P.O. Boy transmitted to the U.S. Patent and Trademark Office on the date shown below.	stal Ser	vice with sufficient postage as first class mail
Signature For DSultie		
Name (Print/Type) Peter D. Sachtjen	Date	11/02/2005

This collection of information is required by 37 CFR 1.213(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 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PG Pub, 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.

PAGE 2/2 * RCVD AT 11/2/2005 2:47:51 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/25 * DNIS:2738300 * CSID:(919) 462-3041 * DURATION (mm-ss):01-26



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MILLS LAW FIRM P.O. BOX 1245 CARY, NC 27512-1245 **COPY MAILED**

DEC 1 4 2005

OFFICE OF PETITIONS

In re Application of

Charles G. Shamoon et al Application No. 11/163,372 Filed: October 17, 2005

Attorney Docket No. 7192-06-05

DECISION ON PETITION

TO MAKE SPECIAL UNDER

37 CFR 1.102(c)(1)

This is a decision on the petition under 37 CFR 1.102(c)(1), filed October 19, 2005, to make the above-identified application special based on applicant's age as set forth in M.P.E.P. § 708.02, Section IV.

The petition is **GRANTED**.

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

The instant petition includes a copy of a driver's license and a verified statement by Franklin Eugene Neal attesting that he is over 65 years of age. Accordingly, the above-identified application has been accorded "special" status.

Telephone inquiries concerning this decision should be directed to Wan Laymon at 571-272-3220.

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

This matter is being referred to Technology Center AU 2681 for action on the merits commensurate with this decision.

Amelia Au
Petitions Examiner

Office of Petitions



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

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
11/162 272	10/17/2005	Charles G. SHAMOON	7102.06.05

11/163,372

10/17/2005

Charles G. SHAMOON

7192-06-05

CONFIRMATION NO. 4371

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

Date Mailed: 12/29/2005

Communication Regarding Rescission Of Nonpublication Request and/or Notice of Foreign Filing

Applicant's rescission of the previously-filed nonpublication request and/or notice of foreign filing is acknowledged. The paper has been reflected in the Patent and Trademark Office's (USPTO's) computer records so that the earliest possible projected publication date can be assigned.

The projected publication date is 05/18/2006.

If applicant rescinded the nonpublication request before or on the date of "foreign filing," then no notice of foreign filing is required.

If applicant foreign filed the application after filing the above application and before filing the rescission, and the rescission did not also include a notice of foreign filing, then a notice of foreign filing (not merely a rescission) is required to be filed within 45 days of the date of foreign filing. See 35 U.S.C. § 122(b)(2)(B)(iii), and Clarification of the United States Patent and Trademark Office's Interpretation of the Provisions of 35 U.S.C. § 122(b)(2)(B)(ii)-(iv), 1272 Off. Gaz. Pat. Office 22 (July 1, 2003).

If a notice of foreign filing is required and is not filed within 45 days of the date of foreign filing, then the application becomes abandoned pursuant to 35 U.S.C. § 122(b)(2)(B)(iii). In this situation, applicant should either file a petition to revive or notify the Office that the application is abandoned. See 37 CFR 1.137(f). Any such petition to revive will be forwarded to the Office of Petitions for a decision. Note that the filing of the petition will not operate to stay any period of reply that may be running against the application.

Questions regarding petitions to revive should be directed to the Office of Petitions at (571) 272-3282. Questions regarding publications of patent applications should be directed to the patent application publication hotline at (703) 605-4283 or by e-mail pgpub@uspto.gov.

1 Note, for purpose of this notice, that "foreign filing" means "filing an application directed to the same invention in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing".

EAST Search History

Ref #	Hits	Search Query	DBs	Default Plura Operat s or		Time Stamp
Li	1	("20030210126").PN	US-PGPU B; USPAT	OR	OFF	2006/02/24 13:17
L2	1	("20040092282").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/24 13:33
.L3	1	("20050044225"):PN	US-PGPU B; USPAT	OR	OFF	2006/02/24 14:17
L4	107	remote\$2 near control\$4 with sms	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
L5	2591404 9	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:18
L6	5	remote\$2 near control\$4 near3 appliance with sms	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:19
L7	.5	5 and 6	US-PGPU B, USPAT, EPO, JPO; DERWEN T	OR	ON	2006/02/24 14:35
L8	2567	electromechanical adj switch	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
L9	0	4 and 8	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36

Page 1

EAST Search History

L10	186657	remote\$2 near control\$4	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:37
L11	252	8 and 10	US-PGPU B, USPAT, EPO, JPO, DERWEN T	OR	ON	2006/02/24 14:36
L12	236	5 and 11	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
L13	59	remote\$2 near control\$4 with electromechanical adj switch	US-PGPU B; USPAT, EPO, JPO; DERWEN T	OR	ON	2006/02/24 14:37
L14	54	5 and 13	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39
L15	0	remote\$2 near control\$4 near appliance with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO, JPO; DERWEN T	OR	ON	2006/02/24 14:38
L16	0	remote\$2 near control\$4 near4 appliance with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:38
L17	O	remote\$2 near control\$4 near4 appliance same electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:38

EAST Search History

L18	64	remote\$2 near control\$3 with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
L19	94629	"455"/\$.ccls	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39
L20	1	14 and 19	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39
L21	43	electromechanical adj switch\$3 near3 advantage	US-PGPU B; USPAT, EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
L22	16	electromechanical adj switch\$3 near2 advantage	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
S1	208	(detection adj system) ti and (theft or thieves)	US-PGPU B, USPAT, EPO, JPO, DERWEN T	OR	ON	2006/02/24 12:35
S2	82	(detection adj system and (theft or thieves)).ti.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/23 15:05
S3	1	("20030210126").PN	US-PGPU B; USPAT	OR	OFF	2006/02/23 16:01
S4	5	(close\$2 near proximity and detect\$3).ti.	US-PGPU B; USPAT	OR	ON	2006/02/23 16:02

2/24/06 3:18:09 PM C:\Documents and Settings\HNguyen25\My Documents\EAST\Workspaces\11163372.wsp



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

ſ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	11/163,372	10/17/2005	Charles G. SHAMOON	7192-06-05	4371	
	23983 7	590 03/09/2006		EXAM	IINER	
	MILLS LAW	FIRM, PLLC		NGUYEN, HUY D		
	P.O BOX 1245	5				
	Cary, NC 275	512-1245		ART UNIT	PAPER NUMBER	
				2681		
				DATE MAN ED 02/00/200		

DATE MAILED: 03/09/2006

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

<u> </u>									
		Application No.	Applicant(s)						
	Office Action Summer:	11/163,372	SHAMOON ET AL.						
	Office Action Summary	Examiner	Art Unit						
		Huy D. Nguyen	2681						
Period fo	- The MAILING DATE of this communication appe r Reply	ears on the cover sheet with the (correspondence address						
WHIC - Exten after S - If NO - Failur Any re	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status									
2a)□ 3)□	Responsive to communication(s) filed on 29 De This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final. ice except for formal matters, pr							
Disposition	on of Claims								
5)□ 6)⊠ 7)□	4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 12-20 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Application	on Papers								
10) 🗆 -	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:							

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

Office Action Summary

Part of Paper No./Mail Date 02232006

Application/Control Number: 11/163,372

Art Unit: 2681

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Group I. Claims 1-11, drawn to remote programming control, classified in class 455, subclass 419.
 - Group II. Claims 12-20, drawn to privacy and authentication, classified in class 455, subclass 411.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination I has separate utility such as remotely controlling operation of an environmental condition in a structure; Subcombination II has separate utility such as detecting the presence of individuals with a proximate distance. See MPEP § 806.05(d).
- 3. These inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter.
- 4. During a telephone conversation with Peter D. Sachtjen on 2/24/2006 a provisional election was made without traverse to prosecute the invention of group I, claims 1-11.

 Affirmation of this election must be made by applicant in replying to this Office action. Claims 12-20 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Page 2

Application/Control Number: 11/163,372 Page 3

Art Unit: 2681

Claim Rejections - 35 USC § 103

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

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 3-7, 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa (US 2003/0210126 A1) in view of Kim et al. (US 2004/0092282 A1).

Regarding claim 1, Kanazawa teaches a ubiquitous connectivity and communications system for controlling operation of an environmental condition in a structure, comprising: a device for controlling an environmental condition in the structure (e.g., device 1, see figure 1); a base unit (e.g., controller 2) in said structure and operatively interfaced with said device to control the operation thereof (see figure 1); at least one remote device (e.g., cellular 3); connectivity means providing an on-demand, private and direct communications interface between said base unit and said remote device enabling instant wireless connectivity therebetween (e.g., cellular phone transceiver); means for providing a indication of current status of said device to said base unit (e.g., Bluetooth network); input means at said remote device for prescribing an indication of revised status for said device (e.g., WWW browser function, see paragraph [0020]); means for transmitting said indication of revised status through said connectivity means to said base unit (e.g., cellular phone transmitter); means operatively associated with said base unit and operatively connected with said device for effecting said

Application/Control Number: 11/163,372 Page 4

Art Unit: 2681

revised status for said device (see paragraph [0020]). Kanazawa does not specifically teach means for transmitting said indication of current status through said connectivity means to said remote device and display means at said remote device for indicating said current status of said device. However, the preceding limitations are taught in Kim et al. (see figure 3 and paragraph [0045]). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Kim et al. to the teaching of Kanazawa to provide convenience for users.

Regarding claim 3, Kanazawa teaches the system as recited in claim 1 wherein said base unit is a microcontroller-based processing unit having customizable application specific software (see figure 2 and paragraph [0022]).

Regarding claim 4, Kanazawa teaches the system as recited in claim 1 wherein said remote device is a cellular telephone handset with custom programmability means (see paragraph [0020]).

Regarding claims 5-6, the combination of Kanazawa and Kim et al. teaches the claimed invention except that the custom programmability means is a JAVA programming kernel.

However, it would have been an obvious matter of design choice to have the custom programmability means being a JAVA programming kernel since the invention would perform equally well with the custom programmability means being a JAVA programming kernel.

Regarding claim 7, Kanazawa teaches the system as recited in claim 1 wherein said connectivity means includes a transmitting and receiving module in said base unit and a transmitting and receiving unit in said remote device operatively communicating with each other over the cellular telephone network (see figure 1 and paragraph [0020]).

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Art Unit: 2681

Regarding claims 9-10, the combination of Kanazawa and Kim et al. teaches the claimed invention except the use of liquid crystal display. However, it would have been an obvious matter of design choice to use liquid crystal display since the invention would perform equally well with the display being the liquid crystal display.

7. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa (US 2003/0210126 A1) in view of Kim et al. (US 2004/0092282 A1) and in further view of Flaherty et al. (US 2004/0235446 A1).

Regarding claim 2, the combination of Kanazawa and Kim et al. teaches the claimed invention except the use of electromechanical switch. The preceding limitation is taught in Flaherty et al. (see paragraphs [0050], [0098]). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Flaherty et al. to the teaching of Kanazawa and Kim et al. to reduce power loss and for use in electric isolation medium.

8. Claims 8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa (US 2003/0210126 A1) in view of Kim et al. (US 2004/0092282 A1) and in further view of Song (US Patent No. 6,393,297).

Regarding claims 8 and 11, the combination of Kanazawa and Kim et al. teaches the claimed invention except the use of SMS. However, the preceding limitation is taught in Song (see column 1, lines 19-23). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Song to the teaching of Kanazawa and Kim et al. to conserve resources.

Application/Control Number: 11/163,372

Art Unit: 2681

Contact Information

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

(H)

Huy Nguyen

SUPERVISORY PATENT EXAMINER

Page 6

Application/Control No. Applicant(s)/Patent Under Reexamination 11/163,372 SHAMOON ET AL. Notice of References Cited Examiner Art Unit Page 1 of 1 2681 Huy D. Nguyen

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*	С	US-2004/0235446	11-2004	Flaherty et al.	455/352
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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.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 02232006

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Application Number :

11/163372



Confirmation Number:

4371

First Named Applicant:

Charles SHAMOON

Attorney Docket Number:

7192-06-05

Art Unit:

Examiner:

Search string:

(6014089 or 6260765 or 6301484 or 6393297 or 6650249 or 6820049 or 6847822

or 6854660 or 6873824).pn

US Patent Documents

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

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
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Signature

Examiner Name	Date
Jun	3/6/06

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PTO/SB/08B (08-03)

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

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

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

Complete if Known

Application Number

I1/163,372

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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

Complete if Known

11/163,372

Filling Date

10/17/2005

First Named Inventor

SHAMOON, Charles G.

Art Unit

not assigned

(Use as many sheets as necessary)

Art Unit not assigned

Examiner Name not assigned

Sheet 1 of 1 Attorney Docket Number 7192-06-05

		NON PATENT LITERATURE DOCUMENTS		
Examiner 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.				
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8	E	Cellgard - Frequently Asked Questions, "Cellgard", http://www.cellgard.com/faq/index.html, 4 pages, (10/17/2005)		

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

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chef Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Application Number:

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4371

First Named Applicant:

Charles SHAMOON

Attorney Docket Number:

7192-06-05

Art Unit:

Examiner:

Search string:

(4918439 or 4965557 or 5109222 or 5247580 or 5544036 or 5545857 or 5579496 or 5621662 or 5778256 or 5805530 or 5818428 or 5917105 or 5924486 or 6005490 or 6081750 or 6104334 or 6192282 or 6195589 or 6216956 or 6264559 or 6394359

or 6398727 or 6934862 or 20030034897 or 20030034898 or 20020149705).pn

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

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

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Search Notes						

Application/Control No.	Applicant(s)/Patent under Reexamination
11/163,372	SHAMOON ET AL.
Examiner	Art Unit
Huy D. Nguyen	2681

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From: Stefanie Hansen

Pg 3/28 08/09/06 3:30 pm

RECEIVED CENTRAL FAX GENTER AUG 0 9 2008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

SHAMOON, Charles G., et al.

Title:

UBIQUITOUS CONNECTIVITY AND

CONTROL SYSTEM FOR REMOTE

LOCATIONS

Serial No.:

11/163,372

Filing Date:

10/17/2005

Group Art Unit:

2681

Examiner:

NGUYEN, Huy D.

Docket No.:

7192-06-05

Last Action:

03/09/2006

Customer No.:

23983

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

AMENDMENT

In response to the office action mailed March 9, 2006, Applicant offers the following amendments and remarks. Applicant encloses a payment in the amount of \$1,275.00 to cover the fees associated with the addition of one (1) independent and thirty-eight (38) dependent claims and with a Two-month Extension of Time and requests that this be considered a petition therefore. If any additional fees are required in association with this response, the Director is hereby authorized to charge them to Deposit Account 500498, and consider this a petition therefor.

In the Specification:

08/10/2006 MBINAS 00000005 11163372

01 FC:2201 02 FC:2202

100.00 OP

Amend the specification as set forth in the attached Specification Status.

In the Claims:

Amend claims as set forth in the attached Claims Status.

To: 571-273-8300 From: Stefanie Hansen Pg 5/28 08/09/06 3:30 pm

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SPECIFICATION STATUS

Please amend paragraph 0039 as follows:

[0039] 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 short 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.

To: 571-273-8300 From: Stefanie Hansen Pg 7/28 08/09/06 3:30 pm

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CLAIMS STATUS

(Currently Amended) A ubiquitous connectivity and communications system
for controlling operation of an environmental condition in a structure, comprising:
 a device for controlling [[an]] the environmental condition in the structure;
 a base unit in said structure and operatively interfaced with said device to
control the operation thereof;

at least one a remote device adapted to send and receive short message service (SMS) messages;

<u>wireless</u> connectivity means providing an on-demand, private and direct communications interface between said base unit and said remote device enabling instant wireless connectivity therebetween <u>without use of an Internet connection</u>;

means for providing an indication of current status of said device to said base unit;

means for transmitting said indication of current status through said connectivity means <u>from the base unit</u> to said remote device <u>as a first SMS</u> message;

display means at said remote device for indicating said current status of said device;

input means at said remote device for prescribing an indication of revised status for said device <u>as a second SMS message</u>, wherein the second <u>SMS message</u> includes information associated with the remote device;

means for transmitting said <u>second SMS</u> message including information <u>associated with the remote device and the</u> indication of revised status through said connectivity means to said base unit, <u>wherein the base unit is adapted to authenticate the second SMS</u> message using the information associated with the <u>remote device</u>;

means operatively associated with said base unit and operatively connected with said device for effecting said revised status for said device.

- 2. (Currently Amended) The system as recited in claim 1 wherein said device for controlling [[an]] the environmental condition includes electronic and electromechanical switching means interfaced with said device for controlling [[an]] the environmental condition.
- (Original) The system as recited in claim 1 wherein said base unit is a microcontroller-based processing unit having customizable application specific software.
- 4. (Original) The system as recited in claim 1 wherein said remote device is a cellular telephone handset with custom programmability means.
- 5. (Original) The system as recited in claim 4 wherein said custom programmability means is a JAVA programming kernel.
- 6. (Original) The system as recited in claim 4 wherein said custom programmability means is a J2ME programming kernel.
- 7. (Currently Amended) The system as recited in claim 1 wherein said connectivity means includes a transmitting and receiving module in said base unit and a transmitting and receiving unit in said remote device operatively communicating with each other over [[the]] <u>a</u> cellular telephone network.

- 8. (Currently Amended) The system as recited in claim 1 wherein said means for providing an indication of current status to said base unit and said means for transmitting said indication of current status is a[[n]] short message service (SMS) message carried along said a cellular telephone network.
- 9. (Original) The system as recited in claim 1 wherein said display means is a liquid crystal display module.
- 10. (Original) The system as recited in claim 9 wherein said liquid crystal module includes selectable graphic icons corresponding to environmental conditions being monitored or controlled.
- 11. (Currently Amended) The system as recited in claim 8 including means operative between said remote devices using said short message service (SMS[[]]] for selectively disabling transmission thereto.
- 12. (Withdrawn) A detection system for selectively determining the presence of individuals within a proximate distance of a structure, said detection system comprising: a base unit at said structure; a first remote unit operated by one of the individuals and transmitting a first identification signal; a second remote device operated by another of the individuals and transmitting a second identification signal; receiving means associated with said base unit for receiving said authorizations codes when the associated remote device is within the proximate distance of the structure; selection means operatively associated with said base unit for selectively establishing an authorized user status to said remote devices based on said identification signal; instant wireless connectivity means for transmitting to

a master remote unit the presence of a remote unit with said proximate distance of said structure based on said authorized user status.

- 13. (Withdrawn) The system as recited in claim 12 wherein said base unit includes a Bluetooth transmitter and receive module for bidirectional communications with said remote units.
- 14. (Withdrawn) The system as recited in claim 12 wherein said base unit includes a bidirectional radio frequency communications module conforming to the 802.11 protocol.
- 15. (Withdrawn) The system as recited in claim 12 wherein said remote units include cellular telephones including Bluetooth bidirectional communications modules.
- 16. (Withdrawn) The system as recited in claim 12 wherein said receiving means associated with said base unit is a Bluetooth bidirectional communications module.
- 17. (Withdrawn) The system as recited in claim 12 wherein said receiving means associated with said base unit is a bidirectional radio frequency communications module conforming to the 802.11 protocol.
- 18. (Withdrawn) The system as recited in claim 12 wherein said selection means comprises a microcontroller-based processing unit having customizable application specific software.

- 19. (Withdrawn) The system as recited in claim 12 wherein said instant wireless connectivity means is a radio frequency communications channel according to the Bluetooth communications protocol.
- 20. (Withdrawn) The system as recited in claim 12 wherein said instant wireless connectivity means is a radio frequency communications channel according to the 802.11 communications protocol.
- 21. (New) A method for environmental control and information processing associated with a structure, the method comprising:

receiving from a remote control unit short message service (SMS) messages comprising control information to use for controlling a plurality of environmental control units associated with the structure;

creating control commands for the plurality of environmental control units based on the control information of the SMS messages; and

delivering the control commands to the plurality of environmental control units.

- 22. (New) The method of claim 21 comprising sending an SMS message to the remote control unit indicating delivery of a control command to at least one of the plurality of environmental control units.
- 23. (New) The method of claim 22 wherein the SMS message includes status information for at least one of the plurality of environmental control units.
- 24. (New) The method of claim 21 comprising controlling environmental conditions within the structure using the plurality of environmental control units.

- 25. (New) The method of claim 21 comprising detecting presence of an authorized person and sending an SMS message to the remote control unit indicating the presence of the authorized person.
- 26. (New) The method of claim 25 wherein detecting presence of the authorized person includes detecting the authorized person proximate to the structure.
- 27. (New) The method of claim 26 wherein the remote control unit includes global positioning satellite (GPS) capabilities and detecting the authorized person proximate to the structure comprises receiving GPS information from the remote control unit.
- 28. (New) The method of claim 26 wherein at least one of the plurality of environmental control units includes a heating system and comprising sending a control command to the heating system to adjust the temperature within the structure in response to detecting the authorized person proximate to the structure.
- 29. (New) The method of claim 26 wherein at least one of the plurality of environmental control units includes a lighting system and comprising sending a control command to the lighting system to turn on lighting associated with the structure in response to detecting the authorized person proximate to the structure.
- 30. (New) The method of claim 21 comprising detecting presence of an unauthorized person and sending an SMS message to the remote control unit indicating the presence of the unauthorized person.

- 31. (New) The method of claim 30 wherein at least one of the plurality of environmental control units includes a burglar alarm and detecting presence of the unauthorized person includes detecting a structural breach of the structure via the burglar alarm.
- 32. (New) The method of claim 21 comprising accessing remote information, creating a control command based on the remote information, and delivering the control command to at least one of the plurality of environmental control units.
- 33. (New) The method of claim 32 comprising sending an SMS message to the remote control unit based on the remote information and the control command delivered to the at least one of the plurality of environmental control units.
- 34. (New) The method of claim 33 wherein accessing the remote information includes accessing a weather forecasting service and the remote information relates to local weather conditions.
- 35. (New) The method of claim 34 wherein the at least one of the plurality of environmental control units includes a sprinkler system and the control command includes an instruction to bypass a scheduled watering cycle for the sprinkler system when the local weather conditions include a forecast for rain.
- 36. (New) The method of claim 34 wherein the at least one of the plurality of environmental control units includes a power control system and the control command includes an instruction to power down sensitive electronics when the local weather conditions include a forecast for severe weather.

37. (New) The method of claim 34 wherein the at least one of the plurality of environmental control units includes a window control system and the control command includes an instruction to adjust at least one of windows and window coverings that are associated with the structure to conserve energy when the local weather conditions include a forecast for a change in weather conditions.

- 38. (New) The method of claim 33 wherein accessing remote information includes accessing a school system's notification information service and the remote information includes school related information.
- 39. (New) The method of claim 38 wherein the at least one of the plurality of environmental control units includes a heating system and the control command includes an instruction to adjust the heat when the school related information includes a notification that schools are being released early due to inclement weather.
- 40. (New) A system for environmental control and information processing associated with a structure, the method comprising:
- a controller adapted to interface with a plurality of environmental control units associated with the structure; and
 - a wireless module adapted to:

receive from a remote control unit short message service (SMS) messages comprising control information to use for controlling the plurality of environmental control units;

create control commands for the plurality of environmental control units based on the control information of the SMS messages; and deliver the control commands to the plurality of environmental control units via the controller.

- 41. (New) The system of claim 40 wherein the wireless module is adapted to send an SMS message to the remote control unit indicating delivery of a control command to at least one of the plurality of environmental control units.
- 42. (New) The system of claim 41 wherein the wireless module is adapted to include status information for at least one of the plurality of environmental control units in the SMS message.
- 43. (New) The system of claim 40 wherein the plurality of environmental control units are adapted to control environment conditions within the structure.
- 44. (New) The system of claim 40 wherein the wireless module is adapted to detect presence of an authorized person and to send an SMS message to the remote control unit indicating the presence of the authorized person.
- 45. (New) The system of claim 44 wherein, in being adapted to detect presence of the authorized person, the wireless module is adapted to detect the authorized person proximate to the structure.
- 46. (New) The system of claim 45 wherein the remote control unit includes global positioning satellite (GPS) capabilities and wherein, in being adapted to detect the authorized person proximate to the structure, the wireless module is adapted to detect the authorized person by receiving GPS information from the remote control unit.

- 47. (New) The system of claim 45 wherein at least one of the plurality of environmental control units includes a heating system and wherein the wireless module is adapted to send a control command to the heating system via the controller to adjust the temperature within the structure in response to detecting the authorized person proximate to the structure.
- 48. (New) The system of claim 45 wherein at least one of the plurality of environmental control units includes a lighting system and wherein the wireless module is adapted to send a control command to the lighting system via the controller to turn on lighting associated with the structure in response to detecting the authorized person proximate to the structure.
- 49. (New) The system of claim 40 wherein the wireless module is adapted to detect presence of an unauthorized person and to send an SMS message to the remote control unit indicating the presence of the unauthorized person.
- 50. (New) The system of claim 49 wherein at least one of the plurality of environmental control units includes a burglar alarm and wherein, in being adapted to detect the unauthorized person proximate to the structure, the wireless module is adapted to detect a structural breach of the structure via the burglar alarm.
- 51. (New) The system of claim 40 wherein the wireless module is adapted to access remote information, to create a control command based on the remote information, and to deliver the control command to at least one of the plurality of environmental control units via the controller.

52. (New) The system of claim 51 wherein the wireless module is adapted to send an SMS message to the remote control unit based on the remote information and the control command delivered to the at least one of the plurality of environmental control units.

- 53. (New) The system of claim 52 wherein the wireless module is adapted to access remote information by accessing a weather forecasting service and the remote information relates to local weather conditions.
- 54. (New) The system of claim 53 wherein the at least one of the plurality of environmental control units includes a sprinkler system and the wireless module is adapted to create the control command to instruct the sprinkler system to bypass a scheduled watering cycle when the local weather conditions include a forecast for rain.
- 55. (New) The system of claim 53 wherein the at least one of the plurality of environmental control units includes a power control system and the wireless module is adapted to create the control command to instruct the power control system to power down sensitive electronics when the local weather conditions include a forecast for severe weather.
- 56. (New) The system of claim 53 wherein the at least one of the plurality of environmental control units includes a window control system and the wireless module is adapted to create the control command to instruct the window control system to adjust at least one of windows and window coverings that are associated with the structure to conserve energy when the local weather conditions include a forecast for a change in weather conditions.

57. (New) The system of claim 52 wherein the wireless module is adapted to access remote information by accessing a school system's notification information service and the remote information includes school related information.

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58. (New) The system of 57 wherein the at least one of the plurality of environmental control units includes a heating system and wherein the wireless module is adapted to create the control command to instruct the heating system to increase the heat when the school related information includes a notification that schools are being released early due to inclement weather.

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REMARKS

Applicant has carefully reviewed the office action mailed March 9, 2006 and offers the following remarks to accompany the above amendments.

A Request for a Two Month Extension of Time from June 9, 2006 to August 9, 2006 is being filed simultaneously with the Response to the Office Action, along with the appropriate filing fees.

Status of the claims

Claims 1-20 are pending in the present application. Claims 12-20 have been withdrawn from prosecution without traverse. Claims 21-58 have been added.

Accordingly, claims 1-11 and 21-58 are pending.

Amendment to the Specification

The specification has been amended to correct a typographical error. No new matter has been added.

Election/Restriction

Applicant hereby confirms the provisional election made without traverse to group I, claims 1-11 during the telephone conversation with the Examiner on February 24, 2006.

Rejection under 35 U.S.C. § 103(a) - Kanazawa and Kim

Claims 1, 3-7, 9, and 10 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent Application Publication No. US 2003/0210126 A1

to Kanazawa (hereinafter "Kanazawa") in view of U.S. Patent Application Publication No. US 2004/0092282 A1 to Kim et al. (hereinafter "Kim"). Applicant respectfully traverses. For the Patent Office to combine references in an obviousness rejection, the Patent Office must do two things. First, the Patent Office must establish *prima facie* obviousness by showing where each and every element is taught or suggested in the combined references. MPEP § 2143.03. Second, the Patent Office must state a motivation to combine the references. The motivation must be supported with actual evidence which cannot come from Applicant's disclosure. *In re Dembiczak*, 175 F.3d 994, 999 (Fed. Cir. 1999).

Prior to addressing the merits of the rejection, Applicant offers the following summary of the invention. The present invention provides for wireless remote control of home appliances associated with a structure via a wireless base station within the home. The Internet is not required. Remote wireless devices may be individually authorized or may be authorized as a group to control appliances within the home. Short message service (SMS) messages are used between the wireless base station and the remote wireless devices to communicate status of the home appliances and control commands via the wireless connection. The wireless base station authenticates received SMS messages and only allows control of the home appliances via SMS messages received from authorized remote devices belonging to authorized individuals or groups. The SMS messages are authenticated by verifying that information within the SMS messages is associated with the authorized remote devices. The wireless base station can detect the presence of an authorized remote device proximate to a structure and can control the home appliances and generate SMS messages to other remote devices based upon detecting the presence of the remote device. The wireless base station can also access remote information, such as weather information, and can control the home appliances based upon the remote information.

Claim 1 has been amended to recite that the remote devices are adapted to send and receive SMS messages, to recite that wireless connectivity means provide direct communications without use of the Internet, and to recite that the base unit is adapted to authenticate SMS messages using information associated with the remote device.

Kanazawa and Kim, alone or in combination, fail to teach all of the elements of claim 1. First, both Kanazawa and Kim require an Internet connection.

Kanazawa requires an Internet connection for all communications between the cellular phone 3 and the home controller 2. (See Kanazawa, Figure 1; paragraph 0020). Kim requires an Internet connection 3 at a user terminal 7 to communicate with a remote server 5 and an electronic appliance 10. A telephone network 32 is used between a telephone signal transmit unit 24 and a telephone network accessing unit 12 to provide dual-tone multi-frequency (DTMF) control of the electronic appliance. The only connection between the user terminal 7 and the other units is via the Internet 3. (See Kim, Figures 1 and 2; paragraphs 0024 and 0031-0036). Accordingly, the limitation of claim 1 that recites wireless connectivity means "without use of an Internet connection" is not met by the combination of Kanazawa and Kim.

Additionally, both Kanazawa and Kim use messaging other than SMS messaging for communication with and control of an electronic appliance. Kanazawa uses communication over the Internet for communication between the cellular phone 3 with web browser functionality and controller 2 that has a World Wide Web (WWW) server functionality. (See Kanazawa, Figure 1; paragraph 0020). Kim uses an Internet connection and DTMF through the public switched telephone network (PSTN) to communicate between the user terminal 7 to communicate with a remote server 5 and an electronic appliance 10. (See Kim, Figures 1 and 2; paragraphs 0024 and 0031-0036). Accordingly, the additional

limitation of claim 1 that recites using SMS messaging is not met by the combination of Kanazawa and Kim.

Further, the motivation cited by the Patent Office to combine Kanazawa and Kim is insufficient for purposes of crafting a *prima facie* case of obviousness. A bare assertion that a user would be provided with more convenience by a combination of Kanazawa and Kim does not provide a motivation or suggestion sufficient to motivate one skilled in the art to combine Kanazawa and Kim. Additionally, no actual evidence has been provided by the Patent Office as required. Accordingly, in addition to failing to show where each and every element is taught or suggested in the combined references, the Patent Office has not established a proper motivation to combine the references.

Applicant respectfully submits that the rejection of claim 1 should be withdrawn for at least these reasons. Dependent claims 3-7, 9, and 10 depend, either directly or indirectly, from claim 1. Accordingly, the rejection of claims 3-7, 9, and 10 should be withdrawn for at least the same reasons. Applicant reserves the right to make additional arguments regarding the rejection based upon Kanazawa in view of Kim in the future. Applicant respectfully submits that claims 1, 3-7, 9, and 10 are in condition for allowance and requests notice of the same at the earliest possible date.

Rejection under 35 U.S.C. § 103(a) – Kanazawa, Kim, and Flaherty

Claim 2 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Kanazawa in view of Kim and further in view of U.S. Patent Application Publication No. US 2004/0235446 A1 to Flaherty et al. (hereinafter "Flaherty"). Applicant respectfully traverses. The standards for obviousness are set forth above.

The motivation cited by the Patent Office to combine Kanazawa, Kim, and Flaherty is insufficient for purposes of crafting a *prima facie* case of obviousness. A bare assertion to reduce power loss and for use in electric isolation by combining Kanazawa, Kim, and Flaherty does not provide a motivation or suggestion sufficient to motivate one skilled in the art to combine Kanazawa, Kim, and Flaherty. Additionally, no actual evidence has been provided by the Patent Office as required. Accordingly, in addition to failing to show where each and every element is taught or suggested in the combined references, the Patent Office has not established a proper motivation to combine the references.

Claim 2 depends from claim 1. Applicant respectfully submits that the rejection of claim 2 should be withdrawn for at least the same reasons as argued above in relation to the rejection of claim 1. Accordingly, Applicant respectfully submits that claim 2 is in condition for allowance and requests notice of the same at the earliest possible date.

Rejection under 35 U.S.C. § 103(a) – Kanazawa, Kim, and Song

Claims 8 and 11 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Kanazawa in view of Kim and further in view of U.S. Patent No. 6,393,297 to Song. (hereinafter "Song"). Applicant respectfully traverses. The standards for obviousness are set forth above.

Claims 8 and 11 depend, either directly or indirectly, from claim 1. Applicant respectfully submits that the rejection of claims 8 and 11 should be withdrawn for at least the same reasons as argued above in relation to the rejection of claim 1. In addition, Applicant notes that Song requires the external appliance 100 to encode/decode SMS messages directly. Further, a data input/output port is required to communicate between the external appliance 100 and the mobile terminal 110. (See Song, Figure 1; col. 2, lines 34-42). Accordingly, an external

From: Stefanie Hansen

appliance of Song requires extensive modifications to provide an appliance capable of performing SMS messaging and does not do so in a wireless fashion.

Further, the motivation cited by the Patent Office to combine Kanazawa, Kim, and Song is insufficient for purposes of crafting a *prima facie* case of obviousness. A bare assertion of conservation of resources to combine Kanazawa, Kim, and Song, does not provide a motivation or suggestion sufficient to motivate one skilled in the art to combine Kanazawa and Kim. Additionally, no actual evidence has been provided by the Patent Office as required. In fact, the requirement of Song that an external appliance be adapted to encode/decode SMS messages would not conserve resources because each external appliance would be required to have its own interface for SMS messaging and, accordingly, would not conserve resources. Finally, Song directly teaches away from the invention of Applicant as claimed by requiring each external appliance to have an SMS interface. Accordingly, in addition to failing to show where each and every element is taught or suggested in the combined references, the Patent Office has not established a proper motivation to combine the references.

Accordingly, Applicant respectfully submits that the rejection of claims 8 and 11 should be withdrawn. Applicant also respectfully submits that claim 8 and 11 are in condition for allowance and respectfully requests notice of the same at the earliest possible date.

New Claims

Claims 21-58 have been added. No new subject matter is added by these amendments. Claims 21-58 include subject matter that can be found within the present Application. (See Figures 1 and 4, and paragraphs 0044, 0046, 0050, 0051, 0056-0058, and 0061).

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Applicant respectfully submits that claims 21-58 are in condition for allowance for at least the same reasons argued above in relation to the claim rejections and respectfully requests notice of the same at the earliest possible date.

Conclusion

The present application is now in condition for allowance and such action is respectfully requested. The Examiner is encouraged to contact Applicant's representative regarding any remaining issues in an effort to expedite allowance and issuance of the present application.

Dated: August 9, 2006

Respectfully submitted,

MILLS LAW FIRM, PLLC

For D. Sachtjen

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

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PETITION FOR EXTENSION OF TIME UNDER	37 CFR 1.136(a)	Docket Number (Optional)) BENE	
FY 2005 (Fees pursuant to the Consolidated Appropriations Act	, 2005 (H.R. 4818).)	7192-06-05	CENTRAL	
Application Number 11/163,372		Filed 10/17/2005	AUG (
or SHAMOON, Charles G., et al. (UBIC	UITOUS CONN	ECTIVITY AND CO		
Art Unit 2681		Examiner NGUYEN	l, Huy D.	
his is a request under the provisions of 37 CFR 1.13 pplication.	36(a) to extend the pe	riod for filing a reply in the	above identified	
he requested extension and fee are as follows (chec			fee below):	
	<u>Fee</u>	Small Entity Fee		
One month (37 CFR 1.17(a)(1))	\$120	\$60	\$	
x Two months (37 CFR 1.17(a)(2))	\$450	\$225	s <u>225.00</u>	
Three months (37 CFR 1.17(a)(3))	\$1020	\$510	\$	
Four months (37 CFR 1.17(a)(4))	\$1590	\$795	\$	
Five months (37 CFR 1.17(a)(5))	\$2160	\$1080	s	
✓ Applicant claims small entity status. See 37 CFR	1.27.			
☐ A check in the amount of the fee is enclosed	d .			
→ ✓ Payment by credit card. Form PTO-2038 is	attached.			
The Director has already been authorized to	charge fees in this	application to a Deposi	t Account.	
☐ The Director is hereby authorized to charge				
Deposit Account Number 500498		ve enclosed a duplicate		
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I am the applicant/inventor.				
assignee of record of the enti Statement under 37 CFR	3.73(b) is enclosed	(Form PTO/SB/96).		
attorney or agent of record. R	Registration Number	24,619	_	
attorney or agent under 37 C Registration number if acting und				
For D. Saltier	····	08/09/2006		
Signature		_)ate	
Peter D. Sachtjen		919-462-3036		
Typed or printed name		Telephor	ne Number	
NOTE: Signatures of all the inventors or assignees of record of the or signature is required, see below.		entative(s) are required. Submit m	nultiple forms if more than one	
✓ Total of one (1) forms a	re submitted.			

complete, including gathering, preparing, and submitting the completed application form to the USP10. Itme 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. MBINAS

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PETITION FOR EXTENSION OF TIME UNDER	R 37 CFR 1.136(a)	Docket Number (Optional)		CEIVED
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Application Number 11/163,372		Filed 10/17/2005	5 AUG	9 2006
For SHAMOON, Charles G., et al. (UBIC	QUITOUS CONNE	CTIVITY AND C	ONTROL)	<u> </u>
Art Unit 2681		Examiner NGUYE	N, Huy D.	
This is a request under the provisions of 37 CFR 1.13 application.	36(a) to extend the perio	d for filing a reply in th	e above identified	
The requested extension and fee are as follows (che	ck time period desired a	nd enter the appropria	te fee below):	
	<u>Fee</u>	Small Entity Fee		
One month (37 CFR 1.17(a)(1))	\$120	\$60	\$	
Two months (37 CFR 1.17(a)(2))	\$450	\$225	_{\$} 225.00	
Three months (37 CFR 1.17(a)(3))	\$1020	\$510	\$	
Four months (37 CFR 1.17(a)(4))	\$1590	\$795	\$	
Five months (37 CFR 1.17(a)(5))	\$2160	\$1080	s	
Applicant claims small entity status. See 37 CFF	R 1.27.			
A check in the amount of the fee is enclose	d.			
Payment by credit card. Form PTO-2038 is	attached.			
The Director has already been authorized to	o charge fees in this a	pplication to a Depo	sit Account.	
The Director is hereby authorized to charge	any fees which may	be required, or credi	t any overpayment, to	
Deposit Account Number 500498		enclosed a duplica	te copy of this sheet.	
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I am the applicant/inventor.		•		
assignee of record of the ent Statement under 37 CFR	3.73(b) is enclosed (F	orm PTO/SB/96).		j
attorney or agent of record. F	Registration Number _	24,619		
attorney or agent under 37 C Registration number if acting un				
Teter D. Sachtie		08/09/2006		
Signature			Date	
Peter D. Sachtjen		919-462-30	036	
Typed or printed name		Teleph	none Number	
NOTE: Signatures of all the inventors or assignees of record of the signature is required, see below.	entire interest or their represen	tative(s) are required. Submi	it multiple forms if more than on	e
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Date:

August 9, 2006

To:

USPTO 571-273-8300

From:

Peter D. Sachtjen

Re:

Serial No.: 11/163,372 SHAMOON

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Please forward the attached response to office action to Examiner Huy D. NGUYEN in Art Unit 2681. There are 25 pages in the attached response (not including this cover page).

Also enclosed is a duplicate Request for Extension of Time form to be used for the deposit account and credit card authorization form.

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TEL 252-413-0475

Date:

August 29, 2006

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USPTO 571-273-8300

From:

Peter D. Sachtjen

Re:

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PAGE 2/3 * RCVD AT 8/29/2006 8:02:11 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/0 * DNIS:2738300 * CSID:(919) 462-3041 * DURATION (mm-ss):01-16

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

SHAMOON, Charles G., et al.

Title:

UBIQUITOUS CONNECTIVITY AND CONTROL

SYSTEM FOR REMOTE LOCATIONS

Serial No.:

11/163,372

Filing Date:

10/17/2005

Group Art Unit:

2681

Examiner:

NGUYEN, Huy D.

Docket No.:

7192-06-05

Last Action:

08/22/2006

Customer No.:

23983

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

ELECTION OF SPECIES

In response to the Office Action faxed on August 22, 2006, Applicant elects

Species I: claim 2-11, 22-24, 32-39, 41-43 and 51-58 for prosecution.

Dated: August 29, 2006

Respectfully submitted,

MILLS LAW FIRM, PLLC

For D. Sachtjen

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Ref #	Hits	Search Query	DBs	Default Operato r	Plural s	Time Stamp
S67	0	remote\$2 near5 access\$3 adj3 school adj2 information	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:39
S66	0	remote\$2 adj2 access\$3 adj3 school adj2 information	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:39
S65	6	S64 and S31	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:39
S64	7	access\$3 adj3 school adj2 information	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:38
S63	0	access\$3 adj3 school adj2 notification	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:38
S61	4	access\$3 adj3 weather adj forecast adj service	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:37
S62	2	S31 and S61	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:30
S60	0	access\$3 with weather adj forcast	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:30

S59	0	access\$3 near3 weather adj forcast	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:29
S58	0	access\$3 near3 weather adj forcast adj service	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:29
S57	0	access\$3 adj2 weather adj forcast adj service	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:29
S56	0	remote\$2 near control\$4 near3 heating with school near3 (releas\$3 or close\$2)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:28
S55	0	remote\$2 near control\$4 near3 heating with school near3 releas\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:05
S54	0	remote\$2 near control\$4 near4 window adj2 system near3 (energy or power or electricity)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:05
S30	1	remote\$2 near control\$4 near3 appliance with sms and (authoriz\$3 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:05
S53	0	remote\$2 near control\$4 near4 window adj2 system near3 energy	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:03

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S51	27	remote\$2 near control\$4 near4 window adj2 system	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:02
S52	26	S31 and S51	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:58
S49	1	remote\$2 near control\$4 near3 power with sensitive adj electronic	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:58
S50	1	S31 and S49	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:57
S48	0	remote\$2 near control\$4 near3 sprinkler with bypass\$3 near2 schedule\$2	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:56
S46	70	remote\$2 near control\$4 near3 sprinkler	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:55
S47	66	S31 and S46	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:54
S33	340	remote\$2 near control\$4 near3 appliance and (authoriz\$3 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:54

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0.45		021 1044	LIC DODL	0.0	ONI	2006/00/20
S45	8	S31 and S44	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:27
S44	8	remote\$2 near control\$4 near3 appliance and confirm\$3 near2 (message or command) near2 (sent or deliver\$3 or transmit\$3 or receiv\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:27
S43	8	S42 and S31	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:07
S42	8	remote\$2 near2 control\$4 near4 appliance same (sms or short adj message adj service)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:07
S41	5	remote\$2 near2 control\$4 near4 appliance with (sms or short adj message adj service)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:07
S39	5	remote\$2 near control\$4 near3 appliance with (sms or short adj message adj service)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:07
S40	5	S31 and S39	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:05
S38	5	remote\$2 near control\$4 near3 appliance with sms	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:04

S35	16	remote\$2 near control\$4 near3 appliance and (sms or short adj message adj service) and (authoriz\$3 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:04
S37	1	("6393297").PN.	US-PGPU B; USPAT	OR	OFF	2006/08/29 17:56
S36	11	S31 and S35	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:56
S34	299	S31 and S33	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:37
S32	1	S30 and S31	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:36
S31	2648805	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:36
S29	2648805	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:33
S28	1	remote\$2 near control\$4 near3 appliance with sms and (authoriz\$3 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:33
S10	5	remote\$2 near control\$4 near3 appliance with sms	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:32
S27	1	("6393297").PN.	US-PGPU B; USPAT	OR	OFF	2006/08/29 16:51

S26	16	electromechanical adj switch\$3 near2 advantage	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
S25	43	electromechanical adj switch\$3 near3 advantage	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
S22	64	remote\$2 near control\$3 with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
S24	1	S18 and S23	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39
S23	94629	"455"/\$.ccls.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39
S18	54	S9 and S17	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39
S21	0	remote\$2 near control\$4 near4 appliance same electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:38
S20	0	remote\$2 near control\$4 near4 appliance with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:38

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S19	0	remote\$2 near control\$4 near appliance with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:38
S17	59	remote\$2 near control\$4 with electromechanical adj switch	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:37
S14	186657	remote\$2 near control\$4	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:37
S16	236	S9 and S15	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
S15	252	S12 and S14	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
S13	0	S8 and S12	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
S12	2567	electromechanical adj switch	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
S8	107	remote\$2 near control\$4 with sms	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36

S11	5	S9 and S10	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:35
S9	2591404 9	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:18
S7	1	("20050044225").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/24 14:17
S6	1	("20040092282").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/24 13:33
S5	1	("20030210126").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/24 13:17
S1	208	(detection adj system).ti. and (theft or thieves)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 12:35
S4	5	(close\$2 near proximity and detect\$3).ti.	US-PGPU B; USPAT	OR	ON	2006/02/23 16:02
S3	1	("20030210126").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/23 16:01
S2	82	(detection adj system and (theft or thieves)).ti.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/23 15:05

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
11/163,372	10/17/2005	Charles G. SHAMOON	7192-06-05 4371 EXAMINER NGUYEN, HUY D	
23983 75	590 09/06/2006		EXAM	INER
	FIRM, PLLC		NGUYEN	, HUY D
P.O BOX 1245 Cary, NC 275			ART UNIT	PAPER NUMBER
,,			2617	
			DATE MAILED: 09/06/2006	5

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

		Application No.	Applicant(s)
	1)⊠ Responsive to communication(s) filed on 09 August 2006. 2a)⊠ This action is FINAL. 2b)□ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. isposition of Claims 4)☑ Claim(s) 1-11.21-58 is/are pending in the application. 4a) Of the above claim(s) 25-31 and 44-50 is/are withdrawn from consideration. 5)☑ Claim(s) 1-11 is/are allowed. 6)☑ Claim(s) 21-24.32-34.38.40-43.51-53 and 57 is/are rejected. 7)☑ Claim(s) 35-37.39.54-56 and 58 is/are objected to. 8)□ Claim(s) 35-37.39.54-56 and 58 is/are objected to. 8)□ Claim(s) — are subject to restriction and/or election requirement. **pplication Papers** 9)□ The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. **riority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No. 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		
	## SHAMOON ET AL Examiner		
	The MAILING DATE of this communication apr	, , , ,	
			orrespondence address
WHIC - Exter after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period we tre to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on <u>09 Ar</u>	ugust 2006.	
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.	
3)□			
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	63 O.G. 213.
Dispositi	on of Claims		
4)⊠	Claim(s) 1-11,21-58 is/are pending in the appli	cation.	
	4a) Of the above claim(s) 25-31 and 44-50 is/ai	re withdrawn from consideration.	
5)⊠	Claim(s) <u>1-11</u> is/are allowed.		
8)∐	Claim(s) are subject to restriction and/or	r election requirement.	
Applicati	on Papers		
9)[The specification is objected to by the Examine	r.	
			Examiner.
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority u	ınder 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).
	· -	, , , , , , , , , , , , , , , , , , ,	
		s have been received.	
	2. Certified copies of the priority documents	s have been received in Application	on No
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage
	• •	· · · · · · · · · · · · · · · · · · ·	
* 5	HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. ICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. International of time may be available under the provisions of 37 FR 1.136(s). In over the Newer. way a reply be timely filed of 30 K (9) MONTHS from the mailing date of this communication. If the provision of 37 FR 1.136(s) in over the North Period State of this communication. We will expire SX (6) MONTHS from the mailing date of this communication. We will expire SX (6) MONTHS from the mailing date of this communication. We have the set or estended profetor reply will be patient to the set or estended profetor reply will be state. Cause the applicant to become ABMODENE (54 U.S. C. § 133). We reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any in reply patient term adjustment. Set 37 CFR 1.704(b). Responsive to communication(s) filed on *09 August 2006*. Responsive to communication(s) filed on *09 August 2006*. 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. It claim (s) *1.11.21-58* is/are pending in the application. 4a) Of the above claim(s) *25-31 and 44-50* is/are withdrawn from consideration. Claim(s) *1.11.21-58* is/are pending in the application. Claim(s) *1.11.21-58* is/are allowed. Claim(s) *1.11.21-58* is/are pending the transfer is/are pending the set of the set o		
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3) Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P	
Pape	r No(s)/Mail Date	6) [] Other:	

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

Office Action Summary

Part of Paper No./Mail Date 20060822

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species:

Species I: claims 2-11, 22-24, 32-39, 41-43, 51-58.

Species II: claims 25-31, 44-50.

The species are independent or distinct because species I is drawn to remote programming control, classified in class 455, subclass 419; species II is drawn to privacy/authentication, classified in class 455, subclass 411.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 21, 40 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

2. During a telephone conversation with Peter D. Sachtjen on 8/28/2006 a provisional election was made to prosecute the invention of species I, claims 2-11, 22-24, 32-39, 41-43, 51-

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58. Affirmation of this election must be made by applicant in replying to this Office action.

Claims 25-31, 44-50 are withdrawn from further consideration by the examiner, 37

CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 21, 24, 32-33, 40, 43, 51-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa (US 2003/0210126 A1) in view of Song (US Patent No. 6,393,297).

Regarding claims 21, 40, Kanazawa teaches a method for environmental control and information processing associated with a structure, the method comprising: receiving from a remote control unit (e.g., cell phone 3 – see fig. 1) messages comprising control information to use for controlling a plurality of environmental control units (e.g., devices 1, see figure 1) associated with the structure (e.g., home, see fig. 1); creating control commands for the plurality of environmental control units based on the control information messages; and delivering the control commands to the plurality of environmental control units (see paragraphs [0002], [0020]. Kanazawa teaches the claimed invention except the use of SMS. However, the preceding limitation is taught in Song (see column 1, lines 19-23). It would have been obvious to one

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having ordinary skill in the art at the time the invention was made to apply the teaching of Song to the teaching of Kanazawa to increase system capability by adding more function/service.

Regarding claims 24, 43, the combination of Kanazawa in view of Song teaches the method of claim 21 comprising controlling environmental conditions within the structure using the plurality of environmental control units (see Kanazawa: fig. 1 and paragraph [0020]).

Regarding claims 32, 51, the combination of Kanazawa in view of Song teaches the method of claim 21 comprising accessing remote information (e.g., from monitoring center – see Song) creating a control command based on the remote information and delivering the control command to at least one of the plurality of environmental control units (see Song: fig. 2).

Regarding claims 33, 52, the combination of Kanazawa in view of Song teaches the method of claim 32 comprising sending an SMS message to the remote control unit (e.g., mobile terminal – see Song) based on the remote information (e.g., from monitoring center – see Song) and the control command delivered to the at least one of the plurality of environmental control units (see Song: fig. 2).

5. Claims 22-23, 41-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa (US 2003/0210126 A1) in view of Song (US Patent No. 6,393,297) and in further view of Haughawout et al. (US 2004/0263349 A1).

Regarding claims 22, 41, the combination of Kanazawa in view of Song teaches the method of claim 21 except sending an SMS message to the remote control unit indicating delivery of a control command to at least one of the plurality of environmental control units. However, the preceding limitation is taught in Haughawout et al. (see claim 27). It would have

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been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Haughawout et al. to the teaching of Kanazawa in view of Song to maintain system performance by making sure the sequence of command codes are delivered in order.

Regarding claims 23, 42, the combination of Kanazawa, Song, and Haughawout et al.teaches the method of claim 22 wherein the SMS message includes status information for at least one of the plurality of environmental control units (see Song: fig. 2).

6. Claims 34, 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa (US 2003/0210126 A1) in view of Song (US Patent No. 6,393,297) and in further view of Mizuta (US 2001/0035817 A1).

Regarding claims 34, 53, the combination of Kanazawa in view of Song teaches the claimed invention except accessing a weather forecast service and the remote information relates to local weather conditions. However, the preceding limitation is taught in Mizuta (see paragraph [0062]). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Mizuta to the teaching of Kanazawa in view of Song to increase system capability by adding more information services.

7. Claims 38, 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa (US 2003/0210126 A1) in view of Song (US Patent No. 6,393,297) and in further view of Robinson et al. (US 2002/0177109 A1).

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Regarding claims 38, 57, the combination of Kanazawa in view of Song teaches the claimed invention except accessing remote information includes accessing a school system's notification information service and the remote information includes school related information.

However, the preceding limitation is taught in Robinson et al. (see paragraph [0085]). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Robinson et al. to the teaching of Kanazawa in view of Song to increase system capability by adding more information services.

Allowable Subject Matter

- 8. Claims 35-37, 39, 54-56, 58 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Claims1-11 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, Kanazawa teaches a ubiquitous connectivity and communications system for controlling operation of an environmental condition in a structure, comprising: a device for controlling the environmental condition in the structure (e.g., device 1, see figure 1); a base unit (e.g., controller 2) in said structure and operatively interfaced with said device to control the operation thereof (see figure 1); a remote device (e.g., cellular 3); wireless connectivity means providing an on-demand, private and direct communications interface between said base unit and said remote device enabling instant wireless connectivity therebetween (e.g., cellular phone transceiver); means for providing an indication of current

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status of said device to said base unit (e.g., Bluetooth network); input means at said remote device for prescribing an indication of revised status for said device (e.g., WWW browser function, see paragraph [0020]); means for transmitting said indication of revised status through said connectivity means to said base unit (e.g, cellular phone transmitter); means operatively associated with said base unit and operatively connected with said device for effecting said revised status for said device (see paragraph [0020]). Kanazawa does not specifically teach means for transmitting said indication of current status through said connectivity means to said remote device and display means at said remote device for indicating said current status of said device. However, the preceding limitations are taught in Kim et al. (see figure 3 and paragraph [0045]). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Kim et al. to the teaching of Kanazawa to provide convenience for users. The combination of Kanazawa and Kim et al.teaches the claimed invention except the use of SMS. However, the preceding limitation is taught in Song (see column 1, lines 19-23). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Song to the teaching of Kanazawa and Kim et al. to increase system capability by adding more function/service.

However, the cited prior arts, either alone or in combination, fail to teach means for transmitting said second SMS message including information associated with the remote device and the indication of revised status through said connectivity means to said base unit, wherein the base unit is adapted to authenticate the second SMS message using the information associated with the remote device, in combination with all of other limitations in the claim.

Claims 2-11 depend on claim 1. Thus, they are allowable.

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Art Unit: 2617

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

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

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

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

Application/Control Number: 11/163,372

Art Unit: 2617

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

Huy D Nguyen Patent Examiner Art Unit 2617

Applicant(s)/Patent Under Application/Control No. Reexamination 11/163,372 SHAMOON ET AL. Notice of References Cited Examiner Art Unit Page 1 of 1 Huy D. Nguyen 2681 **U.S. PATENT DOCUMENTS Document Number** Date Classification Name Country Code-Number-Kind Code MM-YYYY US-2003/0210126 11-2003 340/5.5 Kanazawa, Ritsuko US-2004/0092282 05-2004 Kim et al. 455/522 В US-2004/0235446 11-2004 Flaherty et al. 455/352 С US-6,393,297 455/466 D 05-2002 Song, Ho Ji US-2004/0263349 12-2004 Haughawout et al. 340/825.72 Ε US-2002/0177109 11-2002 Robinson et al. 434/118 F US-2001/0035817 11-2001 Mizuta, Rika 340/438 G US-Н US-US-J US-Κ US-L US-М FOREIGN PATENT DOCUMENTS Document Number Date Country Name Classification Country Code-Number-Kind Code MM-YYYY Ν 0 Р Q R s Т **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)

*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)

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Notice of References Cited

Part of Paper No. 20060829

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Part of Paper No. 20060829

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

SHAMOON, Charles G., et al.

Title:

UBIQUITOUS CONNECTIVITY AND CONTROL

SYSTEM FOR REMOTE LOCATIONS

Serial No.:

11/163,372

Filing Date:

10/17/2005

Group Art Unit:

2617

Examiner:

NGUYEN, Huy D.

Docket No.:

7192-06-05

Last Action:

09/06/2006

Customer No.:

23983

Mail Stop AF Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

RESPONSE TO THE FINAL OFFICE ACTION MAILED SEPTEMBER 6, 2006

In response to the Final Office Action mailed September 6, 2006, Applicant offers the following amendments and remarks. Applicant encloses a payment in the amount of \$225.00 to cover the fee associated with a Two-month Extension of Time for a small entity and requests that this be considered a petition therefore.

Additionally, Applicant transmits herewith the issue fee and publication fee for the above-identified application in the amount of \$1,000.00. If any additional fees are required in association with this response, the Director is hereby

To: 571-273-8300

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

In the Claims:

Amend claims as set forth in the attached Claims Status.

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CLAIM STATUS

1. (Previously Presented) A ubiquitous connectivity and communications system for controlling operation of an environmental condition in a structure, comprising:

a device for controlling the environmental condition in the structure;

a base unit in said structure and operatively interfaced with said device to control the operation thereof;

a remote device adapted to send and receive short message service (SMS) messages;

wireless connectivity means providing an on-demand, private and direct communications interface between said base unit and said remote device enabling instant wireless connectivity therebetween without use of an Internet connection;

means for providing an indication of current status of said device to said base unit;

means for transmitting said indication of current status through said connectivity means from the base unit to said remote device as a first SMS message;

display means at said remote device for indicating said current status of said device;

input means at said remote device for prescribing an indication of revised status for said device as a second SMS message, wherein the second SMS message includes information associated with the remote device;

means for transmitting said second SMS message including information associated with the remote device and the indication of revised status through said connectivity means to said base unit, wherein the base unit is adapted to authenticate the second SMS message using the information associated with the remote device;

means operatively associated with said base unit and operatively connected with said device for effecting said revised status for said device.

- 2. (Previously Presented) The system as recited in claim 1 wherein said device for controlling the environmental condition includes electronic and electromechanical switching means interfaced with said device for controlling the environmental condition.
- 3. (Original) The system as recited in claim 1 wherein said base unit is a microcontroller-based processing unit having customizable application specific software.
- 4. (Original) The system as recited in claim 1 wherein said remote device is a cellular telephone handset with custom programmability means.
- 5. (Original) The system as recited in claim 4 wherein said custom programmability means is a JAVA programming kernel.
- 6. (Original) The system as recited in claim 4 wherein said custom programmability means is a J2ME programming kernel.
- 7. (Previously Presented) The system as recited in claim 1 wherein said connectivity means includes a transmitting and receiving module in said base unit and a transmitting and receiving unit in said remote device operatively communicating with each other over a cellular telephone network.

- 8. (Previously Presented) The system as recited in claim 1 wherein said means for providing an indication of current status to said base unit and said means for transmitting said indication of current status is a short message service (SMS) message carried along a cellular telephone network.
- 9. (Original) The system as recited in claim 1 wherein said display means is a liquid crystal display module.
- 10. (Original) The system as recited in claim 9 wherein said liquid crystal module includes selectable graphic icons corresponding to environmental conditions being monitored or controlled.
- 11. (Previously Presented) The system as recited in claim 8 including means operative between said remote devices using said SMS for selectively disabling transmission thereto.

12-58 are Cancelled.

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REMARKS

Applicant has carefully reviewed the Final Office Action mailed September 6, 2006 and offers the following remarks to accompany the above amendments.

Status of the claims

Claims 1-58 are pending in the present application. Claims 12-20 were previously withdrawn from prosecution without traverse. Claims 12-58 are cancelled. Accordingly, allowed claims 1-11 are pending.

Election/Restriction

In response to the restriction requirement, Applicant hereby affirms the provisional election made by Peter D. Sachtjen on August 28, 2006, to prosecute the invention of species I, which includes claims 2-11, 22-24, 32-39, 41-43, and 51-58. Applicant reserves the right to file divisional applications directed to the non-elected and herein cancelled claims at a later time during the pendency of the present application.

Allowable Subject Matter

Applicant wishes to thank the Examiner for indicating that claims 1-11 are allowed and that claims 35-37, 39, 54-56, and 58 would be allowable if rewritten in independent form. Applicant reserves the right to rewrite claims 35-37, 39, 54-56, and 58 at a later time. In order to expedite issuance of claims 1-11, Applicant hereby cancels claims 12-58 from prosecution within the present application without prejudice.

Comments on Statement of Reasons for Allowance

Applicant provides the following comments on the Patent Office's statement of reasons for allowance of claims 1-11 for the record. (See Final Office Action mailed September 9, 2006, pages 6 and 7).

Applicant concurs with the Patent Office's admission (see Final Office Action mailed September 9, 2006, page 7) that the prior art of record fails to teach multiple elements of claim 1. Specifically, the Patent Office admits that the prior art of record fails to teach transmitting a second SMS message including information associated with the remote device and the indication of revised status through connectivity means to a base unit. The Patent Office additionally admits that the prior art of record fails to teach that the base unit is adapted to authenticate the second SMS message using the information associated with the remote device. Applicant agrees that the prior art of record fails to teach these elements and allowance is proper on this basis alone.

Moreover, Applicant's invention, as recited in claims 1 through 11, provides for a base unit capable of direct wireless communication with a wireless remote device without requiring an Internet or PSTN connection outside the structure. More particularly, Applicant's Figure 4 shows that the base control unit 16 includes a wireless module 70. Applicant's Figure 1 shows the base control unit 16, in the structure, in direct communication with a cellular tower 24, which is likewise in communication with a cellular network 22. A master control unit 12 and a remote control unit 26, which may include a cell phone 30 depicted within Figure 3, are also illustrated within Figure 1 to be in direct wireless communication with other cell towers 24 within the cellular network 22. Accordingly, Applicant's invention provides for a base unit, in the structure, capable of direct wireless communication with a wireless remote device without requiring an Internet or

PSTN connection outside the structure in the communication to the remote control unit.

In contrast, neither U.S. Patent Application Publication No. 2003/0210126 A1 to Kanazawa nor U.S. Application Publication No. 2004/0092282 A1 to Kim et al. (hereinafter "Kim"), either alone or in combination, teach a wireless base unit. As such, a combination of Kanazawa with Kim does not teach wireless connectivity means providing an on-demand, private and direct communications interface between a base unit, in the structure, and a remote device enabling instant wireless connectivity therebetween. Kanazawa shows within Figure 1 that the controller 2 requires a direct Internet connection and is not capable of direct wireless communication. (See Kanazawa, Figure 1; paragraph 0020). Likewise, Kim does not teach a wireless base unit either and requires a direct Internet connection 3 at a user terminal 7 to communicate with a remote server 5 and an electronic appliance 10. Additionally, a telephone network 32 is used between a telephone signal transmit unit 24 and a telephone network accessing unit 12 to provide dual-tone multi-frequency (DTMF) control of the electronic appliance. The only connection between the user terminal 7 and the other units is via the Internet 3. (See Kim, Figures 1 and 2; paragraphs 0024 and 0031-0036). Accordingly, neither Kanazawa nor Kim, either alone or in combination, teach a wireless base unit or wireless connectivity means providing an on-demand, private and direct communications interface between a base unit and a remote device enabling instant wireless connectivity therebetween.

Furthermore, because a combination of Kanazawa with Kim does not teach wireless means providing an on-demand, private and direct communications interface between a base unit and a remote device enabling instant wireless connectivity therebetween, the combination does not teach transmitting an indication of current status through a wireless connectivity means from a base unit

to a remote device. The Patent Office admits that Kanazawa does not teach "means for transmitting said indication of current status through said connectivity means . . ." (See Final Office Action mailed September 9, 2006, page 7). The Patent Office then asserts that these limitations are taught by Kim and that it would be obvious to combine Kanazawa with Kim. *Ibid*. However, as discussed above, neither Kanazawa nor Kim, either alone or in combination, teach a base unit capable of wireless communication and, as such, also do not teach wireless connectivity means providing an on-demand, private and direct communications interface between said base unit and said remote device enabling instant wireless connectivity therebetween. Accordingly, Applicant takes exception for the record of the Patent Office's assertion within the reasons for allowance that Kim cures the admitted deficiency of Kanazawa.

Additionally, the Patent Office admits that the combination of Kanazawa and Kim does not teach SMS messaging and asserts that U.S. Patent No. 6,393,297 B1 to Song cures this deficiency. (See Final Office Action mailed September 9, 2006, page 7). However, Applicant notes that Song requires the external appliance 100 to encode/decode SMS messages directly. As such, Song also does not provide a base unit capable of wireless communication. Further, a data input/output port is required to communicate between the external appliance 100 and the mobile terminal 110. (See Song, Figure 1; col. 2, lines 34-42). An external appliance of Song requires extensive modifications to provide an appliance capable of performing SMS messaging and does not do so in a wireless fashion.

Accordingly, any combination of Song with Kanazawa and Kim still does not teach at least a base unit in a structure operatively interfaced with a device to control the operation thereof and does not teach wireless connectivity means providing an on-demand, private and direct communications interface between a base unit and a remote device enabling instant wireless connectivity therebetween.

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Conclusion

Claims 1-11 of the present application are now in condition for allowance and such action is respectfully requested. The Examiner is encouraged to contact Applicant's representative regarding any remaining issues in an effort to expedite allowance and issuance of the present application.

Dated: February 6, 2007

Respectfully submitted,

MILLS LAW FIRM, PLLC

For D. Sachtjen

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

Ishman Law Firm P.C. Post Office Box 1245 Cary, NC 27512

Telephone: (919) 462-3036 Facsimile: (919) 462-3041

Attorney Direct Line: (252) 413-0475

FEB 0 6 2007

PTO/SB/22 (12-04)
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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)			Docket Number (Optional)	
FY 2		LR. 4918).)	7192-06-05	
Application Number 11/163,372			Filed 10/17/2005	
For SHAMOON, Charles G., e	et al. (UBIQUITO	OUS CONNE	CTIVITY AND CON	NTROL)
Art Unit 2681		-	Examiner NGUYEN	, Huy D.
This is a request under the provisions of application.	of 37 CFR 1.136(a) to	extend the perio	d for filing a reply in the a	bove identified
The requested extension and fee are a	s follows (check time	period desired ar		ee below):
		Fee	Small Entity Fee	
One month (37 CFR 1.17	'(a)(1))	5120	\$60	\$
Two months (37 CFR 1.1	7(a)(2))	\$450	\$225	\$ 225.00
Three months (37 CFR 1	.17(a)(3)) \$	1020	\$510	\$
Four months (37 CFR 1.1	17(a)(4)) \$	1590	\$795	\$
Five months (37 CFR 1.1	7(a)(5)) \$	2160	\$1080	\$
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A check in the amount of the fe	ee is enclosed.			
Payment by credit card. Form I	PTO-2038 is attach	ed.		
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NOTE: Signatures of all the inventors or assignee signature is required, see below.	s of record of the entire inte	erest or their represent	ative(s) are required. Submit mu	ltiple forms if more than one
Total of One (1)	forms are subr	nitted.		

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EASTERN OFFICE: 252-413-0475

Date:

February 6, 2007

To:

USPTO 571-273-8300

From:

Peter D. Sachtjen

Re:

Serial No.: 11/163,372 SHAMOON

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFOR MATION THAT IS PRIVILEGED, CONFIDENTIAL, AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US. THANK YOU

Please forward the attached response to office action to Examiner Huy D. NGUYEN in Art Unit 2617. There are 12 pages in the attached response (not including this cover page).

Also enclosed is a duplicate Request for Extension of Time form to be used for the deposit account.

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PAGE 1/14 * RCVD AT 2/6/2007 3:47:59 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-2/20 * DNIS:2738300 * CSID:(919) 462-3041 * DURATION (mm-ss):04

From: Stefanie Hansen

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PAGE 2/14 * RCVD AT 2/6/2007 3:47:59 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-2/20 * DNIS:2738300 * CSID:(919) 462-3041 * DURATION (mm-ss):04-46

PTO/88/06 (06-03) Approved for use through 7/31/2008, OMB 0651-0032
U.S. Peleni and Tredemark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are regulard to respond to a collection of information smiles it displays a reliad CMB control number. PATENT APPLICATION FEE DETERMINATION RECORD Application or Docket Number **Substitute for Form PTO-875** CLAIMS AS FILED - PART I OTHER THAN (Column 1) (Column 2) SMALL ENTITY OR SMALL ENTITY FOR NUMBER FILED HUMBER EXTRA FEE BASIC FEE RATE (37 OFR 1.16(a)) 395 1900 TOTAL CLAIMS OR (37 CFR 1.18(c)) minue 20 = 50. OR INDEPENDENT CLAIMS (37 CFR 1.16(b)) minus 3 OR MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(d)) 300 OR If the difference in column 1 is less than zero, enter "0" in column 2. TOTAL TOTAL CLAIMS AS AMENDED - PART II OTHER THAN (Column 1) (Column 3) OR SMALL ENTITY SMALL ENTITY CLAIMS REMAINING PRESENT NUMBER RATE ENT ADDI RATE AFTER PREVIOUSLY ADOI. EXTRA TIONAL TIONAL AMENDMENT PAID FOR FEE 7 olal (37 CFR 1.14(c)) FEE Minus 8/ ďά OR FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM D7 CFR 1.16(d)) OR TOTAL TOTAL OR ADO'L FEE (Column 1) (Cotumn 2) (Column 3) CLAIMS HIGHEST 8 REMAINING NUMBER PRESENT RATE ENDMENT ADDI-RATE AFTER PREVIOUSLY ADDI-TIONAL FEE TIONAL PAID FOR Total (37 CFR 1.16(c) Minus Independent D7 CFR 1 16/b) OR Minus OR FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR:1 16(d)) OR TOTAL ADD'L FEE OR ADD' FEE (Column 1) (Column 2) (Column 3) CLAIMS HIGHEST REMAINING PRESENT NUMBER RATE ADDI-ADDI-**AFTER** PREVIOUSLY EXTRA TIONAL TIONAL AMENDMENT PAID FOR FEE FEE Minus AMENDM OR Independent pr CFR 1,16(b) Minus OR FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d)) OR TOTAL 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". ADD1 FEE

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, on the amount of time you require to complete this form and/or suggestions for reducing Ints burden, should be sent to the Chief tolormation 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.D. Box 1450, Alexandria, VA 22313-1450

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

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If more than 160 claims or 10 actions staple additional sheet here

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Ref #	Hits	Search Query	DBs	Default Operato r	Plural s	Time Stamp
S71	0	(remote\$2 near control\$4 near4 appliance same (sms or short adj message adj service) same (base adj unit or antenna or base adj staion)).clm.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/03/24 21:00
S70	0	remote\$2 near control\$4 near4 appliance same (sms or short adj message adj service) same (base adj unit or antenna)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/03/24 21:00
S69	2	remote\$2 near control\$4 near4 appliance same (sms or short adj message adj service) same (base adj station or antenna)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/03/24 20:59
S68	1	remote\$2 near control\$4 near3 appliance same (sms or short adj message adj service) same (station or antenna)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/03/24 20:56
S35	16	remote\$2 near control\$4 near3 appliance and (sms or short adj message adj service) and (authoriz\$3 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/03/24 20:52
S67	0	remote\$2 near5 access\$3 adj3 school adj2 information	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:39
S66	0	remote\$2 adj2 access\$3 adj3 school adj2 information	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:39
S65	6	S64 and S31	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:39

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S64	. 7	access\$3 adj3 school adj2 information	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:38
S63	0	access\$3 adj3 school adj2 notification	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:38
S61	4	access\$3 adj3 weather adj forecast adj service	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:37
S62	2	S31 and S61	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:30
S60	0	access\$3 with weather adj forcast	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:30
S59	. 0	access\$3 near3 weather adj forcast	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:29
S58	0	access\$3 near3 weather adj forcast adj service	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:29
S57	0	access\$3 adj2 weather adj forcast adj service	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:29

S56	0	remote\$2 near control\$4 near3 heating with school near3 (releas\$3 or close\$2)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:28
S55	0	remote\$2 near control\$4 near3 heating with school near3 releas\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:05
S54	0	remote\$2 near control\$4 near4 window adj2 system near3 (energy or power or electricity)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:05
S30	1	remote\$2 near control\$4 near3 appliance with sms and (authoriz\$3 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:05
S53	0	remote\$2 near control\$4 near4 window adj2 system near3 energy	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:03
S51	27	remote\$2 near control\$4 near4 window adj2 system	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 20:02
S52	26	S31 and S51	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:58
S49	1	remote\$2 near control\$4 near3 power with sensitive adj electronic	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:58

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S50		S31 and S49	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:57
S48	0	remote\$2 near control\$4 near3 sprinkler with bypass\$3 near2 schedule\$2	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:56
S46	70	remote\$2 near control\$4 near3 sprinkler	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:55
S47	66	S31 and S46	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:54
S33	340	remote\$2 near control\$4 near3 appliance and (authoriz\$3 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON ·	2006/08/29 19:54
S45	8	S31 and S44	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:27
S44	8	remote\$2 near control\$4 near3 appliance and confirm\$3 near2 (message or command) near2 (sent or deliver\$3 or transmit\$3 or receiv\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 19:27
S43	8	S42 and S31	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:07

S42	8	remote\$2 near2 control\$4 near4 appliance same (sms or short adj message adj service)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:07
S41	5	remote\$2 near2 control\$4 near4 appliance with (sms or short adj message adj service)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:07
S39	5	remote\$2 near control\$4 near3 appliance with (sms or short adj message adj service)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:07
S40	5	S31 and S39	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:05
S38	5	remote\$2 near control\$4 near3 appliance with sms	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 18:04
S37	1	("6393297").PN.	US-PGPU B; USPAT	OR	OFF	2006/08/29 17:56
S36	11	S31 and S35	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:56
S34	299	S31 and S33	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:37
S32	1	S30 and S31	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:36

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S31	2648805	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:36
S29	2648805	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:33
S28	1	remote\$2 near control\$4 near3 appliance with sms and (authoriz\$3 or authenticat\$3)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:33
S10	5	remote\$2 near control\$4 near3 appliance with sms	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/08/29 17:32
S27	1	("6393297").PN.	US-PGPU B; USPAT	OR	OFF	2006/08/29 16:51
S26	16	electromechanical adj switch\$3 near2 advantage	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
S25	43	electromechanical adj switch\$3 near3 advantage	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
S22	64	remote\$2 near control\$3 with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:48
S24	1	S18 and S23	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39

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S23	94629	"455"/\$.ccls.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39
S18	. 54	S9 and S17	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:39
S21	0	remote\$2 near control\$4 near4 appliance same electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:38
S20	0	remote\$2 near control\$4 near4 appliance with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:38
S19	0	remote\$2 near control\$4 near appliance with electromechanical adj switch\$3	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:38
S17	59	remote\$2 near control\$4 with electromechanical adj switch	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:37
S14	186657	remote\$2 near control\$4	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:37
S16	236	S9 and S15	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36

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S15	252	S12 and S14	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
S13	0	S8 and S12	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
S12	2567	electromechanical adj switch	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
S8	107	remote\$2 near control\$4 with sms	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:36
S11	5	S9 and S10	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:35
S9	2591404	@ad<"20041118"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 14:18
S7	1	("20050044225").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/24 14:17
S6	1	("20040092282").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/24 13:33
S5	1	("20030210126").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/24 13:17
S1	208	(detection adj system).ti. and (theft or thieves)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/24 12:35
S4	5	(close\$2 near proximity and detect\$3).ti.	US-PGPU B; USPAT	OR	ON	2006/02/23 16:02

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S3	1	("20030210126").PN.	US-PGPU B; USPAT	OR	OFF	2006/02/23 16:01
S2	82	(detection adj system and (theft or thieves)).ti.	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/02/23 15:05

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NOTICE OF ALLOWANCE AND FEE(S) DUE

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05/04/2007

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

EXA	MINER
NGUYI	EN, HUY D
ART UNIT	PAPER NUMBER
2617	
DATE MAILED: 05/04/20	007

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	11/163,372	10/17/2005	Charles G. SHAMOON	7192-06-05	4371

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

APPLN. TYPE	SMALL ENTITY .	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$0	\$1000	08/06/2007

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

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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

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

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- 11. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 3

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

indicated unless corrected maintenance fee notificati	d below or directed oth	ig the Patent, advance of the lerwise in Block 1, by (a	a) specifying a new corres	pondence address;	and/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDE	NCE ADDRESS (Note: Use Ble	ock 1 for any change of address)	Note Fect pape have	e: A certificate of m s) Transmittal. This ers. Each additional e its own certificate of	nailing can only be used for certificate cannot be used a paper, such as an assignment of mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
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Ishman Law Fir P.O BOX 1245 Cary, NC 27512-			I he Stat addi tran:	reby certify that this	Fee(s) Transmittal is bein	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
						(Depositor's name)
						(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/163,372	10/17/2005		Charles G. SHAMOON	•	7192-06-05	4371
		ECTIVITY AND CONT	ROL SYSTEM FOR REM	OTE EGGATIONS		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$0	\$1000	08/06/2007
EXAMI	NER	ART UNIT	CLASS-SUBCLASS			
NGUYEN,		2617	455-419000			
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required.	ndence address (or Char 1122) attached. cation (or "Fee Address" or more recent) attach	nge of Correspondence Indication form cd. Use of a Customer	For printing on the p (1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorney or a contract of the contra	3 registered patent vely, c firm (having as a r gent) and the names meys or agents. If no printed.	nember a 2	
	ess an assignee is identi in 37 CFR 3.11. Comp NEE	ified below, no assignee eletion of this form is NO	(B) RESIDENCE: (CITY	atent. If an assigned assignment. and STATE OR CO	OUNTRY)	ocument has been filed for
4a. The following fee(s) at	re submitted:	41	b. Payment of Fcc(s): (Plea A check is enclosed. Payment by credit car	se first reapply any	previously paid issue fee	shown above)
5. Change in Entity State a. Applicant claims	us (from status indicated SMALL ENTITY statu	•	☐ b. Applicant is no long	ger claiming SMALI	L ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	he applicant; a regist	ered attorney or agent; or the	he assignee or other party in
Authorized Signature _				Date		
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This collection of informa an application. Confidenti submitting the completed this form and/or suggestio Box 1450, Alexandria, Vi Alexandria, Virginia 2231 Under the Paperwork Red	tion is required by 37 C ality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DO 3-1450. uction Act of 1995, no p	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR (persons are required to re-	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO spond to a collection of inf	ctain a benefit by the imated to take 12 m idual case. Any con r, U.S. Patent and To THIS ADDRESS. ormation unless it di	e public which is to file (an inutes to complete, includin ments on the amount of ti rademark Office, U.S. Dep SEND TO: Commissioner splays a valid OMB control	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,



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

APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/163,372	1	0/17/2005	Charles G. SHAMOON	7192-06-05	. 4371
23983	7590	05/04/2007		EXAM	INER
Ishman Law F	irm P.C.			NGUYEN	, HUY D
P.O BOX 1245				ART UNIT	PAPER NUMBER
Cary, NC 27512	2-1245			2617 DATE MAILED: 05/04/200	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

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

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	44/402 270	SUAMOON ET AL					
Notice of Allowability	11/163,372 Examiner	SHAMOON ET AL. Art Unit					
	Huy D. Nguyen	2617					
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	orrespondence address plication. If not included will be mailed in due course. THIS					
1. \square This communication is responsive to <u>2/6/2007</u> .							
2. The allowed claim(s) is/are <u>1-11</u> .							
 3. Acknowledgment is made of a claim for foreign priority unerstanding a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	been received.						
Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •						
Copies of the certified copies of the priority do	cuments have been received in this i	national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:		<i>f</i>					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.						
(a) including changes required by the Notice of Draftspers		948) attached					
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date							
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(o	ngs in the front (not the back) of i).					
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Matica of lateracid B	-44 A					
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. Notice of Informal P	• • • • • • • • • • • • • • • • • • • •					
	 Interview Summary Paper No./Mail Dat 	e					
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amenda	nent/Comment					
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance					
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U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06) Application/Control Number: 11/163,372

Art Unit: 2617

Page 2

DETAILED ACTION

Allowable Subject Matter

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

Claims 12-58 have been canceled.

Claims 1-11 were previously allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 11/163,372

Art Unit: 2617

Page 3

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.

PD)

Huy D Nguyen Patent Examiner Art Unit 2617

JUSEPH FEILD
SUPERVISORY PATENT EXAMINER

				Application/Control No.				Applicant(s)/	Applicant(s)/Patent Under Reexamination	xamination
ISS	ue Clas:	Issue Classification	•	11163372				SHAMOON ET AL.	:T AL.	
			<u></u>	Examiner				Art Unit		
				Nguyen, Huy D			-	2617		
		ORIGINAL	NAL					ERNATIONAL	INTERNATIONAL CLASSIFICATION	7
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	TOTAL MENT	B			9/	10/2/16	~		O.G. Print Claim(s)	O.G. Print Figure
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RES935 - 1007, Page 173



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Bib Data Sheet

CONFIRMATION NO. 4371

SERIAL NUMBER 11/163,372	FILING OR 371(c)	CLASS 455	GROUP A		D	ATTORNEY OCKET NO. 7192-06-05		
Deborah H. SH Franklin Euger Michael D. FEH ** CONTINUING DAT This application 11/18/2004 ** FOREIGN APPLIC	AMOON, Little Elm, TX; IAMOON,	; IC; ** 4-J 06/06/2005 PAT 6,990		claims ber	nefit of	60/522,887		
Foreign Priority claimed yes no as USC 119 (a-d) conditions yes no met Net Allowance Verified and Acknowledged Examiner's Signature Initials STATE OR COUNTRY DRAWING 1 TX 4 TOTAL CLAIMS 20 2 2								
23983 TITLE UBIQUITOUS CONN	ECTIVITY AND CONTR	OL SYSTEM FOR RE	MOTE LOC	ATIONS		·		
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	Application/Control No.	Applicant(s)/Patent Under Reexamination
Index of Claims	11163372	SHAMOON ET AL.
	Examiner	Art Unit
•	Nguyen, Huy D	2617

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
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Claims	renumbered	in the same	order as pro	esented by	applicant		☐ CPA	□ т.	.D. 🗆	R.1.47
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U.S. Patent and Trademark Office

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Index of Claims	11163372	SHAMOON ET AL.
	Examiner	Art Unit
	Nguyen, Huy D	2617

✓	Rejected	-	Cancelled	N	Non-Elected	Α	Appeal
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Claims renumbered in the same order as presented by applicant							☐ CPA	□ т.	D. 🗆	R.1.47
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Search Notes										

Application/Control No	Applicant(s)/Patent under Reexamination	
11/163,372	SHAMOON ET AL.	
Examiner	Art Unit	
Huy D. Nguyen	2617	

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455	419	3/24/2007	HN
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SEARCH NOTES (INCLUDING SEARCH STRATEGY)							
	DATE	EXMR					
East (USPAT, US-PGPUB, JPO, EPO, DERWENT). See search history printout.	2/24/2006	HN					
East; Text search (USPAT, US-PGPUB, JPO, EPO, DERWENT). See search history printout.	8/29/2006	HN					
East; Text search (USPAT, US- PGPUB, JPO, EPO, DERWENT). See search history printout.	3/24/2007	HN					
See interference search printout.	3/24/2007	HN					
		5					

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS

Application Number:

11/163372

Confirmation Number:

4371

First Named Applicant:

Charles SHAMOON

Attorney Docket Number:

7192-06-05

Art Unit:

Examiner: Search string:

(4918439 or 4965557 or 5109222 or 5247580 or 5544036 or 5545857 or 5579496

or 5621662 or 5778256 or 5805530 or 5818428 or 5917105 or 5924486 or 6005490 or 6081750 or 6104334 or 6192282 or 6195589 or 6216956 or 6264559 or 6394359 or 6398727 or 6934862 or 20030034897 or 20030034898 or 20020149705).pn

US Patent Documents

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

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
ર	1	4918439	1990-04-17	Wozniak et al.			
4	2	4965557	1990-10-23	Schepers et al.			
4	3	5109222	1992-04-28	Welty			
7	4	5247580	1993-09-21	Kimura et al.			
ŧ	5	5544036	1996-08-06	Brown Jr. et al.			
3	6	5545857	1996-08-13	Lee et al.			
ર	7	5579496	1996-11-26	Van Steenbrugge			
Ę	8	5621662	1997-04-15	Humphries et al.			
2	9	5778256	1998-07-07	Darbee et al.			
₹	10	5805530	1998-09-08	Youngberg			-
(*)	11	5818428	1998-10-06	Eisenbrandt et			
Ì		5,917,405		al.			
₩)	12	5917105	1999-06-29	Joao			
ř٦	13	5924486	1999-07-20	Ehlers et al.			
₩	14	6005490	1999-12-21	Higashihara			
4	15	6081750	2000-06-27	Hoffberg et al.			
₩	16	6104334	2000-08-15	Allport			
ક	17	6192282	2001-02-20	Smith et al.			
4	18	6195589	2001-02-27	Ketcham			
B	19	6216956	2001-04-17	Ehlers et al.			

2122/02 686/02

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
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(571)-273-2885

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
11/163,372	10/17/2005		Charles G. SHAMOON		7	192-06-05	4371
			ROL SYSTEM FOR REM				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$0 1		\$1000	08/06/2007
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NGUYEN		2617	455-419000				
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Charles G. SHA	AMOON and Deb	orah H. SH AM OO	N Both of I	Little Elm, TEX	XAS, l	JSA	
Please check the appropr	iate assignee category o	r categories (will not be p	rinted on the patent) :	Individual 🗆 C	orporatio	n or other private grou	p entity Government
4a. The following fec(s) V Issue Fee Publication Fee (N Advance Order -	No small entity discount		b. Payment of Fcc(s): (Plead A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	rd. Form PTO-2038	8 is attac	hed.	·
5. Change in Entity Sta	•	•				•	
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Alexandria, virginia 222	113-1430.		on is required to obtain or 1.1.4. This collection is es y depending upon the individe Chief Information Office COMPLETED FORMS To spond to a collection of initial collection of the collection	retain a benefit by timated to take 12 vidual case. Any co cr. U.S. Patent and O THIS ADDRES:	the public minutes omments I Tradema S. SEND	c which is to file (and be to complete, including on the amount of time ark Office, U.S. Depar TO: Commissioner fo	

PTOL-85 (Rev. 07/06) Approved for use through 04/30/2007.

OMB 0651-0033

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

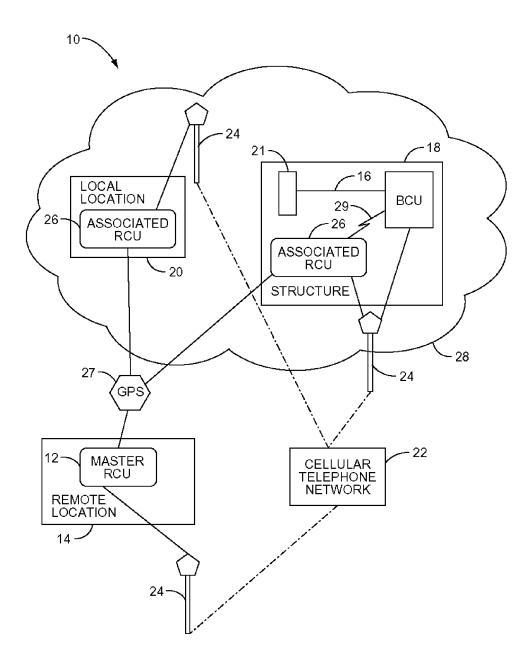


FIG. 1

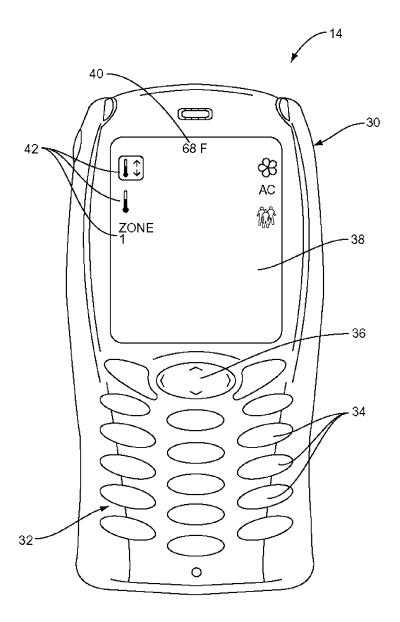


FIG. 2

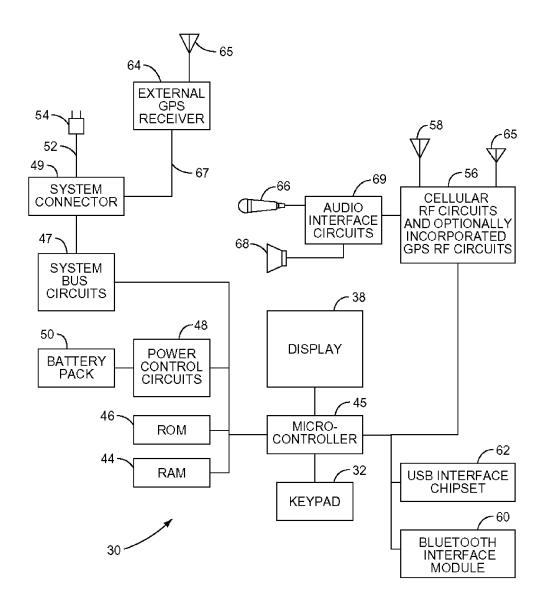


FIG. 3

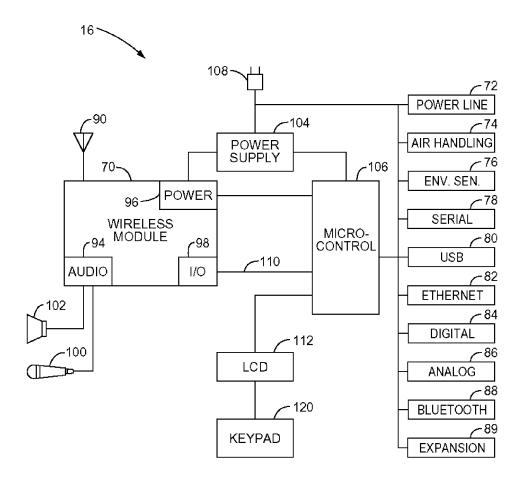


FIG. 4

Electronic Patent Application Fee Transmittal							
Application Number:	11163372						
Filing Date:	17	-Oct-2005					
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS				STEM FOR		
First Named Inventor/Applicant Name:	Charles G. SHAMOON						
Filer:	Ре	eter D. Sachtjen/St	efanie Hanse	n			
Attorney Docket Number:	7192-06-05						
Filed as Small Entity							
Utility Filing Fees							
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Basic Filing:							
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Claims:							
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Miscellaneous:						
	Total in USD (\$) 1000					

Electronic Acl	knowledgement Receipt
EFS ID:	1954495
Application Number:	11163372
International Application Number:	
Confirmation Number:	4371
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS
First Named Inventor/Applicant Name:	Charles G. SHAMOON
Customer Number:	23983
Filer:	Peter D. Sachtjen/Stefanie Hansen
Filer Authorized By:	Peter D. Sachtjen
Attorney Docket Number:	7192-06-05
Receipt Date:	10-JUL-2007
Filing Date:	17-OCT-2005
Time Stamp:	10:38:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$1000
RAM confirmation Number	6063
Deposit Account	500498

File Listing:

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

1	Issue Fee Payment (PTO-85B)	7192PartB.pdf	376408	no	1
'	issue ree rayment (r ro-65b)	7 1921 attb.pdi	415bf2039070fceb4ef307dc2550c9d86 5e6b2f4	ПО	'
Warnings:					
Information:					
2	Drawings	Fig01R.pdf	36956	no	1
2	Drawings	r igo ir i.pai	966b6edda8d7fd13c04963c024a9cdec 96c9e0bd	110	'
Warnings:					
Information:					
3	Drawings	Fig02R.pdf	35284	no	1
	5 Brawings Figoziti,pui		e60aabe2621512e7ec46ee7fb6f2dcf3b 9037315	110	•
Warnings:					
Information:					
4	Drawings	Fig03R.pdf	39585	no	1
		i igeer i.pai	60de1fb28c43f7dd0dd97b52dca6593b e7b467c1		·
Warnings:					
Information:					
5	Drawings	Fig04R.pdf	32099	no	1
-		1.90 1.110	1356e3e35c29a394f1c31d8a27702749 3f09c81a		·
Warnings:					
Information:					
6	Fee Worksheet (PTO-06)	fee-info.pdf	8321	no	2
	r de vvoirismeet (r 10-00)	iee-inio.pai	1354b37971e7b2650eb07efb31a6a141 316d0a28	no	
Warnings:					
Information:					
		Total Files Size (in bytes)	52	28653	
			1		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. ISSUE DATE PATENT NO. ATTORNEY DOCKET NO. CONFIRMATION NO. 11/163,372 08/14/2007 7257397 7192-06-05 4371

23983

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

07/25/2007

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 Customer Service Center of the Office of Patent Publication at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Charles G. SHAMOON, Little Elm, TX; Deborah H. SHAMOON, Little Elm, TX; Franklin Eugene NEAL, Ashland, KY; Michael D. FEHNEL, Fuquay-Varina, NC; REVOCATION/NEW POA/CORRES, ADD. CHANGE

REVOCATION OF POWER OF ATTORNEY

			WITH A NEW PO	WER OF ATTOR	NEY
		CHA	NGE OF CORRE		DDRESS
I hereby and/or a	rei	voke a licatio	all previous power n(s) identified he	s of attorney give rein.	en in the patent(s)
[X] I h 000040 Practiti	ere 040 ione	by app 1for er Unc	ler Customer Num	rs associated with i ication(s) identified iber: Abe Hershko	the Customer Number: I herein. Ovitz, Reg. No. 45,294 tent(s)/application(s)
identified	belo	ow to:	The correspondence	auuress for the pat	:ent(s)/application(s)
longer to			CORRESPON	DENCE ADDRESS	,
Name Address	mer		PEF: 000040401		dence address below
City	γ		Ct.		
Country	En	ail	State	Telephone	Zip Code
1	pa	tent@	hershkovitz.net	703-370-4800	<i>Facsimile</i>
			ITIFICATION OF PA		TION(S)
Application 11/686		nber	Filing Date 03/16/2007	Patent Number	Issue Date
				6,990,335	01/24/2006
		-		7,257,397	08/14/2007
				7,6 <u>43,823</u> 7,668,532	01/05/2010
		-		7,000,552	02/23/2010
				<u></u>	
-					

PAGE 4/5 * RCVD AT 6/24/2011 4:03:15 PM [Eastern Daylight Time] * SVR:W-PTOFAX-002/13 * DNIS:2738300 * CSID:7033704809 * DURATION (mm-ss):01-25

	REVOCATION/NEW POA/CORRES, ADD, CHANGE - Page
S	IGNATURE OF INVENTOR(S) OR ASSIGNEE(S)
I/We am/are the:	
[] Inventor(s)	
[X] Assignee(s) of application(s) iden	of entire and exclusive interest in and to the patent(s) and tified herein. See 37 CFR §3.71.
The documenta	ler 37 CFR §3.73(b): ary evidence of a chain of title from the original owner(s) to the a recorded/to be recorded in the Assignment records of the
[] is attached copy of Ass	d hereto (copy of recorded Assignment or other conveyance, or signment being submitted concurrently for recordation);
[X] was record	ded onJune 6, 2005 at Reel _016096 Frame see patent(s)/application(s) identified herein.
The individual(s) w	vhose signature(s) is/are supplied below is/are the and exclusive interest in the patent(s)/application(s)
Assignees of Entire and Exclusive Interest	
Signature of Assignee	
CHARLES SHAMOON	Charles There 6/24/2011
Signature of Assignee DEBORAH H. SHAMOON	Deboral H. Shancon 6-24-2011
Any additional patent(s)	/application(s), or additional signature(s) of Inventor(s), or additional

NUMBER OF PAGES ATTACHED:_____

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TO: _____

FROM:

HERSHKOVITZ & ASSOC.

FAX: 7033704809

TEL: 7033704800

COMMENT:

PAGE 1/5 * RCVD AT 6/24/2011 4:03:15 PM [Eastern Daylight Time] * SVR:W-PTOFAX-002/13 * DNIS:2738300 * CSID:7033704809 * DURATION (mm-ss):01-25



HERSHKOVITZ & ASSOCIATES, LLC

PATENT AGENCY

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

Fax					
To: U	S PTO	Fron	a: Abe l	Hershkovitz	:
Fax: 5	71-273-8300	Date	June	24, 2011	
Phone:		Page	s: 4		
Re: U.S	S. Patent No: 7,257	7,397; Docket No: P29	21566		
☑ Urgent	☑ For Review	☐ Please Comment	☐ Plca	asc Reply	☐ Picase Recycle
The docum & Associatindividual of disclosure, received the arrange for	ents accompanying this tes which is confidention on this copying, distribution of facsimile in error, put the retrieval of the original.	ial and/or privileged. The transmission sheet. If you ruse of the contents of the dease notify us by telepho and documents at no cost to	tain inform e information ou are not t us facsimile one at (703 o you.	ation from the on is intended to the intended recipition in 1970-4800 in	*********** patcnt firm of Hershkovitz d to be for the use of the ecipient, be aware that any is prohibited. If you have nmediately so that we can
Dcar Con	nmissioner:				

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P2921566.F01; AH/DN/pc





HERSHKOVITZ & ASSOCIATES, LLC

PATENT AGENCY

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

Applicant

Charles G. SHAMOON et al.

Group Art Unit : 2617

Patent No.

7,257,397

Examiner

: NGUYEN, HUY D

Issued

August 14, 2007

Confirmation No.: 4371

For

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE

LOCATIONS

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Dear Commissioner:

Transmitted herewith is a Revocation of Power of Attorney in the above-captioned application.

The fee has been calculated as shown below:

Claims After	No. of Claims	Present	Small E	Small Entity		ntity
Amendment	Previously Paid	Extra				-
			Rate	Fee	Rate	Fee
Total Claims:			x 26=	\$	x 52=	\$
Indep. Claims:			x 110=	\$	x220=	\$
				\$		\$
		Total:		\$	Total:	\$

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

Any patent application processing fees under 37 C.F.R. 1.17, including any required extension of time fees in any concurrent or future reply requiring a petition for extension of time for its timely submission (37 CFR 1 .136)(a)(3).

Respectfully submitted,

Date: June 24, 2011

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

P2921566.A01; AH/DN/pc



United States Patent and Trademark Office

United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS Post 150 Alexandria, Virginia 22313-1450 www.uspto.gov

FIRST NAMED APPLICANT ATTY. DOCKET NO./TITLE APPLICATION NUMBER FILING OR 371(C) DATE 11/163,372 10/17/2005 Charles G. SHAMOON 7192-06-05

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

CONFIRMATION NO. 4371 POA ACCEPTANCE LETTER



Date Mailed: 07/15/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

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

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

/fstephanos/

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



United States Patent and Trademark Office

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

 APPLICATION NUMBER
 FILING OR 371(C) DATE
 FIRST NAMED APPLICANT
 ATTY. DOCKET NO./ITILE

 11/163,372
 10/17/2005
 Charles G. SHAMOON
 7192-06-05

23983 Ishman Law Firm P.C. 9660 Falls of Neuse Road Suite 138-350 Raleigh, NC 27615 CONFIRMATION NO. 4371 POWER OF ATTORNEY NOTICE



Date Mailed: 07/15/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

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

• The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/fstephanos/

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

Doc Code: PET.POA.WDRW

Document Description: Petition to withdraw attorney or agent (\$883)

PYO/58/83 (04-13) Approved for use through 11/30/2014, OM8 0651-0085

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
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- 1			
e e		Application Number	11163372
	REQUEST FOR WITHDRAWAL	Filling Date	2005-10-17
	AS ATTORNEY OR AGENT AND	First Named Inventor	Charles G. Shamoom
	CHANGE OF	Art Unit	2617
	CORRESPONDENCE ADDRESS	Examiner Name	Huy D. Nguyen
ζ,		Practitioner Docket Number	P2921566

To: Commissioner for Patents						
P.O. Box 1450						
Alexandria, VA 22313-1450						
Please withdraw me as attorney or agent for the above-identified patent application, and						
all the practitioners of record;						
the practitioners (with registration numbers) of record listed on the attached paper(s); or						
the practitioners of record associated with Customer Number: 40401						
NOTE: The immediately preceding box should only be marked when the practitioners were appointed using the listed Customer Number.						
The reason(s) for this request are those described in 37 CFR:						
[] 11.116(a)(1) [] 11.116(a)(2) [] 11.126(a)(3)						
11.116(b)(1) 11.116(b)(2) 11.116(b)(3)						
11.116(b)(4)						
11. 116(b)(7) Please explain below:						
Certifications						
Check each box below that is factually correct. WARNING: If a box is left unchecked, the request will likely not be approved.						
I/We have given reasonable notice to the client, prior to the expiration of the response period, that the practitioner(s) intend to withdraw from employment.						
I/We have delivered to the client or a duly authorized representative of the client all papers and property (including funds) to which the client is entitled.						
3. // I/We have notified the client of any responses that may be due and the time frame within which the client must respond.						
Please provide an explanation, if necessary:						
Please provide an explanation, if necessary						
Please provide an explanation, if necessary						

(Page 1 of 2)

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very 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 1896, Alexandria, VA 22313-1450, DO NOT SEND PEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.G. 80x 1896, Alexandria, VA 22313-1450.

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

PTO/SB/88 (04-13)
Approved for use through 11/30/2014. OMB 0651-0635
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OM8 control number.

REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS Complete the following section only when the correspondence address will change, Changes of address will only be accepted to the first named inventor or an assignee that has properly made itself of record pursuant to 37 CFR 3.71. Change the correspondence address and direct all future correspondence to: The address of the first named inventor or assignee associated with Customer Number: OR 8. First Named Inventor or Assignee Name Address 2436 Tisbury Way City Little Elm State TX Zip 75068 Country US Email cshamoon@grandecom.net Telephone Signature Name Abraham Hershkovitz Registration No. 45,294 Address 2845 Duke Street Zip 22314 [□] Alexandria State VA Country US Date 2014-09-24 Telephone No. 2026386666 NOTE: Withdrawal is effective when approved rather than when received.

(Page 2 of 2)

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.31 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 very 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 FIELS OR COMPLETED PORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. 80x 1450, Alexandria, VA 22313-1450.

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

Electronic Ack	knowledgement Receipt		
EFS ID:	20232208		
Application Number:	11163372		
International Application Number:			
Confirmation Number:	4371		
Title of Invention:	UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE LOCATIONS		
First Named Inventor/Applicant Name:	Charles G. SHAMOON		
Customer Number:	40401		
Filer:	Abraham Hershkovitz/Dinh Nguyen		
Filer Authorized By:	Abraham Hershkovitz		
Attorney Docket Number:	P2921566		
Receipt Date:	25-SEP-2014		
Filing Date:	17-OCT-2005		
Time Stamp:	07:32:49		
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		p2921566_20140924081525.	181606	ves	3
'		pdf	2f9448bd38c4dbe3e8c4ef3221c47c617d67 3eed	′	

	Multipart Description/PDF files in .zip description					
	Document Description	Start	End			
	Transmittal Letter	1	1			
	Petition to withdraw attorney or agent (SB83)	2	3			
Warnings:						
Information:						
	Total Files Size (in bytes):	1	181606			

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



HERSHKOVITZ & ASSOCIATES, PLLC

PATENT AGENCY

2845 Duke Street, Alexandria, VA 22314 Tel. 703-370-4800 ~ Facsimile 703-370-4809 patent@hershkovitz.net ~ www.hershkovitz.net

Applicant: Charles E. Shamoon et al.

Examiner: Huy D. Nguyen

Appl. No.: 11/163,372

Group Art Unit: 2617

Appl. Filed: October 17, 2005

Confirmation No.: 4371

For:

UBIQUITOUS CONNECTIVITY AND CONTROL SYSTEM FOR REMOTE

LOCATIONS

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

Honorable Commissioner:

Transmitted herewith: REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS in connection with the above-captioned matter.

The fee has been calculated as shown below:

Claims After	No. of Claims Present		Small E	Small Entity		Entity
Amendment	Previously Paid	Extra				
			Rate	Fee	Rate	Fee
*Total Claims:	0	0	x 40=	\$	x 80=	\$
**Indep. Claims:	0	0	x210=	\$	x420=	\$
	al:	S	Total	\$		

Fee Payment made through EFS

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

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

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

Respectfully submitted.

Date: September 24, 2014

<u>Ape nersnkovitz</u> Abraham Hershkovitz

Registration No. 45,294

P2921566.A02; AH/DXN/dj

AQ 120 (Rev. 08/10)

TO:

Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

				. C. balan		
In Complianc			§ 1116 you are hereby advised that ern District of Texas	a court action has been on the following		
			tion involves 35 U.S.C. § 292.):			
DOCKET NO.	DATE FILED		STRICT COURT			
3:18-cv-02084-K	8/10/2018	. 0.3, D	Northern Distr	ict of Texas		
PLAINTIFF			DEFENDANT	·		
Ubiquitous Connectivity	LP		TXI Emergy Retail Compa	iny LLC		
PATENT OR	DATE OF PATENT		HOLDER OF PATENT	T OR TRADEMARK		
TRADEMARK NO.	OR TRADEMARK					
178		-See	Attached Complaint			
27257397			, <u> </u>	<u>. </u>		
2 7257 397 3 6990335			·			
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L	<u> </u>			· · · · · · · · · · · · · · · · · · ·		
	In the above—entitled case	e, the following	patent(s)/ trademark(s) have been	included:		
DATE INCLUDED	INCLUDED BY	-,		<u></u>		
		Amendment	☐ Answer ☐ Cross B	ill Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK		HOLDER OF PATENT	T OR TRADEMARK		
	OK TRADEMAKE					
1						
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5			 	· · - · · · · · · · · · · · · · · ·		
In the abov	e—entitled case, the follow	ving decision h	as been rendered or judgement issu	ed:		
DECISION/JUDGEMENT	<u> </u>	-		· · · · · · ·		
	· · ·					
CLERK		(BY) DEPUT		DATE		
Karen Mitchell		s/ Adam	Bourgeois	8/10/2018		

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy