

1) Family number: 43957096 (US2011111700A)

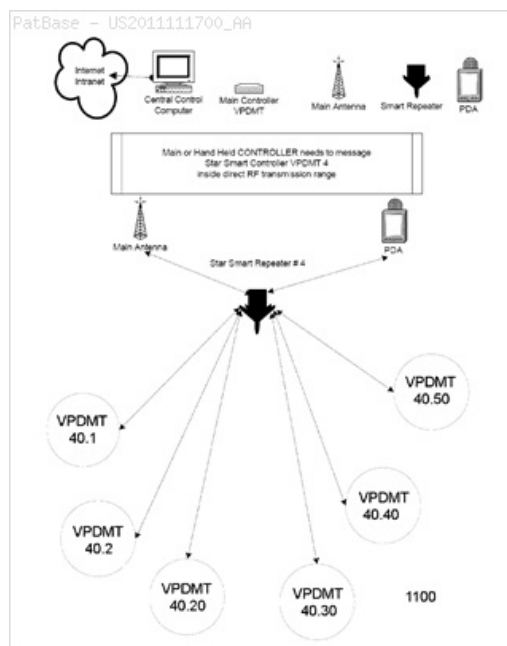
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Title: WIRELESS CONTROL SYSTEM USING VARIABLE POWER DUAL MODULATION TRANSCIEVERS

Abstract: A wireless control system that operates in Industrial, Scientific and Medical (ISM) frequency bands that employs one or more variable power dual modulation radio frequency transceiver-controllers that are capable of receiving and/or transmitting signals and communicating with each other over a configurable range, from short to long range. The wireless control system is suitable for use in a wide range of medical, industrial, agricultural, military and commercial applications, including, for example, the management of irrigation systems, manufacturing processes, security systems, sewage treatment and handling systems, hospital management systems, tracking systems, ground telemetry systems, environmental monitoring systems for agriculture, viticulture, pipelines and dams, HVAC management systems, water, gas and electrical metering, parking meters, asset and equipment tracking, traffic control, fire protection, public space management, intruder detection and biological research.

Classifications:

International (IPC 8-9): A01G25/16 G08C17/02 H04B5/02
H04B7/005 H04B7/15 H04W52/46 H04W84/18 (Advanced/Invention)
CPC: A01G25/16 H04W72/1289 H04W84/22
European: A01G25/16 H04W72/12F4 T04W84/22
US: 455/41.2 455/41.200P



Family:

Publication number	Publication date	Application number	Application date
CA2722931 AA	20091105	CA20092722931	20090429
US2011111700 AA	20110512	US20090990488	20090429
WO09132425 A1	20091105	WO2009CA00543	20090429

Priority:

US20080048834P 20080429 US20090990488 20090429 WO2009CA00543 20090429

Probable Assignee: HACKETT JAMIE

Assignee(s): (std): HACKETT JAMIE

Inventor(s): (std): HACKETT JAMIE

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 36081170 (US2009204265A)

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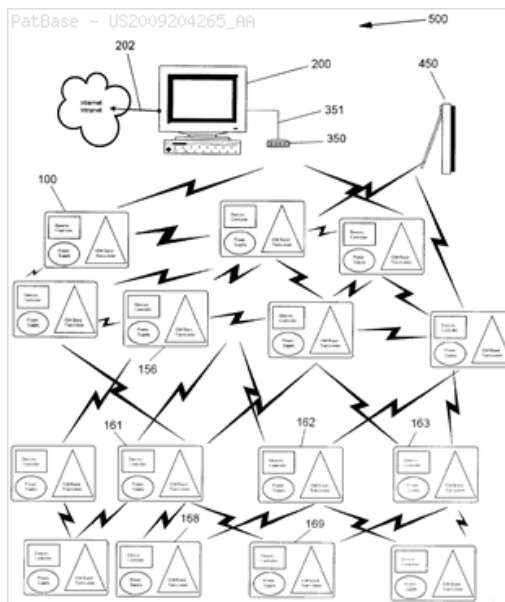
Title: LONG-RANGE RADIO FREQUENCY RECEIVER-CONTROLLER MODULE AND WIRELESS CONTROL SYSTEM COMPRISING SAME

Abstract: A long-range radio frequency (RF) transceiver-controller module configured to transmit and receive RF signals in one or more of the 433, 868, 915 MHz, and 2.4 and 5.8 GHz Industrial, Scientific and Medical (ISM) frequency bands is provided that is capable of consistently transmitting such signals over a range of 100 metres or more without line of sight, including underground. A wireless control system that comprises a plurality of the long-range RF transceiver-controller modules arranged in a distributed, ad hoc networking topography is also provided. The wireless control system has utility in a wide range of medical, industrial, agricultural, military and commercial applications, including, for example, the management of irrigation systems, manufacturing processes, security systems, sewage treatment and handling systems, hospital management systems.

Classifications:

International (IPC 8-9): G05D11/00 G05D7/06 G08C15/04
G08C17/02 H04B1/38 H04B7/00 H04B7/14

H04W84/02 (Advanced/Invention);
G05D7/06 G08C15/00 G08C17/00 H04B7/14
H04W84/02 (Core/Invention)
CPC: G05B19/4185 G05B2219/23316 G05B2219/25289
G05B2219/31162 H04W88/02 H04L67/12 Y04S40/18
European: G05B19/418N S05B219/31162 T04W88/02
US: 370/315 370/315S 370/328 370/328S 455/41.2 455/73 700/282
700/283 700/284 700/284P



Family:

Publication number	Publication date	Application number	Application date
CA2643254 AA	20080912	CA20072643254	20070314
CA2643254 C	20140211	CA20072643254	20070314
US2009204265 AA	20090813	US20070282866	20070314
US8457798 BB	20130604	US20070282866	20070314
WO07104152 A2	20070920	WO2007CA00405	20070314
WO07104152 A3	20071101	WO2007CA00405	20070314

Priority:

US20060781740P 20060314 US20070282866 20070314 WO2007CA00405 20070314

Probable Assignee: JAMIE HACKETT

Assignee(s): (std): BRIGHAM STANLEY ; HACKETT JAMIE

Assignee(s): JAMIE HACKETT

Inventor(s): (std): HACKETT JAMIE ; BRIGHAM STANLEY

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP; KNOBBE MARTENS OLSON AND BEAR LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 74702271 (US2019187086A)

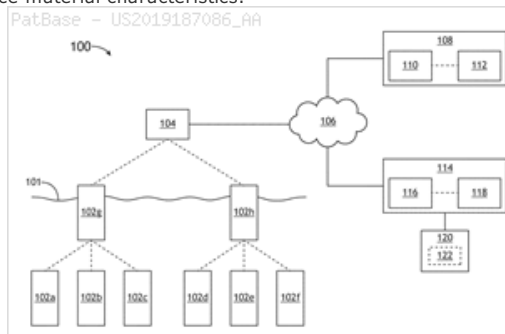
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Title: SYSTEM AND METHOD FOR UNDERGROUND WIRELESS SENSOR COMMUNICATION

Abstract: A system for collecting data associated with one or more sub-surface characteristics of a material is provided. The system may include a plurality of sensor nodes configured to collect data regarding the one or more sub-surface material characteristics and transmit the collected data to a data gateway. The data gateway may be configured to receive the collected data from the plurality of sensor nodes and store the collected data in memory. The system may also include a controller configured to receive the collected data from the data gateway via a network. The controller may be further configured to display data associated with the one or more sub-surface material characteristics.

Classifications:

International (IPC 8-9): G01D21/02 G01N27/00 G01N27/22
G01N27/26 G05B23/02 H04L29/08 H04W84/20 (Advanced/Invention)
CPC: G01N27/223 H04W84/20 G01D21/02 H04L67/12



Family:

Publication number	Publication date	Application number	Application date
US2019187086 AA	20190620	US20180215261	20181210
WO19113590 A1	20190613	WO2018US64772	20181210

Priority:

US20170596444P 20171208 US20180215261 20181210

Probable Assignee: REALMFIVE INC

Assignee(s): (std): REALMFIVE INC

Inventor(s): (std): BURKEY BRANT ; TIPPERY STEVE R ; ADKINS TIM ; PFRENGER JOCHEN ; PICKERILL DAN
Agent(s): POULSEN MATTHEW A
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

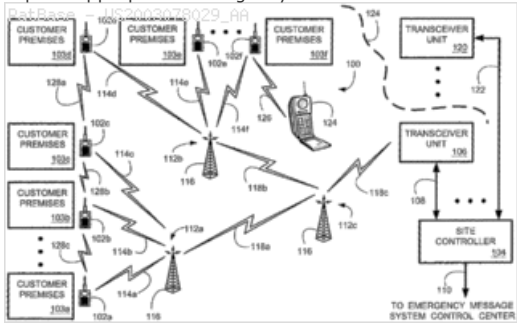
4) Family number: 28627327 (US2003078029A) © PatBase

Title: SYSTEM AND METHOD FOR TRANSMITTING AN EMERGENCY MESSAGE OVER AN INTEGRATED WIRELESS NETWORK

Abstract: An emergency message system provides a system and method for generating and transmitting emergency messages. In one embodiment, the emergency message system employs a transceiver network with a plurality transceivers coupled to monitoring devices residing at a plurality of customer premises. Control room operators receive an emergency message from an identifiable transceiver. The transceiver, identified by an identification code, indicates a location and the nature of the emergency condition so that the control operators may request appropriate emergency assistance.

Classifications:

International (ipc 8-9): G01S19/17 H04L12/58 H04L12/707
H04M11/04 H04M11/14 H04M3/00 H04M9/00 H04W28/04 H04W4/02
H04W4/12 H04W4/22 H04W4/90 (Advanced/Invention);
H04M11/04 H04W4/12 H04W64/00 H04W76/00
H04W76/50 (Advanced/Non-invention);
H04M11/04 H04M3/00 (Core/Invention)
International (ipc 1-7): H04M11/00 H04M11/04
CPC: G01S19/17 H04M2242/30 H04W64/00 H04W4/12 H04M11/04
H04W28/04 H04L45/22 H04L51/32 H04W76/50 H04W4/22 H04W4/90
H04W4/029
European: G01S19/17 T04M11/04 T04M242/30 T04W4/12
T04W4/22 T04W64/00 T04W76/00E
US: 1/1 340/546 340/902 379/39 379/45 455/404 455/404.1
455/404.100P 455/404.2 455/418 455/456.1 455/521 455/550.1



Family:

Publication number	Publication date	Application number	Application date
US2003078029 AA	20030424	US20010000477	20011024
US2009215424 AA	20090827	US20090356358	20090120
US2011212700 AA	20110901	US20110102849	20110506
US2013303109 AA	20131114	US20130943598	20130716
US2014179257 AA	20140626	US20140195803	20140303
US2015140952 AA	20150521	US20150606403	20150127
US2016192160 AA	20160630	US20160063970	20160308
US2017094491 AA	20170330	US20160377383	20161213
US2019098480 AA	20190328	US20180205375	20181130
US7480501 BB	20090120	US20010000477	20011024
US8489063 BB	20130716	US20110102849	20110506
US8666357 BB	20140304	US20090356358	20090120
US8942666 BB	20150127	US20130943598	20130716
US9282029 BB	20160308	US20140195803	20140303
US9521533 BB	20161213	US20150606403	20150127
US9615226 BB	20170404	US20160063970	20160308
US10149129 BB	20181204	US20160377383	20161213

Priority:

US20010000477 20011024 US20090356358 20090120 US20110102849 20110506
US20130943598 20130716 US20140195803 20140303 US20150606403 20150127
US20160063970 20160308 US20160377383 20161213 US20180205375 20181130

Probable Assignee: SIPCO LLC

Assignee(s): (std): PETITE THOMAS DAVID ; SIPCO LLC ; STAT SIGNAL IPC LLC ; STAT SIGNAL SYSTEMS INC

Assignee(s): LEE OLIVER ; PETITE CANDIDA ; PETITE DAVID

Inventor(s): (std): PETITE THOMAS D ; PETITE THOMAS DAVID

Agent(s): TROUTMAN SANDERS LLP, BANK OF AMERICA PLAZA; TROUTMAN SANDERS LLP BANK OF AMERICA PLAZA; TROUTMAN SANDERS LLP; KOWALEWSKI ESQ FILIP A; YANCEY JR ESQ JAMES HUNT; JAMES HUNT; FILIP A; DUSTIN B; JAMES E; RYAN A; SCHUTZ JAMES E; WEEKS DUSTIN B

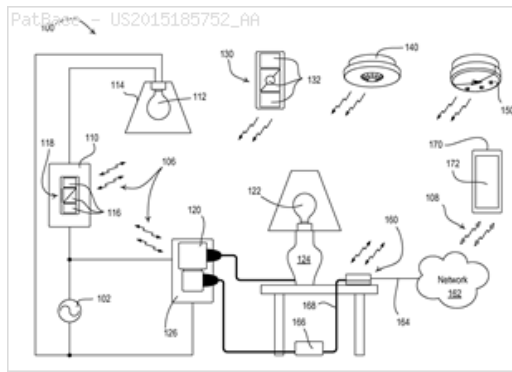
5) Family number: 59628424 (US2015185752A) © PatBase

Title: WIRELESS LOAD CONTROL SYSTEM

Abstract: A wireless load control system for controlling one or more electrical loads comprises a wireless control device (e.g., a gateway device) able to obtain a present time from a server via a network (e.g., the Internet), control the electrical loads according to a timeclock schedule, and disable the timeclock schedule if the present time is not able to be obtained from the server via the network. The wireless control device may also be able to obtain the present time from a digital message received from an external device (e.g., a smart phone or a tablet device) via the network. The wireless control device may be configured to receive a control signal indicating a power outage (e.g., from a battery backup device), and to operate in a low-power mode in response to receiving the control signal indicating the power outage.

Classifications:

International (ipc 8-9): G05B15/02 G05F1/66
H04W4/00 (Advanced/Invention)
CPC: G05F1/66 G05B15/02 G05B2219/2642 H04W4/70
US: 1/1 700/295 700/296 700/298



Family:

Publication number	Publication date	Application number	Application date
US2015185752 AA	20150702	US20140578602	20141222
US2018120885 AA	20180503	US20170852152	20171222
US9851735 BB	20171226	US20140578602	20141222

Priority:

US20140923055P 20140102 US20140578602 20141222 US20170852152 20171222

Probable Assignee: LUTRON ELECTRONICS CO

Assignee(s): (std): LUTRON ELECTRONICS CO

Assignee(s): LUTRON ELECTRONICS CO INC ; LUTRON TECHNOLOGY CO LLC

Inventor(s): (std): RIEDL CHRISTOPHER M ; BARD BENJAMIN F ; DOLAN DAVID J ; MANN TIMOTHY

Agent(s): GLEN; AMY

6) Family number: 42978513 (US2009062970A)

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Title: SYSTEM AND METHOD FOR ACTIVE POWER LOAD MANAGEMENT

Abstract: A system for managing consumption of power supplied by an electric utility to power consuming devices includes at least one client device and a server. Each client device operates at least partially responsive to control messages received from the server and controls operation of one or more controllable devices. Each controllable device selectively enables and disables a flow of power to one or more of the consuming devices. The server stores information, on a per client device basis, relating to power consumed by the consuming devices. When a power reduction is requested by the utility, the server selects, based on client device information stored in the database, at least one client device to which to issue a power reduction message that indicates at least one of an amount of power to be reduced and an identification of a controllable device to be instructed to disable a flow of power.

Classifications:

International (IPC 8-9): B23K11/24 B64D11/00 G01D4/00 G01R11/56 G01R21/00 G01R22/06 G01R31/00 G05B11/01 G05B13/02 G05B13/04 G05B15/02 G05B17/02 G05B23/02 G05B24/02 G05D11/00 G05D17/00 G05D3/12 G05D42707 G05D5/00 G05D7/00 G05D9/00 G05F1/66 G06F1/00 G06F1/26 G06F1/28 G06F1/32 G06F11/30 G06F15/16 G06F15/173 G06F19/00 G06Q G06Q10/00 G06Q10/06 G06Q10/10 G06Q30/00 G06Q30/02 G06Q50/00 G06Q50/06 G06Q50/26 G08C15/06 G08C19/00 H02J1/00 H02J13/00 H02J15/00 H02J3/00 H02J3/12 H02J3/14 H02J3/28 H02J3/32 H02J3/36 H02J4/00 H02J7/34 H02J9/00 H02J9/04 H02J9/06 H04B3/54 H04L12/10 H04L12/12 H04L12/14 H04L12/16 H04L12/28 H04L12/58 H04L12/66 H04L12/86 H04L12/863 H04L12/931 H04L29/08 H04L29/10 H04M1/24 H04M1/00 H04Q9/00 (Advanced/Invention); G01D4/00 G01R21/00 G01R21/06 G01R23/165 G05B11/01 G05D11/00 G05D17/00 G05D23/19 G05D3/12 G05D5/00 G05D9/00 G05F1/00 G05F3/00 G05F3/02 G05F5/00 G06Q10/00 G06Q30/00 G06Q50/00 G08B23/00 G08C15/06 H02J3/00 (Advanced/Non-invention); G05D7/00 G06F1/26 G06F1/28 G06F1/32 G06F15/16 G06Q10/00 G06Q30/00 G06Q50/00 H02J13/00 (Core/Invention); G05D23/19 (Core/Non-invention)

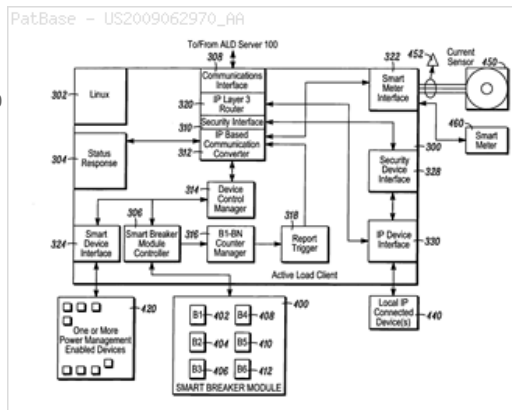
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Family:



Publication number	Publication date	Application number	Application date
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US20170618981	20170609	US20170705918	20170915	US20180898701	20180219
US20180170706	20181025				

Probable Assignee: CAUSAM ENERGY INC

Assignee(s): (std): FORBES JR JOSEPH W ; FORBES JOSEPH W JR ; CONCERT INC ; FORBES JOSEPH W ; LONG JOHN O F ; AMERICA CONNECT INC ; CAUSAM ENERGY INC ; CLEARTRICITY INC ; LANDIS GYR INNOVATIONS INC ; WEBB JOEL L ; MOORE ROY ; SHAW DAVID ; LANDIS AND GYR INNOVATIONS INC

Assignee(s): LANDIS AND GYR TECHNOLOGY INC ; COMERICA BANK ; BCIP VENTURES LLC ; JOSEPH W FORBES JR ; CONCERT IC ; LONG JOHN OF

Inventor(s): (std): FORBES JOSEPH W JR ; MOORE ROY ; SHAW DAVID ; FORBES JR JOSEPH W ; LONG JOHN O F ; FORBES JOSEPH W ; JOSEPH W FORBES JR ; JOEL L WEBB ; WEBB JOEL L

Inventor(s): FORBES JOSEPH ; WEBB JOEL ; FORBES JR ; FORBES JR JOSEPH ; LONG JOHN ; LONG JOHN OF ; JOHN O F LONG ; JOHN OF LONG

Agent(s): SPRUSON AND FERGUSON; GRIFFITH HACK; FINLAYSON AND SINGLEHURST; EQUINOX; SIM AND MCBURNEY; MCLEISH NICHOLAS ALISTAIR MAXWELL; HOFSTETTER ALFONS J; BOULT WADE TENNANT; BOULT WADE TENNANT LLP; GARY ROBINSON P A; WOMBLE CARLYLE SANDRIDGE AND RICE PLLC; GRAY ROBINSON PA; DANIEL C; GRAYROBINSON PA; WOMBLE CARLYLE SANDRIDGE AND RICE LLP; GRAY ROBINSON P A; TRIANGLE PATENTS PLLC; NEO IP; KILPATRICK TOWNSEND AND STOCKTON LLP; CRILLY DANIEL C; TIMAR JOHN J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

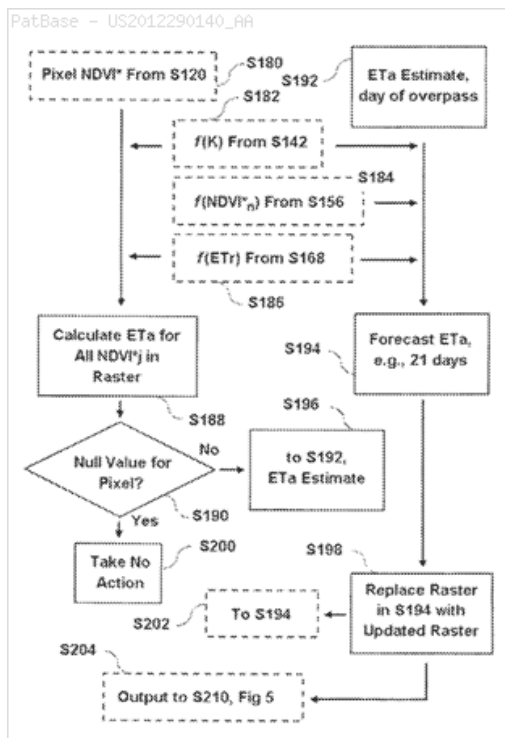
Abstract: A system and method to use remote sensing to estimate crop water use that is forecasted and is updated as weather and new satellite data become available. From these data the system and method uses a water accounting algorithm to prescribe irrigation differentially for regions of a field or for the entire field as an average. Irrigation prescription is delivered remotely through Internet technology.

Classifications:

International (IPC 8-9): A01B79/00 A01C21/00 A01C7/00 A01G1/00 A01G22/00 A01G25/16 A01G7/00 A01M17/00 G01C21/00 G05D1/02 G05D11/00 G05D7/00 G06Q10/06 G06Q50/02 G06T7/00 G06T7/70 (Advanced/Invention)

CPC: A01M17/008 G01C21/00 G06T2207/30176 G06Q10/06315 G06Q50/02 G05D1/0274 G05D2201/0201 G06T7/70 A01G25/16 Y02A40/24 A01M17/00 G06T5/001 G06T7/0004 G06T2207/10016 G06T2207/10036 G06T2207/20182 G06T2207/30188 A01G22/00 A01C21/007 A01C21/00 A01B79/005 G06Q10/06313

US: 1/1 111/200 43/124 47/58.1SC 700/284 701/410 701/533 705/7.23 705/7.25



Family:

Publication number	Publication date	Application number	Application date
US2012290140 AA	20121115	US20120455971	20120425
US2013104455 AA	20130502	US20120455987	20120425
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Priority:

US20110486193P 20110513	US20110490499P 20110526	US20120455971 20120425
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Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP ; GROENEVELD DAVID P ; HYDROBIO INC

Inventor(s): (std): GROENEVELD DAVID P

Agent(s): BRYAN CAVE LLP; HICKMAN PALERMO BECKER BINGHAM LLP

8) Family number: 54591878 (US2013226485A)

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Title: MULTI-FUNCTION ELECTRIC METER ADAPTER AND METHOD FOR USE

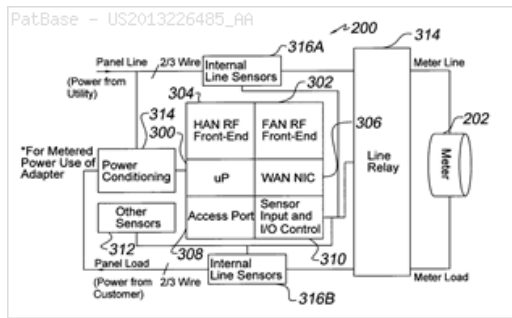
Abstract: An adapter, and a method of using the adapter, for an electric meter, which includes a set of connections for interfacing to a panel box, a set of connectors for interfacing to the electric meter; and circuitry for intercepting FAN or HAN traffic, injecting FAN or HAN traffic and communicating intercepted traffic and local information from the electric meter and sensors over a network to a management entity that collects and process the data. Data from environmental, electric quality, and usage sensors are supplied to the network. External commands, originating in a management entity or with a customer are provided from the network. A computer readable non-transitory storage medium stores instructions of a computer program, which when executed by a computer system results in performance of steps of a method for intercepting FAN or HAN traffic, injecting FAN or HAN traffic, transmitting intercepted FAN or HAN traffic or utility usage data to a network, by using a utility usage sensor to acquire data representing utility usage; and using electrical circuitry in the adapter for communicating information from the sensor over a network to a management entity that collects and process the data.

Classifications:

International (IPC 8-9): G01R1/20 G01R21/00 G01R22/00 G01R22/06 G01R22/10 G05B11/01 G06F19/00 G06Q20/00 G06Q50/06 H02J13/00 H04L12/24 H04L12/26 H04L12/66 H04L12/70 H04L29/06 H04L29/08 H04Q9/00 H04W12/08 (Advanced/Invention)

CPC: H04L63/1408 G01R22/063 H04L43/12 H04L63/1416 H04W12/08 H04L41/14 H04L43/06 H04L41/12 H04L43/028 Y04S40/168 H04L63/0254 H04L63/0227 H04L63/0272 H04W12/12 H04L41/22 Y04S40/164 H04L67/12 G01R21/00 G01R1/20

US: 1/1 324/126 370/254 702/62 726/13 726/23

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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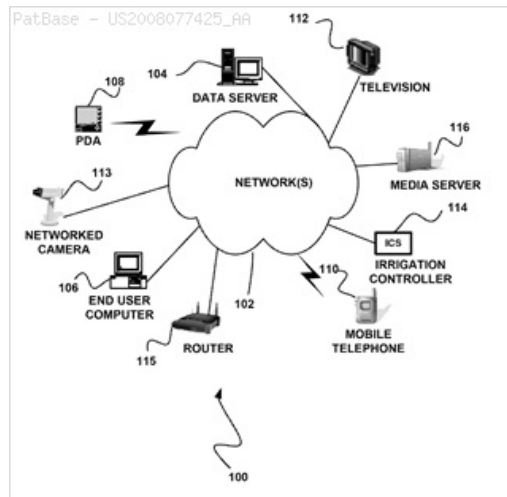
Probable Assignee: VENCORE LABS INC**Assignee(s):** (std): TT GOVERNMENT SOLUTIONS INC ; VENCORE LABS INC**Assignee(s):** VENCORE INC ; VENCORE LABS INC F K A TT GOVERNMENT SOLUTIONS INC ; VENCORE SERVICES AND SOLUTIONS INC F K A QINETIQ NORTH AMERICA INC ; WESTAR DISPLAY TECHNOLOGIES INC ; UBS STAMFORD BRANCH ADMINISTRATIVE AGENT AG AS ; ANALEX CORP ; PERSPECTA LABS INC**Inventor(s):** (std): PIETROWICZ STANLEY ; YOUZWAK JASON ; HALUSKA JOHN ; BROMBERGER SETH ; DIXON JAMES L**Agent(s):** CROVINI GIORGIO ; IMASHITA KATSUHIRO ; OKADA KENJI ; HESLIN ROTHENBERG FARLEY AND MESITI PC ; GREELEY PAUL D ; PEARLMAN RACHEL L**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**9) Family number: 41632905** (US2008077425A)

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Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR IDENTIFYING, CONFIGURING AND ACCESSING A DEVICE ON A NETWORK**Abstract:** A system, method, and computer program product are provided for identifying, configuring, and accessing a device connected to a network. In operation, a device connected to a network is automatically identified. Additionally, the device is automatically configured. Strictly as an option, the device may be accessed on the network.**Classifications:**

International (IPC 8-9): G06F15/16 G06F15/173 G06F15/177
G06F17/30 G06F21/00 G06F9/445 G06F9/448 G06Q10/10
G06Q30/00 H04L12/24 H04L12/803 H04L12/911 H04L29/06
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H01L29/12 H04L12/803 H04L29/06 H04L29/12 (Advanced/Non-invention);
G06F15/16 G06F21/00 G06Q30/00 (Core/Invention)
CPC: H04L41/0253 H04L41/082 H04L41/0879 H04L41/0886
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European: G06Q10/103 H04L12/24A7 H04L12/24E6C
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726/4 726/4S



Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: WEAVED INC

Assignee(s): (std): JOHNSON MICHAEL W ; KOYAMA RYO ; WEAVED INC ; YOICS ; YOICS INC

Assignee(s): REMOT3IT INC

Inventor(s): (std): KOYAMA RYO ; JOHNSON MICHAEL W ; JOHNSON MICHAEL ; SMITH MICHAEL JOHN SEBASTIAN ; SEBASTIAN MICHAEL JOHN ; SMITH MICHAEL J S

Inventor(s): SMITH MICHAEL JS

Agent(s): ZILKA KOTAB PC; PATRICK E; CALDWELL FIRM LLC; ZILKA KEVIN J; ROSSI JAMIE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 56033950 (US2014084165A)

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Title: SELECTABLE LENS BUTTON FOR A HAZARD DETECTOR AND METHOD THEREFOR

Abstract: According to one embodiment, a hazard detector includes a front casing coupled with a back plate to define a housing having an interior region. The hazard detector also includes a passive infrared sensor device that is disposed within the interior region and that is positioned to face a room within which the hazard detector is positioned so as to detect objects within the room. The hazard detector additionally includes a Fresnel lensing component that is disposed on an exterior of the front casing and that is positioned in front of the passive infrared sensor device to direct infrared radiation onto the passive infrared sensor device. The Fresnel lensing component is configured to be inwardly pushable by a user to cause contact with a switch positioned therebehind so that input is provided to the hazard detector by the user.

Classifications:

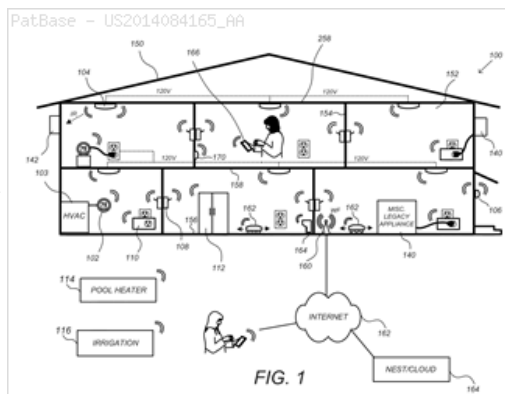
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Family:

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Probable Assignee: GOOGLE INC

Assignee(s): (std): GOOGLE INC ; GOOGLE LLC ; NEST LABS INC

Assignee(s): VERON MAXINE ; MATSUOKA YOKY ; ROGERS MATTHEW L ; SLOO DAVID ; MITTLEMAN ADAM ; SCHMIDT MATHIAS ; KORTZ SAMUEL W ; ROGERS MATTHEW LEE ; SMITH IAN C ; MULLINS SCOTT ; WARREN DANIEL ADAM ; LEE JEFFREY ; HONJO SHIGEFUMI ; GUENETTE ISABEL I ; FILSON JOHN BENJAMIN ; GOLDENSON ANDREW ; FADELL ANTHONY MICHAEL ; GOOGLE ; BOULD FRED ; CONNER BRIAN JONATHAN ; DONG WILLIAM ; FADELL ANTHONY M

Inventor(s): (std): ADAM MITTLEMAN ; ANDREW GOLDENSON ; BOULD FRED ; CONNER BRIAN JONATHAN ; ANTHONY MICHAEL FADELL ; ANTHONY M FADELL ; FADELL TONY ; FILSON BEN ; DONG WILLIAM ; FADELL ANTHONY M ; FILSON JOHN BENJAMIN ; FADELL ANTHONY MICHAEL ; FILSON JOHN B ; DAVID SLOO ; GOLDENSON ANDREW ; KORTZ SAM ; MATSUOKA YOKY ; GUENETTE ISABEL I ; HONJO SHIGEFUMI ; KORTZ SAMUEL W ; LEE JEFFREY ; MALHOTRA MARK RAJAN ; GUENETTE ISABEL ; LEE JEFFREY THEODORE ; LEE JEFFERY THEODORE ; MATHIAS SCHMIDT ; JOHN BENJAMIN FILSON ; MATTHEW L ROGERS ; MAXINE VERON ; ISABEL I GUENETTE ; MITTLEMAN ADAM ; SCHMIDT MATHIAS ; ROGERS MATT ; VERON MAXINE ; SLOO DAVID ; ROGERS MATTHEW L ; ROGERS MATTHEW LEE ; MITTLEMAN ADAM D ; VERON MAXINE ; SHIGEFUMI HONJO ; SMITH IAN C ; WARREN DANIEL ADAM ; MULLINS SCOTT ; PLITKINS MICHAEL ; MCGARAGHAN SCOTT A ; YOKY MATSUOKA

Agent(s): PIZZEYS ; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD ; GOWLING LAFLEUR HENDERSON LLP ; GOWLING WLG CANADA LLP ; SMART AND BIGGAR ; BOULT WADE TENNANT ; FUKAMI PATENT OFFICE PC ; KILPATRICK TOWNSEND AND STOCKTON LLP ; VAN COURT AND ALDRIDGE LLP ; ANNIS DAVID C ET AL ; WEIGHT CLARK ET AL ; WEIGHT CLARK F ET AL ; VAN COURT ANDREW ET AL ; ALDRIDGE JEFFREY C ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 44664985 (US2010076613A)

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Title: SYSTEM, METHOD, AND MODULE CAPABLE OF CURTAILING ENERGY PRODUCTION WITHIN CONGESTIVE GRID OPERATING ENVIRONMENTS

Abstract: A system, method, and module capable of curtailing energy production within congestive grid operating environments, according to are an aspect, including a method of managing power generation of a power generation site operable to be coupled to a transmission line is disclosed. The method can also include detecting a transmission line operating characteristic, and detecting a curtailment action data of the transmission line operating characteristic. Additionally, the method can include determining a forecasted curtailment probability level as a function of the transmission line operating characteristic and the curtailment action data.

Classifications:

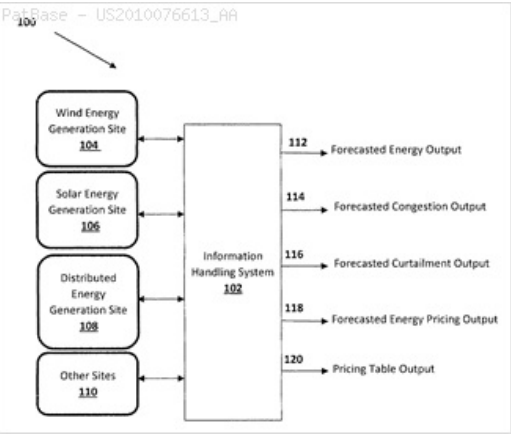
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H04W8/00 (Core/Invention)

CPC: A45C5/02 A45C5/14 G06Q30/0621 G06Q30/0643 A61B5/055
A61B6/037 A61B6/4417 A61B6/465 A61B6/468 A61B6/5205
A61B6/5294 A61B6/545 G01R33/481 G01R33/543 A61B2562/06
A61B2576/00 H04L41/0813 H04L43/08 G06F3/0484 G05D23/1923
G05D23/00 A61B6/508 F24F11/086 G05D23/1904 G06Q50/06
H04L67/10 H04L47/70 H04W84/10 H04L12/2803 G05D23/1917
H04L12/2818 H04L12/2825 G05D23/1905 A61B5/0035 Y02B90/2669
Y04S40/128 Y02B70/325 Y04S20/228 G05B19/02 H02J3/382
H02J3/383 H02J3/386 H02J3/387 H04L67/42 H04L67/141
H04L12/2816 H04L63/105 G05B15/02 G05B2219/2642 H02J3/14
H02J13/001 H02J13/0079 H02J2003/143 Y02B70/3225 Y02B70/3241
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Y04S20/244 G05F1/66 G06F1/26 F24F11/67 F24F11/70 F24F11/75
F24F11/79 F24F11/88 Y02B70/30 F24F2140/60 F24F11/52 F24F11/56
F24F11/63 F24F2110/00 F24F2110/10 F24F2130/00 H04W4/80 Y02D70/00 F24F11/0015 F24F11/30 F24F11/46 F24F11/58
F24F11/62 F24F2130/10 G05D23/1919 G06F3/0481 H04L41/0253 H04L12/2827 H04L2012/2849 H04L2012/285 Y02P80/11
G06F16/435 G06F16/95 G06F17/30029 G06F17/30861 F24F11/006 F24F11/0086 F24F11/0012 F24F2011/0058 F24F2011/0073
F24F2011/0075 F24F11/61

European: A45C5/02 A45C5/14 F24F11/00R5 F24F11/00R9 G05B15/02 G05D23/19B2 G05D23/19E6 G06Q30/0621
G06Q30/0643 G06Q50/06 H02J13/00F2 H02J13/00F4D H02J3/14 R24F11/00R3A R24F11/00R3B R24F11/00R3V
R24F11/00R5F2 R24F11/00R5K R24F11/00R5M R24F11/00R9 S05B219/2642 T02J13/00F2 T02J3/14H Y04S10/54 Y04S10/60
Y04S50/10

US: 1/1 12/146R 190/18.00AS 190/18A 190/18R 206/223 236/51 236/91E 236/91F 340/3.1 340/539.11 340/539.23
340/545.1 340/573.1 340/602 340/686.6 340/870.02 340/870.020S 370/338 370/338P 375/259 375/259P 455/404.2 455/408
455/41.2 455/418 455/419 455/420 455/423 455/457 455/457P 455/567 600/411 62/126 700/13 700/19 700/275 700/276
700/276P 700/276S 700/277 700/277P 700/278 700/278P 700/282 700/284 700/286 700/286P 700/287 700/287P 700/291
700/291S 700/295 700/295P 700/296 700/296S 700/297 700/299 700/300 700/300P 700/302 700/65 700/67 700/728 700/83
700/90 701/204 701/207 701/213 701/409 701/409P 703/18 705/1 705/26 705/26.5 705/26.500P 705/27.2 705/27.200S
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709/220S 709/221 709/223 709/224 709/224P 709/224S 709/226 709/227 709/230 709/230S 709/249 709/250 710/304
713/320 713/320S 715/733 715/735 715/735P 715/736 715/781 715/781S 715/784 715/784S 715/800 715/800S 715/810
715/810S 715/835 715/835S



Family:

Publication number	Publication date	Application number	Application date
AU2010276364 AA	20110127	AU20100276364	20100720
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AU2016247175 AA	20161110	AU20160247175	20161021
AU2016247175 BB	20180927	AU20160247175	20161021
BR112012001369 A2	20180807	BR20121101369	20100720
CA2768799 AA	20120120	CA20102768799	20100720
CA2847360 AA	20140228	CA20122847360	20120830
CL2012000146 A1	20121207	CL20120000146	20120118
CL54668 B	20170821	CL20120000146	20120118
CL54668 B	20170823	CL20120000146	20120118
CN102498448 A	20120613	CN201080041666	20100720
CN102498448 B	20150429	CN201080041666	20100720
EP2457132 A1	20120530	EP20100757650	20100720
EP2457132 B1	20190626	EP20100757650	20100720
EP2751955 A1	20140709	EP20120772560	20120830
IN01463CN2012 A	20121026	IN2012CN01463	20120216
JP2012533727 T2	20121227	JP20120521731T	20100720
JP2015173493 A2	20151001	JP20150101726	20150519
JP5752120 B2	20150722	JP20120521731T	20100720
JP6268122 B2	20180124	JP20150101726	20150519
KR101768186 B1	20170905	KR20127004237	20100720
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MX2012000906 A1	20120907	MX20120000906	20100720
MX2014002374 A1	20150408	MX20140002374	20120830
MX342087 B	20160913	MX20130008502	20100720
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US2016258647 AA	20160908	US20160142470	20160429
US2016342169 AA	20161124	US20160225943	20160802
US2017185120 A9	20170629	US20130965774	20130813
US2017344044 AA	20171130	US20170680906	20170818
US2018129357 A9	20180510	US20130959341	20130805
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US10310532 BB	20190604	US20140323029	20140703
WO11011404 A1	20110127	WO2010US42589	20100720
WO13033469 A1	20130307	WO2012US53243	20120830
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Priority:

US20080099995P 20080925
US20090235798P 20090821

US20090226899P 20090720
US20090567394 20090925

US20090227860P 20090723
US20090255678P 20091026

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Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): ADDISON JAROD ; ALLURE ENERGY INC ; BINGHAM ANTHONY P ; BRIDGE WILLIAM J ; COTTELL JOHN ; HOLLISTER JAMES ; COTTRELL JOHN FREDERICK ; IMES KEVIN ; GANIN ALEXANDER ; HANSON JOAN M ; GEN ELECTRIC ; COTTRELL JOHN F ; COTTRELL JOHN ; IMES KEVIN R ; SMITH TIM ; SMITH JOCELYN ; KINGSTON CONSULTING INC ; WHITE COLBY ; YAO XIYIN ; LITTLEJOHN KATHRYN M ; WOLLENWEBER SCOTT DAVID ; SUN LING ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO ; GENERAL ELECTRIC COMPANY ; GENERAL ELECTRIC CO

Inventor(s): (std): IMES KEVIN R ; SMITH TIM ; BINGHAM ANTHONY P ; SMITH JOCELYN ; COTTRELL JOHN ; KEVIN R IMES ; COTTELL JOHN ; WHITE COLBY ; YAO XIYIN ; JOHN COTTELL ; JAROD ADDISON ; XIYIN YAO ; COLBY WHITE ; KEVIN IMES ; COTTRELL JOHN F ; LITTLEJOHN KATHRYN M ; HANSON JOAN M ; GANIN ALEXANDER ; BRIDGE WILLIAM J ; WOLLENWEBER SCOTT DAVID ; SUN LING ; ADDISON JAROD ; IMES KEVIN ; COTTRELL JOHN FREDERICK ; HOLLISTER JAMES ; JAMES HOLLISTER

Inventor(s): IMES KEVIN R HOLLISTER JAMES

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; PHILLIPS ORMONDE FITZPATRICK; MARKS AND CLERK; DICKINSON WRIGHT LLP; RIDOUT AND MAYBEE LLP; PORZIO RIOS; PORZIO RIOS AND ASOCIADOS; SHANKS ANDREW; GULDE AND PARTNER; FUKAMI PATENT OFFICE PC; OHNUKI SHINSUKE; ITOH TADAHICO; ITOH TADASHIGE; DICKINSON WRIGHT PLLC; JOHN S ARTZ DICKINSON WRIGHT PLLC; JOHN S; STAAS AND HALSEY LLP; ARTZ JOHN S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 43360988 (US2009145974A)

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Title: IRRIGATION FIELD MODULE MATRIX CONFigureD FOR WIRELESS COMMUNICATION WITH A CENTRAL CONTROL SERVER

Abstract: The invention is an irrigation field module matrix configured for wireless communication with a central control server. The central control server contains a database with relevant information regarding features, parameters, and characteristics of a particular irrigation system. This system utilizes proprietary irrigation software to control a plurality of field modules, at one or more remote locations, via a network bridge adapter. An irrigation system may comprise a single server, or multiple servers that may be configured so that control of the entire system is centralized, and control of one or multiple irrigation locations may be accomplished remotely by wirelessly accessing, monitoring and controlling a location's field module matrix.

Classifications:

International (IPC 8-9): A01G27/00 B05B17/04 G05B11/32

G05B15/02 G05D11/00 G05D7/00 G05D7/06

G06F19/00 (Advanced/Invention);

A01G25/16 B05B12/12 (Advanced/Non-invention);

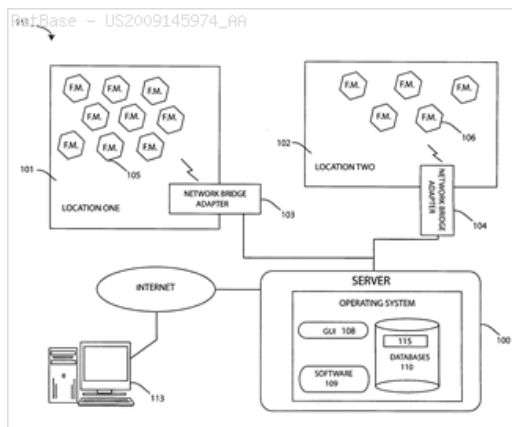
B05B17/04 G05B11/32 G05D7/00 G05D7/06

G06F19/00 (Core/Invention)

CPC: G05B15/02 A01G25/16 B05B12/12

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US: 239/11 239/11P 239/63 239/69 239/69S 700/19 700/19S 700/282 700/283 700/284 700/284P 709/223



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US2009145974 AA	20090611	US20080109997	20080425
US2009150001 AA	20090611	US20080109884	20080425
US2009150002 AA	20090611	US20080109943	20080425
US2011190948 AA	20110804	US20110086815	20110414
US7883027 BB	20110208	US20080109997	20080425
US8024075 BB	20110920	US20080109884	20080425
US9043036 BB	20150526	US20110086815	20110414

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US20070992673P 20071205	US20070012019P 20071206	US20080109884 20080425
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Probable Assignee: AMERICAN PIPE AND FITTING INC DBA GPH IRRIGATION

Assignee(s): (std): AMERICAN PIPE AND FITTING INC ; FEKETE DANIEL JOSEPH ; LOOPBACK LABS LLC

Assignee(s): AMERICAN PIPE AND FITTING INC DBA GPH IRRIGATION

Inventor(s): (std): FEKETE DANIEL JOSEPH

Agent(s): JAFARI LAW GROUP PC; LOZA AND LOZA LLP; HEIDI L