

Base : FAMPAT**SEARCH STRATEGY****SS Results**

11	125	10 AND ((TEMPERATUR+ OR HUMIDITY+ OR MOTION OR PROXIMITY OR FINGERPRINT+ OR GAS COMPOSITION OR SOUND OR NOISE) 2W (SENSOR+ OR DETECTOR+))/TI/AB/IW/CLMS
10	297	9 AND (CONTROL+ AND (ENVIRONMENT OR AMBIENT))/TI/AB
9	828	7 AND (COMMUNICATION OR NETWORK OR WIRELESS)
8	18	7 AND DIMMER
7	1318	6 AND (+PROCESSOR OR +CONTROLLER)/TI/AB/IW/CLMS
6	1801	5 AND PD < 2015-04-03
5	5739	2 AND 4
4	17595	(CONTROL+ AND (ENVIRONMENT+ OR AMBIENT+ OR ATMOSPHERE+) AND (SENSOR+ OR MEASUR+))/TI/AB/IW/CLMS AND (G05B)/IPC
3	1	(CONTROL+ AND (ENVIRONMENT+ OR AMBIENT+ OR ATMOSPHERE+) AND (SENSOR+ OR MEASUR+))/TI/AB/IW/CLMS AND (G05B)/IPC AND (WO2016155021)/PN
2	103299	..SIMILARITY SS 1 RANKED 1
1	1	(WO2016155021)/PN

50 Documents

Publication numbers	Title	Current assignees
GB201423260 D0	System and method for controlling energy consuming devices within a building	SWITCHEE
WO201086757 A1	Lighting control system responsive to ambient lighting conditions	PHILIPS LIGHTING HOLDING
WO9612993 A1	Field devices for use in a distributed control system	FISHER ROSEMOUNT SYSTEMS
WO2011148378 A2	Automated load control system and method	RONEN APELKER, ...
CA2907402 A1	Speaker and light source responsive to states	ALIPH, ...
WO2006135771 A2	Appliance with embedded virtual router	WHIRLPOOL
KR100725943 B1	Home automation system and method utilizing outdoor environmental conditions	SAMSUNG ELECTRONICS
WO2011103652 A1	System and method for facility management and operational monitoring and control	ARGOETTI SHLOMO
CN1996413 A	Apparatus and method for transmitting control commands in home network system	SAMSUNG ELECTRONICS
US20140317710 A1	Security and/or monitoring devices and systems	WRV II
US20120261109 A1	Integrating sensing systems into thermostat housing in manners facilitating compact and visually pleasing physical characteristics thereof	GOOGLE
CN104460576 A	Multifunctional intelligent control system	SHAOXING SMART DOVE INFORMATION TECHNOLOGY
GB201210104 D0	Controlling the Heating of Rooms	BMSHOME
US20120130547 A1	Flexible functionality partitioning within intelligent-thermostat-controlled hvac systems	GOOGLE
US20130082817 A1	Air freshening network	PROCTER & GAMBLE
US20110178650 A1	Computerized light control system with light level profiling and method	ESI VENTURES
GB201205722 D0	Device control system	TORQUING TECHNOLOGY
US20040148039 A1	Position based machine control in an industrial automation environment	XENOGENIC DEVELOPMENT LIABILITY
US20050252984 A1	MEMS based building environment control system and control method therefor	SIEMENS INDUSTRY
WO2008100641 A1	Building optimization system and lighting switch	GENEA ENERGY
WO201427349 A1	System and method for remote control of home appliances without infrastructure changes	SWITCHBEE
CA2890612 A1	Wireless power, light and automation control with ambient light and proximity detection	KORTEK INDUSTRY

Publication numbers	Title	Current assignees
US8988232 B1	Smart-home hazard detector providing context specific features and/or pre-alarm configurations	GOOGLE
CN104317223 A	Intelligent indoor environment monitoring system	GUANGDONG HUI LIPU ROAD & BRIDGE INFORMATION TECHNOLOGY
US6552647 B1	Building environment monitor and control system	DEMARINIS RICHARD L., ...
CN101344785 A	Environment, lighting and security control system	VENSTAR
WO200879138 A1	Methods and systems for controlling an air conditioning system operating in free cooling mode	CARRIER
CA2218581 A1	Multifunction sensor and network sensor system	HUBBEL
CA2885731 A1	Selectable lens button for a hazard detector and method therefor	GOOGLE
WO201353014 A1	Interface device for an energy harvesting system	CARBONTRACK
US7809472 B1	Control system for multiple heating, ventilation and air conditioning units	CUSTOM MANUFACTURING & ENGINEERING
US20120126021 A1	Computational load distribution in an environment having multiple sensing microsystems	GOOGLE
US20140303790 A1	Liquid ingesting management system	BEYOND INVESTMENT
US8630742 B1	Preconditioning controls and methods for an environmental control system	GOOGLE
US20030216837 A1	Artificial environment control system	ARECONT INTELLECTUAL PROPERTY HOLDINGS
US20110046800 A1	Establishing proximity detection using 802.11 based networks	SAMSUNG ELECTRONICS
WO2013110178 A1	Programmable peripheral unit	SCHNEIDER ELECTRIC BUILDINGS
WO2011142830 A2	Apparatus and methods for controlling light fixtures and electrical appliances	LASERWELD
CA2218589 A1	Lens for a motion detector	HUBBELL
CN103926856 A	Agricultural environment information acquisition control device	SHANDONG ANBO APPARATUS
WO201348564 A1	System and method for providing a simulated window utilizing environmental controls operable within a building automation system	SIEMENS SCHWEIZ
WO2014111752 A1	Smart photocell for the remote management and control of public lighting systems	TELEMETRIA INDUSTRIAL TELEMETRIK
EP1582952 A2	Location based material handling and processing	ROCKWELL AUTOMATION
WO2014172440 A1	Process controller with integrated optical sensing	WATLOW

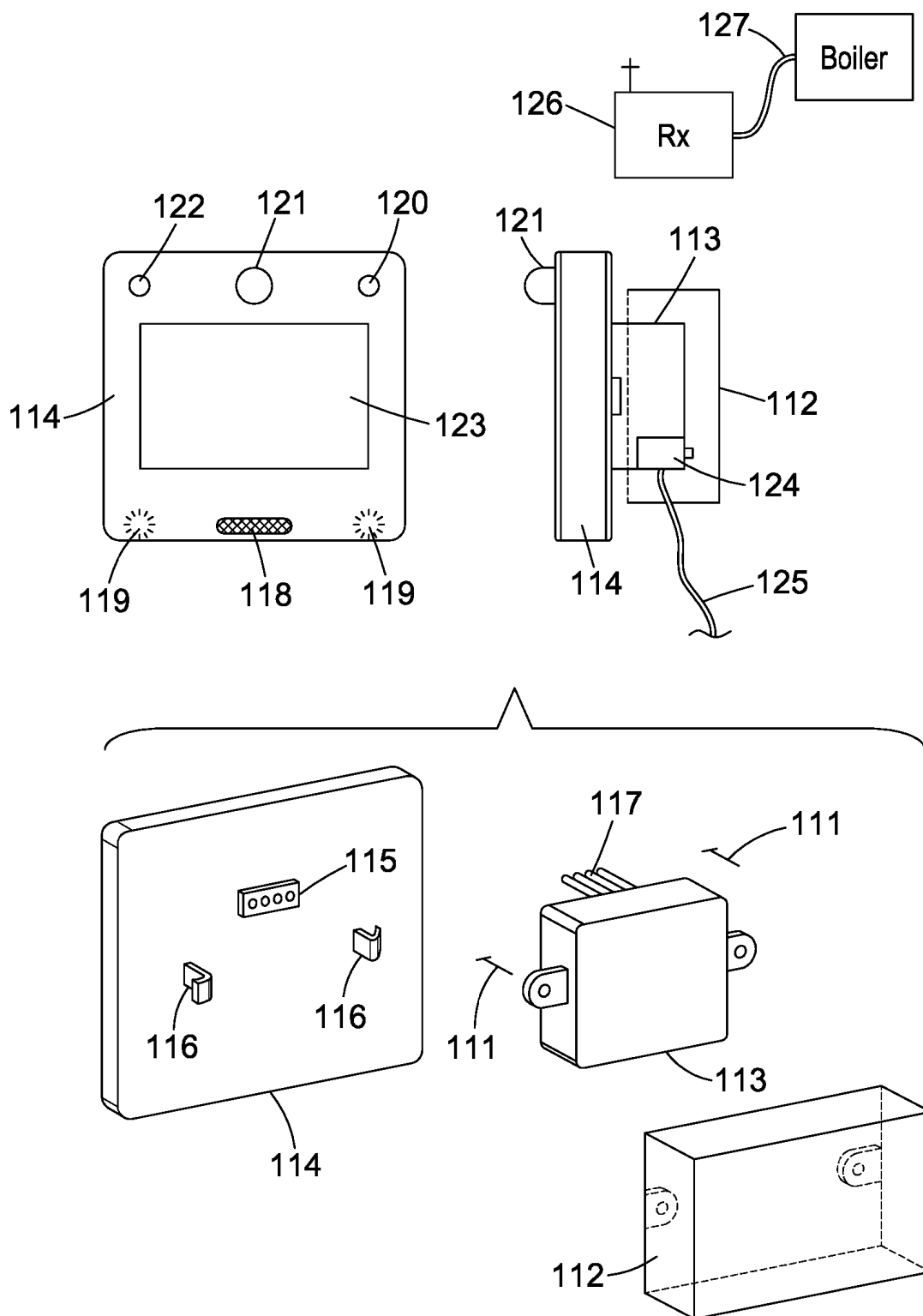
Publication numbers	Title	Current assignees
TWM484187 U	Intelligent sensing control device and intelligent sensing control system	REDCON TECHNOLOGY
US20100082174 A1	Intelligent temperature management based on energy usage profiles and outside weather conditions	GOOGLE
CN104460333 A	Embedded wireless smart home monitoring system	GUANGDONG INSTITUTE OF SCIENCE & TECHNOLOGY
US20100332034 A1	System and method for an electrical insulating shutter system	BERGESON TODD ERIC, ...
CN102043385 A	User sleeping state-based household appliance control device and control method	ZHEJIANG UNIVERSITY
CA2910048 A1	Facilitating ambient temperature measurement accuracy in an hvac controller having internal heat-generating components	GOOGLE

Family 1/50 - FAMPAT - ©Questel

Title

(EP3237978)

System and method for controlling energy consuming devices within a building

Images**Publication data including kind & date**

GB201423260	D0	2015-02-11	GB201423260
GB2533646	A	2016-06-29	GB2533646
WO2016102983	A1	2016-06-30	WO2016102983
GB201712244	D0	2017-09-13	GB201712244
EP3237978	A1	2017-11-01	EP3237978



[US20170336770](#)

A1 2017-11-23 US20170336770

[GB2554792](#)

A 2018-04-11 GB2554792

**Abstract**

(EP3237978)

The invention provides a control arrangement and corresponding method for intelligent control of at least one energy consuming device within a building. The control arrangement comprises a switch component for controlling a first energy consuming device such as a lighting device, heating, ventilation or security device; and/or a computer- implemented control component for intelligently controlling at least one further energy consuming device, such as a heating, air conditioning, ventilation or security apparatus. The switch component and/or the control component are provided within a housing which is mounted within or interfaced to a pattress or wiring box during use. The control component comprises a microprocessor and suitably arranged software configured to receive **sensor** data obtained from one or more **sensors** provided in or on the housing, and/or process the **sensor** data to enable the system to intelligently control the at least one further energy consuming device. The system is configured to build a model of a building occupant's behaviour so that the energy consuming devices can be controlled more efficiently and intelligently. The invention is simple and easy to install because it replaces an existing light switch or thermostat.

Inventors

MACMILLAN RUSSELL PAUL

Latest standardized assignees - inventors removed

SWITCHEE

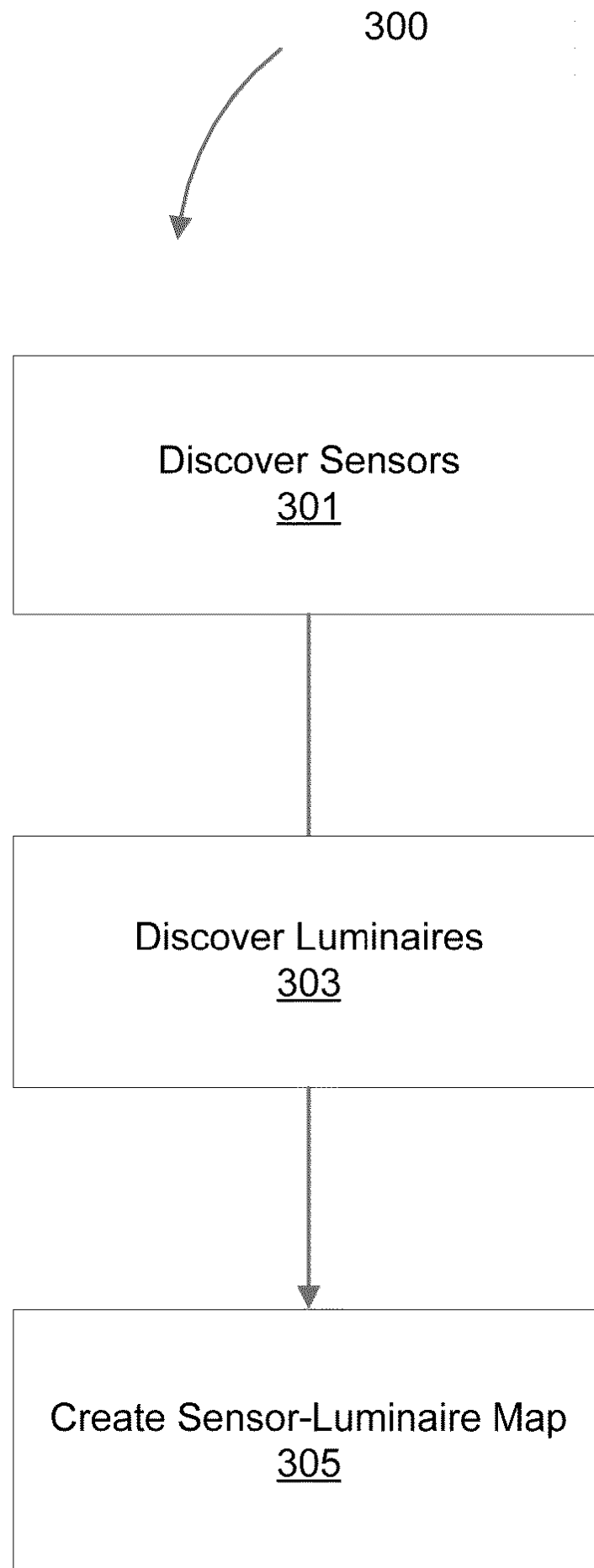
Family 2/50 - FAMPAT - ©Questel

Title

(EP2392194)

Lighting control system responsive to ambient lighting conditions

Images



Publication data including kind & date

WO2010086757	A1	2010-08-05	WO201086757				
CA2751104	A1	2010-08-05	CA2751104				
TW201033518	A	2010-09-16	TW201033518				
KR20110118693	A	2011-10-31	KR20110118693				
US20110282468	A1	2011-11-17	US20110282468				
EP2392194	A1	2011-12-07	EP2392194				
CN102301827	A	2011-12-28	CN102301827				
JP2012516533	A	2012-07-19	JP2012516533				
RU2011135737	A	2013-03-10	RU2011135737				
US20140327362	A1	2014-11-06	US20140327362				
RU2538786	C2	2015-01-10	RU2538786				
CN102301827	B	2015-01-28	CN102301827B				
US8977371	B2	2015-03-10	US8977371				
EP2392194	B1	2015-03-18	EP2392194				
ES2536074	T3	2015-05-20	ES2536074				
JP2015097207	A	2015-05-21	JP2015097207				
TWI537516	B	2016-06-11	TWI537516				
CA2751104	C	2017-07-04	CA2751104				
US9750114	B2	2017-08-29	US9750114				
JP6188670	B2	2017-08-30	JP6188670				
KR20170131719	A	2017-11-29	KR20170131719				

Abstract

(EP2392194)

A controller, method and system, for controlling lighting responsive to ambient lighting conditions are described. In particular, disclosed is illumination controller (110) for controlling illumination of a workspace near a display (253). The illumination controller includes a memory device (113) storing a user's preference for illumination of the workspace; a processor (111) accessing the user's preference in the memory device; and an interface (112) between the processor and an electronic **sensor** (231) located proximate to the display, which collects a reading from the electronic **sensor**. The processor compares the reading with the user's preference, and sends a command to at least one luminaire (241) to adjust the illumination of the workspace. The electronic **sensor** can be, for example, a photosensor, an occupancy **sensor**, an orientation **sensor**, or a location **sensor**. In some embodiments, the interface collects the reading from the electronic **sensor** via a wireless communication link.

Inventors

ASHDOWN IAN

Latest standardized assignees - inventors removed

PHILIPS LIGHTING HOLDING

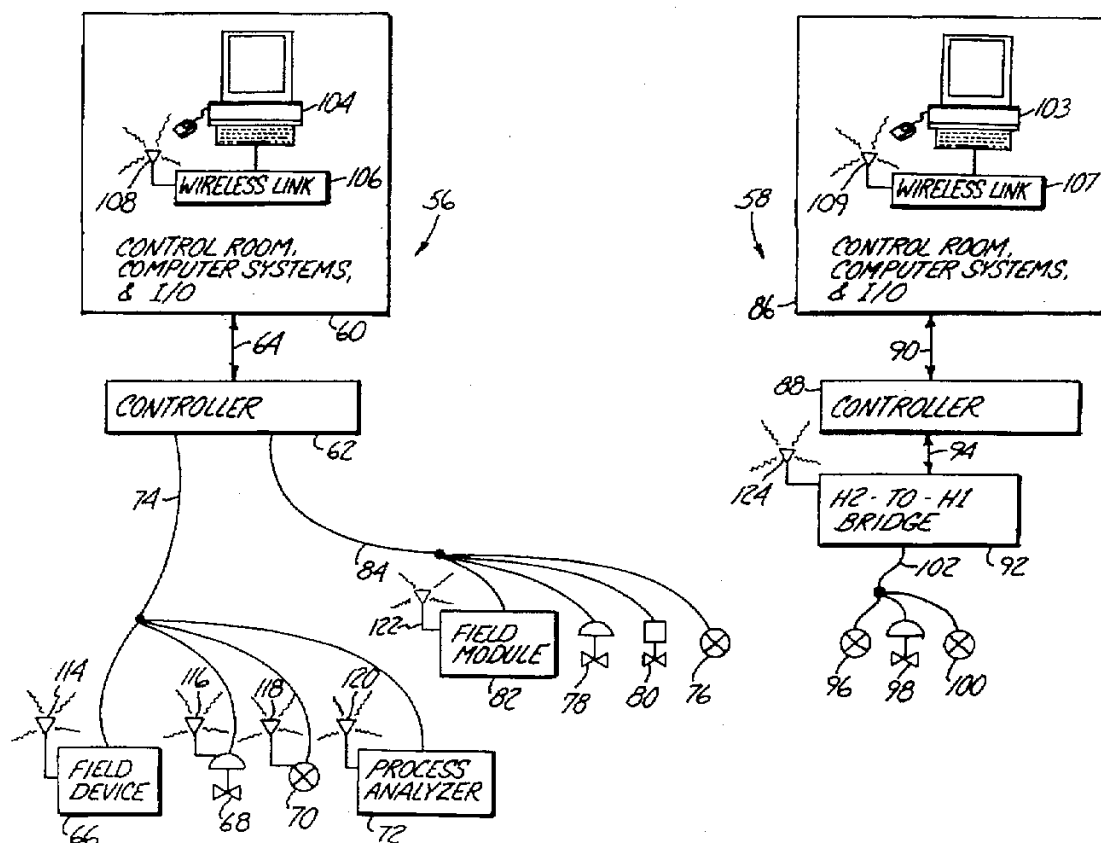
Family 3/50 - FAMPAT - ©Questel

Title

(EP-940738)

Field devices for use in a distributed control system

Images



Publication data including kind & date

WO9612993	A1	1996-05-02	WO9612993
CA2203561	A1	1996-05-02	CA2203561
AU3955395	A	1996-05-15	AU9539553
TW280883	B	1996-07-11	TW-280883
NO971867	D0	1997-04-23	NO9701867
FI971739	A	1997-04-23	FI9701739
FI971739	A0	1997-04-23	FI9701739
NO971867	A	1997-06-09	NO9701867
MX9702915	A	1997-07-31	MX9702915
EP0788627	A1	1997-08-13	EP-788627
US5682476	A	1997-10-28	US5682476
BR9509503	A	1997-12-30	BR9509503
BRPI9509503	A1	1997-12-30	BRPI9509503
CN1170464	A	1998-01-14	CN1170464
JPH10508129	A	1998-08-04	JP10508129
NZ295900	A	1999-01-28	NZ-295900
AU702269	B2	1999-02-18	AU-702269
EP0940738	A2	1999-09-08	EP-940738
EP0940738	A3	1999-09-29	EP-940738
EP0788627	B1	1999-12-15	EP-788627
AT187824	T	2000-01-15	ATE187824
DE69514001	D1	2000-01-20	DE69514001
DE69514001	T2	2000-06-08	DE69514001
US6236334	B1	2001-05-22	US6236334
EP0940738	B1	2002-12-11	EP-940738
DE69529180	D1	2003-01-23	DE69529180



US20030043052	A1	2003-03-06	US20030043052				
DE69529180	T2	2003-09-25	DE69529180				
KR100401558	B1	2004-02-19	KR100401558				
BRPI9509503	B1	2004-03-30	BR9509503				
CN1148620	C	2004-05-05	CN1148620C				
NO317025	B1	2004-07-26	NO-317025				
CA2203561	C	2004-09-21	CA2203561				
FI115079	B	2005-02-28	FI-115079				
US20050047331	A1	2005-03-03	US20050047331				
US20050047330	A1	2005-03-03	US20050047330				
US20050049727	A1	2005-03-03	US20050049727				
US20050076151	A1	2005-04-07	US20050076151				
JP2006190345	A	2006-07-20	JP2006190345				
JP3859015	B2	2006-12-20	JP3859015				
JP4130683	B2	2008-08-06	JP4130683				
US7453834	B2	2008-11-18	US7453834				
US7519012	B2	2009-04-14	US7519012				
US7602741	B2	2009-10-13	US7602741				
US7609660	B2	2009-10-27	US7609660				
US7623479	B2	2009-11-24	US7623479				
US20100074156	A1	2010-03-25	US20100074156				
US8184562	B2	2012-05-22	US8184562				

Abstract

(EP-940738)

An apparatus for accessing field devices in a distributed control system provides non-redundant secondary access to a plurality of field devices that are controlled by a control room. An apparatus also provides redundant wireless to access field devices in a distributed control system having primary access to the field devices provided by hard-wired media that couples the field devices to the control room. The field devices are coupled to a Fieldbus control network. In a first embodiment, each field device is provided with a wireless Fieldbus port that is accessible by a wireless handheld unit or wireless terminal. In a second embodiment, each Fieldbus control network is provided with a field module having a wireless Fieldbus port that allows all devices connected to the Fieldbus control network to be accessed by a wireless handheld unit or a wireless terminal. In a third embodiment, an H2-to-H1 Fieldbus bridge (which may service a plurality of H1 control networks) is provided with a wireless Fieldbus port that allows all Fieldbus devices connected to H1 control networks serviced by the H2-to-H1 bridge to be access by a wireless handheld unit of a wireless terminal. In a fourth embodiment, a bridge/converter provides an interface between older analog control room components and newer Fieldbus field devices.

Inventors

TAPPERSON GARY

BOYD THOMAS ANDREW

Latest standardized assignees - inventors removed

FISHER ROSEMOUNT SYSTEMS

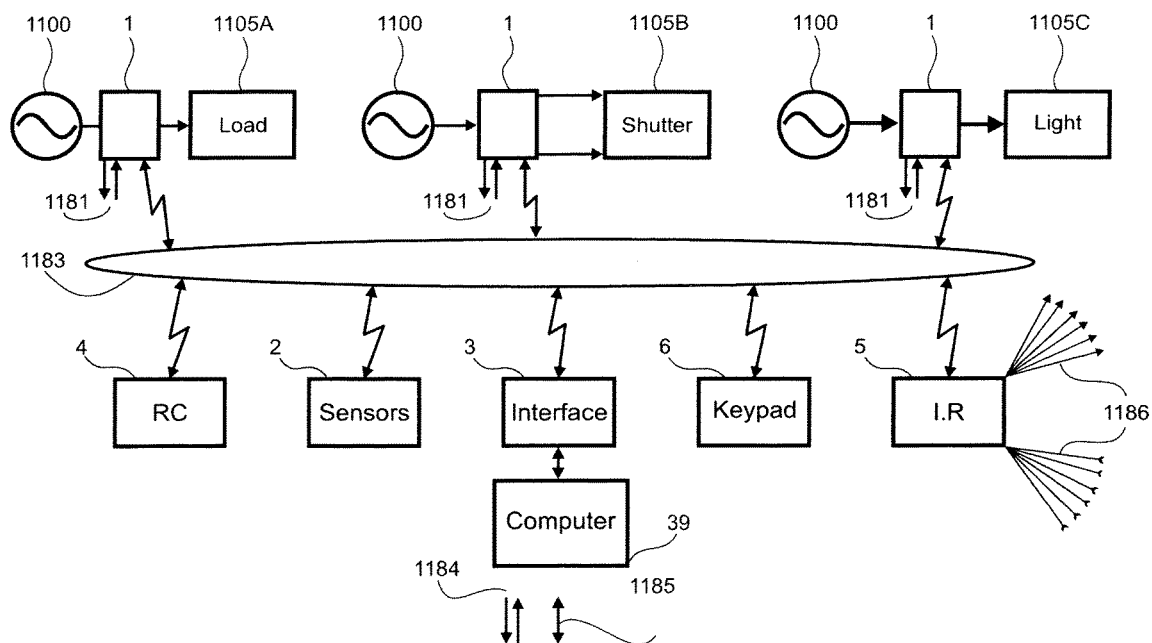
Family 4/50 - FAMPAT - ©Questel

Title

(EP2577878)

Automated load control system and method

Images



Publication data including kind & date

WO2011148378	A2	2011-12-01	WO2011148378
WO2011148378	A3	2012-03-29	WO2011148378
IL223282	A	2013-02-03	IL-223282
EP2577878	A2	2013-04-10	EP2577878
US20130200725	A1	2013-08-08	US20130200725
IL223282	B	2016-05-31	IL-223282
EP2577878	A4	2016-12-07	EP2577878
US9946230	B2	2018-04-17	US9946230



Abstract

(EP2577878)

A system for controlling electrical loads in a house, apartment, office or any other living environment, comprising the following units: Smart load control unit (LCU), Remote control unit (RCU), **Sensors** unit (SU), Computer interface unit (CIU), Infrared control unit (IRU) and Keypad unit (KU). Each LCU is so devised as to replace a wall switch or other electrical load power control device and comprises means for controlling an electric power delivered to the load responsive to a user's commands. Each RCU comprises means for activating LCU units, and each SU comprises **sensor** means. Each unit further includes means for connecting by wireless to the other units to exchange data or commands therebetween.

Inventors

APELKER RONEN

APELKER ALLON

Latest standardized assignees - inventors removed

RONEN APELKER

ALLON APELKER

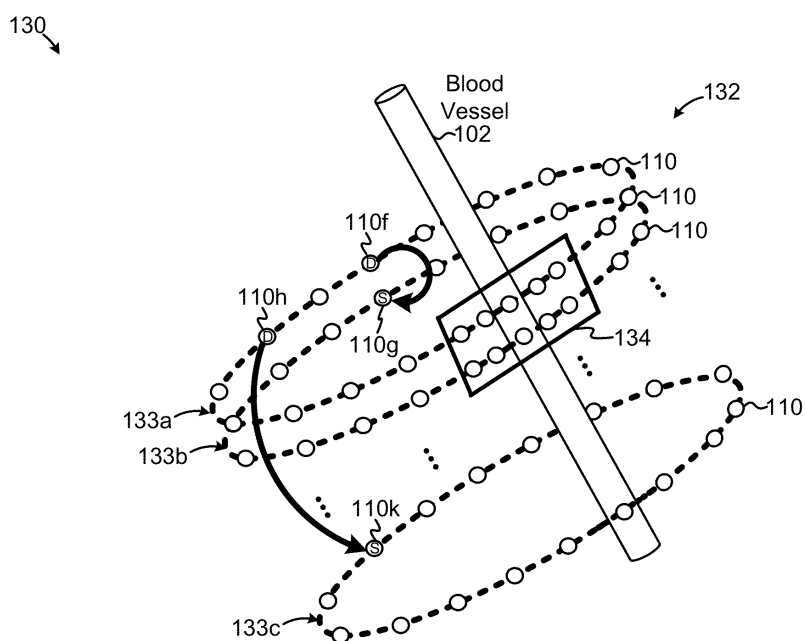
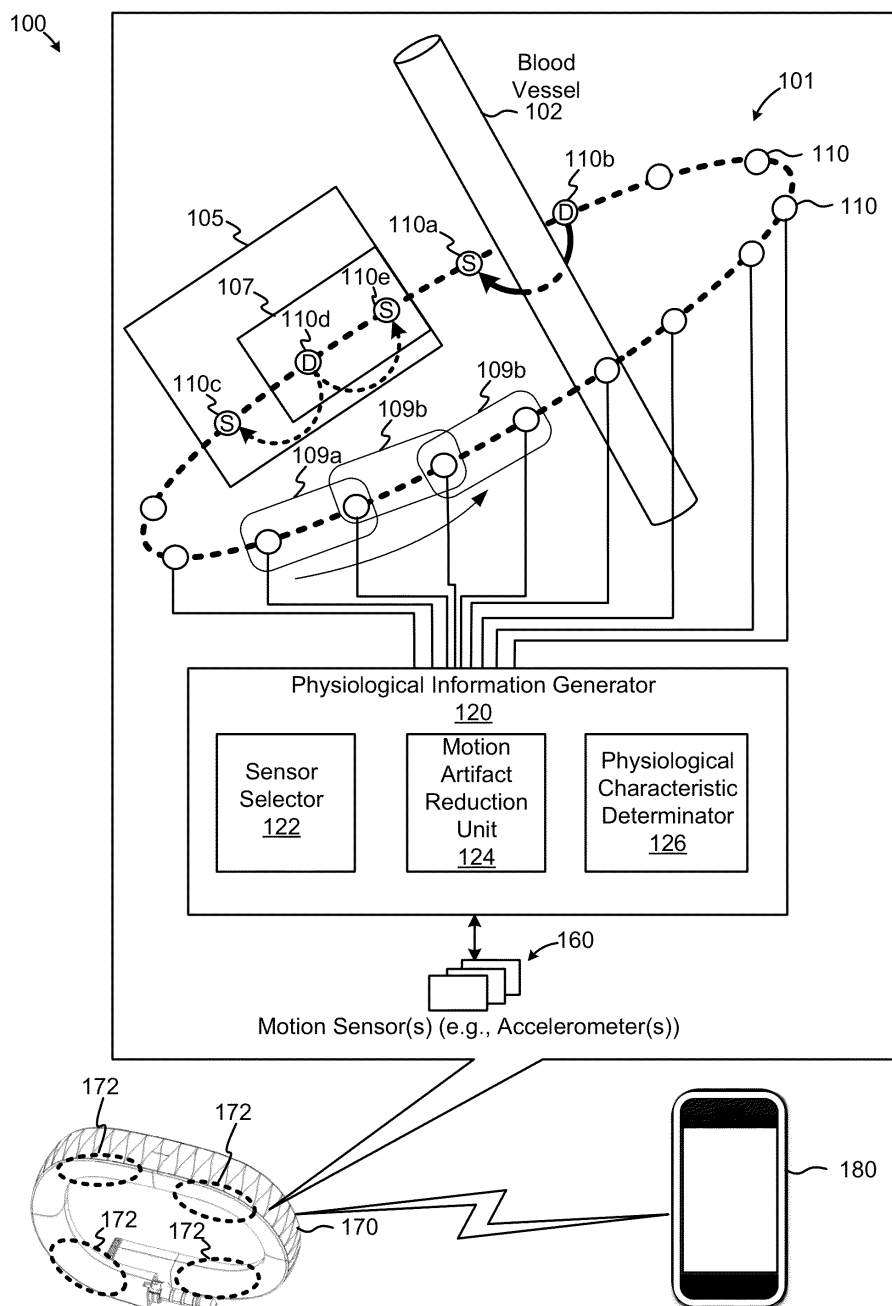
Family 5/50 - FAMPAT - ©Questel

Title

(EP2972680)

Speaker and light source responsive to states

Images



Publication data including kind & date

CA2907402	A1	2014-09-18	CA2907402				
WO2014145978	A2	2014-09-18	WO2014145978				
US20140285326	A1	2014-09-25	US20140285326				
WO2014145978	A3	2014-10-30	WO2014145978				
US20140327515	A1	2014-11-06	US20140327515				
US20140334653	A1	2014-11-13	US20140334653				
AU2014232300	A1	2015-11-05	AU2014232300				
EP2972680	A2	2016-01-20	EP2972680				
IN9736/DELNP/2015	A	2016-03-04	IN2015DN09736				
RU2015144126	A	2017-04-24	RU2015144126				

Abstract

(EP2972680)

A combination speaker and light source responsive to states of an organism based on **sensor** data is described, including generating **motion sensor** data responsive to movement(s) captured using a **motion sensor(s)**, deriving movement data using a **motion** analysis module operative to determine the movement to be associated with: gesture(s); identity(s); and activity(s), using the **motion sensor** data, generating acoustic **sensor** data responsive to **sound** captured using an acoustic **sensor**, deriving audio data using a **noise** removal module operative to subtract a **noise** signal from the acoustic **sensor** data, detecting a RF signal associated with a personal device using a communication facility, obtaining state data from the personal device, and determining a desired light characteristic using the state data and one or both of the movement data and the audio data.

Inventors

LUNA MICHAEL EDWARD SMITH

FULLAM SCOTT

NARRON PATRICK ALAN

MERRILL CHRIS

BARRENTINE DEREK BOYD

SAHA SANKALITA

ROBISON JEREMIAH

Latest standardized assignees - inventors removed

ALIPH

BODYMEDIA

PROJECT PARIS ACQUISITION

MACGYVER ACQUISITION

JAWB ACQUISITION

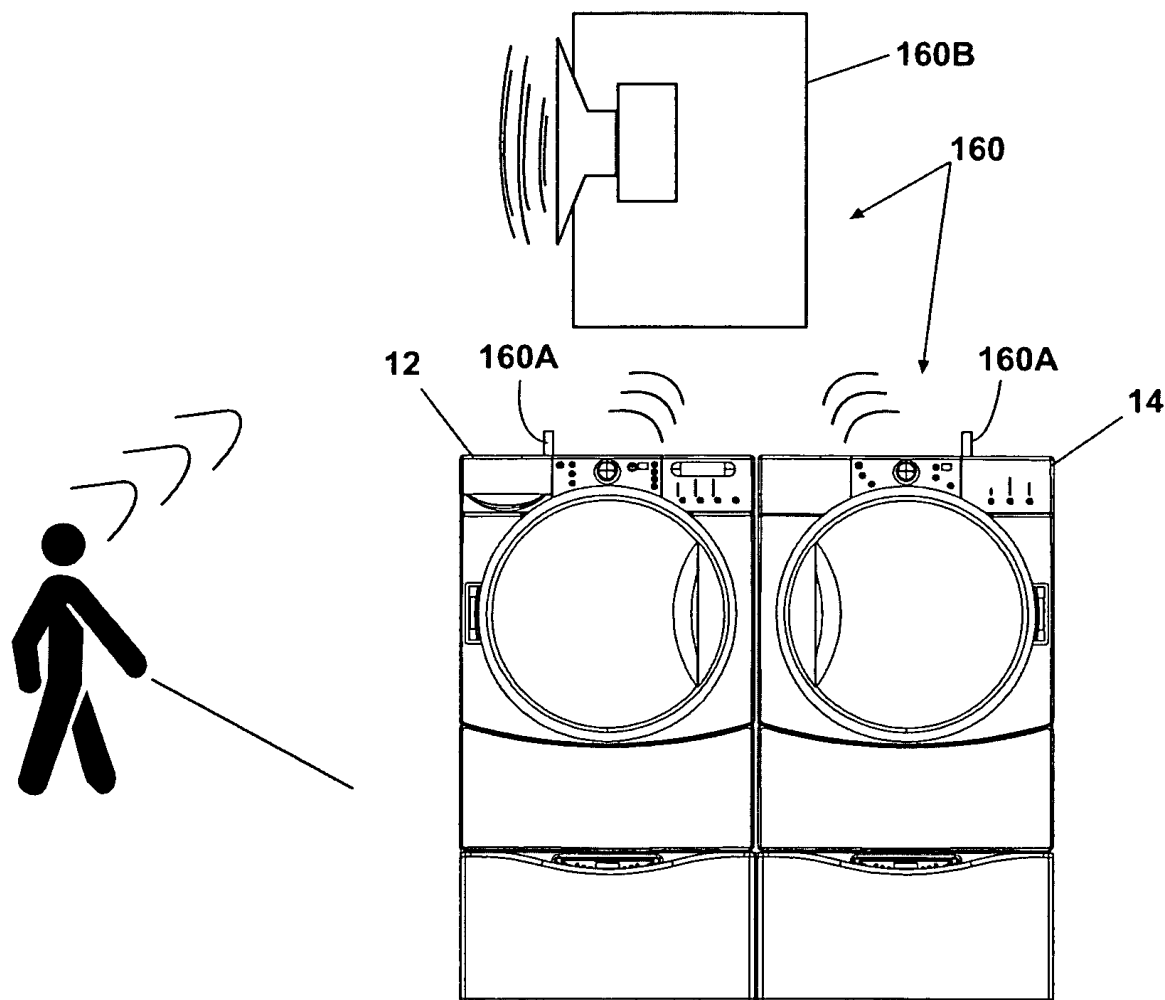
Family 6/50 - FAMPAT - ©Questel

Title

(EP2247067)

Appliance with embedded virtual router

Images



Publication data including kind & date

WO2006135771	A2	2006-12-21	WO2006135771				
WO2006135758	A1	2006-12-21	WO2006135758				
CA2651012	A1	2006-12-21	CA2651012				
CA2611014	A1	2006-12-21	CA2611014				
WO2006135726	A2	2006-12-21	WO2006135726				
CA2611527	A1	2006-12-21	CA2611527				
US20070156265	A1	2007-07-05	US20070156265				
US20070156882	A1	2007-07-05	US20070156882				
US20070156864	A1	2007-07-05	US20070156864				
US20070162158	A1	2007-07-12	US20070162158				
US20070160022	A1	2007-07-12	US20070160022				
US20070168486	A1	2007-07-19	US20070168486				
US20070240173	A1	2007-10-11	US20070240173				
WO2006135771	A3	2007-11-15	WO2006135771				
BRPI0704642	A1	2008-01-22	BR200704642				
EP1889405	A1	2008-02-20	EP1889405				
EP1889160	A2	2008-02-20	EP1889160				
MX2007015681	A	2008-02-21	MX2007015681				
IN4630/KOLNP/2007	A	2008-03-28	IN2007KN04630				
US20080104212	A1	2008-05-01	US20080104212				
US20080104208	A1	2008-05-01	US20080104208				
US20080103610	A1	2008-05-01	US20080103610				
WO2006135726	A8	2008-05-02	WO2006135726				

US20080108388	A1	2008-05-08	US20080108388				
US20080105134	A1	2008-05-08	US20080105134				
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CA2615290	A1	2008-06-29	CA2615290				
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EP1944728	A1	2008-07-16	EP1944728				
IN1669/KOL/2007	A	2008-07-18	IN2007KO01669				
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EP2027544	A2	2009-02-25	EP2027544				
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WO2009059135	A2	2009-05-07	WO200959135				
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WO2009058772	A1	2009-05-07	WO200958772				
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WO2009076351	A2	2009-06-18	WO200976351				
WO2009076092	A2	2009-06-18	WO200976092				

WO2009076047	A2	2009-06-18	WO200976047				
WO2009076000	A2	2009-06-18	WO200976000				
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BRPI0818309	A2	2018-07-17	BR200818309				

Abstract

(EP2247067)

The invention relates to a software architecture that is implemented on and communicates over an internal communications network on an appliance, which connects the various physical components of the appliance. The software architecture performs multiple functions: identifying each of the components corresponding to a network node; identifying the capabilities of the components; identifying the status of the components; providing well defined command interfaces; and providing communication between internal and external software components. In this way, the SA functions to inform all of the nodes on the network of the presence, capabilities, and status of the other nodes.

Inventors

MCCOY RICHARD A

Latest standardized assignees - inventors removed

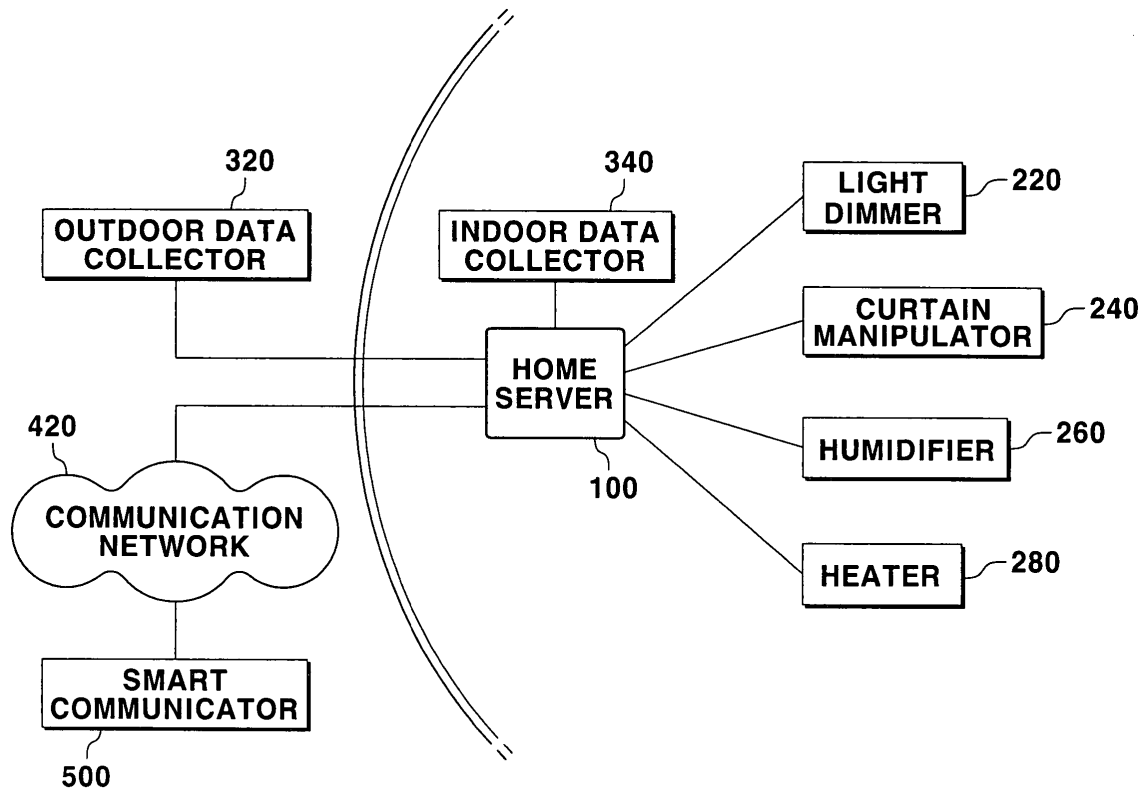
WHIRLPOOL

Family 7/50 - FAMPAT - ©Questel

Title

(US20070156256)

Home automation system and method utilizing outdoor environmental conditions

Images**Publication data including kind & date**[KR100725943](#)

B1 2007-05-31

KR100725943

[US20070156256](#)

A1 2007-07-05

US20070156256

**Abstract**

(US20070156256)

A home automation system includes one or more electronic appliances for performing home automation operations in response to inputted operation control commands, a smart communicator for inputting condition setting information to be used for control of the electronic appliances, a data collector for repeatedly collecting environmental data corresponding to the condition setting information, and a home server for setting environmental conditions according to the condition setting information inputted from the smart communicator. The home server determines whether collected environmental data match a corresponding environmental condition, and, if the collected environmental data does not match the corresponding environmental condition, controls an associated one of the electronic appliances to operate so that newly collected environmental data matches the corresponding environmental condition.

Inventors

JUNG HEE W

Latest standardized assignees - inventors removed

SAMSUNG ELECTRONICS

Family 8/50 - FAMPAT - ©Questel

Title

(WO2011103652)

System and method for facility management and operational monitoring and control

Images

2

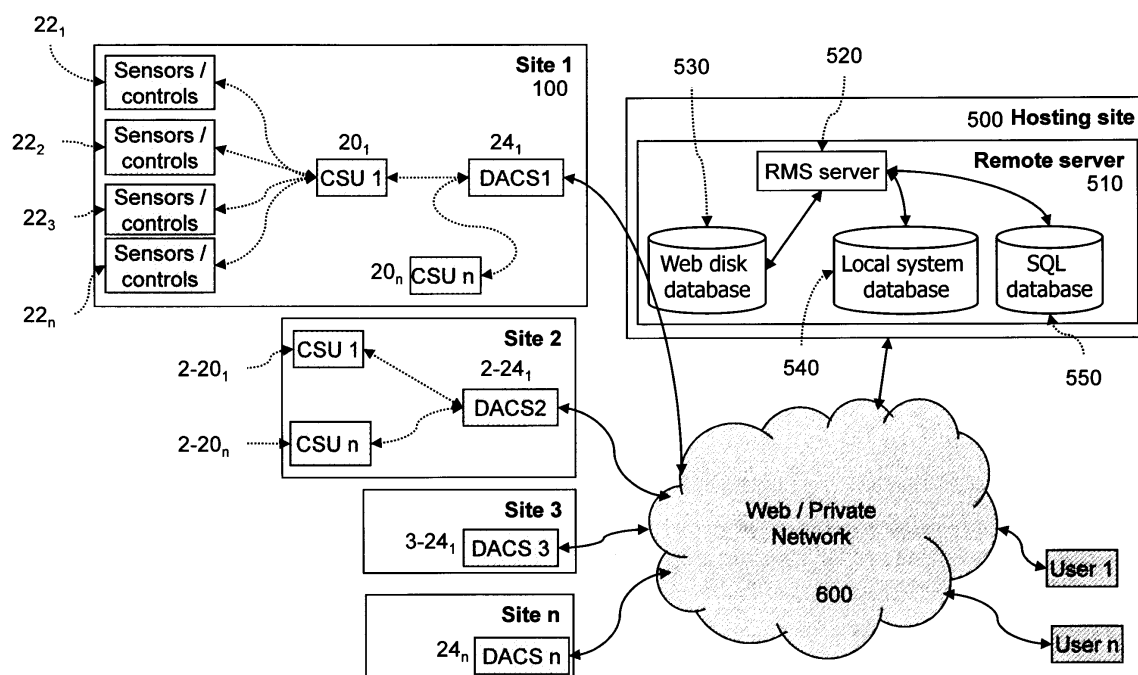


Figure 2

Publication data including kind & date

WO2011103652

A1 2011-09-01 WO2011103652



Abstract

(WO2011103652)

A system and method for management of facilities including operational monitoring and control, is provided, which is particularly applicable to building management systems for monitoring and control of energy usage in multi-unit and multi-tenant buildings. The system provides a multi-process communication environment for distributed independent applications. It is also scalable and provides for management of energy consumption, or usage of other services or utilities with increased granularity, e.g. on a per unit, per tenant basis, and/or to provide for aggregation of data from multiple sites or facilities.

Inventors

ARGOETTI SHLOMO

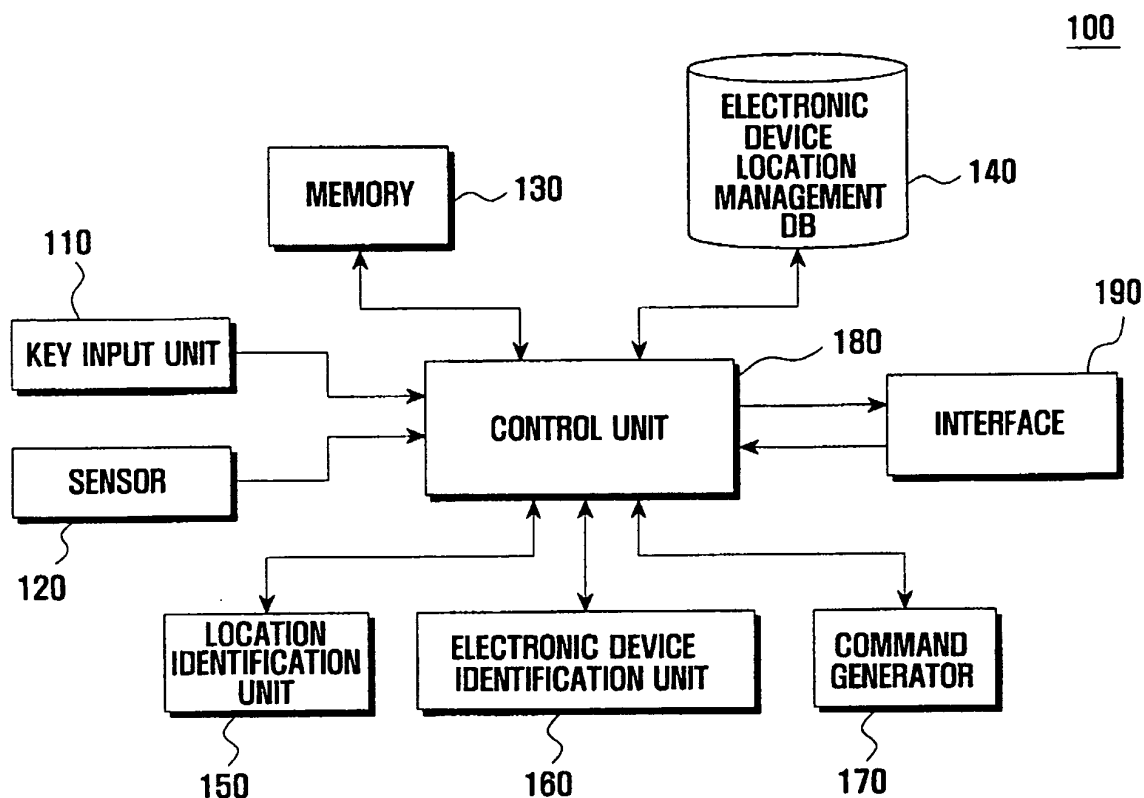
Family 9/50 - FAMPAT - ©Questel

Title

(EP1816551)

Apparatus and method for transmitting control commands in home network system

Images



Publication data including kind & date

CN1996413	A	2007-07-11	CN1996413
KR20070074075	A	2007-07-12	KR20070074075
EP1816551	A2	2007-08-08	EP1816551
US20070200658	A1	2007-08-30	US20070200658
EP1816551	A3	2012-09-05	EP1816551
KR101287497	B1	2013-07-18	KR101287497



Abstract

(EP1816551)

A control command transmission apparatus for controlling devices in a home network system environment is disclosed. A control command transmission apparatus includes a key input unit for inputting a user's operation signal to control corresponding electronic devices connected to the home network system; a **sensor** for detecting the user's **motion** applied to the control command transmission apparatus to control the electronic devices; a location identification unit for identifying the location of the control command transmission apparatus of the home network system; a command generator for generating a command corresponding to the **motion** detected by the **sensor**; and an interface for communicating with a home server to which the electronic devices are connected, and for transmitting the command generated by the command generator to the home server. Accordingly, the present invention provides convenient use of electronic devices connected to a home network system.

Inventors

YANG SUNG CHUL

Latest standardized assignees - inventors removed

SAMSUNG ELECTRONICS

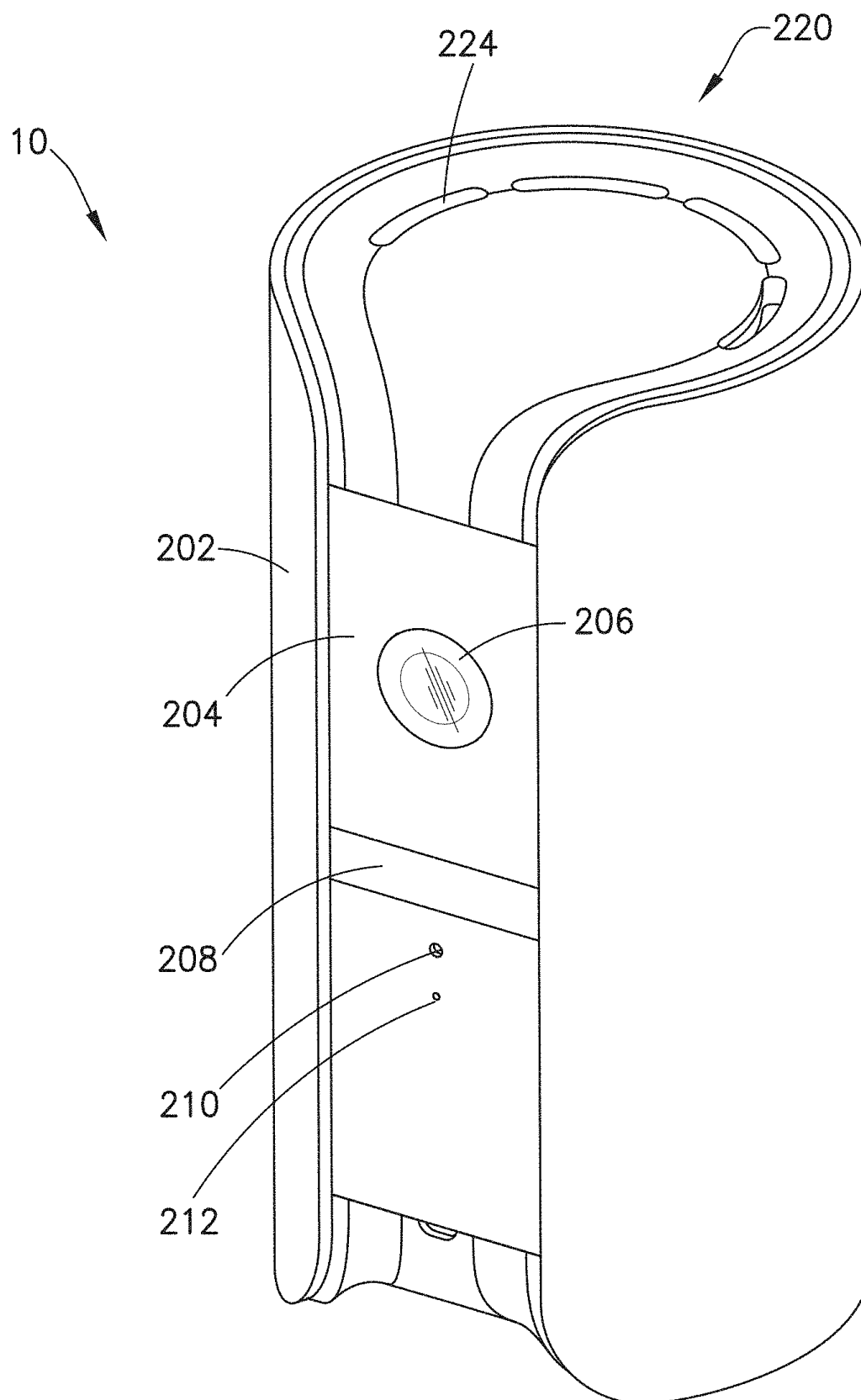
Family 10/50 - FAMPAT - ©Questel

Title

(EP2989619)

Security and/or monitoring devices and systems

Images



Publication data including kind & date

US20140317710	A1	2014-10-23	US20140317710
US20140313032	A1	2014-10-23	US20140313032
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US20170186309	A1	2017-06-29	US20170186309				
US10083599	B2	2018-09-25	US10083599				

Abstract

(EP2989619)

Monitoring and security systems for homes and other locations include monitoring devices comprising a single housing and a plurality of **sensors** supported by the housing to detect respective characteristics of a location. A thermal isolation chamber may be provided for certain **sensors**. Processing may be provided on the device and/or on a processing system coupled to the device through a network. The processing system may be a cloud-based system. The device and/or the processing system may have learning capabilities. Data collected by the monitoring device may be displayed on user device as a timeline. The system may be disarmed and armed by geo-location. Backup contacts, groups, and first responders may receive notifications, in an escalating order, if a primary user does not respond to a notification. The monitoring device may be configuring to communicate with a network and a user device via an audio jack.

Inventors

TROUTMAN JONATHAN D

KRAUSE JAMES C

SAGER ADAM D

RILL CHRISTOPHER I

LAKSHMINARAYANAN KARTHIK

SCOFFIER MARC P

HOOVER TIMOTHY ROBERT

Latest standardized assignees - inventors removed

WRV II

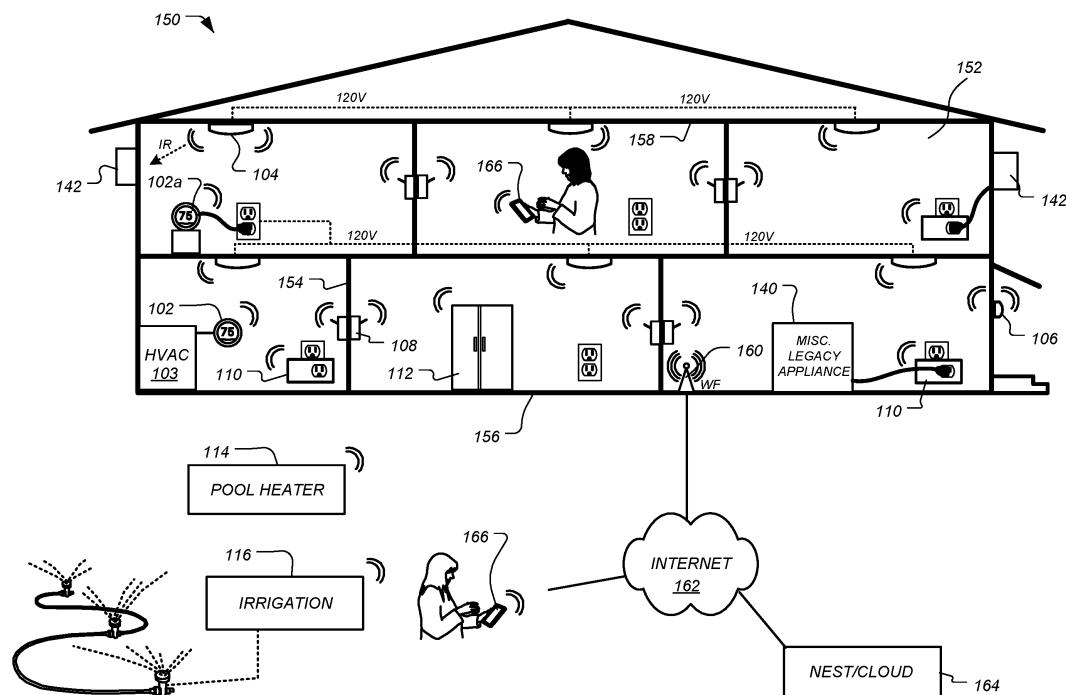
Family 11/50 - FAMPAT - ©Questel

Title

(EP3242092)

Integrating sensing systems into thermostat housing in manners facilitating compact and visually pleasing physical characteristics thereof

Images



Publication data including kind & date

US20120261109	A1	2012-10-18	US20120261109
US20120273580	A1	2012-11-01	US20120273580
US20120325919	A1	2012-12-27	US20120325919
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CA2853039	A1	2013-04-25	CA2853039
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Abstract

(EP3242092)

An occupancy sensing electronic thermostat is described that includes a thermostat body having a curved exterior front surface, a dot matrix display mounted within the body viewable by a user in front of the front surface, a passive infrared **sensor** for measuring infrared energy and a shaped Fresnel lens having a smooth outer surface that extends across only a

portion of the exterior front surface of the thermostat body. The Fresnel lens is shaped and curved so as to conform to and form a part of the curved exterior front surface of the thermostat body. A second downwardly directed passive infrared **sensor** can also be provided to aid in the detection of an approaching user who intends to interact with the thermostat.

Inventors

FILSON JOHN BENJAMIN

DANIELS ERIC B

HUPPI BRIAN

Latest standardized assignees - inventors removed

GOOGLE

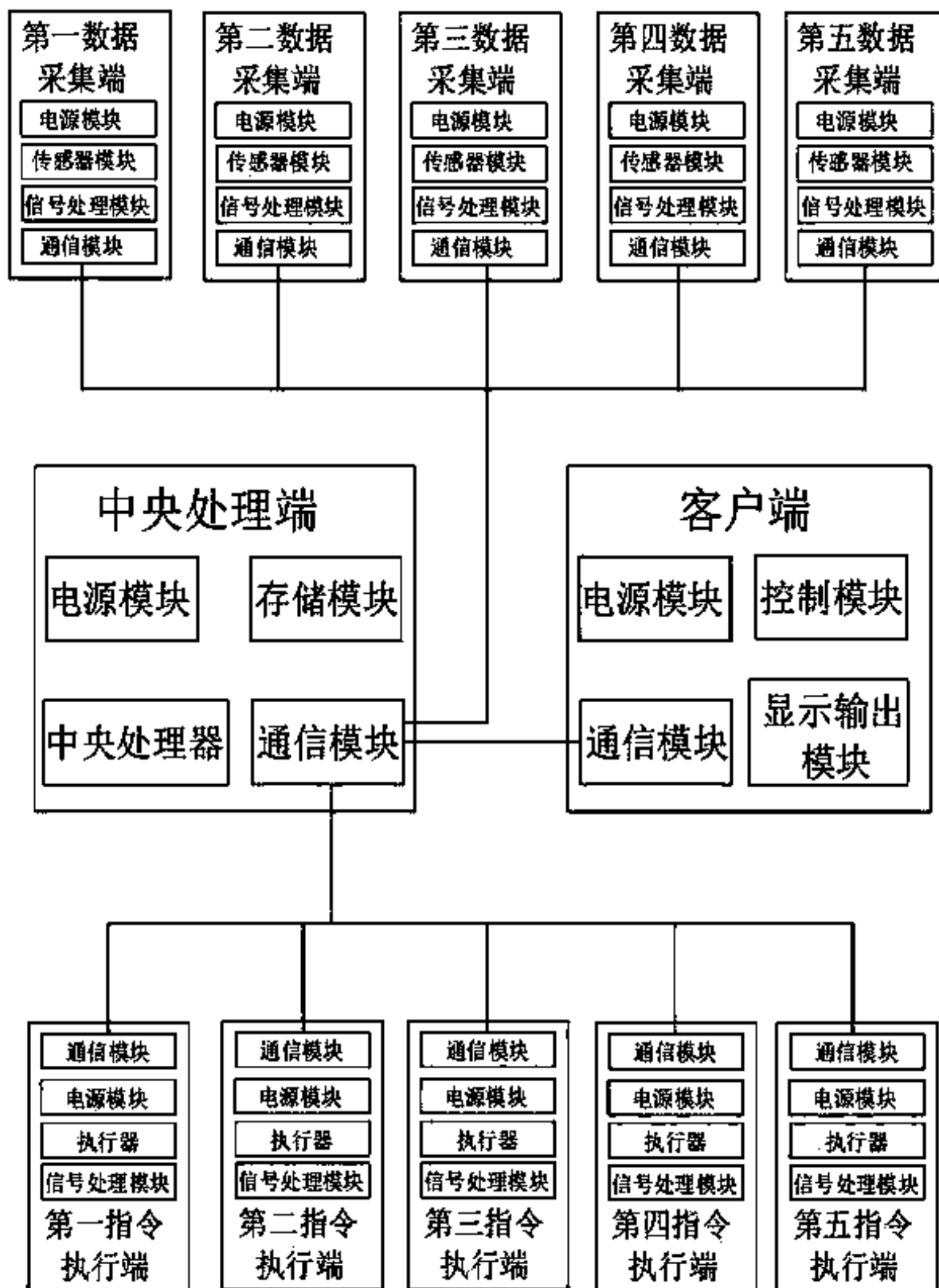
Family 12/50 - FAMPAT - ©Questel

Title

(CN104460576)

Multifunctional intelligent control system

Images



Publication data including kind & date

CN104460576

A

2015-03-25

CN104460576



Abstract

(CN104460576)

The invention discloses a multifunctional intelligent control system. The multifunctional intelligent control system comprises a central processing end, client sides, a data collecting end and an instruction executing end. The central processing end comprises a central processing unit, a communication module, a storage module and a power module. Each client side comprises a communication module, a control module, a display output module and a power module, wherein the communication module of the client side is connected with the communication module of the central processing end through a communication network. The data collecting end comprises a power module, a signal processing module, a

communication module and a **sensor** module. The instruction executing end comprises a communication module, a power module, an executor and a signal processing module. Information exchanging and sharing can be achieved among the client sides, and exchanging interaction of a common platform is achieved; internal electrical equipment and body building equipment can be conveniently operated and monitored through the client sides, the environment conditions can be detected and equipment data sharing and scientific analyzing are achieved.

Inventors

ZHU XINHUA

CHEN LIXIN

ZHU XINRONG

Latest standardized assignees - inventors removed

SHAOXING SMART DOVE INFORMATION TECHNOLOGY

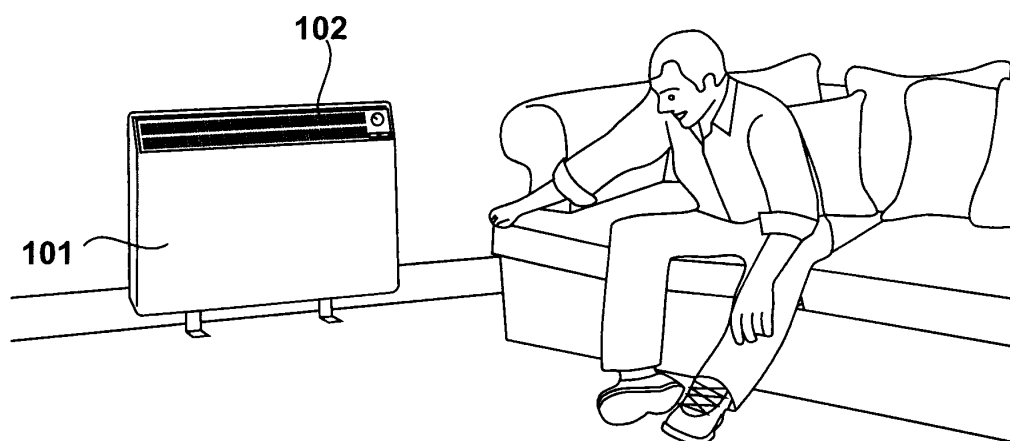
Family 13/50 - FAMPAT - ©Questel

Title

(US20140365016)

Controlling the Heating of Rooms

Images



Publication data including kind & date

GB201210104	D0	2012-07-25	GB201210104
GB2502813	A	2013-12-11	GB2502813
US20140365016	A1	2014-12-11	US20140365016
GB2502813	B	2015-11-18	GB2502813



Abstract

(US20140365016)

In a building, electric storage heaters (204) receive off peak electricity, generate thermal energy and store this thermal energy for later release. Each storage heater has a local control device (201) for controlling thermal energy generated during the reception of the off peak electricity. Each local control device receives a generation schedule from a building control device (207). Each building control device controls many local control devices and transmits information to a central control device (208). The central control device transmits generation schedules to many building control devices. Each schedule is constructed in response to room related data supplied by the local control devices, building related data supplied by the building control devices and regional data supplied to the central control device.

Inventors

HARTLEY MICHAEL JOHN

GAIR ANTHONY DAVID

Latest standardized assignees - inventors removed

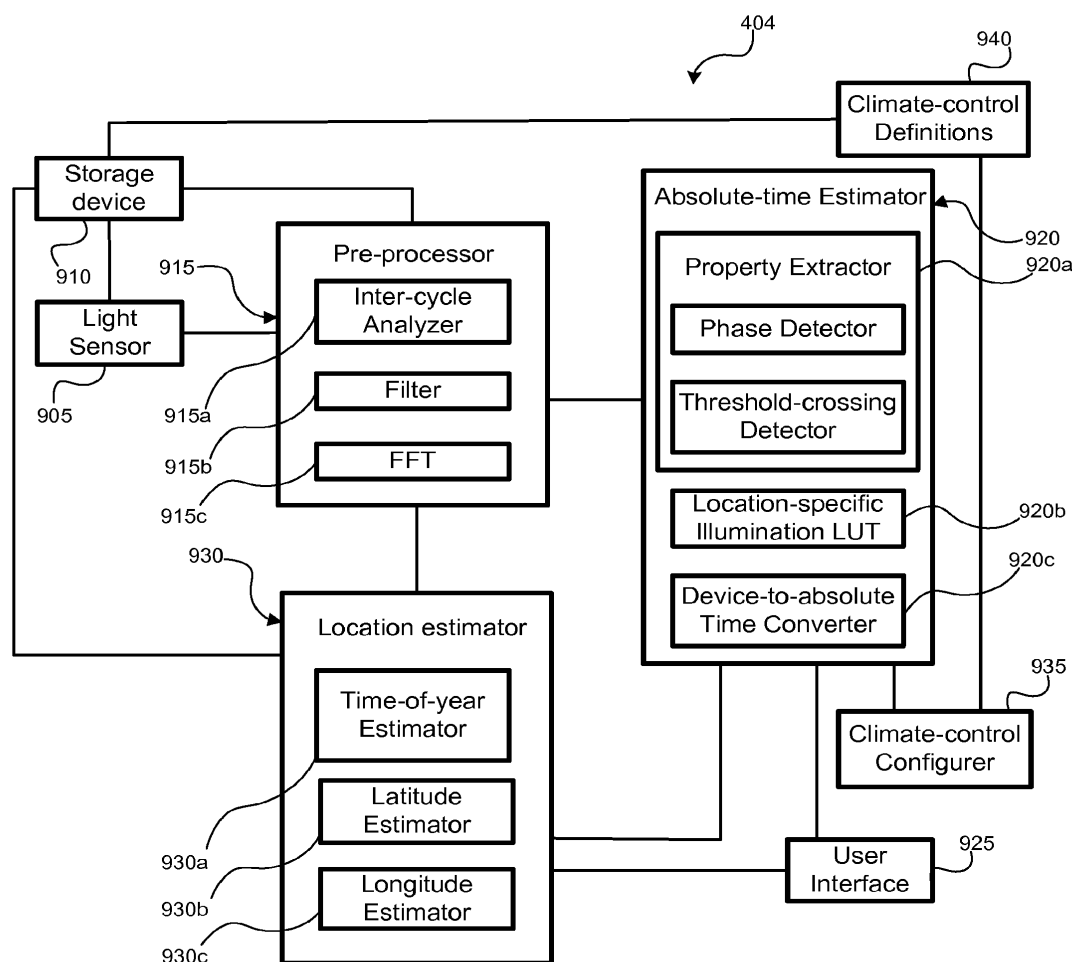
BMSHOME

Family 14/50 - FAMPAT - ©Questel

Title

(EP3382491)

Flexible functionality partitioning within intelligent-thermostat-controlled hvac systems

Images**Publication data including kind & date**

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US20120256009	A1	2012-10-11	US20120256009				
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TW201245653	A	2012-11-16	TW201245653				
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EP3382491	A3	2018-11-28	EP3382491				
US10151501	B2	2018-12-11	US10151501				

Abstract

(EP3382491)

The current application is directed to an intelligent-thermostat-controlled environmental-conditioning system in which computational tasks and subcomponents with associated intelligent-thermostat functionalities are distributed to one or more of concealed and visible portions of one or more intelligent thermostats and, in certain implementations, to one or more intermediate boxes. The intelligent thermostats are interconnected to intermediate boxes by wired and/or wireless interfaces and intelligent thermostats intercommunicate with one another by wireless communications. Wireless communications include communications through a local router and an ISP, 3G and 4G wireless communications through a mobile service provider. Components of the intelligent-thermostat-controlled environmental-conditioning system may also be connected by wireless communications to remote computing facilities.

Inventors

ROGERS MATTHEW LEE
 FADELL ANTHONY MICHAEL
 CHARLTON ERIK
 HONJO SHIGEFUMI
 MATSUOKA YOKY
 SLOO DAVID
 GUENETTE ISABEL

Latest standardized assignees - inventors removed

GOOGLE

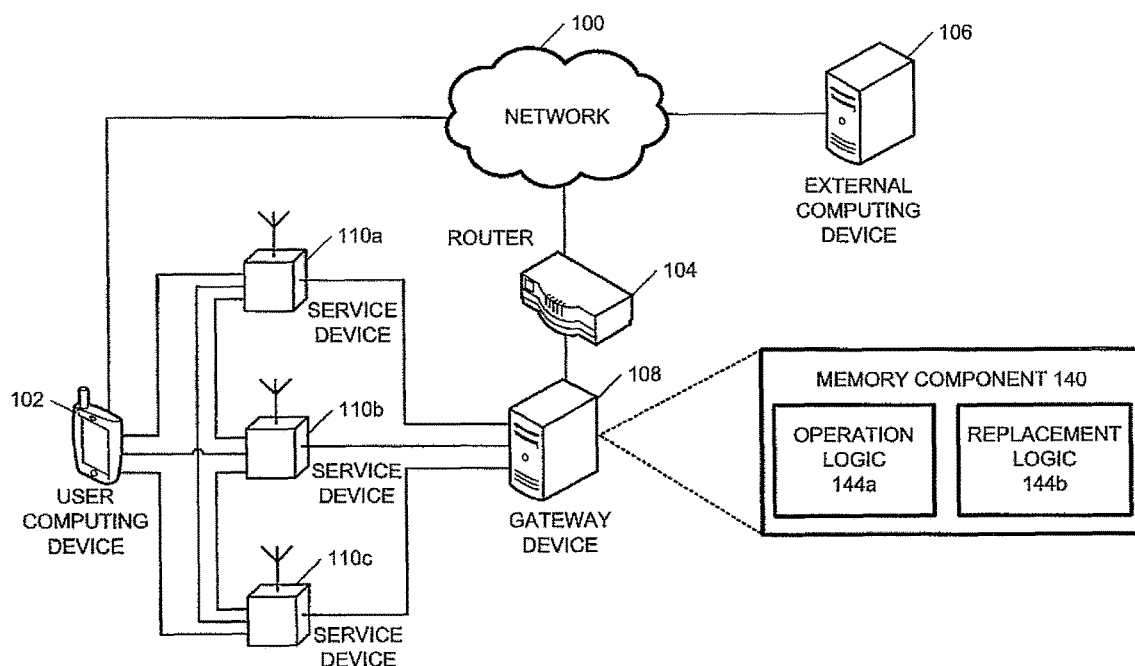
Family 15/50 - FAMPAT - ©Questel

Title

(EP2763706)

Air freshening network

Images



Publication data including kind & date

US20130082817	A1	2013-04-04	US20130082817
US20130081541	A1	2013-04-04	US20130081541
WO2013050506	A1	2013-04-11	WO2013050506
EP2763706	A1	2014-08-13	EP2763706
US20140322082	A1	2014-10-30	US20140322082
US20150088273	A1	2015-03-26	US20150088273
US9696702	B2	2017-07-04	US9696702



Abstract

(EP2763706)

An air freshening network in a home or office environment more energy efficient and intelligent than conventional devices. The network comprises a plurality of scent emitters (111) displaced relative to each other in the freshening network, at least one **sensor** responsive to a stimulus, a communication interface configured to communicate with said plurality of scent emitters; and wherein each of the plurality of scent emitters comprises an emission processor, wherein the emission processor is responsive to the **sensor**; configured to controlling scent emission from the respective scent emitter; and configured to make scent emission decisions based on information exchange among the scent emitters through said communication interface.

Inventors

HASENOEHRL ERIK JOHN

GRUENBACHER DANA PAUL

Latest standardized assignees - inventors removed

PROCTER & GAMBLE

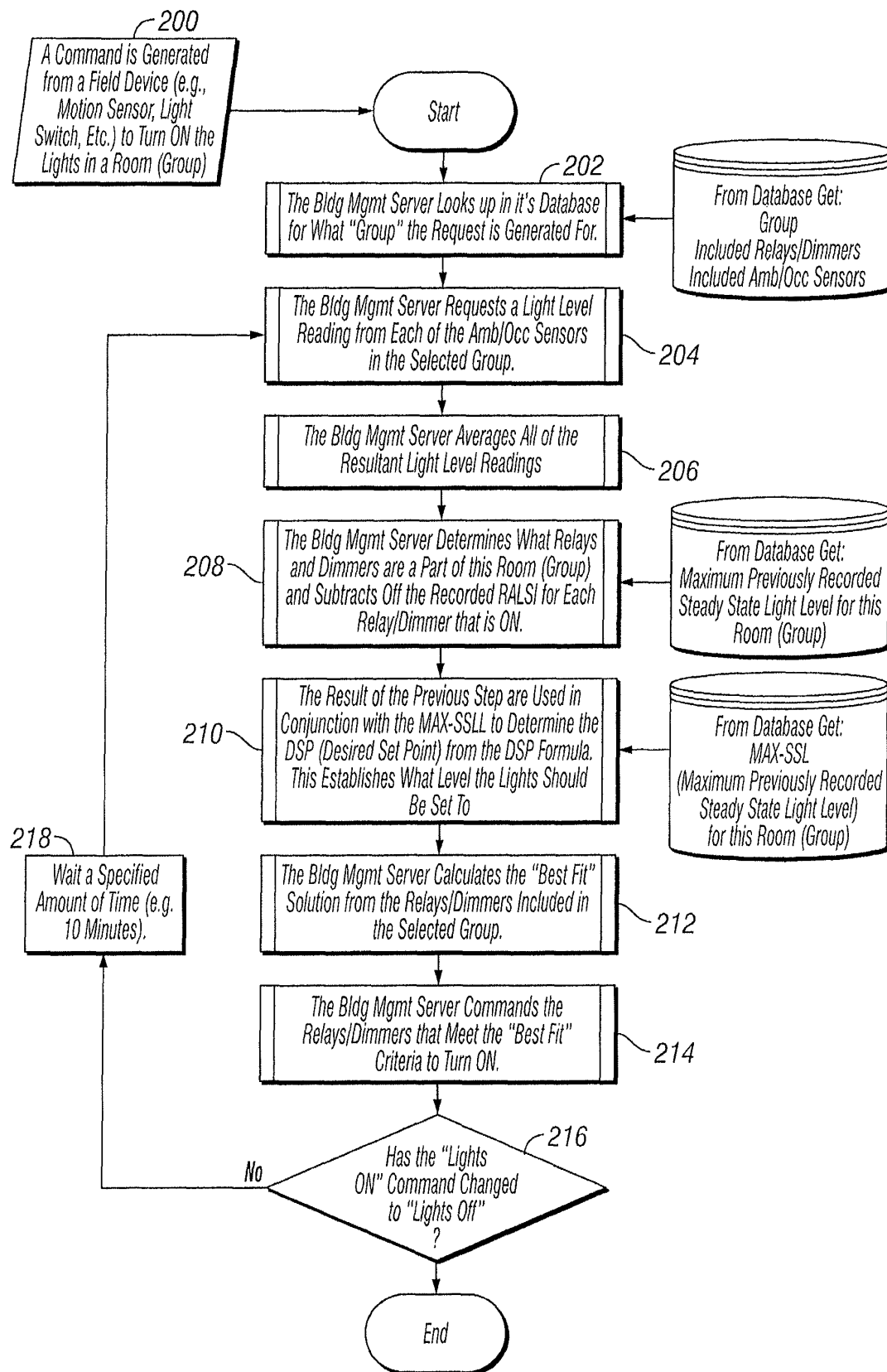
Family 16/50 - FAMPAT - ©Questel

Title

(WO2011123614)

Computerized light control system with light level profiling and method

Images



Publication data including kind & date

US20110178650	A1	2011-07-21	US20110178650
WO2011123614	A1	2011-10-06	WO2011123614
US20110245940	A1	2011-10-06	US20110245940
US20110245938	A1	2011-10-06	US20110245938
US8280558	B2	2012-10-02	US8280558
US9173267	B2	2015-10-27	US9173267
US20170347421	A1	2017-11-30	US20170347421



Abstract

(WO2011123614)

A computerized method for controlling one or more a lights in an area. The method may include establishing an electronic profile of lighting conditions in an area to be controlled and then controlling lighting conditions in the area based on the 5 profile. For example, the profile could be created by determining a respective influence on artificial light of each switch within the area to be controlled. This information could be used to turn on the appropriate switches that best match a set point for a light level in the area. In one embodiment, a configurable wall mount light switch could be used with the system. The switch includes a touch screen display, a transceiver and a programmable microcontroller. The microcontroller may be programmed to display a plurality of interface elements on the touch screen display for selection by a user to control one or more light fixtures.

Inventors

PICCO MICHAEL L

Latest standardized assignees - inventors removed

ESI VENTURES

Family 17/50 - FAMPAT - ©Questel

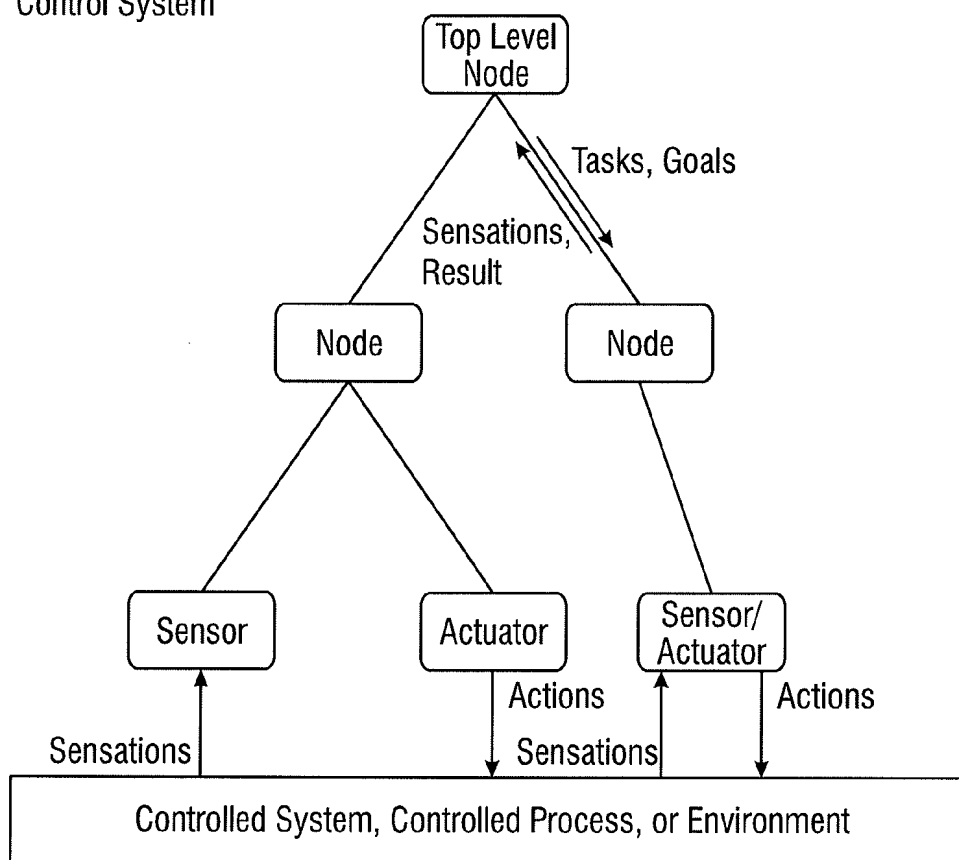
Title

(EP2831684)

Device control system

Images

Hierarchical
Control System

**Publication data including kind & date**[GB201205722](#)

D0 2012-05-16

[GB201205722](#)[WO2013144594](#)

A1 2013-10-03

[WO2013144594](#)

GB2501676	A	2013-11-06	GB2501676				
AU2013239529	A1	2014-10-02	AU2013239529				
EP2831684	A1	2015-02-04	EP2831684				
US20150051715	A1	2015-02-19	US20150051715				
JP2015518597	A	2015-07-02	JP2015518597				

Abstract

(EP2831684)

A heterarchical device control system is provided, comprising a plurality of computer-implemented cells. At least one cell is a control cell having software arranged to communicate instructions to the device being controlled in a language native to the device so as to perform a predetermined task. Also, at least one cell is a **sensor** cell configured to generate **sensor** data for input to the control cell to facilitate performance of the predetermined task. The **sensor** data might be environmentally-related data e.g. position of the device, speed of travel, angle of elevation etc. Messages sent between the cells are formed in accordance with a common format, which might be a high-level programming language, a low level programming language or a protocol. This arrangement provides a fault-tolerant, scalable and autonomous control system.

Inventors

REEDMAN IVAN

Latest standardized assignees - inventors removed

TORQUING TECHNOLOGY

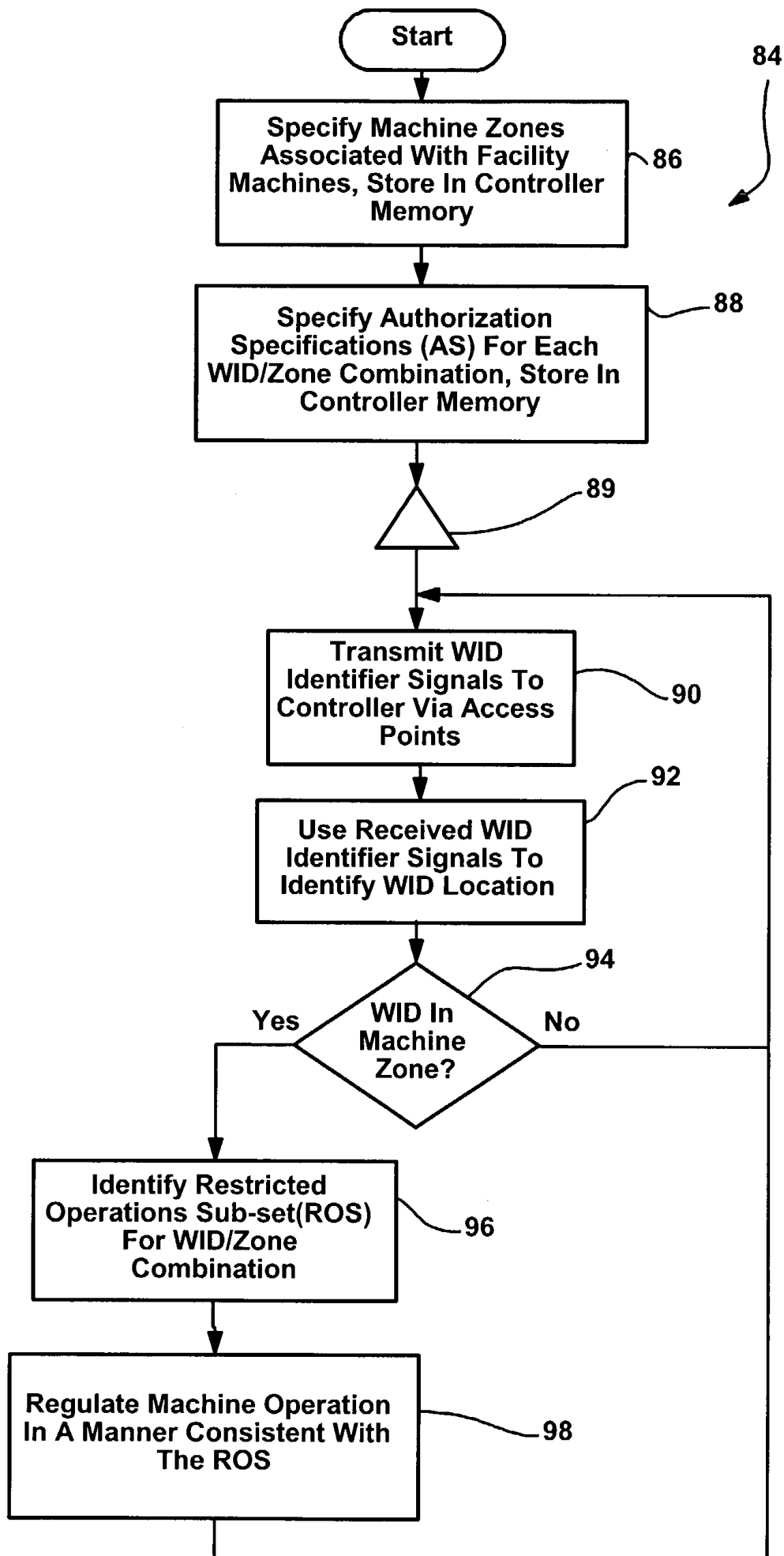
Family 18/50 - FAMPAT - ©Questel

Title

(EP1615088)

Position based machine control in an industrial automation environment

Images



Publication data including kind & date

US20040148039	A1	2004-07-29	US20040148039
WO2004068544	A2	2004-08-12	WO200468544
WO2004068544	A3	2005-03-17	WO200468544
KR20050084533	A	2005-08-26	KR20050084533
KR20050088496	A	2005-09-06	KR20050088496
EP1590710	A2	2005-11-02	EP1590710
EP1615088	A2	2006-01-11	EP1615088
EP1615088	A3	2006-07-05	EP1615088
US7272456	B2	2007-09-18	US7272456
EP1590710	B1	2013-03-27	EP1590710
EP1615088	B1	2015-03-11	EP1615088

**Abstract**

(EP1615088)

A method and apparatus for controlling machine operations in an automated industrial facility including at least one machine, the method for restricting machine operation when a wireless information device associated with a facility user is within a restricted facility location and comprising the steps providing at least one wireless information device, determining if the at least one wireless information device is within a restricted facility location and, where the at least one wireless information device is within a restricted facility location, regulating operation of the at least one machine.

Inventors

BRANDT DAVID D

FARCHMIN DAVID W

VASKO DAVID ALAN

Latest standardized assignees - inventors removed

XENOGENIC DEVELOPMENT LIABILITY

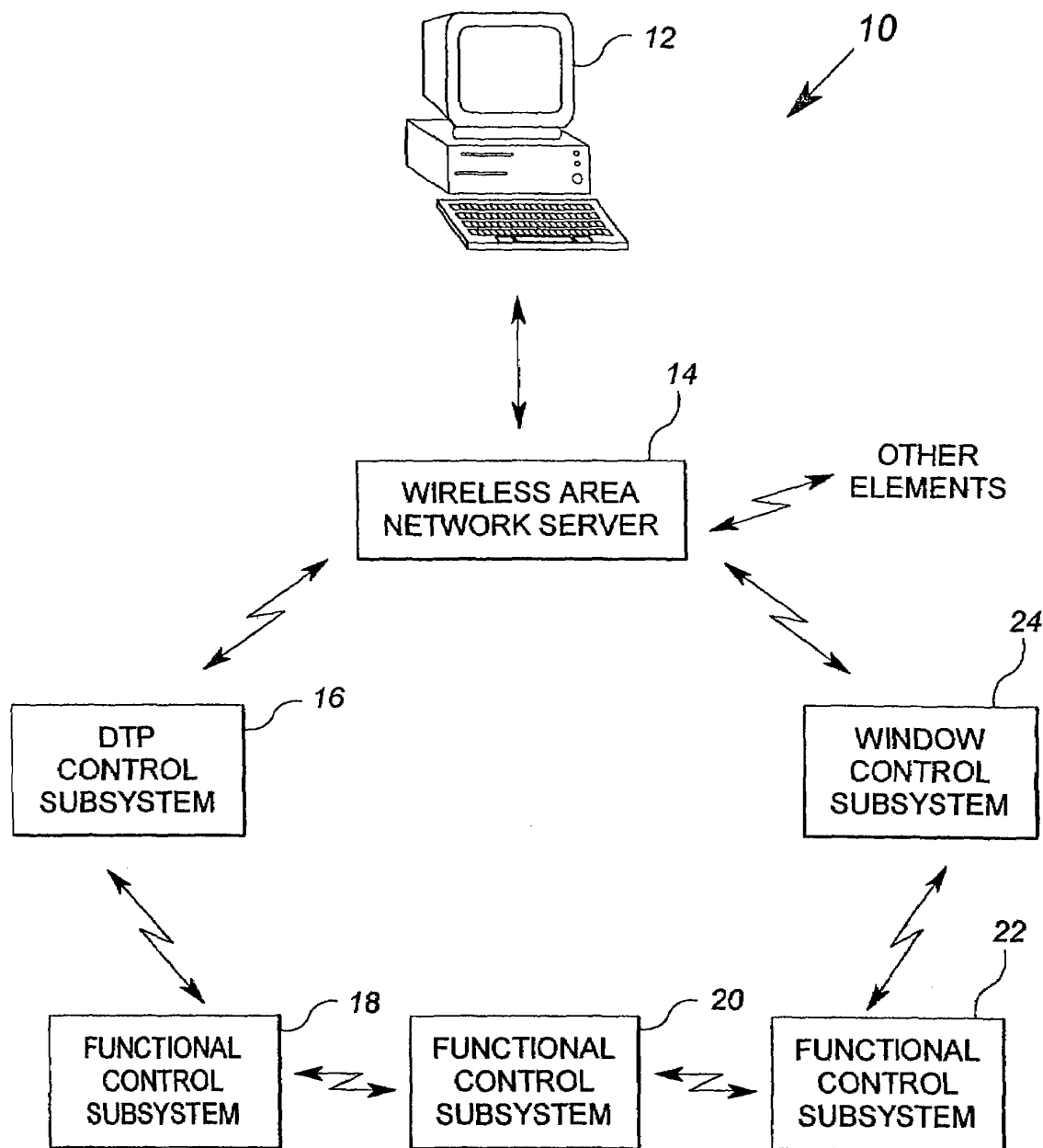
Family 19/50 - FAMPAT - ©Questel

Title

(EP1707890)

MEMS based building environment control system and control method therefor

Images



Publication data including kind & date

US20050252984	A1	2005-11-17	US20050252984
US20050258260	A1	2005-11-24	US20050258260
US20050268629	A1	2005-12-08	US20050268629
US20050275525	A1	2005-12-15	US20050275525
US20050278047	A1	2005-12-15	US20050278047
EP1707890	A1	2006-10-04	EP1707890
US7383148	B2	2008-06-03	US7383148
EP1707890	B1	2008-08-13	EP1707890
AT404827	T	2008-08-15	ATE404827
DE602005008904	D1	2008-09-25	DE602005008904
US7512450	B2	2009-03-31	US7512450
US7548833	B2	2009-06-16	US7548833
US7610910	B2	2009-11-03	US7610910
US7665670	B2	2010-02-23	US7665670



Abstract

(EP1707890)

An integrated distributed control system incorporates a plurality of micro electromechanical system (MEMS) modules formed into a functional network which is in turn integrated into a management network. The functional network is configured to sense a condition such as an operating characteristic of a machine or the **temperature** within an area and to provide control functions to effect changes in the condition.

Inventors

AHMED OSMAN

Latest standardized assignees - inventors removed

SIEMENS INDUSTRY

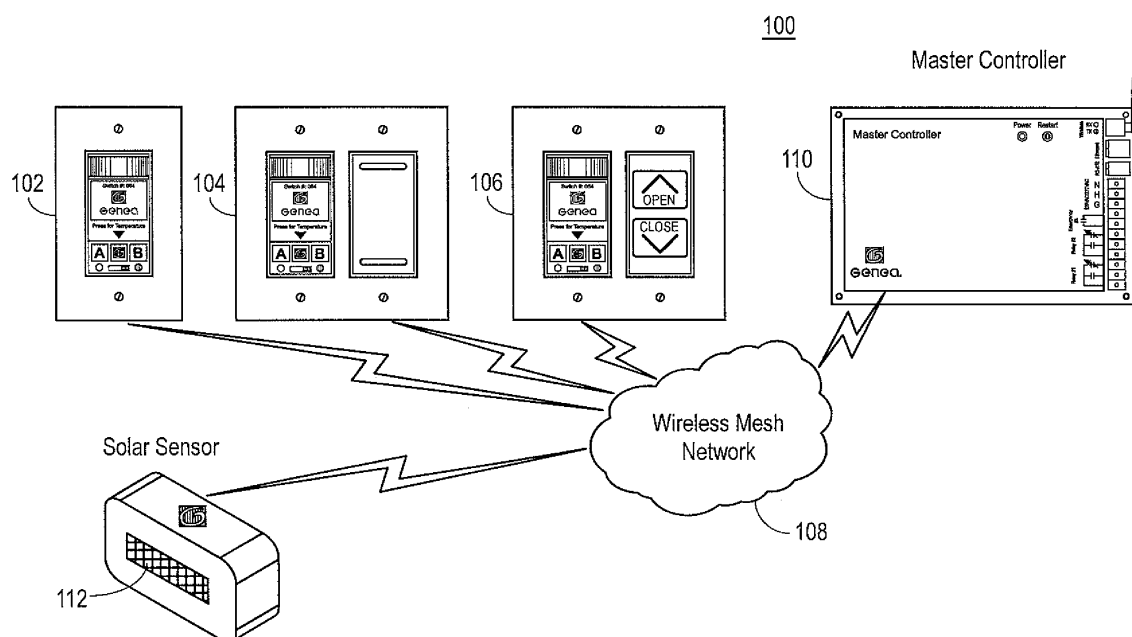
Family 20/50 - FAMPAT - ©Questel

Title

(EP2127489)

Building optimization system and lighting switch

Images



Publication data including kind & date

WO2008100641	A1	2008-08-21	WO2008100641
US20080258633	A1	2008-10-23	US20080258633
EP2127489	A1	2009-12-02	EP2127489
CN101641998	A	2010-02-03	CN101641998
JP2010519685	A	2010-06-03	JP2010519685



Abstract

(EP2127489)

A building optimization system for optimizing an environment of a building is disclosed. The building optimization system includes a number of building optimization switches for controlling the environment of a corresponding space in a building according to a plurality of operation modes. The environment at least includes first and second lighting banks. Each building optimization switch includes first and second lighting controls for manually operating corresponding first and second lighting banks, and a wireless transceiver for receiving input signals from and transmitting environment data to a master controller via a wireless communication network. Each building optimization switch further includes logic responsive to input signals from the first and second lighting controls, and/or the master controller via the wireless receiver for controlling the first and second lighting banks, and a graphical display screen adapted to display a graphical user interface by which an occupant of the building can program the building optimization switch and receive data related to each of the plurality of operation

modes.

Inventors

VOYSEY KEITH

Latest standardized assignees - inventors removed

GENEA ENERGY

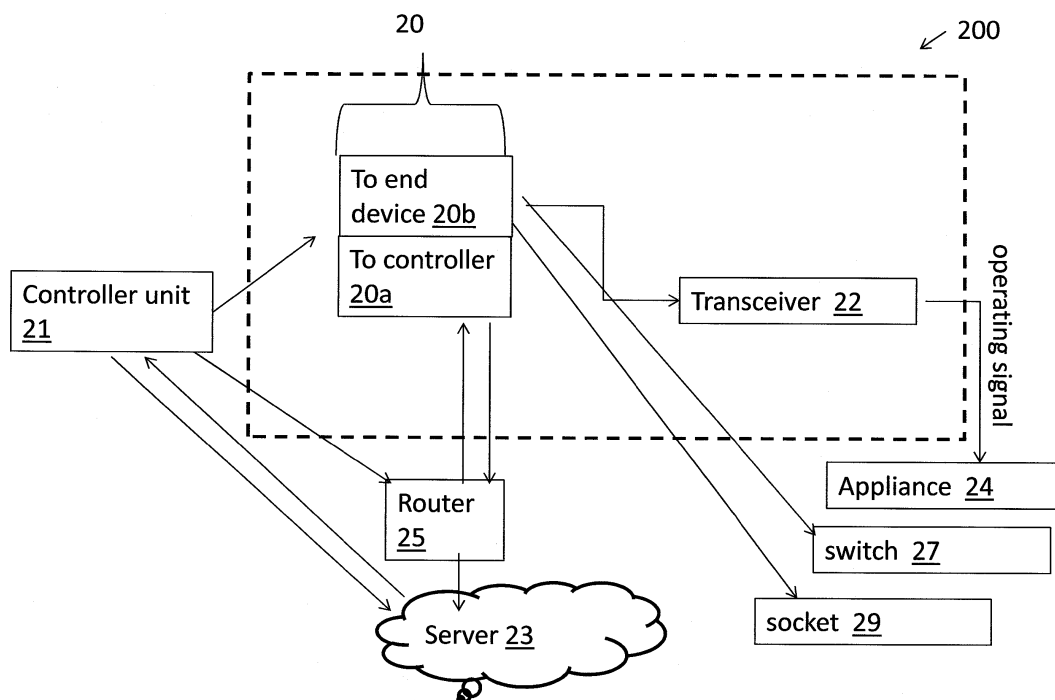
Family 21/50 - FAMPAT - ©Questel

Title

(WO201427349)

System and method for remote control of home appliances without infrastructure changes

Images



Publication data including kind & date

WO2014027349	A1	2014-02-20	WO201427349
IL237165	A	2015-04-30	IL-237165
US20150220075	A1	2015-08-06	US20150220075



Abstract

(WO201427349)

The present invention relates to a system and method for controlling a plurality of appliances, which may be part of a smart home or environment. The method and system according to embodiments of the invention enable using a single easily programmable controller to control a plurality of appliances, each appliance using its own pre-existing control application, with no changes of infrastructure required. Additionally, a single controller, according to embodiments of the invention may enable remote control of appliances over a wide area.

Inventors

ZIV AMICHAEL

Latest standardized assignees - inventors removed

SWITCHBEE

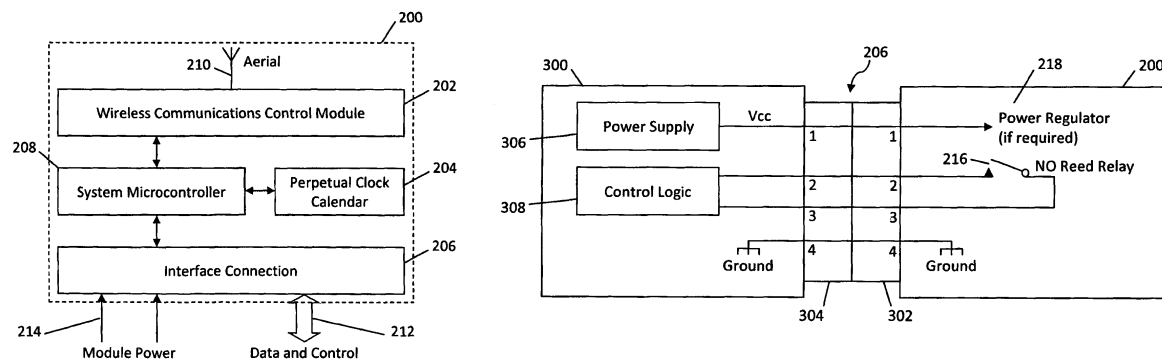
Family 22/50 - FAMPAT - ©Questel

Title

(EP2845437)

Wireless power, light and automation control with ambient light and proximity detection

Images



Publication data including kind & date

CA2890612	A1	2013-05-16	CA2890612
WO2013067569	A1	2013-05-16	WO201367569
AU2013204478	A1	2013-07-25	AU2013204478
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US20140244044	A1	2014-08-28	US20140244044
EP2777366	A1	2014-09-17	EP2777366
BR112014027346	A1	2014-12-02	BR112014027346
JP2015501630	A	2015-01-15	JP2015501630
AU2013203392	B2	2015-01-22	AU2013203392
KR20150016526	A	2015-02-12	KR20150016526
US20150056979	A1	2015-02-26	US20150056979
CN104412245	A	2015-03-11	CN104412245
EP2845437	A1	2015-03-11	EP2845437
EP2845109	A1	2015-03-11	EP2845109
US20150084748	A1	2015-03-26	US20150084748
AU2013204671	B2	2015-04-30	AU2013204671
AU2013203922	B2	2015-05-07	AU2013203922
AU2013204345	B2	2015-07-02	AU2013204345
AU2013204478	B2	2015-07-02	AU2013204478
IN9374DEN2014	A	2015-07-17	IN2014DN09374
JP2015524177	A	2015-08-20	JP2015524177
HK1202211	A1	2015-09-18	HK1202211
EP2777366	A4	2015-11-25	EP2777366
EP2845437	A4	2015-12-23	EP2845437



EP2845109	A4	2015-12-23	EP2845109				
US9319234	B2	2016-04-19	US9319234				
IN4388/DELNP/2014	A	2016-05-13	IN2014DN04388				
US20160232783	A1	2016-08-11	US20160232783				
CN103959911	B	2016-11-23	CN103959911B				
US9589459	B2	2017-03-07	US9589459				
US9590427	B2	2017-03-07	US9590427				
CN106533853	A	2017-03-22	CN106533853				
BR112014010970	A2	2017-06-06	BR112014010970				
BR112014027346	A2	2017-06-27	BR112014027346				
US20170195131	A1	2017-07-06	US20170195131				
JP6175065	B2	2017-08-02	JP6175065				
US9762408	B2	2017-09-12	US9762408				
JP6219370	B2	2017-10-25	JP6219370				
JP2017200234	A	2017-11-02	JP2017200234				
CN104412245	B	2017-12-15	CN104412245B				
US9923376	B2	2018-03-20	US9923376				
US20180212433	A1	2018-07-26	US20180212433				

Abstract

(EP2845437)

A device and method for remotely controlling the supply of electricity to an electrical apparatus or system. The device (200) includes a wireless communications control module (202) configured for peer-to-peer communications, a microcontroller (208), and a **sensor** module (206) configured to detect at least one of light or **proximity**. The electrical supply is varied based on a command received through the wireless communications control module that may include specifying a threshold where data received from the **sensor** module that matches a predetermined threshold triggers a variance in the electrical supply.

Inventors

DAVIS BENJAMIN

DAVIS BARRIE

Latest standardized assignees - inventors removed

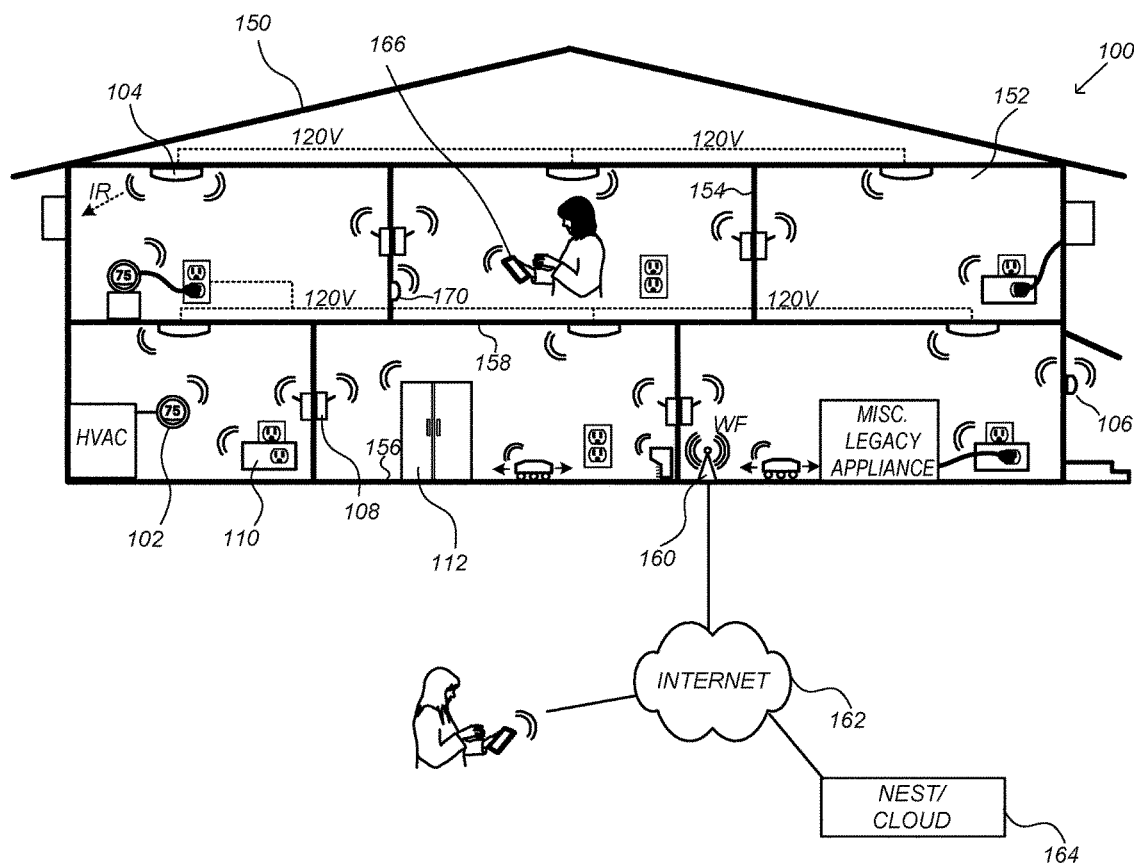
KORTEK INDUSTRY

Family 23/50 - FAMPAT - ©Questel

Title

(EP3055851)

Smart-home hazard **detector** providing context specific features and/or pre-alarm configurations**Images**



Publication data including kind & date

US8988232	B1	2015-03-24	US8988232
US20150100167	A1	2015-04-09	US20150100167
US20150097687	A1	2015-04-09	US20150097687
US20150097681	A1	2015-04-09	US20150097681
US20150097686	A1	2015-04-09	US20150097686
US20150097688	A1	2015-04-09	US20150097688
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US20150097678	A1	2015-04-09	US20150097678
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CA2926463	A1	2015-04-16	CA2926463
CA2926442	A1	2015-04-16	CA2926442
WO2015054241	A2	2015-04-16	WO201554241
WO2015054278	A1	2015-04-16	WO201554278
WO2015054288	A1	2015-04-16	WO201554288
WO2015054225	A1	2015-04-16	WO201554225



US9019111	B1	2015-04-28	US9019111				
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WO2015054241	A3	2015-06-11	WO201554241				
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US9235976	B2	2016-01-12	US9235976				
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US20160125730	A1	2016-05-05	US20160125730				
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US20160232779	A1	2016-08-11	US20160232779				
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EP3055842	A1	2016-08-17	EP3055842				
US9430933	B2	2016-08-30	US9430933				
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US9489829	B2	2016-11-08	US9489829				
US20160335884	A1	2016-11-17	US20160335884				
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US20160371969	A1	2016-12-22	US20160371969				
JP2016541040	A	2016-12-28	JP2016541040				
US9552718	B2	2017-01-24	US9552718				
EP3055851	A4	2017-03-29	EP3055851				
US20170092115	A1	2017-03-30	US20170092115				
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US9626858	B2	2017-04-18	US9626858				
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US9652976	B2	2017-05-16	US9652976				
US20170162007	A1	2017-06-08	US20170162007				
US20170181245	A1	2017-06-22	US20170181245				
US20170177944	A1	2017-06-22	US20170177944				
US9691258	B2	2017-06-27	US9691258				
EP3055844	A4	2017-07-26	EP3055844				
EP3055846	A4	2017-08-16	EP3055846				
EP3055842	A4	2017-08-23	EP3055842				
US20170263112	A1	2017-09-14	US20170263112				
US9836953	B2	2017-12-05	US9836953				
US20170352259	A1	2017-12-07	US20170352259				
US9900958	B2	2018-02-20	US9900958				
US9905122	B2	2018-02-27	US9905122				

US20180110106	A1	2018-04-19	US20180110106				
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US20180158315	A1	2018-06-07	US20180158315				
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CN105793904	B	2018-08-31	CN105793904B				
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US20180308347	A1	2018-10-25	US20180308347				
US10121364	B2	2018-11-06	US10121364				
CN105874520	B	2018-11-06	CN105874520B				
US20180322745	A1	2018-11-08	US20180322745				
US10140849	B2	2018-11-27	US10140849				

Abstract

(EP3055851)

A particular smart hazard **detector** may itself function as a guide during a process of installation of the same at an installation location. Additionally, the installation location of the particular smart hazard **detector** may play a central role in how various settings of the smart hazard **detector** are defined and adjusted over time.

Inventors

SLOO DAVID

WEBB NICK

MATSUOKA YOKY

FADELL ANTHONY M

ROGERS MATTHEW L

PETERSON KEVIN

DIXON MICHAEL

Latest standardized assignees - inventors removed

GOOGLE

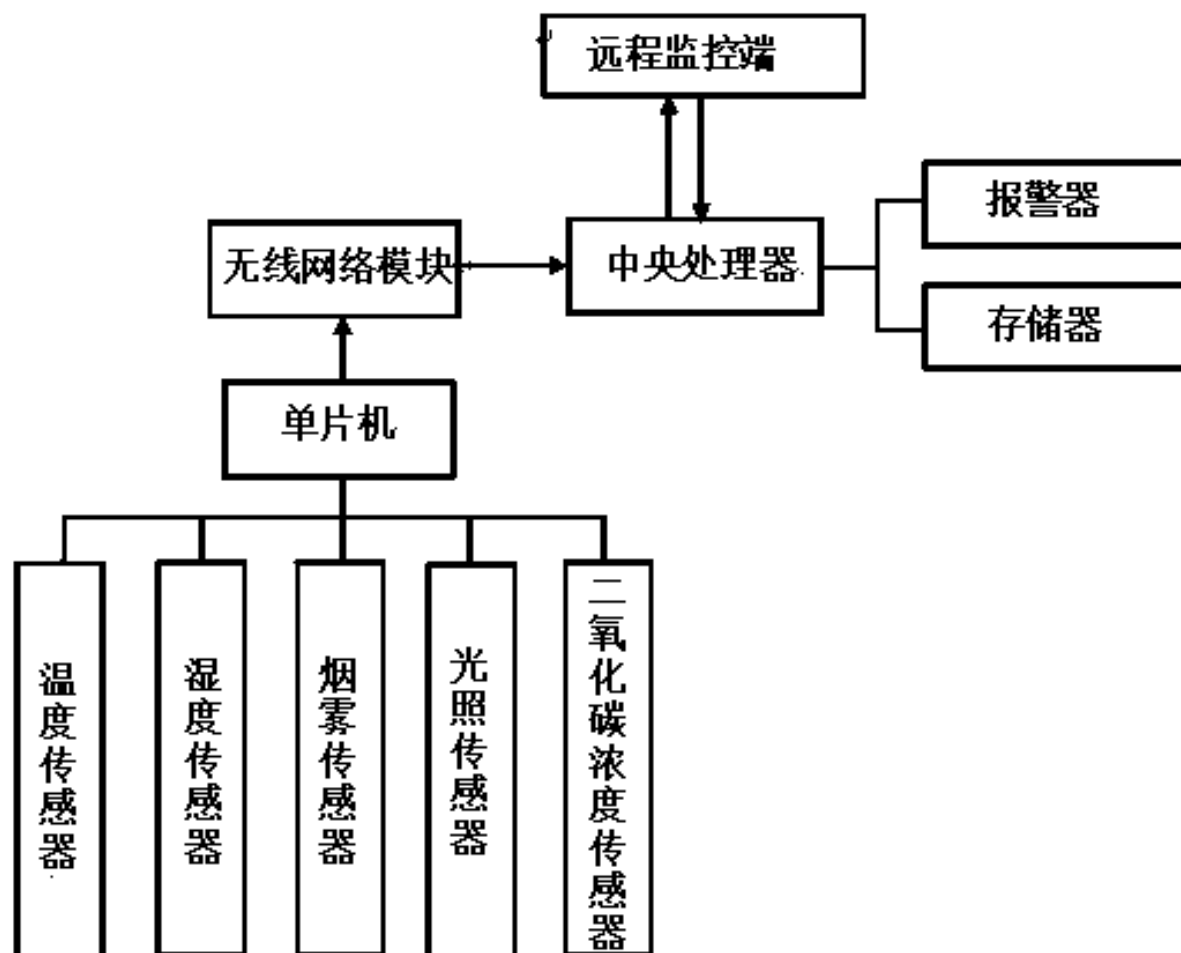
Family 24/50 - FAMPAT - ©Questel

Title

(CN104317223)

Intelligent indoor environment monitoring system

Images



Publication data including kind & date

CN104317223

A

2015-01-28

CN104317223



Abstract

(CN104317223)

The invention provides an intelligent indoor environment monitoring system. The Intelligent indoor environment monitoring system comprises a remote control terminal, a CPU (Central Processing Unit), a wireless network module and a single-chip computer, wherein the remote control terminal is connected with the CPU, the CPU is connected with the single-chip computer through the wireless network module, the single-chip computer is connected with a **temperature sensor**, a **humidity sensor**, a smoke transducer, an illumination **sensor** and a CO₂ (Carbon Dioxide) **sensor** and the CPU is further connected with an alarm, so as to realize remote real-time monitoring and implementation and convenient use.

Inventors

CHEN YULONG

LIU RUIJUN

Latest standardized assignees - inventors removed

GUANGDONG HUI LIPU ROAD & BRIDGE INFORMATION TECHNOLOGY

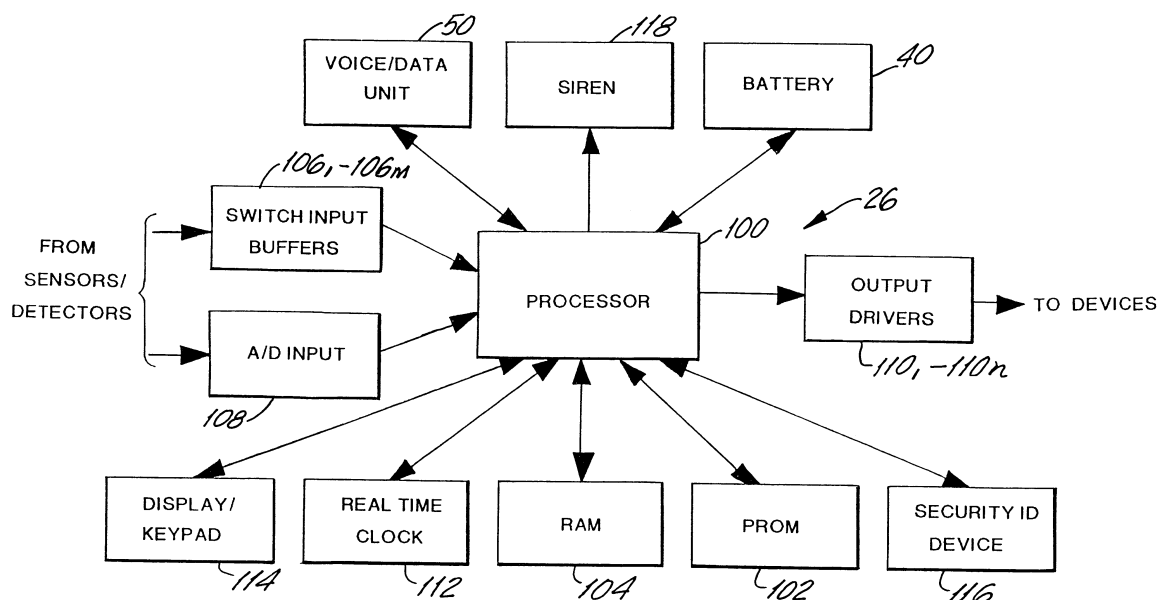
Family 25/50 - FAMPAT - ©Questel

Title

(US6552647)

Building environment monitor and control system

Images

**Publication data including kind & date**

US6552647

B1 2003-04-22 US6552647

**Abstract**

(US6552647)

A monitor and control system that responds to alarm signals representing different hazardous conditions in an environment having a number of utility service supply lines, such as a home residence. One or more **sensors** coupled to the processor are each associated with one or more of the service supply lines. Each **sensor** produces an alarm signal in response to a hazardous condition attributable to an associated supply line. Each associated supply line is provided with a control device that is coupled to an output of the processor, and the processor is configured to produce one or more output signals in response to an alarm signal at a given input. Each control device is arranged to disable its associated supply line with respect to a sensed hazardous condition in response to a corresponding output signal from the processor.

Inventors

THIESSEN RICKY H

FAY THOMAS J

DEMARINIS RICHARD L

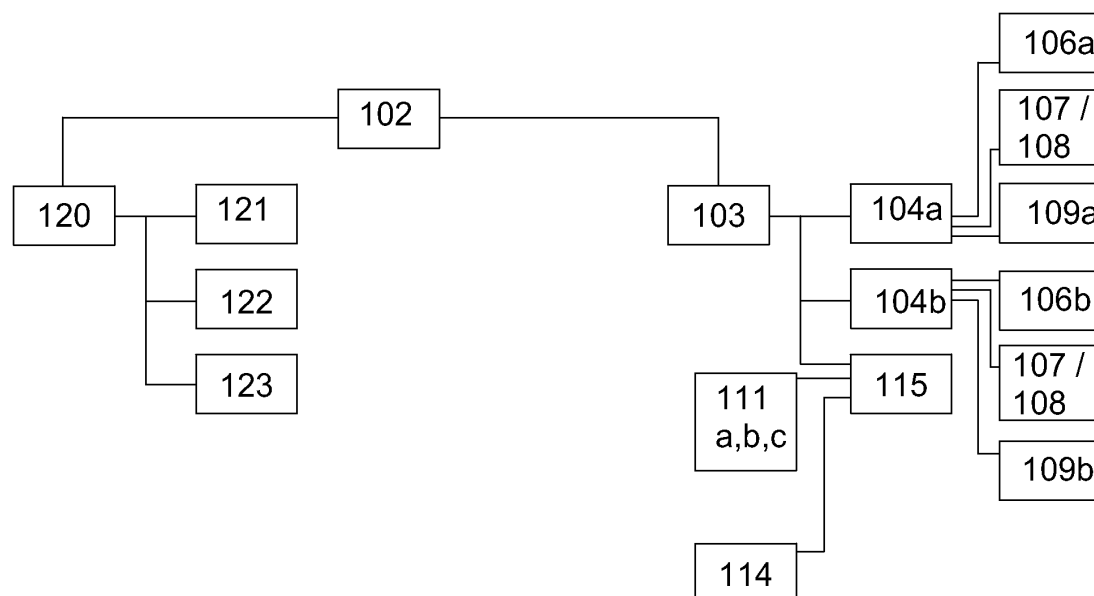
Family 26/50 - FAMPAT - ©Questel

Title

(US7565225)

Environment, lighting and security control system

Images

**Publication data including kind & date**

CN101344785	A	2009-01-14	CN101344785
US20090018673	A1	2009-01-15	US20090018673
US7565225	B2	2009-07-21	US7565225

**Abstract**

(US7565225)

The present invention provides an environment measurement monitoring and response system. The present invention provides a method, system and program for managing multiple environmental systems in retail store locations geographically remote from each other.

Inventors

DUSHANE STEVEN
 GODWIN CRAIG
 TUDHOPE STEPHEN
 RUSSO RICHARD
 ORANSEL MUSTAFA

Latest standardized assignees - inventors removed

VENSTAR

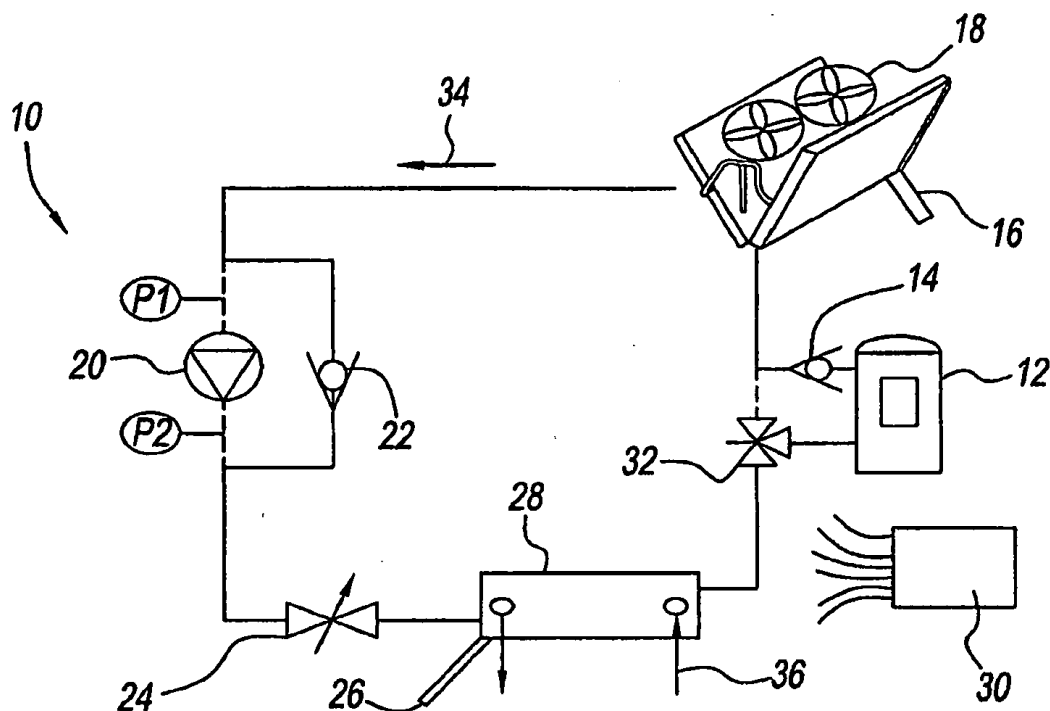
Family 27/50 - FAMPAT - ©Questel

Title

(EP2102569)

Methods and systems for controlling an air conditioning system operating in free cooling mode

Images



Publication data including kind & date

WO2008079138	A1	2008-07-03	WO200879138
EP2102569	A1	2009-09-23	EP2102569
US20100070082	A1	2010-03-18	US20100070082
IN4229/CHENP/2009	A	2010-06-11	IN2009CN04229
CN101918776	A	2010-12-15	CN101918776
CN101918776	B	2012-07-11	CN101918776B
EP2102569	A4	2013-03-13	EP2102569
EP2102569	B1	2017-06-28	EP2102569
ES2632639	T3	2017-09-14	ES2632639



Abstract

(EP2102569)

A method of controlling an air conditioning system operating in a free cooling mode, including, measuring a first **temperature** of outside ambient air proximate to a condenser, measuring a second **temperature** of a working fluid exiting an evaporator, calculating a **temperature** difference between the first and second **temperatures**, comparing the **temperature** difference to a pre-determined optimal value, and adjusting an energy requirement of the air conditioning system based on the **temperature** difference.

Inventors

CHESSEL JULIEN

DELPECH PIERRE

GOUX JEAN-PHILIPPE

Latest standardized assignees - inventors removed

CARRIER

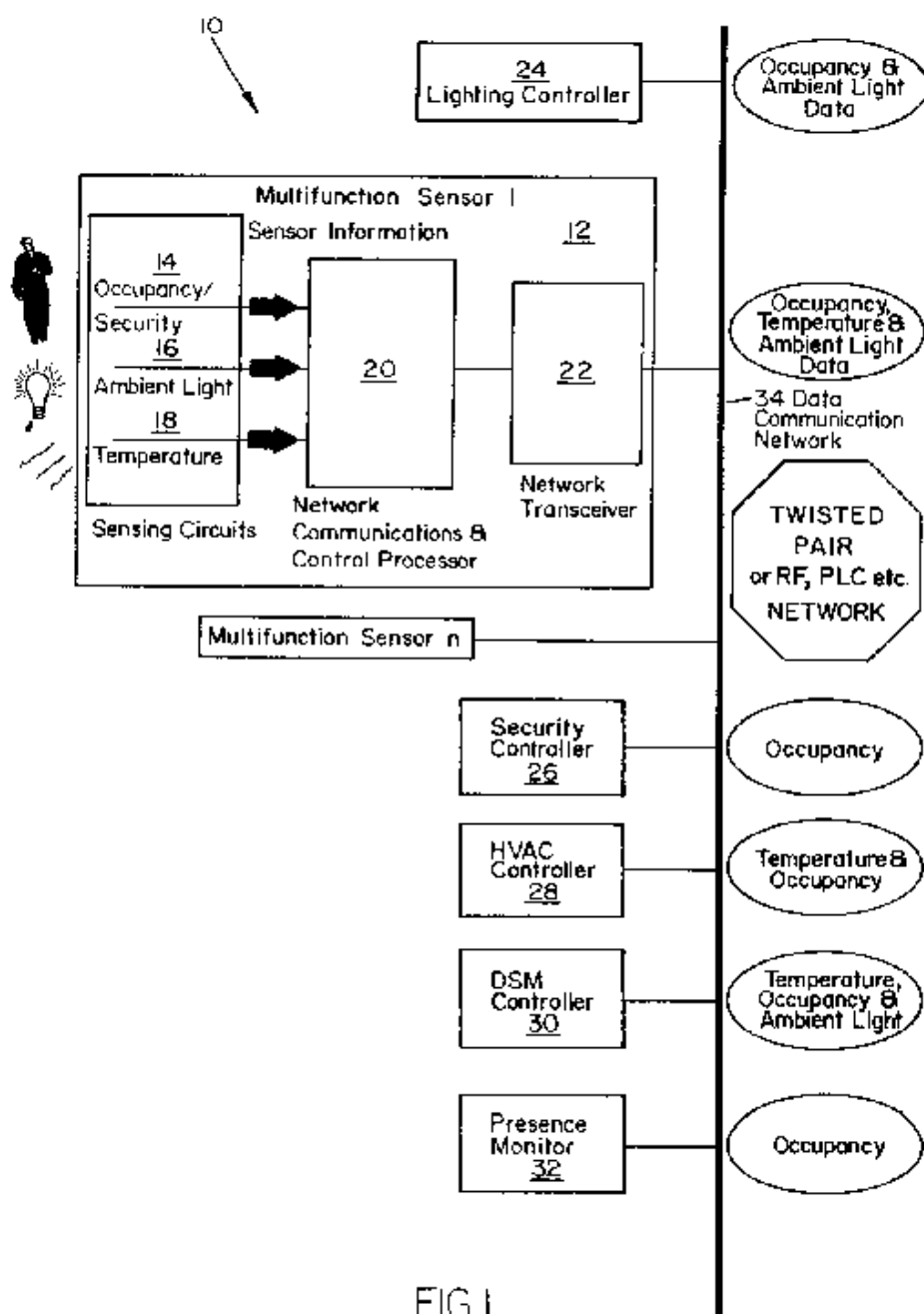
Family 28/50 - FAMPAT - ©Questel

Title

(EP-838791)

Multifunction **sensor** and network **sensor** system

Images



Publication data including kind & date

CA2218581	A1	1998-04-25	CA2218581
EP0838791	A2	1998-04-29	EP-838791
MX9707825	A	1998-04-30	MX9707825
US5971597	A	1999-10-26	US5971597
EP0838791	A3	1999-11-17	EP-838791
US6285912	B1	2001-09-04	US6285912
CA2218581	C	2003-06-24	CA2218581



Abstract

(EP-838791)

A multifunction **sensor** (12) provides a plurality of parameter **sensors** (14,16,18) in one **sensor** module which can interface

US20140085093	A1	2014-03-27	US20140085093				
US20140085092	A1	2014-03-27	US20140085092				
US20140084165	A1	2014-03-27	US20140084165				
CA2906702	A1	2014-09-18	CA2906702				
WO2014143936	A1	2014-09-18	WO2014143936				
CA2907132	A1	2014-09-25	CA2907132				
CA2906492	A1	2014-09-25	CA2906492				
WO2014150667	A1	2014-09-25	WO2014150667				
WO2014150284	A1	2014-09-25	WO2014150284				
US8994540	B2	2015-03-31	US8994540				
US9007222	B2	2015-04-14	US9007222				
US9046414	B2	2015-06-02	US9046414				
US20150170489	A1	2015-06-18	US20150170489				
US20150194038	A1	2015-07-09	US20150194038				
EP2898485	A1	2015-07-29	EP2898485				
CN104813378	A	2015-07-29	CN104813378				
US20150228419	A1	2015-08-13	US20150228419				
US20150260581	A1	2015-09-17	US20150260581				
JP2015532075	A	2015-11-05	JP2015532075				
EP2972113	A1	2016-01-20	EP2972113				
EP2898485	A4	2016-03-30	EP2898485				
US9349273	B2	2016-05-24	US9349273				
WO2016109839	A1	2016-07-07	WO2016109839				
WO2016109838	A1	2016-07-07	WO2016109838				
JP2016522390	A	2016-07-28	JP2016522390				
US9460600	B2	2016-10-04	US9460600				
CN205642411	U	2016-10-12	CN205642411U				
US20160358441	A1	2016-12-08	US20160358441				
US9568370	B2	2017-02-14	US9568370				
EP2972113	A4	2017-03-08	EP2972113				
CN104813378	B	2017-06-16	CN104813378B				
CN107255523	A	2017-10-17	CN107255523				
JP2017191612	A	2017-10-19	JP2017191612				
US9875631	B2	2018-01-23	US9875631				
US9964447	B2	2018-05-08	US9964447				
US20180217003	A1	2018-08-02	US20180217003				
US20180252589	A1	2018-09-06	US20180252589				
US20180252588	A1	2018-09-06	US20180252588				

Abstract

(EP2972113)

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.

Inventors

FADELL ANTHONY M

SCHMIDT MATHIAS

MITTLEMAN ADAM

FILSON JOHN BENJAMIN

GOLDENSON ANDREW

Latest standardized assignees - inventors removed

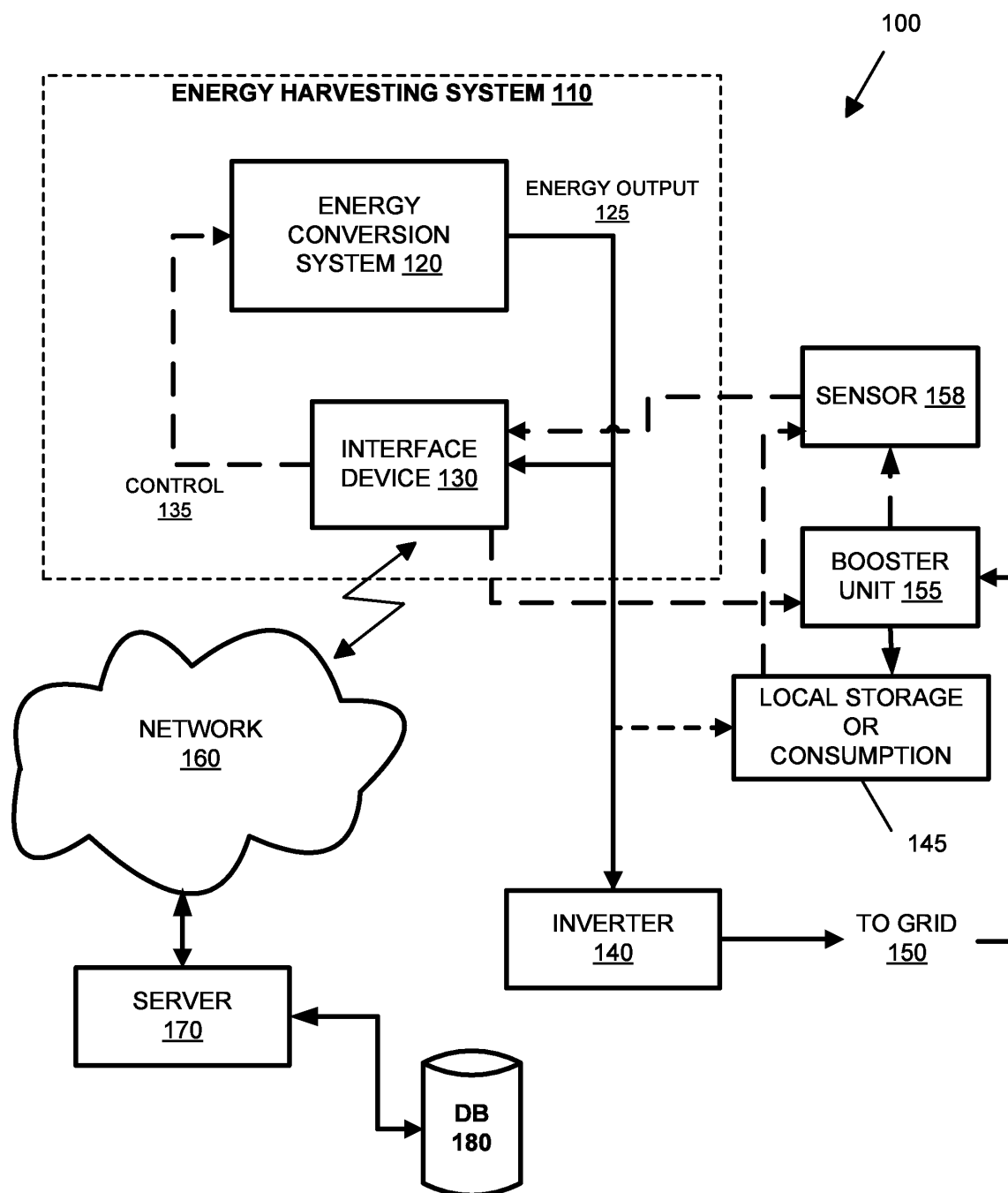
GOOGLE

Family 30/50 - FAMPAT - ©Questel

Title

(EP2769151)

Interface device for an energy harvesting system

Images**Publication data including kind & date**[WO2013053014](#)

A1 2013-04-18

WO201353014

[AU2012323774](#)

A1 2013-10-24

AU2012323774



US20140236366	A1	2014-08-21	US20140236366				
EP2769151	A1	2014-08-27	EP2769151				
CN104053957	A	2014-09-17	CN104053957				
JP2014535194	A	2014-12-25	JP2014535194				
IN2741CHN2014	A	2015-07-03	IN2014CN02741				
EP2769151	A4	2015-08-19	EP2769151				
ZA201307585	B	2015-09-30	ZA201307585				
AU2016200368	A1	2016-02-11	AU2016200368				
US9952568	B2	2018-04-24	US9952568				
AU2016200368	B2	2018-05-31	AU2016200368				

Abstract

(EP2769151)

Described embodiments relate generally to energy harvesting systems and interface devices for such systems. In particular, such energy harvesting systems may be configured to harvest kinetic energy from the environment, such as wind, hydro, wave or geothermal energy or to harvest electromagnetic energy like solar radiation. Embodiments also relate to systems and methods to facilitate remote monitoring and/or control of a system comprising an interface device.

Inventors

LIVADARAS SPYRIDON

HARRIDGE EVAN NEIL

KALLAMKOTE SHAVAJ

Latest standardized assignees - inventors removed

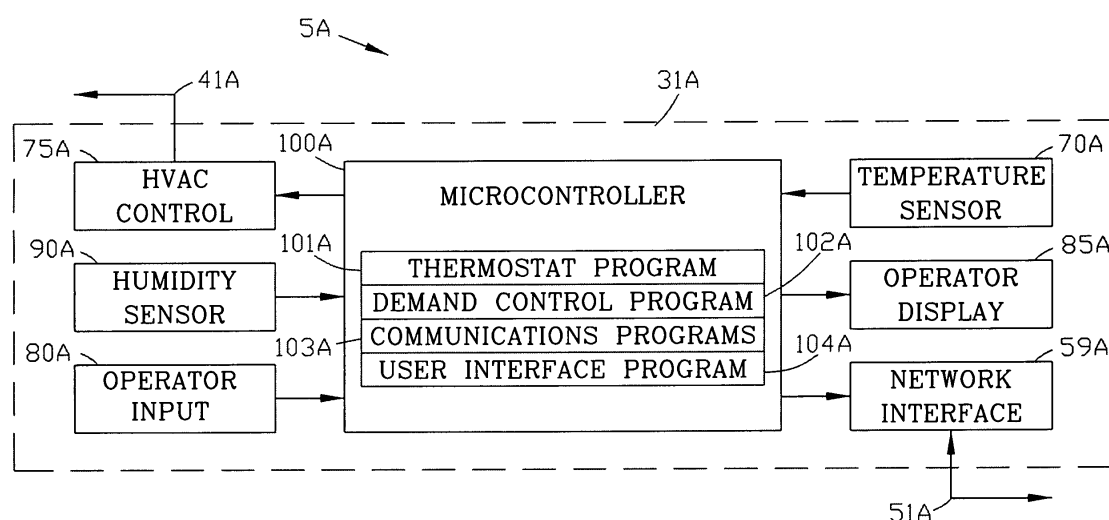
CARBONTRACK

Family 31/50 - FAMPAT - ©Questel

Title

(US7809472)

Control system for multiple heating, ventilation and air conditioning units

Images**Publication data including kind & date**[US7809472](#) B1 2010-10-05 US7809472**Abstract**

(US7809472)

An environmental control system is disclosed for controlling the environment within a plurality of zones within a building

with a plurality of heating, ventilating and air conditioning units. The environmental control system comprises a plurality of controllers for controlling the plurality of heating, ventilating and air conditioning units, respectively. Each of the plurality of controllers includes a **temperature sensor** connected to a thermostat control for controlling a heating, ventilating and air conditioning unit in accordance with an output from the **temperature sensor**. A link interconnects the plurality of controllers into a network. Each of the plurality of controllers may alter the operation of the thermostat control in accordance with the operation of the remaining plurality of controllers interconnected into the network. The environmental control system provides multiple modes of operation including a preferred first non-overlap mode for preventing the simultaneous actuation of multiple heating, ventilating and air conditioning units. A less preferred second overlap mode permits simultaneous actuation of multiple heating, ventilating and air conditioning units for only a limited time period and a least preferred third demand saver setback mode lessening the environment requirements to reduce the need to simultaneously actuate multiple heating, ventilating and air conditioning units.

Inventors

SILVA RICHARD M

NESTER MICHAEL E

Latest standardized assignees - inventors removed

CUSTOM MANUFACTURING & ENGINEERING

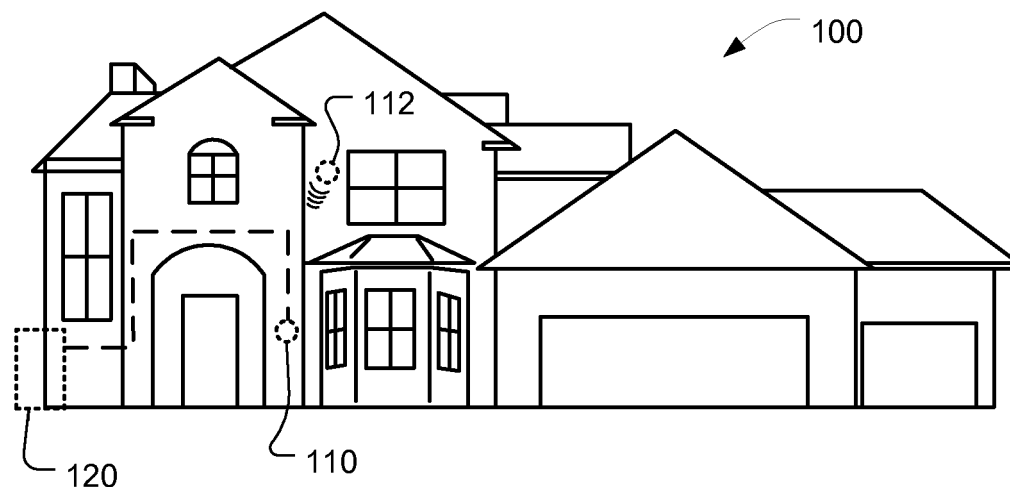
Family 32/50 - FAMPAT - ©Questel

Title

(US9715239)

Computational load distribution in an environment having multiple sensing microsystems

Images



Publication data including kind & date

US20120126021	A1	2012-05-24	US20120126021
US20120126020	A1	2012-05-24	US20120126020
US20120130546	A1	2012-05-24	US20120130546
US20140231530	A1	2014-08-21	US20140231530
US20140346239	A1	2014-11-27	US20140346239
US20150081109	A1	2015-03-19	US20150081109
US9223323	B2	2015-12-29	US9223323
US20160054022	A1	2016-02-25	US20160054022
US9494332	B2	2016-11-15	US9494332
US20170003696	A1	2017-01-05	US20170003696



US9605858	B2	2017-03-28	US9605858
US9612032	B2	2017-04-04	US9612032
US9684317	B2	2017-06-20	US9684317
US9696734	B2	2017-07-04	US9696734
US9715239	B2	2017-07-25	US9715239

**Abstract**

(US9715239)

Systems, methods, and related computer program products for using a distributed arrangement of wirelessly connected sensing microsystems are described. A plurality of wirelessly communicating sensing microsystems is provided, each sensing microsystem including a **temperature sensor** and a processor. The plurality of sensing microsystems is configured to jointly carry out at least one shared computational task. Each sensing microsystem may include a power management circuit configured to determine an amount of electrical power available for dedication to the at least one shared computational task or a heating effect generated in performing the shared computational task. The at least one shared computational task is apportioned among respective ones of the plurality of sensing microsystems according to the amount of electrical power determined to be available for dedication thereto at each respective sensing microsystem or the determined heating effect.

Inventors

FADELL ANTHONY MICHAEL

MATSUOKA YOKY

ROGERS MATTHEW

SLOO DAVID

Latest standardized assignees - inventors removed

GOOGLE

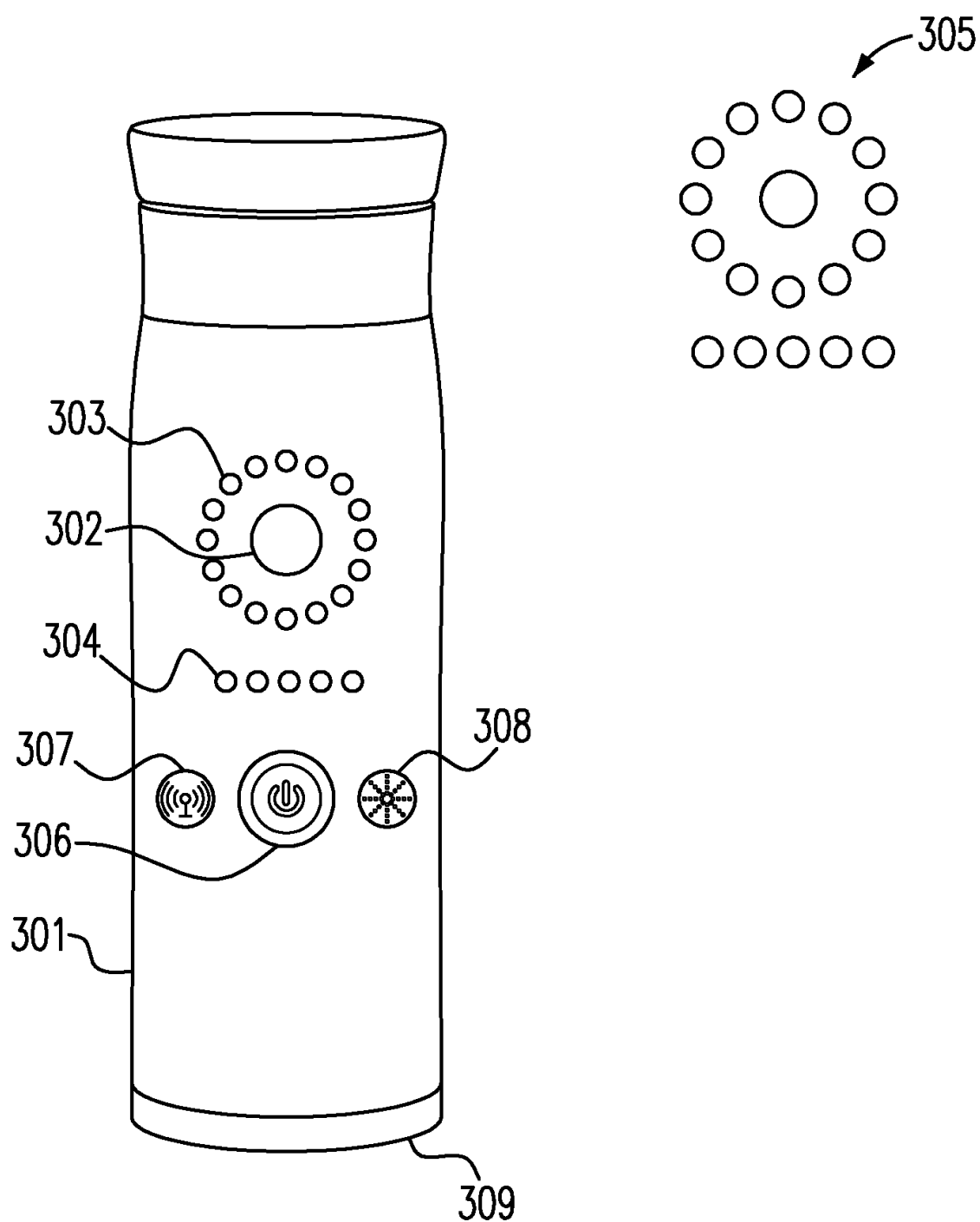
Family 33/50 - FAMPAT - ©Questel

Title

(US20140303790)

Liquid ingesting management system

Images



Publication data including kind & date

US20140303790	A1	2014-10-09	US20140303790
TW201439956	A	2014-10-16	TW201439956
JP2014203453	A	2014-10-27	JP2014203453
JP2015149074	A	2015-08-20	JP2015149074
JP5844318	B2	2016-01-13	JP5844318
TWI558369	B	2016-11-21	TWI558369
JP6067764	B2	2017-01-25	JP6067764



Abstract

(US20140303790)

A liquid ingesting management system is provided. The liquid ingesting management system includes a fluid container, a database and a wireless transmit/receive unit. The wireless transmit/receive unit communicates with the fluid container and the database through a wireless technique to access the database and control the fluid container to perform a liquid ingesting management process.

Inventors

HUANG JUSTIN JING-YUN

HSU JUI-YUAN

HUANG CHING-WEI

HUANG CHING-WU

HUANG JEAN-YUN

HUANG YU-TUNG

Latest standardized assignees - inventors removed

BEYOND INVESTMENT

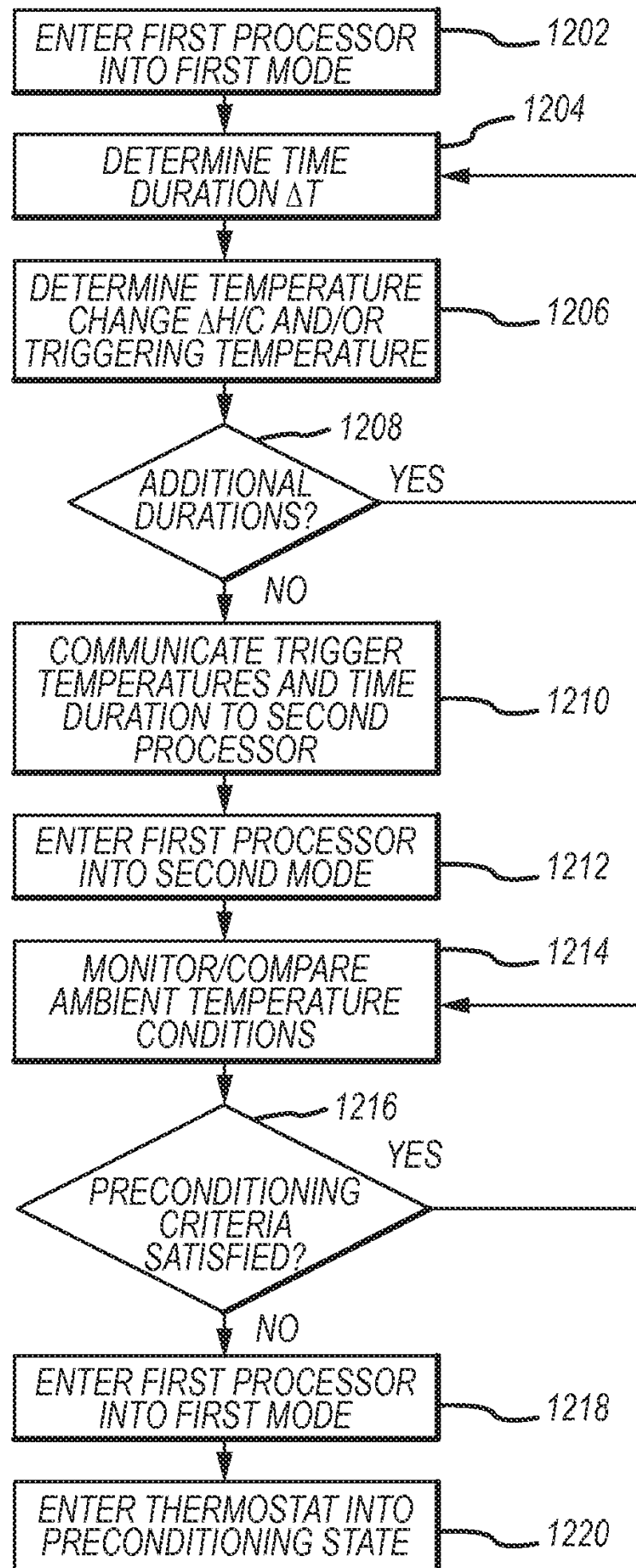
Family 34/50 - FAMPAT - ©Questel

Title

(US9470430)

Preconditioning controls and methods for an environmental control system

Images



Publication data including kind & date

US8630742	B1	2014-01-14	US8630742
US20140129034	A1	2014-05-08	US20140129034
US9470430	B2	2016-10-18	US9470430
US20160363943	A1	2016-12-15	US20160363943

**Abstract**

(US9470430)

A method of preconditioning an enclosure includes providing a thermostat and computing a set of preconditioning criteria information (PCI) with the thermostat. The computed PCI is typically representative of time and ambient **temperature** conditions for which preconditioning should be performed. The PCI may be stored in memory and used to compare against a current time and current ambient **temperature** condition of the enclosure to determine whether to enter the thermostat into a preconditioning state. If a determination is made that the PCI criteria are satisfied, the thermostat may be entered into the preconditioning state to heat or cool the enclosure. One or more of these processes may be performed while a processor of the thermostat is in a relatively high power mode or relatively low power mode.

Inventors

STEFANSKI MARK

MATSUOKA YOKY

Latest standardized assignees - inventors removed

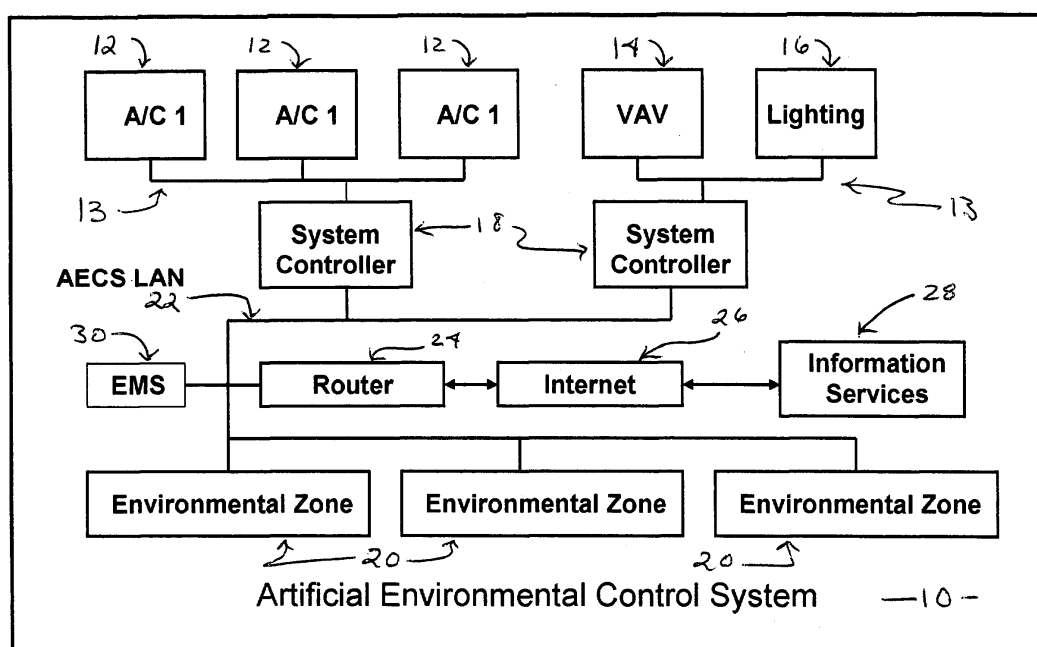
GOOGLE

Family 35/50 - FAMPAT - ©Questel

Title

(US20030216837)

Artificial environment control system

Images**Publication data including kind & date**

US20030216837	A1	2003-11-20	US20030216837
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**Abstract**

(US20030216837)

Multiple AECS **sensors** are attached to workstations or personal computers. A Local Area Network ("LAN") connects the computers, and, by extension, the AECS **sensors** to system controllers. The system controllers direct the behavior of HVAC

equipment such as variable air volume ("VAV") boxes, fans, heaters, and air conditioners. An Energy Management Server ("EMS") is utilized to gather information regarding current utility rates and weather forecasts. Individual users may request environmental set-points using application software residing on the computer. A composite set-point may be generated using a weighted average algorithmic calculation. Requests from disparate users may be given varying weight in determining the composite set-point.

Inventors

REICH DANIEL

REICH VLADI

KAPLINSKY BORIS

PAVLENKO OLEG

Latest standardized assignees - inventors removed

ARECONT INTELLECTUAL PROPERTY HOLDINGS

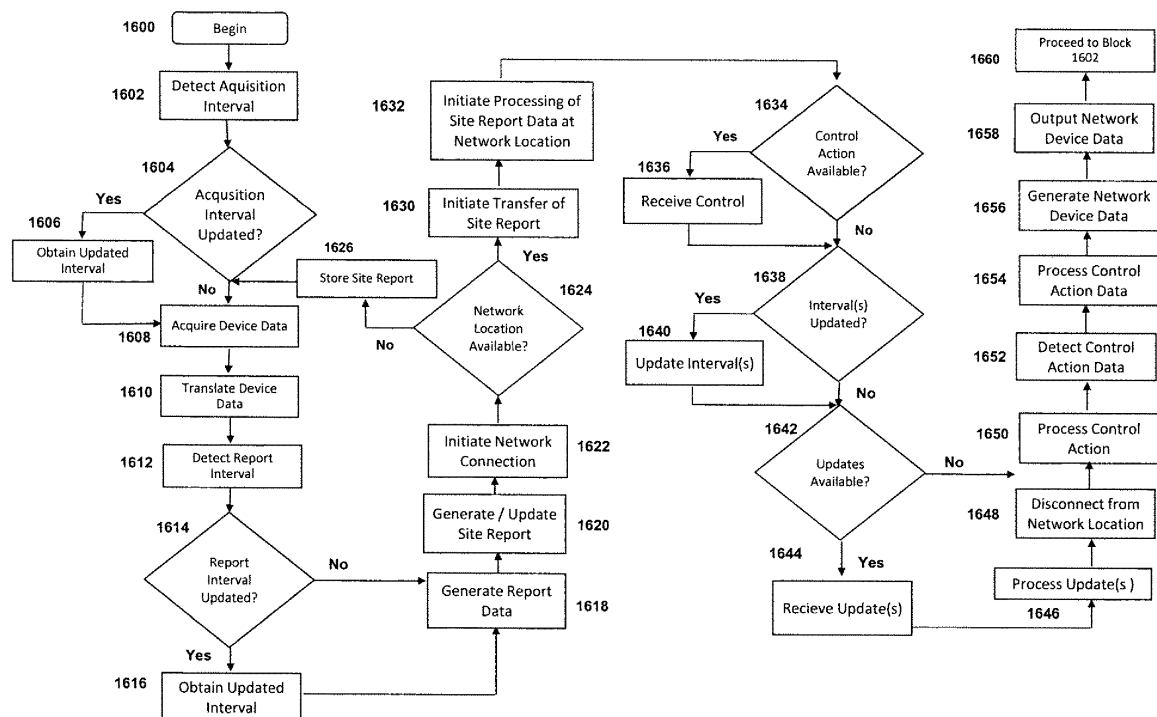
Family 36/50 - FAMPAT - ©Questel

Title

(US9977440)

Establishing **proximity** detection using 802.11 based networks

Images



Publication data including kind & date

US20110046800	A1	2011-02-24	US20110046800
US20110046801	A1	2011-02-24	US20110046801
US20110046799	A1	2011-02-24	US20110046799
US20110046798	A1	2011-02-24	US20110046798
US20110046792	A1	2011-02-24	US20110046792
US20110054699	A1	2011-03-03	US20110054699
US20110051823	A1	2011-03-03	US20110051823
US20110054710	A1	2011-03-03	US20110054710
US20110173542	A1	2011-07-14	US20110173542
US20110202185	A1	2011-08-18	US20110202185
US20110224838	A1	2011-09-15	US20110224838



US8024073	B2	2011-09-20	US8024073				
US20110246898	A1	2011-10-06	US20110246898				
US20110307101	A1	2011-12-15	US20110307101				
US8082065	B2	2011-12-20	US8082065				
US8099195	B2	2012-01-17	US8099195				
US8108076	B2	2012-01-31	US8108076				
US20120046859	A1	2012-02-23	US20120046859				
US20120064923	A1	2012-03-15	US20120064923				
US20120072033	A1	2012-03-22	US20120072033				
US20120093141	A1	2012-04-19	US20120093141				
US20120101637	A1	2012-04-26	US20120101637				
US8174381	B2	2012-05-08	US8174381				
US20120135759	A1	2012-05-31	US20120135759				
US20120215725	A1	2012-08-23	US20120215725				
US20120221718	A1	2012-08-30	US20120221718				
US20120252430	A1	2012-10-04	US20120252430				
US20130060387	A1	2013-03-07	US20130060387				
US8396604	B2	2013-03-12	US8396604				
US8412382	B2	2013-04-02	US8412382				
US8442695	B2	2013-05-14	US8442695				
US8457797	B2	2013-06-04	US8457797				
US8473109	B1	2013-06-25	US8473109				
US20130167035	A1	2013-06-27	US20130167035				
US20130173027	A1	2013-07-04	US20130173027				
US8498749	B2	2013-07-30	US8498749				
US8504180	B2	2013-08-06	US8504180				
US8509954	B2	2013-08-13	US8509954				
US20130212262	A1	2013-08-15	US20130212262				
US20130227126	A1	2013-08-29	US20130227126				
US20130238160	A1	2013-09-12	US20130238160				
US8571518	B2	2013-10-29	US8571518				
US20130318444	A1	2013-11-28	US20130318444				
US20130318217	A1	2013-11-28	US20130318217				
US8600564	B2	2013-12-03	US8600564				
US20130325190	A1	2013-12-05	US20130325190				
US20130332000	A1	2013-12-12	US20130332000				
US8626344	B2	2014-01-07	US8626344				
US20140058568	A1	2014-02-27	US20140058568				
US20140128001	A1	2014-05-08	US20140128001				
US20140258386	A1	2014-09-11	US20140258386				
US8855830	B2	2014-10-07	US8855830				
US20140316587	A1	2014-10-23	US20140316587				
US20150025697	A1	2015-01-22	US20150025697				
US20150204563	A1	2015-07-23	US20150204563				
US9164524	B2	2015-10-20	US9164524				
US9209652	B2	2015-12-08	US9209652				
US9360874	B2	2016-06-07	US9360874				
US9405310	B2	2016-08-02	US9405310				

US20160238272	A1	2016-08-18	US20160238272				
US20160258647	A1	2016-09-08	US20160258647				
US20160342169	A1	2016-11-24	US20160342169				
US9618946	B2	2017-04-11	US9618946				
US20170185120	A9	2017-06-29	US20170185120				
US9766645	B2	2017-09-19	US9766645				
US9800463	B2	2017-10-24	US9800463				
US20170344044	A1	2017-11-30	US20170344044				
US9874891	B2	2018-01-23	US9874891				
US9964981	B2	2018-05-08	US9964981				
US20180129357	A9	2018-05-10	US20180129357				
US9977440	B2	2018-05-22	US9977440				

Abstract

(US9977440)

A method includes presenting a set location setting within a graphical user interface (GUI) of a mobile device, and then detecting a selection of the set-location setting. The method proceeds by detecting at least one on-site network in communication with the mobile device in response to the selection of the set location setting, identifying a network name associated with the at least one on-site network, and associating the network name of the on-site network with an on-site zone of a site associated with the mobile device. The method then proceeds by altering an operating condition of a network device located at the site in response to a location of the mobile device relative to the on-site zone.

Inventors

IMES KEVIN R

HOLLISTER JAMES

COTTRELL JOHN F

Latest standardized assignees - inventors removed

SAMSUNG ELECTRONICS

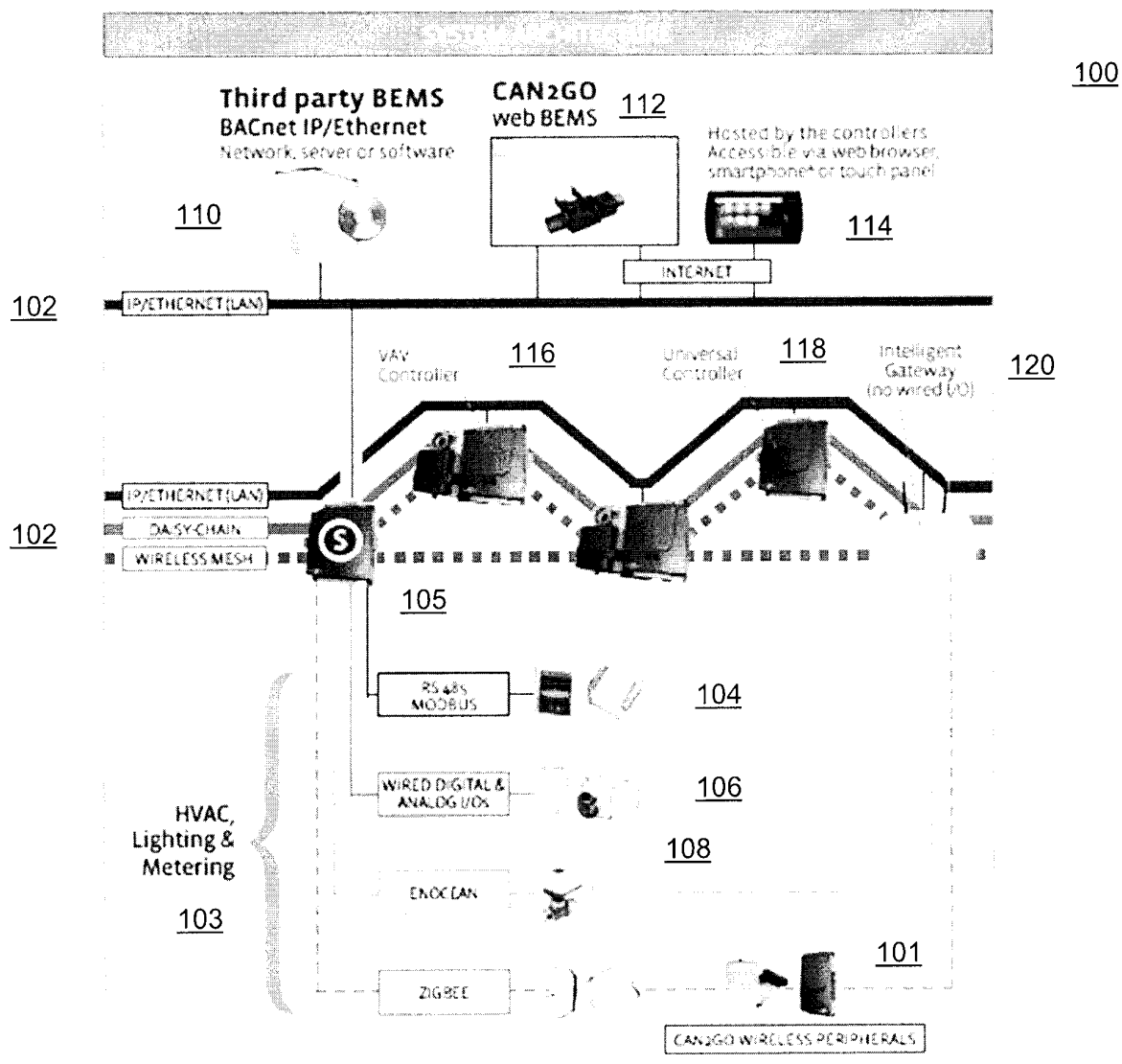
Family 37/50 - FAMPAT - ©Questel

Title

(EP2807523)

Programmable peripheral unit

Images



Publication data including kind & date

WO2013110178	A1	2013-08-01	WO2013110178
EP2807523	A1	2014-12-03	EP2807523
US20150045960	A1	2015-02-12	US20150045960
IN6956DEN2014	A	2015-04-10	IN2014DN06956
CN104919381	A	2015-09-16	CN104919381
EP2807523	A4	2015-11-18	EP2807523
CN104919381	B	2018-05-04	CN104919381B



Abstract

(EP2807523)

The embodiments describe programmable peripheral units for use in a building automation system. The programmable peripheral units communicate with controllers and other system components. The programmable peripheral units have end device components to actuate the building environment.

Inventors

CARON SIMON

MONSARRAT-CHANON HAMI

LEBLOND SIMON

Latest standardized assignees - inventors removed

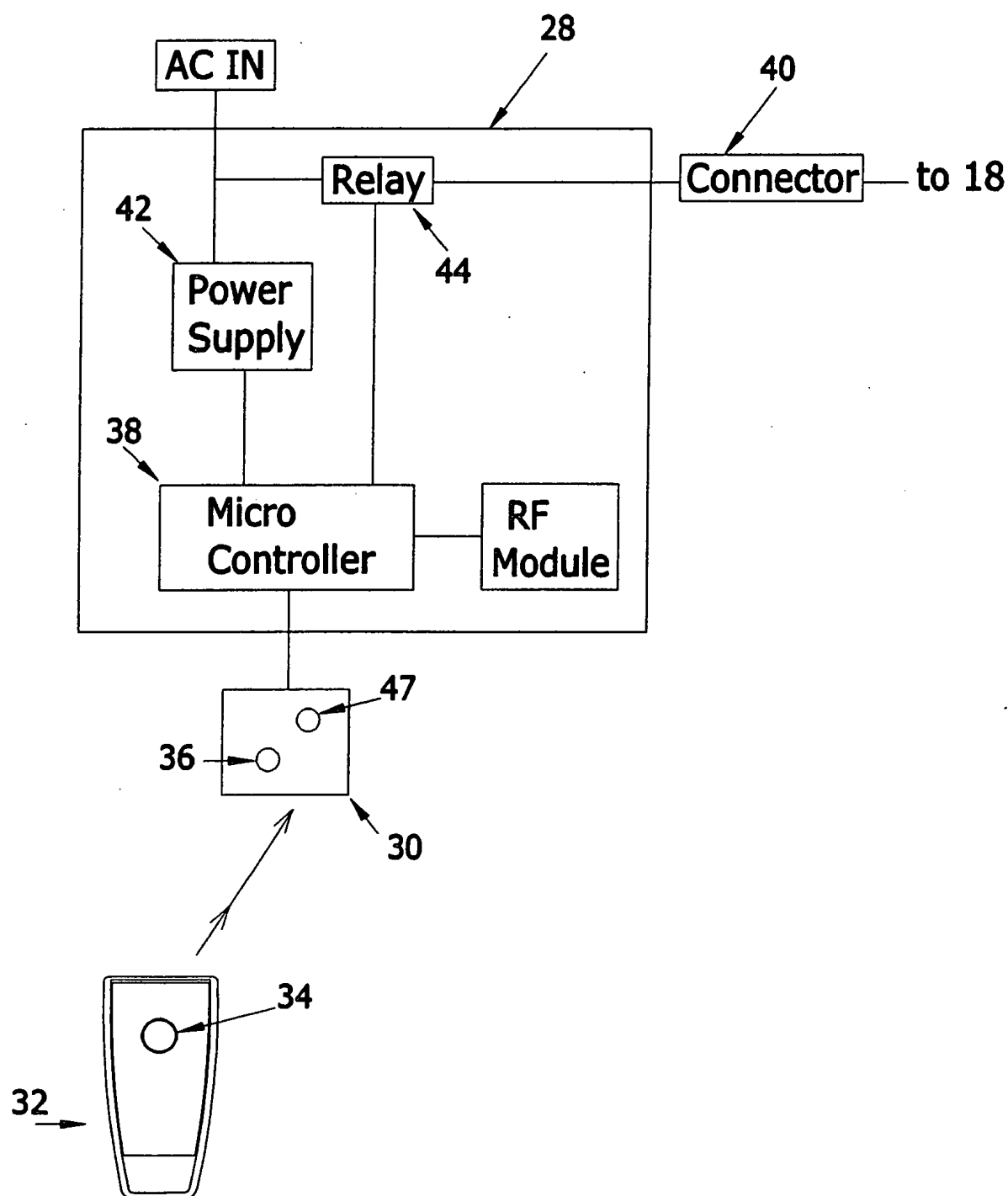
SCHNEIDER ELECTRIC BUILDINGS

Family 38/50 - FAMPAT - ©Questel

Title

(WO2011142830)

Apparatus and methods for controlling light fixtures and electrical appliances

Images**Publication data including kind & date**

WO2011142830	A2	2011-11-17	WO2011142830
WO2011142830	A3	2012-05-18	WO2011142830
US20140148923	A1	2014-05-29	US20140148923

**Abstract**

(WO2011142830)

Apparatus and methods for monitoring and controlling the energy usage of an installation including lighting fixtures, motors, compressors, and other electrical appliances by monitoring the operating status of the electrical appliances, switching the electrical appliances on and/or off as mandated by operating conditions, intended use(s) of the installation, ambient conditions, energy consumption limits, and other factors, reporting the operating status of the electrical appliances to a

system coordinator, storing information as to the operating status of each electrical appliance in the network to the memory of the system coordinator in a look-up table for subsequent retrieval as needed for operation of the installation, and transmitting a signal from the system coordinator that is operative to switch the electrical appliances on and/or off in accordance with the information stored in the look-up table.

Inventors

YAMADA JOSE LUIZ

LEWIS MARK E

Latest standardized assignees - inventors removed

LASERWELD

Family 39/50 - FAMPAT - ©Questel

Title

(EP1071054)

Lens for a motion detector

Images

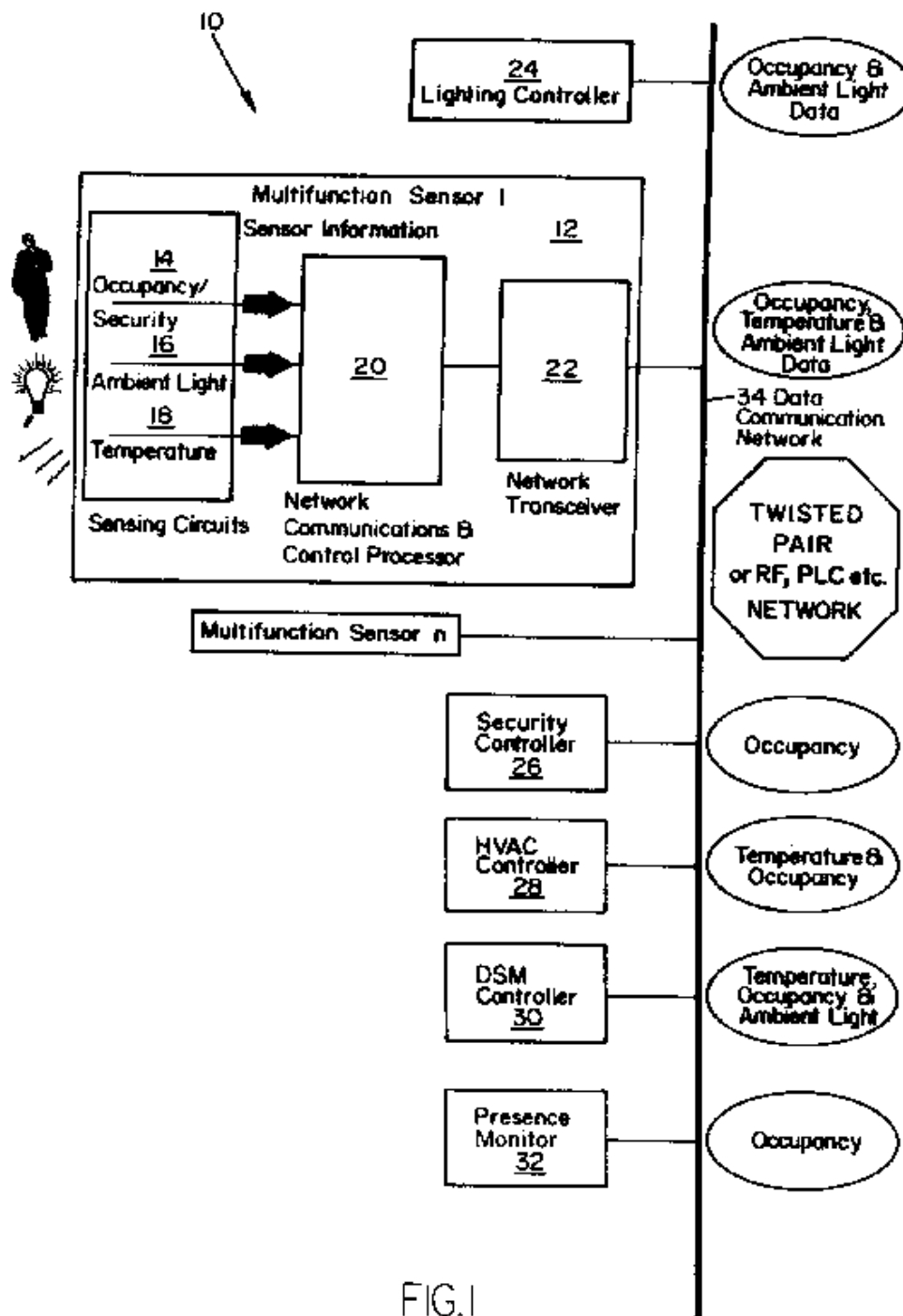


FIG.1

Publication data including kind & date

CA2218589	A1	1998-04-25	CA2218589
EP0838793	A2	1998-04-29	EP-838793
MX9707773	A	1998-04-30	MX9707773
EP0838793	A3	1998-07-08	EP-838793
US5973594	A	1999-10-26	US5973594
EP1071054	A2	2001-01-24	EP1071054
EP0838793	B1	2001-04-18	EP-838793
AT200716	T	2001-05-15	ATE200716
DE69704599	D1	2001-05-23	DE69704599
DK0838793	T3	2001-08-13	DK-838793T



ES2157529	T3	2001-08-16	ES2157529
US6324008	B1	2001-11-27	US6324008
DE69704599	T2	2001-11-29	DE69704599
CA2218589	C	2006-02-14	CA2218589



Abstract

(EP1071054)

A universal multifunction **sensor** (12) having multiple optical designs and providing a plurality of parameter **sensors** in one **sensor** module which can interface with and control operation of one or more processor control systems in an occupied space networked environment. The universal multifunction **sensor** comprises a passive infrared occupancy **sensor** (14) and an ambient light **sensor** (16). A common network communications and control processor (20) coupled to a common communication transceiver (22) are shared in common by the occupancy **sensor** (14) and the ambient light **sensor** (16), such that the multifunction **sensor** (12) can interface with and control operation of one or more processor control systems (24, 26, 28, 30 32) in an occupied space networked environment. A segmented lens array comprises a plurality of lens segments forming a lens array for directing infrared radiation onto the passive infrared occupancy **sensor**. <IMAGE>

Inventors

BALDWIN JOHN R

BATKO THOMAS J

ELLISON DAVID F

Latest standardized assignees - inventors removed

HUBBELL

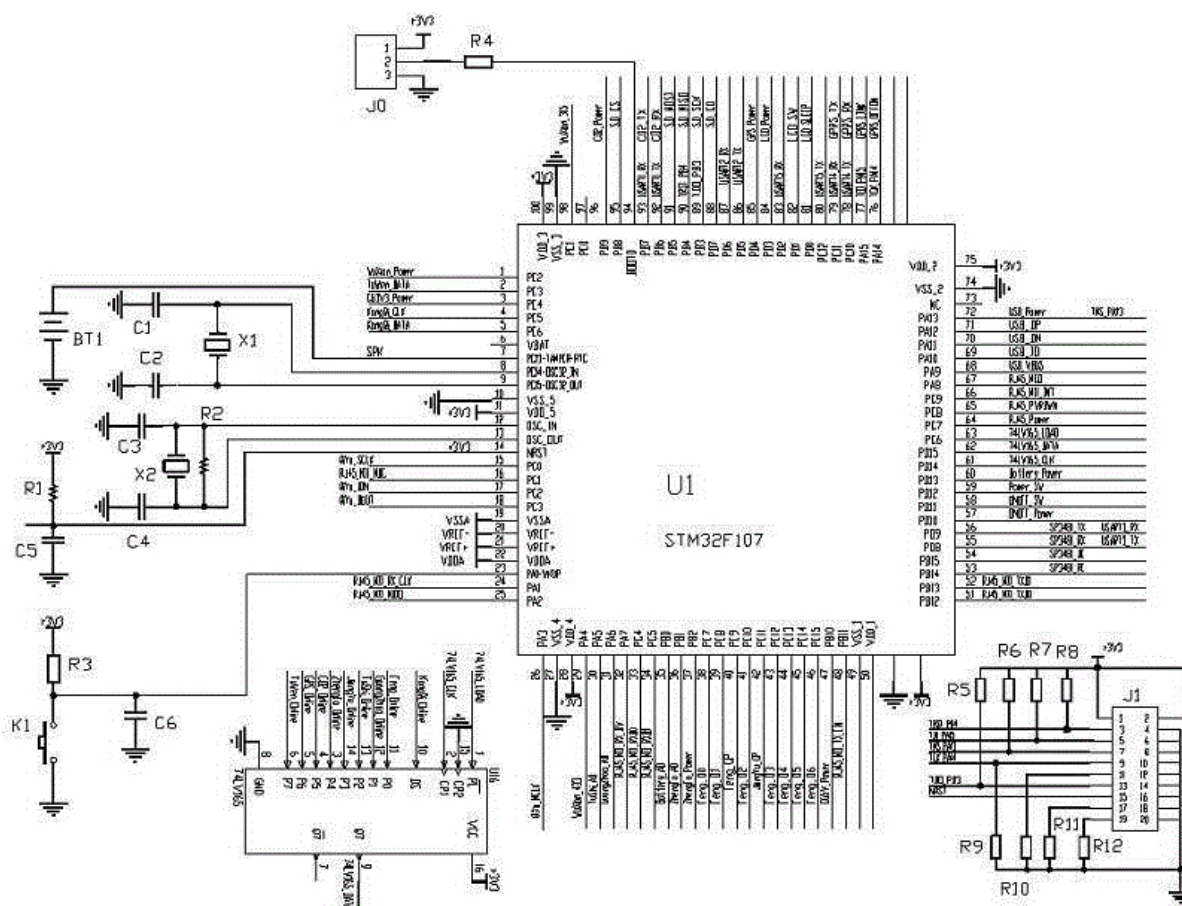
Family 40/50 - FAMPAT - ©Questel

Title

(CN103926856)

Agricultural environment information acquisition control device

Images



Publication data including kind & date



[CN103926856](#)

A 2014-07-16 CN103926856

[CN103926856](#)

B 2016-05-04 CN103926856B

**Abstract**

(CN103926856B)

The invention relates to an agricultural environment information acquisition control device. The device comprises a control circuit and a **sensor** interface circuit which are electrically connected with each other. The control circuit comprises an STM32F107 microprocessor U1 and a shifting register U16. A pin 23 of the microprocessor U1 is connected with a wake-up circuit. The wake-up circuit comprises a resistor R3, a capacitor C6 and a switch K1. The pin 23 of the microprocessor U1 is further connected with one end of the resistor R3, one end of the capacitor C6 and one end of the switch K1, the other end of the resistor R3 is connected with a power supply, and the other end of the switch K1 and the other end of the capacitor C6 are grounded. The shifting register U16 is electrically connected with the **sensor** interface circuit. Environmental parameters of an agricultural site can be monitored in real time through the device; the device has wireless access to the Internet and is convenient and flexible to use; by the adoption of distributed management of **sensor** nodes, various **sensors** can be freely combined, and therefore the system flexibility is improved; all **sensor** node power supplies are independently controlled, and therefore the system power consumption can be effectively reduced and the requirement for working in the field for a long time can be met.

Inventors

ZHANG XISEN

SONG QINFENG

ZHOU ZHIXIA

YANG GUOHUA

WANG CHUNBO

JI LILI

DU FANG

LIU SHUXIANG

Latest standardized assignees - inventors removed

SHANDONG ANBO APPARATUS

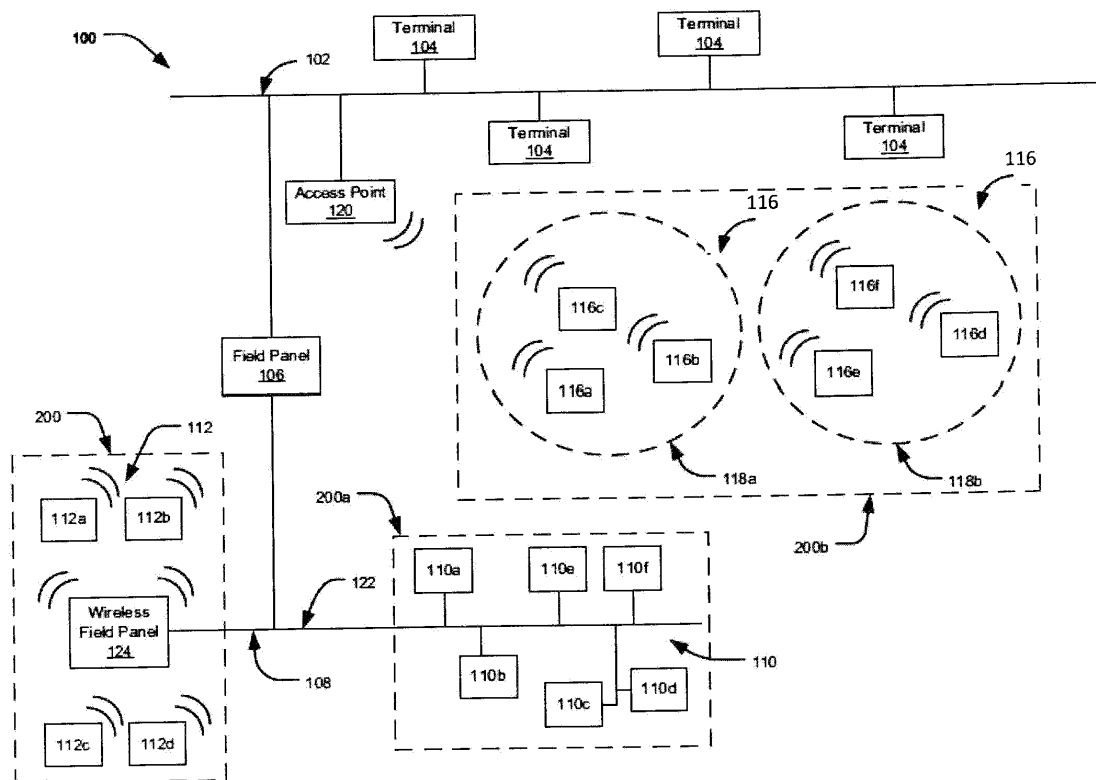
Family 41/50 - FAMPAT - ©Questel

Title

(EP2761233)

System and method for providing a simulated window utilizing environmental controls operable within a building automation system

Images



Publication data including kind & date

WO2013048564	A1	2013-04-04	WO201348564
US20130085608	A1	2013-04-04	US20130085608
CN103842735	A	2014-06-04	CN103842735
EP2761233	A1	2014-08-06	EP2761233
CN103842735	B	2016-09-14	CN103842735B
EP2761233	B1	2018-10-17	EP2761233



Abstract

(EP2761233)

A system for providing a simulated window utilizing environmental controls operable within a building automation system is disclosed. The system includes a building automation network deployed within a structure, a plurality of environmental controls in communication with the building automation network, where the plurality of automation controls are configured to control one or more environmental conditions within a space defined within the structure, a controller in communication with the plurality of environmental controls via the building automation network. The controller is configured to execute a first environmental control program to drive at least one of the plurality of environmental controls to a set point, and execute a transient environmental control program to increase an output of at least one of the plurality of environmental controls relative to the first environmental control program.

Inventors

BORNSIDE DAVID E
MITTRACH OLAF

Latest standardized assignees - inventors removed

SIEMENS SCHWEIZ

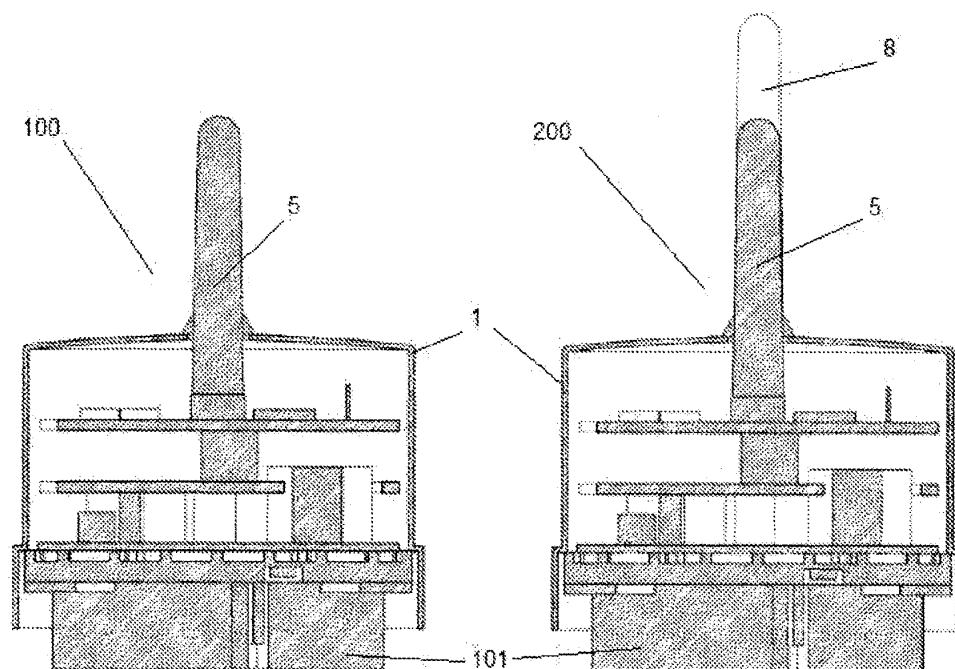
Family 42/50 - FAMPAT - ©Questel

Title

(WO2014111752)

Smart photocell for the remote management and control of public lighting systems

Images



Publication data including kind & date

WO2014111752	A1	2014-07-24	WO2014111752
MX2014015200	A	2015-03-05	MX2014015200
US20150351185	A1	2015-12-03	US20150351185
MX340595	B	2016-07-15	MX-340595



Abstract

(WO2014111752)

The invention relates to a system for managing and controlling street lamps for public lighting, comprising a power meter that can be used to ascertain the main electric variables and the power consumption of the lamps. The system comprises a device acting as a concentrator, to which other devices are wirelessly connected using radio frequency, said concentrator transmitting the information or data collected to a control centre via an Internet communication. The system also comprises an infrared communication module operating according to the IrDA protocol, a non-volatile memory and **sensors** for controlling the lamp (level of ambient light, **noise**, CO₂, **temperature**, **humidity**), with the lamp being switched on or off according to the light values. In addition, the lamp power can be dimmed.

Inventors

MONTOYA CORREA GABRIEL JAIME

MONTOYA MONTOYA OSCAR DARIO

Latest standardized assignees - inventors removed

TELEMETRIA INDUSTRIAL TELEMETRIK

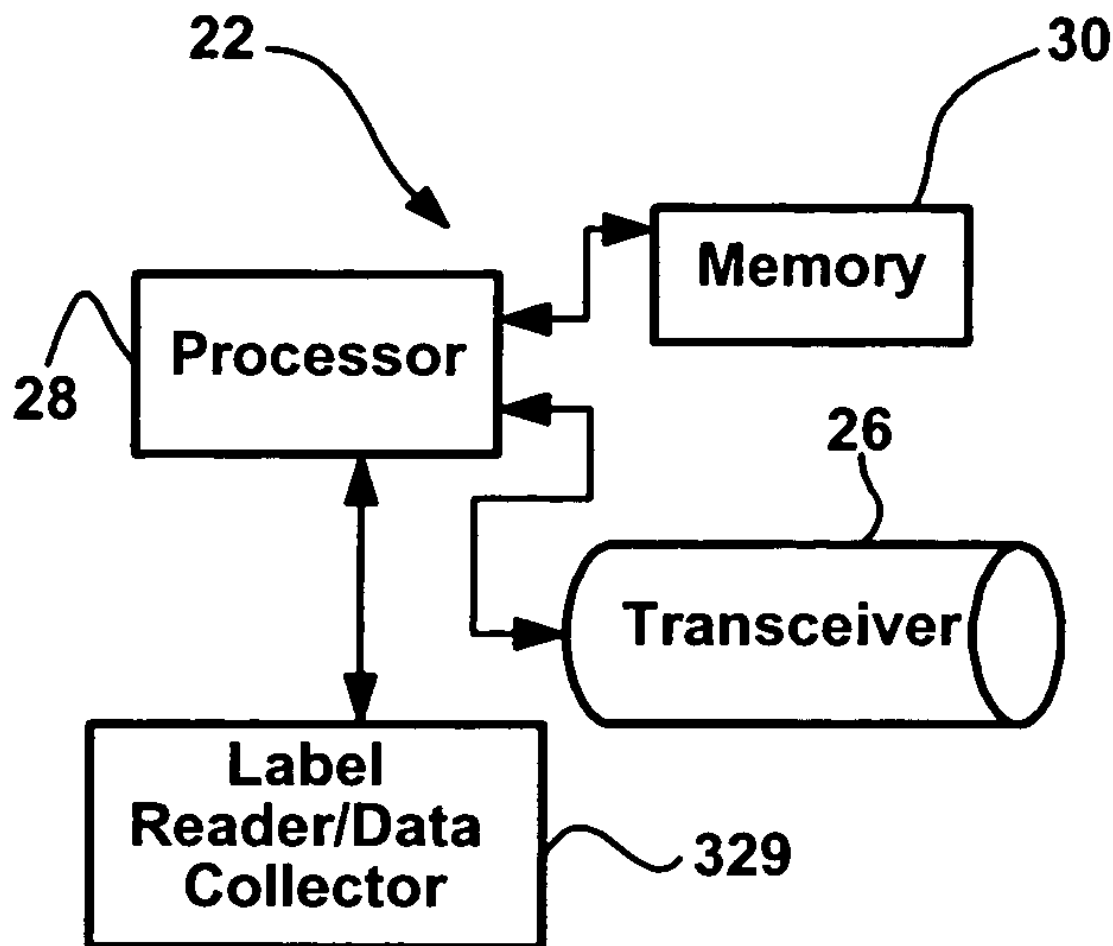
Family 43/50 - FAMPAT - ©Questel

Title

(EP1582952)

Location based material handling and processing

Images

**Publication data including kind & date**

EP1582952	A2	2005-10-05	EP1582952
US20050228528	A1	2005-10-13	US20050228528
CN1755559	A	2006-04-05	CN1755559
KR20060045413	A	2006-05-17	KR20060045413
EP1582952	A3	2006-05-17	EP1582952

**Abstract**

(EP1582952)

A method and apparatus for controlling resources integrated to perform a process on a work product within an environment where at least one of a first of the resources and the work product is a moveable item that moves during the process, the method comprising the steps of providing an information device on the moveable item, ascertaining the location of the information device and controlling at least a first of the resources as a function of the location of the information device. For instance, in one example, a drill press may be activated to form a hole in a work product when an information device on the work product is at a specific position with respect to the drill station.

Inventors

FACHMIN DAVID W
 VASKO DAVID ALAN
 BATKE BRIAN A
 NOONEN DANIEL P
 CALLAGHAN DAVID MICHAEL
 BAIER JOHN JOSEPH
 TUTKOVICS SCOT ALAN

Latest standardized assignees - inventors removed

ROCKWELL AUTOMATION

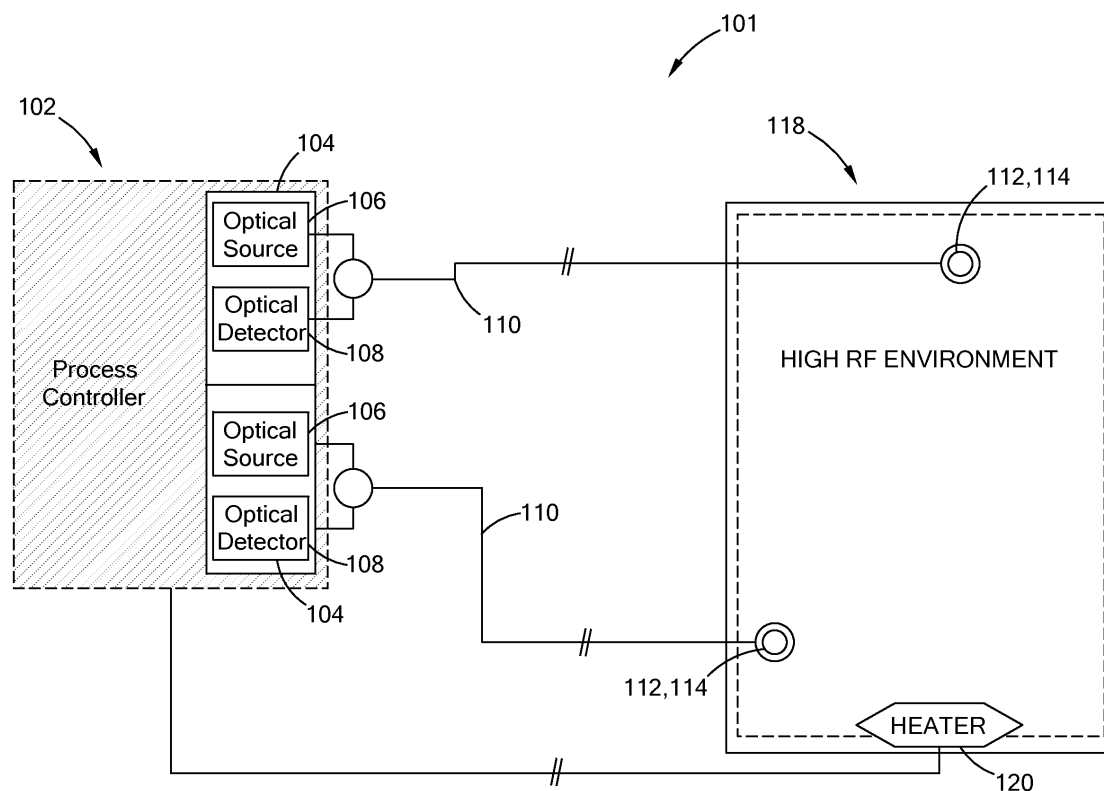
Family 44/50 - FAMPAT - ©Questel

Title

(EP3327535)

Process controller with integrated optical sensing

Images



Publication data including kind & date

WO2014172440	A1	2014-10-23	WO2014172440
US20140341563	A1	2014-11-20	US20140341563
TW201500872	A	2015-01-01	TW201500872
KR20150144775	A	2015-12-28	KR20150144775
CN105229550	A	2016-01-06	CN105229550
EP2987043	A1	2016-02-24	EP2987043
TWI524160	B	2016-03-01	TWI524160
JP2016522480	A	2016-07-28	JP2016522480
US9625923	B2	2017-04-18	US9625923
JP6141518	B2	2017-06-07	JP6141518
US20170192443	A1	2017-07-06	US20170192443
KR101780964	B1	2017-10-23	KR101780964
EP2987043	B1	2018-01-03	EP2987043
CN105229550	B	2018-01-05	CN105229550B
CN107807698	A	2018-03-16	CN107807698
EP3327535	A1	2018-05-30	EP3327535



Abstract

(EP3327535)

The present disclosure relates generally to a process controller and more specifically to a process controller with integrated optical sensing.

Inventors

BOHLINGER WILLIAM

BERGEN JOHN

HOPKINS-BREITLOW STANTON

HENTGES JAMES

HOZENGA JASON

RAMOS GIL

PETERSON KURT

WALTERS LARRY

JAMES DARYL

Latest standardized assignees - inventors removed

WATLOW

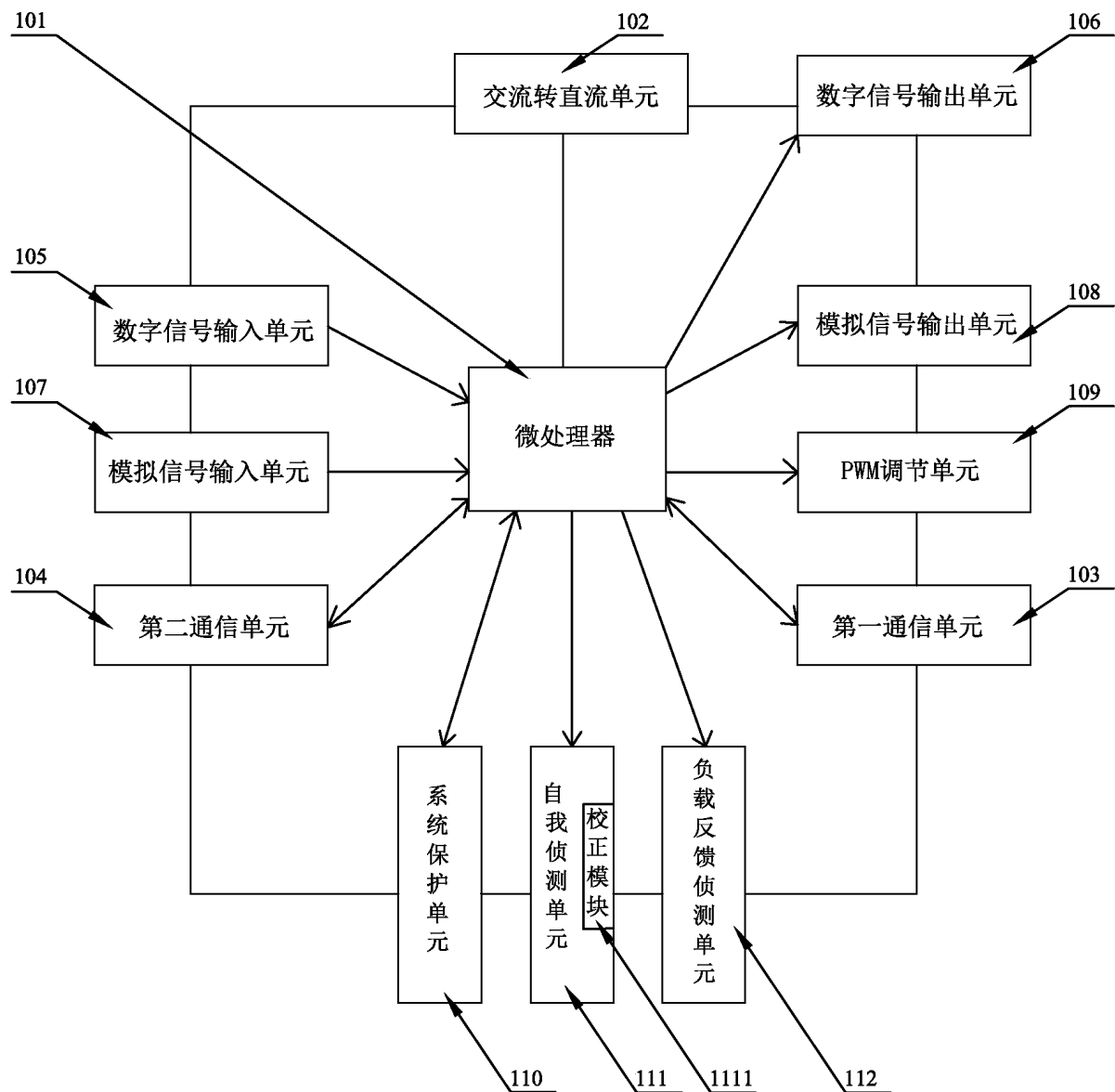
Family 45/50 - FAMPAT - ©Questel

Title

(CN105022274)

Intelligent sensing control device and intelligent sensing control system

Images



Publication data including kind & date

TWM484187	U	2014-08-11	TWM484187
CN204178210	U	2015-02-25	CN204178210U
CN204178154	U	2015-02-25	CN204178154U
CN105022274	A	2015-11-04	CN105022274
CN105022370	A	2015-11-04	CN105022370



Abstract

(CN105022274)

The invention relates to an intelligent sensing control device and an intelligent sensing control system. The intelligent sensing control device comprises a microprocessor, a first communication unit, a second communication unit, and an analog signal input unit. The first communication unit, the second communication unit and the analog signal input unit are electrically connected to the microprocessor. The analog signal input unit is connected with **sensors**, including one or more of a **temperature sensor**, a **humidity sensor**, a surveillance camera, a security **sensor**, a smell **sensor**, a key pressure **sensor** and an optical **sensor**. The intelligent sensing control system comprises a plurality of the intelligent sensing control

devices which are electrically connected. The intelligent sensing control device and the intelligent sensing control system have the advantages of capability of intelligent sensing control, low cost and low energy consumption.

Inventors

CHEN WEIHE

Latest standardized assignees - inventors removed

REDCON TECHNOLOGY

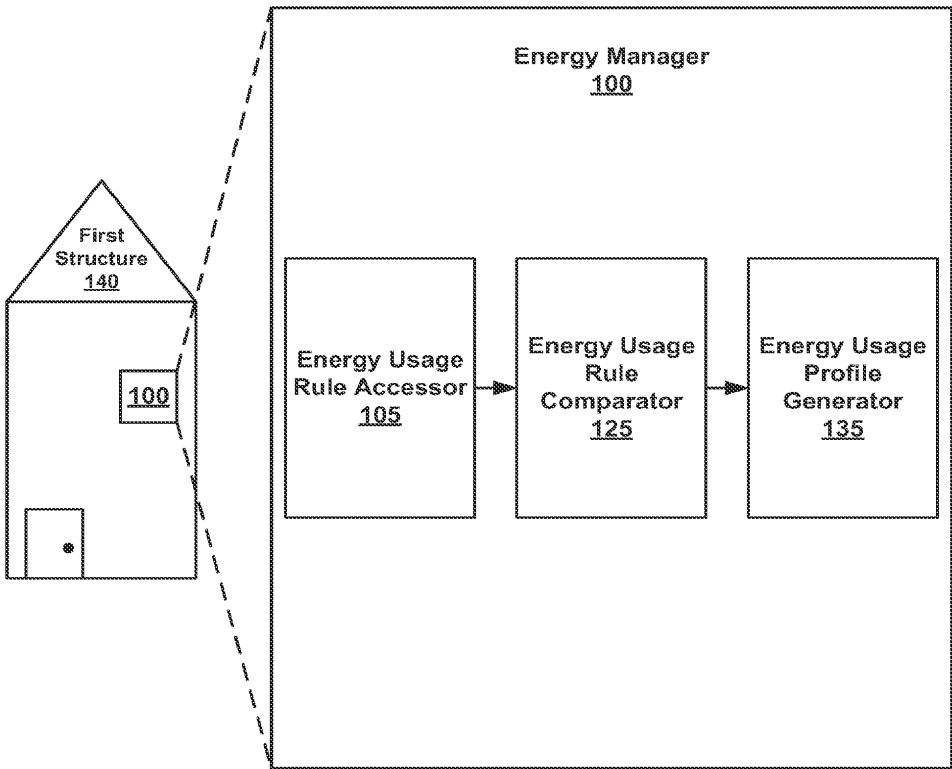
Family 46/50 - FAMPAT - ©Questel

Title

(US9600011)

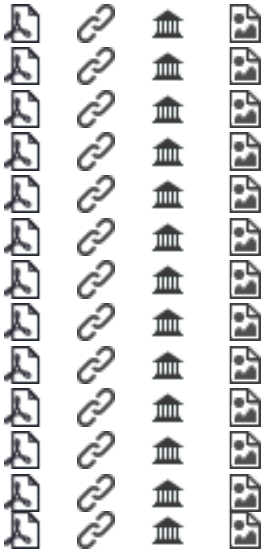
Intelligent **temperature** management based on energy usage profiles and outside weather conditions

Images



Publication data including kind & date

US20100082174	A1	2010-04-01	US20100082174
US20120089269	A1	2012-04-12	US20120089269
US8160752	B2	2012-04-17	US8160752
US20140371939	A1	2014-12-18	US20140371939
US20140371937	A1	2014-12-18	US20140371937
US20140371922	A1	2014-12-18	US20140371922
US20140371923	A1	2014-12-18	US20140371923
US20140371921	A1	2014-12-18	US20140371921
US20150058064	A1	2015-02-26	US20150058064
US20150066221	A1	2015-03-05	US20150066221
US9081405	B2	2015-07-14	US9081405
US20150295408	A1	2015-10-15	US20150295408



US20150301549	A1	2015-10-22	US20150301549				
US9322565	B2	2016-04-26	US9322565				
US9500385	B2	2016-11-22	US9500385				
US9507363	B2	2016-11-29	US9507363				
US9507362	B2	2016-11-29	US9507362				
US9523993	B2	2016-12-20	US9523993				
US20170061815	A1	2017-03-02	US20170061815				
US20170061816	A1	2017-03-02	US20170061816				
US20170059195	A1	2017-03-02	US20170059195				
US9600011	B2	2017-03-21	US9600011				
US10048712	B2	2018-08-14	US10048712				
US10108217	B2	2018-10-23	US10108217				

Abstract

(US9600011)

Various arrangements of controlling a **temperature** of an enclosure are presented. A setpoint **temperature** may be received by a thermostat from a user via an energy management device. The setpoint **temperature** may indicate a desired **temperature** of the enclosure. The thermostat may be operated in accordance with the setpoint **temperature**. Energy consumption associated with the thermostat may be monitored. The monitored energy consumption may be compared to an energy usage profile. Based on such a comparison, at least one adjustment to the operation of the thermostat may be determined that will reduce energy consumption associated with the thermostat as compared to the energy consumption associated with operating the thermostat in accordance with the setpoint **temperature**.

Inventors

WEAVER JASON C

KAYTON BRADLEY A

Latest standardized assignees - inventors removed

GOOGLE

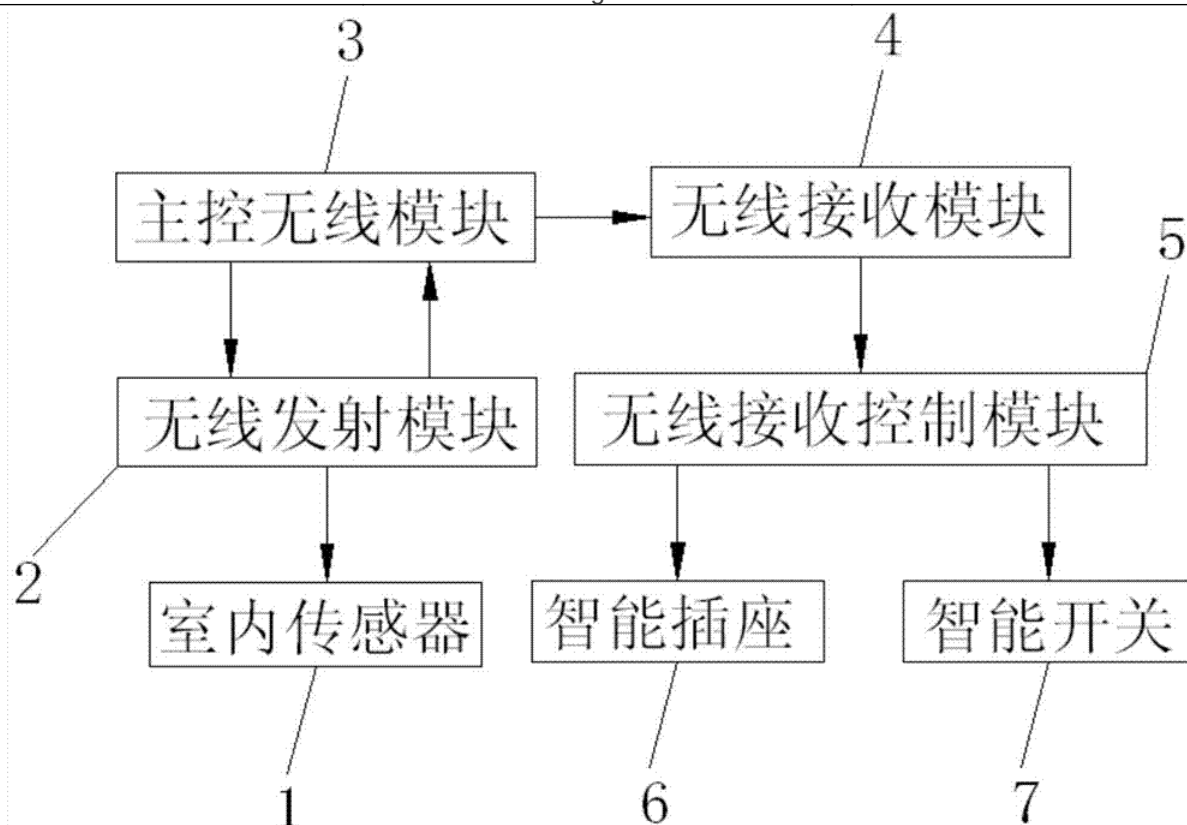
Family 47/50 - FAMPAT - ©Questel

Title

(CN104460333)

Embedded wireless smart home monitoring system

Images



Publication data including kind & date

CN104460333	A	2015-03-25	CN104460333
CN104460333	B	2018-11-20	CN104460333B



Abstract

(CN104460333B)

An embedded wireless smart home monitoring system comprises a control terminal, indoor **sensors**, a wireless transmission module, a master control wireless module, a wireless receiving module and a wireless receiving control module, wherein the indoor **sensors** are used for monitoring indoor environments, the wireless transmission module is used for sending signals transmitted by the indoor **sensors** to the control terminal through a GSM network and receiving feedback signals of the control terminal, the master control wireless module is used for monitoring indoor environment factors and giving out corresponding control instructions, the wireless receiving module is used for receiving signals of the master control wireless module, and the wireless receiving control module is used for receiving and executing signals sent by the wireless receiving module. The mode that an ARM embedded control system and a GSM are combined through short messages and self-adaptive control of various **sensors** are adopted by the embedded wireless smart home monitoring system to achieve intelligentization of homes.

Inventors

FENG ZHIRONG

Latest standardized assignees - inventors removed

GUANGDONG INSTITUTE OF SCIENCE & TECHNOLOGY

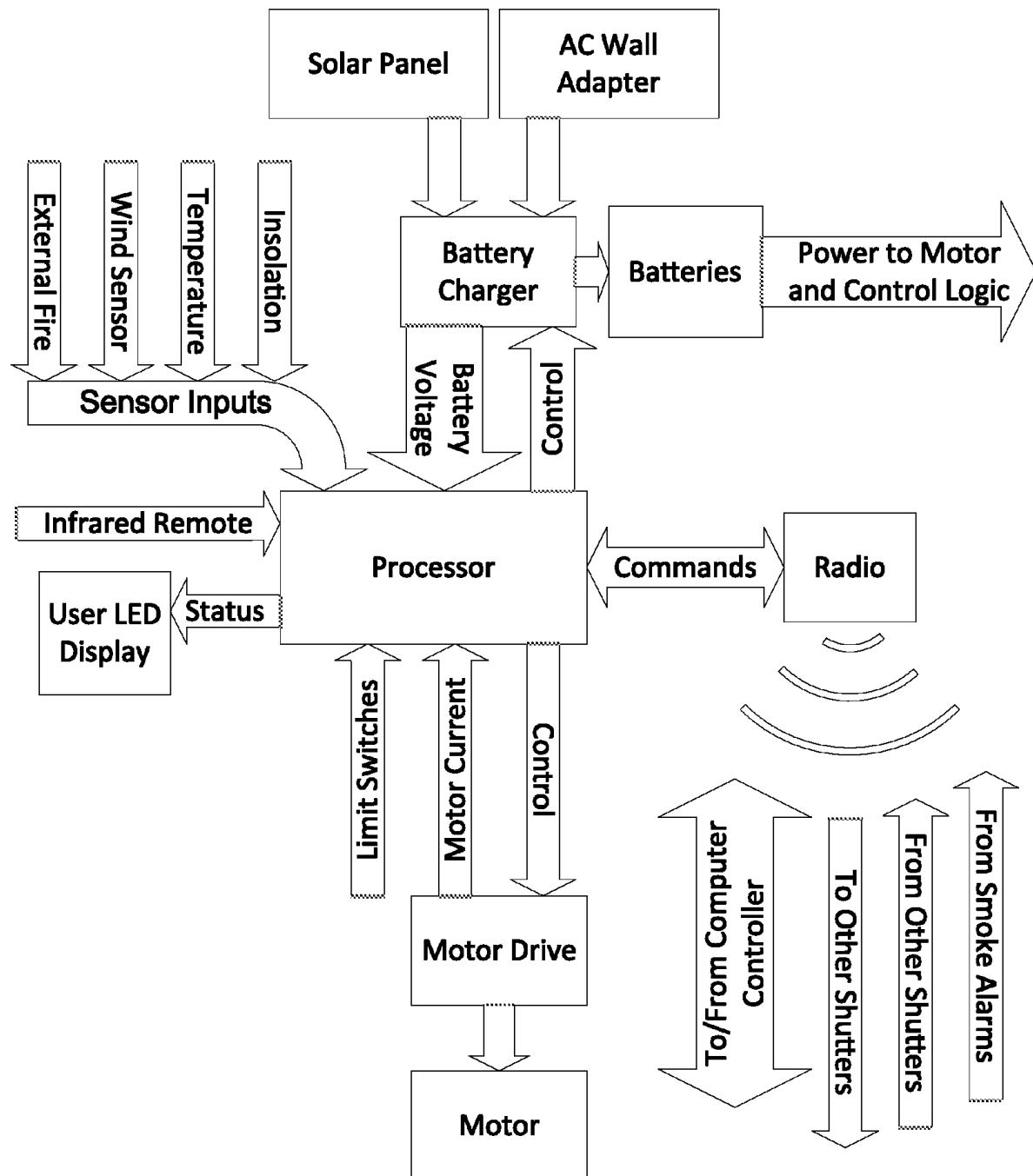
Family 48/50 - FAMPAT - ©Questel

Title

(US8165719)

System and method for an electrical insulating shutter system

Images



Publication data including kind & date

US20100332034	A1	2010-12-30	US20100332034
US8165719	B2	2012-04-24	US8165719



Abstract

(US8165719)

A system, and a method for manufacturing that system, for electrically and automatically opening, closing and otherwise controlling window shutters on a building, for the purposes of limiting radiant, conductive, and convective thermal losses from the inside of the building to the outside during the heating season, and limiting radiant, conductive, and convective thermal gains from the outside of the building to the inside during the cooling season. The system further comprises an interface to accommodate connection to other **sensors** not used to control the thermal environment of the building, such as **motion detectors**, burglar alarms, CO **sensors** and the like.

Inventors

KINNEY LAURENCE F
CLER GERALD L
BERGESON TODD ERIC

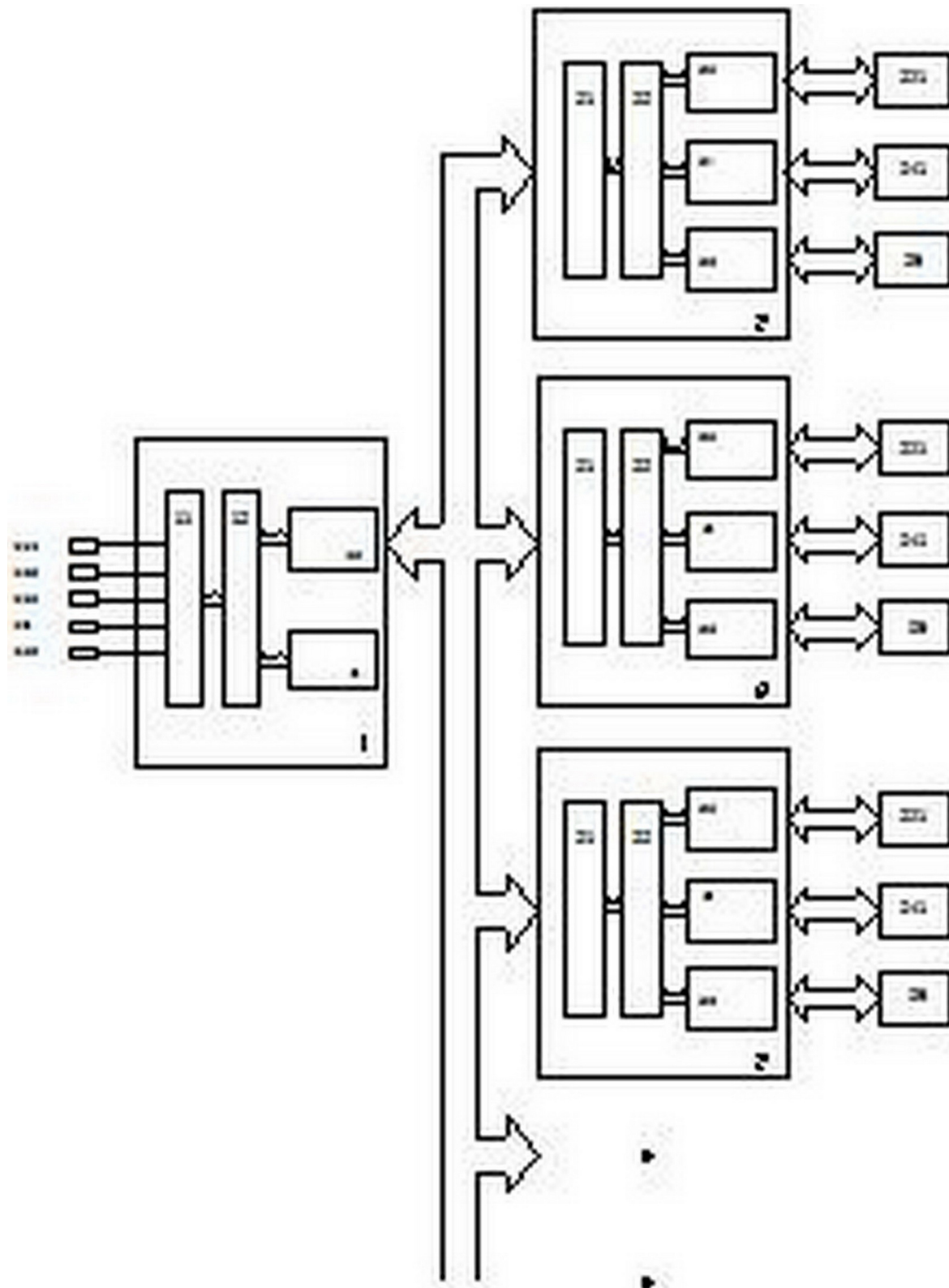
LINDBERG DEREK CHRISTOPHER

Family 49/50 - FAMPAT - ©Questel

Title

(CN102043385)

User sleeping state-based household appliance control device and control method

Images

Publication data including kind & date

[CN102043385](#)

A 2011-05-04 CN102043385

**Abstract**

(CN102043385)

The invention discloses a user sleeping state-based household appliance control device and a user sleeping state-based household appliance control method. The device comprises a physiologic information monitor and a plurality of household appliance terminal controllers, wherein the physiologic information monitor is connected with the household appliance terminal controllers in a wireless or wired way; a physiologic information **sensor** for monitoring the sleeping state of a user is connected outside the physiologic information monitor; and the household appliance terminal controllers control corresponding household appliances to work. Various physiologic information parameters of the user during sleeping are acquired and monitored by the physiologic information **sensor** and information is mined so as to judge whether the user is asleep or awake and whether the user is at a slow eye **motion** (or slow wave sleep) stage or a quick eye **motion** (or paradoxical sleep) stage. Therefore, working states of the household appliances are controlled accurately through the household appliance terminal controllers, household appliance intellectualization is realized, the sleeping quality of the household appliance user is enhanced and the aims of saving energy and protecting the environment are fulfilled.

Inventors

ZHANG GUOHONG

MENG JUN

LIU MEIQIN

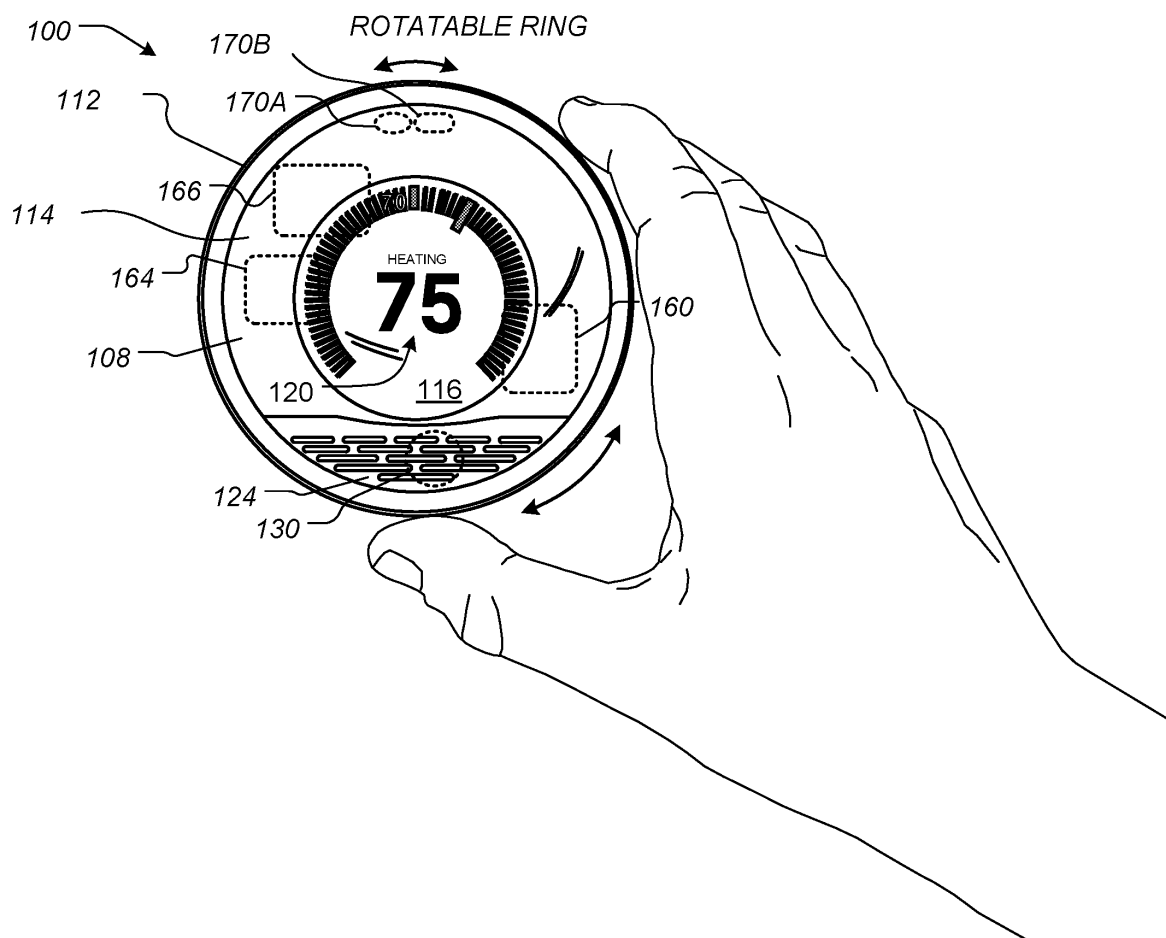
Latest standardized assignees - inventors removed

ZHEJIANG UNIVERSITY

Family 50/50 - FAMPAT - ©Questel

Title

(WO2014176176)

Facilitating ambient **temperature** measurement accuracy in an hvac controller having internal heat-generating components**Images**

CA2910048	A1	2014-10-30	CA2910048				
US20140324232	A1	2014-10-30	US20140324232				
WO2014176176	A1	2014-10-30	WO2014176176				
US9360229	B2	2016-06-07	US9360229				
US20160265800	A1	2016-09-15	US20160265800				
US10132517	B2	2018-11-20	US10132517				

Abstract

(WO2014176176)

A thermostat may include one or more **temperature sensors**, and a processing system configured to be in operative communication with an HVAC system. The processing system may be configured to operate a first operating state characterized by relatively low power consumption and a corresponding relatively low associated heat generation, and a second operating state characterized by relatively high power consumption and a corresponding relatively high associated heat generation. During time intervals in which the processing system is operating in the first operating state, the processing system may process the **temperature sensor** measurements according to a first ambient **temperature** determination algorithm to compute the determined ambient **temperature**. During time intervals in which the processing system is operating in the second operating state, the processing system may process the **temperature sensor** measurements according to a second ambient **temperature** determination algorithm to compute the determined ambient **temperature**.

Inventors

MODI YASH

MATSUOKA YOKY

FILSON JOHN B

Latest standardized assignees - inventors removed

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