

Search history

Search PN=(WO2016155109) (Results 1)

1:

Search [SP]: 1. a system comprising a first panel and a second panel, the first panel comprising a first sensing module configured to collect a parameter relating to a first device a first processing module configured to control the first device according to the collected parameter the second panel being configured to work independently of the first panel, the second panel comprising a first physical controller configured to control the first device the first panel being configured to control the first physical controller, and the first panel and the second panel being detachably connected. 2. the system of claim 1, the second panel further comprising a current detecting device configured to collect current information and send the current information to the first panel. 3. the system of claim 1, the first physical controller comprising a dimmer. 4. (canceled) 5. the system of claim 1, the first panel further comprising an ambient light sensor configured to sense intensity of ambient light. 6. (canceled) 7. the system of claim 1, the first panel further comprising a temperature and humidity sensor or a gas composition sensor. 8. the system of claim 1, the first panel further comprising a motion sensor configured to detect speed, contour, and a distance between an object and a smart switch in a vicinity of the smart switch. 9. (canceled) 10. the system of claim 1, the first panel further comprising a gateway. 11. the system of claim 1, the first panel further comprising a first communication module, wherein the first panel is configured to communicate with a second device via the first communication module. 12.-14. (canceled) 15. the system of claim 1, the first panel further comprising a touch screen. 16. the system of claim 15, the first panel being configured to receive user input via the touch screen. 17. (canceled) 18. (canceled) 19. the system of claim 1, the second panel further comprising a second sensing module. 20. the system of claim 1, the second panel further comprising a second communication module. 21. (canceled) 22. the system of claim 1 further comprising a third panel, the third panel including a second physical controller configured to control a third device the first panel being configured to control the second physical controller. 23.-27. (canceled) 28. the system of claim 1 further comprising a remote control configured to control the first device via the first panel. 29. (canceled) 30. a method comprising: receiving a parameter or user input relating to a first device via a first panel determining, by the first panel, a control of the first device according to at least some of the received parameter or user input and performing the control of the first device, the control of the first device further comprising controlling a first physical controller by the first panel, the first physical controller being configured to control the first device independently of the first panel. 31. the method of claim 30, the first panel further comprising a first sensing module configured to collect the parameter relating to the first panel. 32. the method of claim 30, the first panel further comprising a touch screen configured to receive the user input. 33. the method of claim 30, the first physical controller comprising a dimmer. 34. the method of claim 30, the first panel further comprising a first communication module configured to communicate with a second device. 35. the method of claim 30 claim 34, the first panel being configured to control the second device via the communication with the second device. (Results 42)

Search [SP]: environment control system the present application relates to an environment control system. the environment control system is capable of detecting variations of natural environment and artificial environment, and control the use of electronic devices automatically or semi-automatically. based on collected information stored in a built-in storage module, the environment control system may calculate and learn the user's habit of use with respect to the electronic devices using network connection. (Results 548)

Search [SP]: technical field[0001] the present application relates to an environment control system, including the fields of integration of multiple sub-systems or modes, building environment design and control, data collection and analysis, integration of circuits, data communication, and intelligence science. background[0002] living environment of modern society often relies on the cooperation of multiple electronic devices such as lighting control inside buildings, installation and usage of common electronic appliances (such as refrigerators and televisions), security systems (such as doorbells and closed-circuit televisions), and heat and air conditioning systems. these kinds of electronic devices usually use physical switches, such as manual switches of lights, connection to electrical sockets of refrigerators, press buttons for doorbells, valves found in water heating systems, and power switches for air conditioners. using physical switches may be inconvenient sometimes. for example, people may need to feel around with hands to search for light switches when entering a room during night or getting up in the middle of night people may forget to turn off lights or television when leaving a room people may fall asleep with a television on for a whole night, wasting energy a host may have to walk across a room to open a door when guests ring the doorbell air conditioners need to be manually turned on and require some time to achieve a set temperature, or otherwise may need to work inefficiently for an extended period the recording function of closed-circuit televisions in security systems generally need to be constantly turned on for a long time, which may consume large storage space. the above mentioned are only some common situations, thus it can be appreciated that although some electronic devices already incorporate some smart controlling elements (e.g., smart temperature control of a refrigerator), there is still the need for a smarter, more convenient, and more powerful environment control system. summary[0003] the present application relates to an environment control system and related use thereof. the environment control system may include several subsystems or integration modes, building environment design and control, data collection and analysis, integration of circuits, data communication, and intelligence science. according to one embodiment, the system may include a first panel and a second panel. the first panel may include a first sensing module and a first processing module. the first sensing module may collect parameters related to a first device. the first processing module may control the first device according to at least part of the collected parameters or user inputs. the first panel may acquire one or more parameters related to the first device by other means (for example, sensors or sensing units located on the second panel, or sensors or sensing units outside or independent of the system, etc.), in order to determine the control of the first device. the second panel may work independent of the first device. the second panel may include a first physical controller. the first physical controller may control the first device. the first panel may also control the first physical controller. the first panel and the second panel are detachably connected. the first panel may be termed a "front panel," while the second panel may be termed a "back panel." for the sake of convenience, the environment control system may also be referred to as the "system." [0004] according to one embodiment of the present application, the first sensing module of the first panel may include one or more sensors or sensing units. for example, the first sensing module of the first panel may include a temperature/humidity sensor, a gas composition sensor, a motion sensor, a proximity sensor, an ambient light sensor capable of sensing luminous intensity of ambient light, etc., or any combination thereof. a motion sensor may detect speed, contour, or distance between an object and a smart switch. the first panel may include a camera. the camera may be equipped with a physical cover, which may be opened or closed. the first panel may include a gateway, which may be a smart gateway. descriptions of the smart gateway can be found in below passages of the present application. [0005] according to one embodiment of the present application, the first panel may further include a first communication module. the first panel may communicate with a second device via the first communication module. the first panel may control the second device through the communication with the second device. the first panel may collect or acquire parameters or user inputs related to the second device, and communicate with or control the second device. see below descriptions of the collection or acquisition of parameters or user input related to the first device. the communication between the first communication module and the second device may be through one or more cellular networks. the communication between the first communication module and the second device may be through a wireless network. [0006] according to one embodiment of the present application, the first panel may include a touch-sensitive device. the touch-sensitive device may be a touch screen. according to the present application, the touch-sensitive device and the touch screen are generally referred to as "touch screen." the first panel may receive user input through the touch screen. the first panel may display information related to the first device through the touch screen. the user input may refer to clicking or selecting information displayed on the touch screen by a user, and such information may be at least partially related to the first device. user input may be other information or instructions inputted by the user. the first panel may acquire user input through the first communication module (for example, a user may input through mobile phones, computers, television sets, or remote controllers of television sets that are able to communicate with the environment control system). according to one embodiment of the present application, the second panel may include a second sensing module and/or a second communication module. descriptions of the first sensing module may be similarly applied to the second sensing module. descriptions of the first communication module may be similarly applied to the second communication module. [0007] according to one embodiment of the present application, the environment control system may include a first panel and a second panel. the first panel is configured to collect or acquire parameters or user inputs related to the first device. parameters related to the first device may be collected via a sensor or a sensing unit. the sensor or sensing unit may be part of the environment control system. for example, the environment control system may include a sensing module, and the sensor or sensing unit may be part of the sensing module. the sensing module may be part of the first panel, or part of the second panel. parameters related to the first device may be acquired via a sensor or a sensing unit outside of the environment control system or independent of the system, which may send the parameters to the system. user input related to the first device may be acquired via an input/output device. the input/output device may be a touch screen. the input/output device may be part of the environment control system. for example, the environment control system may include a touch screen, and the touch screen may be part of the first panel or second panel. user inputs related to the first device may be acquired through other parts or modules of the environment control system. for example, user inputs related to the first device may be acquired and sent to the system via an input/output device outside or independent of the environment control system. the environment control system may determine the control on the first device based on at least part of collected or acquired parameters or user inputs. such determination may be made by a processor. the processor may be part of the environment control system. for example, the environment control system may include a processing module, while the processor may be part of the processing module.

the processing module may be part of the first or second panel. the processor may be, for example, part of a cloud server, which may be part of the environment control system, or may be outside or independent of the environment control system. the second panel may include a first physical controller. the first physical controller may control the first device. the first panel may control the first physical controller, in order to control the first device. there may be a detachable connection between the first panel and the second panel. the first panel may communicate with other devices or control devices other than the first device.[0008] according to one embodiment of the present application, the environment control system may include a port that connects the first panel with the second panel.[0009] according to one embodiment of the present application, the second panel may further include a current detecting device capable of collecting information related to current and send the information to the first panel. the first physical controller in the second panel may be a dimmer. [0010] according to one embodiment of the present application, the environment control system may further include a wireless switch that may control the first device via the first panel.[0011] according to one embodiment of the present application, the environment control system may further include a third panel, which includes a second physical controller, and the second physical controller may control a third device. (Results 42)

Search fn=(66658906 or 71304216 or 70211525 or 70780071 or 64915883 or 65136695 or 66862302 or 67800316 or 69193953 or 57975647 or 5: 63944244 or 64816505 or 65496409 or 66862302 or 67233390 or 68163580 or 70076146 or 68625100 or 65496409 or 57975647 or 67233390 or 72156021 or 42654138 or 55057352 or 55645714 or 56693112 or 50138636 or 58017792 or 58228760 or 58266993 or 50653463 or 44464566 or 32849683 or 34610234 or 47809472 or 49093374 or 49288588 or 51044081 or 48929534 or 57264513 or 61247635 or 57782498 or 58828154 or 12201819 or 56850098) (Results 41)

Search 2 or 3 or 4 or 5 (Results 570)

6:

Search stac = (control* and (environment* or ambient* or atmosphere*) and (sensor* or measur*)) (Results 180753)

7:

Search 7 and touch screen and (separable or detachable or removable) (Results 2731)

8:

Search 8 and stac = ((temperatur* or humidity* or motion or proximity or fingerprint* or gas composition or sound or noise) w2 (sensor* or 9: detector*)) (Results 801)

Search 6 or 9 (Results 1360)

10:

Search 10 and PD < 20150403 (Results 735)

11:

Search 11 and stac = (*processor or *controller) (Results 553)

12:

Search 12 and dimmer (Results 40)

13:

Search 12 and current detecting (Results 0)

14:

Search 12 and (communication or network or wireless) (Results 538)

15:

Search 15 and domotica (Results 2)

16:

Search 15 or 16 (Results 538)

17:

Search 12 and sta=(control* and (environment or ambient)) (Results 81)

18:

Search IC=(G05B) (Results 351306)

19:

Search 12 and 19 (Results 96)

20:

Search 18 and 20 (Results 26)

21:

Search 20 and dimmer (Results 14)

22:

1) Family number: 56033950 (US2014084165A)

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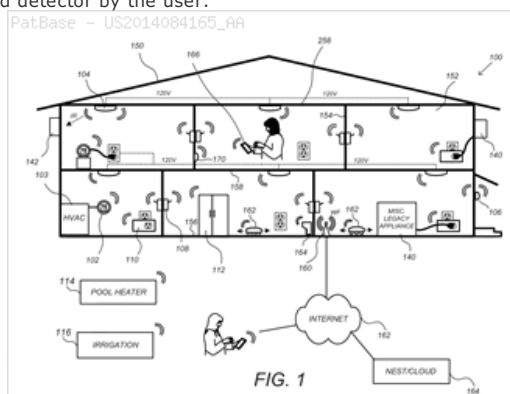
Title: SELECTABLE LENS BUTTON FOR A HAZARD DETECTOR AND METHOD THEREFOR

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

Classifications:

International (IPC 8-9): A47G29/14 B23P19/00 F16M13/02 F24F11/00 G01D11/24 G01J5/02 G01J5/04 G01J5/08 G01L19/14 G01M1/38 G01N21/84 G01V8/10 G05B13/00 G05B15/02 G05B19/02 G05B19/04 G05B21/00 G05F1/46 G06F1/32 G06F21/31 G06F21/44 G06K9/00 G06N5/04 G06Q10/00 G06Q10/06 G06Q10/08 G06Q50/10 G06Q50/28 G07C9/00 G08B1/08 G08B13/00 G08B13/184 G08B13/19 G08B13/193 G08B13/22 G08B15/00 G08B17/00 G08B17/10 G08B17/107 G08B17/11 G08B17/113 G08B17/117 G08B19/00 G08B21/00 G08B21/02 G08B21/14 G08B21/18 G08B21/22 G08B23/00 G08B25/00 G08B25/04 G08B25/08 G08B25/10 G08B25/14 G08B27/00 G08B29/00 G08B29/14 G08B29/18 G08B29/20 G08B3/10 G08B5/22 G09B21/00 H01H11/00 H01H13/50 H01H3/12 H01H9/02 H02J1/06 H02J13/00 H02J7/00 H04B1/20 H04L12/16 H04L12/18 H04L12/28 H04L12/64 H04L29/06 H04L29/08 H04L7/00 H04M1/725 H04Q9/00 H04W12/00 H04W4/00 H04W4/80 H04W52/02 H04W80/02 H04W84/18 H05B37/02 H05K1/02 H05K1/18 H05K3/32 H05K5/00 H05K5/02 (Advanced/Invention); C08L1/00 G02B3/08 G05B19/04 G08B13/193 G08B15/00 G08B17/10 G08B17/11 G08B17/113 G08B21/14 G08B25/00 G08B29/18 G08B29/20 G08B5/36 G08B6/00 H02M1/00 H04L12/28 H04W4/00 (Advanced/Non-invention)

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: GOOGLE INC

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

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

2) Family number: 44938047 (US2010101854A)

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Title: FLUSH WALL MOUNT THERMOSTAT AND IN-SET MOUNTING PLATE FOR A HEATING, VENTILATION AND AIR CONDITIONING SYSTEM

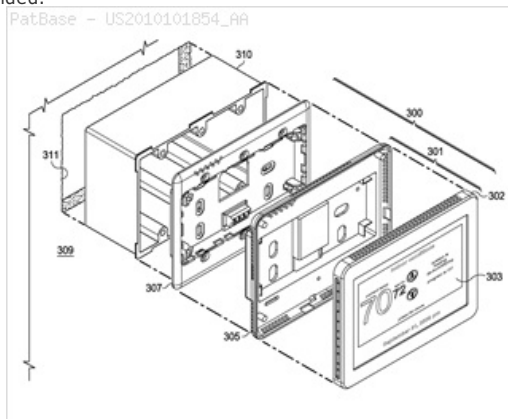
Abstract: One aspect provides of this disclosure provides a flush wall mounting system for an electronic controller. This embodiment comprises a housing for receiving electrical components therein and having a front panel and a back panel coupled to the front panel. The back panel has a raised portion extending therefrom. This aspect further includes a mounting plate removably couplable to the back panel of the housing and has front and back sides. The front side includes a flange around a perimeter thereof and has a recess formed therein configured to receive the raised portion of the back panel therein. The recess forms a raised portion extending from the back side and configured to be receivable within an opening in a wall. A method for manufacturing the mounting system is also provided.

Classifications:

International (IPC 8-9): A47L15/00 B23P11/00 B23P17/00 B60H1/00 F24F11/00 F24F11/02 F24F11/053 F24F11/30 F24F11/76 F24F13/20 F24F3/044 F24F7/007 G01M1/38 G05B11/01 G05B13/00 G05B13/02 G05B15/00 G05B15/02 G05B19/00 G05B19/04 G05B19/042 G05B19/18 G05B21/00 G05B23/02 G05B9/03 G05D22/02 G05D23/00 G05D23/19 G05D23/24 G05D27/02 G05D3/12 G06F1/00 G06F11/14 G06F12/00 G06F12/02 G06F12/14 G06F13/00 G06F13/42 G06F15/00 G06F15/16 G06F15/177 G06F17/00 G06F19/00 G06F3/00 G06F3/01 G06F3/041 G06F3/048 G06F3/0481 G06F3/0488 G06F3/14 G06F9/24 G06F9/54 G08B17/00 G08B21/00 G08B21/18 G08B23/00 G08B25/00 G08B29/00 G09G5/00 H01H13/04 H01H13/46 H01H19/04 H01H21/04 H01H23/04 H01H37/04 H01H9/02 H01R13/502 H02G3/12 H02G3/16 H04L1/08 H04L12/00 H04L12/16 H04L12/24 H04L12/26 H04L12/28 H04L12/40 H04L12/407 H04L12/413 H04L12/66 H04L29/08 H04L29/10 H04L29/12 H04L9/32 H05B3/68 H05K5/00 H05K7/02 H05K7/20 (Advanced/Invention); F24F11/00 G05B15/00 G05D23/19 G06F13/00 G06F3/01 G06F3/033 G06F3/048 G06F3/0481 G06F9/06 H04J3/16 H04L12/40 (Advanced/Non-invention);

B23P11/00 B23P17/00 F24F11/00 F24F11/04 F24F7/007 G05B13/00 G05B15/00 G05D23/00 G05D23/19 G06F11/14 G06F12/02 G06F12/14 G06F15/16 G06F3/041 G06F3/048 G06F9/24 G06F9/46 G08B21/00 G08B29/00 H02G3/12 H04L1/08 H04L12/00 H04L9/32 (Core/Invention); G05B15/00 G05D23/19 G06F13/00 G06F3/033 G06F3/048 (Core/Non-invention) **CPC:** H04L1/0061 H04L1/18 H04L12/413 G06F11/1441 G06F11/2028 G06F11/2038 H04L12/281 B60H1/00735 B60H1/00978 H04L12/2818 G06F1/3203 G06F1/3231 G06F1/3265 H04L69/32 H04L67/16 H04L12/2838 H04L12/417 F24F13/0209 G06F9/4401 G06F12/1416 G06F3/0481 G05D23/1904 G05B2219/25076 G05B2219/25101 G05B19/0426 G06F3/04847 G06F3/0488 G05B15/00 H04L12/2827 H02G3/123 F24F13/20 H04L29/12254 H04L61/2038 H04L12/407 H04L67/12 H04L67/125 F24F2221/52 G08B21/187 A47L15/0063 G05B23/0272 Y10T29/49826 Y10T29/49833 G05B23/027 Y10T29/49 G05D23/1931 G05D23/24 G06F3/04886 G05D23/1927 B60H1/00985 H04L12/2816 H04L41/06 G05B2219/23211 G05B2219/23213 H04L12/2807 H04L12/40 H04L2012/40215 G06F3/01 G06F9/06 B60H1/00642 G05B2219/24048 G05B2219/24058 G05B2219/24123 G05B2219/25056 G05B2219/25083 G05B2219/25199 G05B2219/25232 G05D23/1917 Y02P80/114 G05B19/0428 G05B2219/2614 G05D23/1902 G05B19/4185 G05B2219/24033 G05B2219/25011 G05B2219/25012 G05B19/042 G05B2219/23314 F24F11/65 Y02D10/13 F24F11/46 F24F11/32 F24F11/41 F24F11/47 F24F11/56 Y02D10/153 Y02D10/173 F24F11/00 F24F11/58 H04L12/2823 F24F2110/50 F24F11/0008 H04L12/2803 H04L43/10 G05B2219/2642 H04L12/2809 H04L12/282 H04L12/66 H04L2012/285 G06F8/654 G05D22/02 G05B15/02 G05D23/1932 F24F11/62 F24F2130/00 F24F2130/10 F24F11/77 F24F11/74 G05D27/02 F24F11/30 F24F11/52 F24F11/54 F24F11/63

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US: 1/1 174/489 174/502 174/561 174/58 219/448.12 236/49.3 236/49.300P 236/51 236/94 29/428 29/428S 29/432 29/432S 29/592 29/592S 337/380 340/12.29 340/3.1 340/3.44 340/506 340/506P 340/584 340/584P 340/679 345/581 345/589 345/593 345/619 345/671 345/902 361/679.49 361/809 370/448 380/201 62/79 700/153 700/159 700/174 700/202 700/205 700/21 700/241 700/244 700/275 700/276 700/276P 700/276S 700/277 700/277P 700/278 700/278P 700/278S 700/295 700/32 700/50 700/52 700/79 700/80 700/82 700/9 705/412 709/206 709/206P 709/206S 709/217 709/217S 709/219 709/219S 709/220 709/220P 709/220S 709/221 709/221S 709/222 709/222P 709/222S 709/223 709/224 709/249 709/250 709/250S 710/10 710/104 710/105 710/306 710/316 710/316S 710/9 711/103 711/103S 711/162 711/162P 711/163 711/163S 711/E12.002 711/E12.002S 711/E12.091 711/E12.091S 711/E12.103 713/2 713/2P 714/15 714/15P 714/4.11 714/55 714/748 714/748P 714/E11.113 714/E11.113S 714/E11.118 714/E11.118S 715/702 715/702P 715/708 715/708S 715/709 715/709P 715/733 715/733S 715/735 715/735P 715/760 715/760S 715/764 715/764S 715/769 715/769S 715/771 715/771P 715/771S 715/772 715/772S 715/777 715/777P 715/777S 715/779 715/833 715/833S 715/863 715/863S 715/867 715/867S 715/961 719/315 719/315S 726/7 726/7P 741/4.11

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: LENNOX IND INC

Assignee(s): (std): LENNOX MFG INC A CORP OF DELAW ; LENNOX IND ; LENNOX IND INC ; HADZIDEDIC DARKO ; JENNINGS JACOB ; KAILANI AMMAR ; WALLAERT TIMOTHY E ; THORSON TIMOTHY H ; MIRZA MUHAMMAD ALI ; PAVLAK THOMAS GERALD ; WALLAERT TIMOTHY ; SULLIVAN DANIEL ; NANJUNDESHAIAH KAMALA KODIHALLY ; SPENCER CHRISTOPHER W ; STANBOULY SOUHEL H ; PAVLAK THOMAS GERARD ; POWELL JOE ; PAVLAK THOMAS G ; COURTNEY MICHAEL ; CURRY JIMMIE ; DEVINENI SURESH KUMAR ; FILBECK AMANDA ; GROHMAN WOJCIECH

Assignee(s): LENNOX MFG INC ; LENNOX IND INCORPORATION ; LENNOX IND INC RICHARDSON ; LENNOX MFG INC A OF DELAWARE CORP ; LENNOX MFG INC A CORP OF DELAWARE

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Inventor(s): WOJCIECH GROHMAN ; AMANDA FILBECK ; DARKO HADZIDEDIC ; TIMOTHY E WALLAERT

Agent(s): SPRUSON AND FERGUSON; KIRBY EADES GALE BAKER; PAGE WHITE AND FARRER; WILLIAMS DAVID JOHN; HITT GAINES PC; BAKER BOTTS LLP; BETTY E; LENNOX IND INC; OSMAN

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

3) Family number: 58741984 (US2015096352A)

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Title: SMART-HOME SYSTEM FACILITATING INSIGHT INTO DETECTED CARBON MONOXIDE LEVELS

Abstract: In an embodiment, a method determines one or more sources of carbon monoxide (CO) in a smart-home environment that includes a plurality of smart devices that have at least measurement and communication capabilities. The method includes measuring a level of CO in the smart-home environment to generate a CO measurement, and providing the CO measurement and one or more current characteristics of the smart-home environment, from one or more of the smart devices to an analyzing device. The method further includes evaluating, by the analyzing device and with the CO measurement and the current characteristics of the smart-home environment, a set of CO correlation scenarios that attribute generation of CO to a corresponding one of a set of specific sources, and selecting one or more of the specific sources as the most likely source of the CO, by aggregating results of the correlation scenarios.

Classifications:

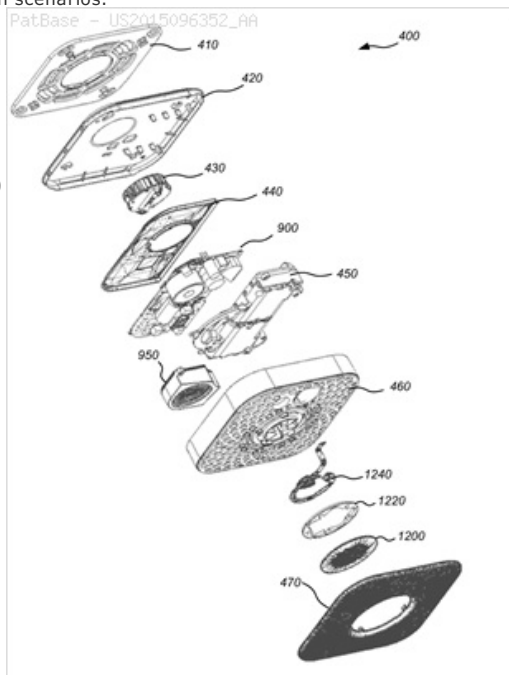
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Inventor(s): WEBB NICK MOUNTAIN VIEW ; SIMISTER JAMES B MOUNTAIN VIEW ; SLOO DAVID MOUNTAIN VIEW ; ROSSI SHINEY MOUNTAIN VIEW ; ROGERS MATTHEW L MOUNTAIN VIEW ; LOGUE JAY MOUNTAIN VIEW ; FADELL ANTHONY M MOUNTAIN VIEW ; HONJO SHIGEFUMI MOUNTAIN VIEW ; LE GUEN SOPHIE MOUNTAIN VIEW ; ERICKSON GRANT MOUNTAIN VIEW ; COPPOCK KEVIN MOUNTAIN VIEW ; BRUCK TIMO A MOUNTAIN VIEW ; BOETTCHER JESSE W MOUNTAIN VIEW ; BOYD JEFFREY A MOUNTAIN VIEW

Agent(s): GOWLING WLG CANADA LLP; BETTEN AND RESCH PATENT U RECHTSANWAELTE PARTGMBB; BOULT WADE TENNANT; BOULT WADE TENNANT LLP; FUKAMI PATENT OFFICE PC; KILPATRICK TOWNSEND AND STOCKTON LLP; SAAB KARAM ET AL; FRANKLIN THOMAS D ET AL; BERGSTROM JAMES ET AL; HOLLISTER MATTHEW A ET AL

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

4) Family number: 32273667 (US2005216302A)

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Title: BUSINESS METHOD FOR PREMISES MANAGEMENT

Abstract: Some embodiments of a method for premises management networking include monitoring premises management devices connected to a gateway at a premises; controlling premises management devices connected to the gateway at the premises; receiving, at the premises, an uplink-initiation signal associated with a network operations center server; and in response to the uplink-initiation signal, initiating, from the gateway at the premises, communications between the gateway and the network operations center server; and communicating, during the communications between the gateway and the network operations center server, information associated with the premises management devices.

Classifications:

International (IPC 8-9): B60L11/18 B63H25/02 B64C39/02
E05B51/00 G01C21/00 G01C21/16 G01C21/20 G01S19/42
G05B11/01 G05B15/02 G05B19/042 G05D1/00 G05D1/02 G05D1/10
G05D23/19 G05F1/00 G06F1/26 G06F1/30 G06F1/32 G06F11/07

PatBase - US2005216302_AA

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Homeowners, Field personnel, Maintenance crew

Customers

MDU owners & managers, Home Developers, Service providers

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112

116

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Network

Network Operations Center

Real-time Control and Monitoring

Premises

Device Network

- Server-in-the-sky
- Web portal interface
- XML/SOAPI interface
- Monitoring & control
- Logging
- Alarming & notification

CPC: G06F17/3089 G08B25/12 G06Q30/00 H04L29/12028 H04L29/12113 H04L61/103 H04L61/1541 H04L61/2061
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Family:

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Probable Assignee: ICONTROL NETWORKS INC

Assignee(s): (std): BAUM MARC ; BITONIO REN ; BOYD WESTON ; BURD DANA ; CHU FRANK ; DAWES PAUL J ; DECENZO CHRIS ; FULKER JIM ; DAWES PAUL ; GATES COREY ; ELDERTON JOHN ; GUO WEIPING ; FENTON WAYNE ; CONTROL NETWORKS INC ; ICONTROL NETWORKS INC ; RAJI REZA ; GUTT GERALD ; STEVENS CHRIS ; ICONTROL NETWORKS ; GUTT GERRY ; KINNEY MIKE ; ICONTROL ; HAZBUN ROBERT ; GUPTA ABHAY ; LEA THOMAS ; MCKENZIE KYLE ; KITCHEN JIM ; PROFT DAVID ; WOOD AARON ; WALES CAROLYN ; SWENSON DAVID ; SUNDERMEYER KEN

Assignee(s): ICN ACQUISITION LLC ; SILICON VALLEY BANK ; NISHIOKA SUGURU ; ICORTROL NETWORKS INC ; DAVIDSON MATT

Inventor(s): (std): STEVENS CHRIS ; YANG NATHAN ; WOOD AARON ; SWENSON DAVID ; SUNDERMEYER KEN ; PROFT DAVID ; NISHIOKA SUGURU ; MCKENZIE KYLE ; LEA THOMAS ; KITCHEN JIM ; KINNEY MIKE ; GUTT GERRY ; GUTT GERALD ; GUPTA ABHAY ; GUO WEIPING ; GATES COREY ; ELDERTON JOHN ; DOMANGUE JASON ; DECENZO CHRIS ; DAWES PAUL J ; DAVIDSON MATT ; CHU FRANK ; CHMIELEWSKI TOM ; BITONIO REN ; BAUM MARC ; WALES CAROLYN ; SPEER MICHAEL ; QUAIN COREY WAYNE ; PROFT DAVID LEON ; KITCHEN JAMES EDWARD ; HELEN ADRIAN ; FULKER JIM ; FAULKNER GARY ROBERT ; DIAL IV JOHN DEGRAFFENREID ; DEARMAN CLAY ; COHN ALAN WADE ; BRYAN MARK ; HAZBUN ROBERT ; DAWES PAUL ; BURD DANA ; FENTON WAYNE ; BRYAN MARC ; BOYD WESTON ; RAJI REZA

Inventor(s): REZA RAJI ; CHRIS STEVENS ; GERALD GUTT

Agent(s): GRIFFITH HACK ; SPRUSON AND FERGUSON ; FETHERSTONHAUGH AND CO ; BORDEN LADNER GERVAIS LLP ; GOWLING WLG CANADA LLP ; D YOUNG AND CO LLP ; BERESFORD KEITH DENIS LEWIS ; VO ; OHTSUKA FUMIAKI ; SUDA HIROYUKI ; KUMAKURA YOSHIO ; NISHIJIMA TAKAKI ; WILSON SONSINI GOODRICH AND ROSATI ; COURTNEY STANIFORD AND GREGORY LLP ; GREGORY AND SAWRIE LLP ; IPR LAW GROUP PC ; IPR LAW GROUP PC ; BAKER AND HOSTETLER LLP ; WILLMAN GEORGE A ; GREGORY RICHARD L ET AL ; STANIFORD GEOFFREY T ET AL ; COURTNEY BARBARA B ET AL ; GREGORY RICHARD L JR ET AL ; GREGORY RICHARD L

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

5) Family number: 23352112 (US2005043907A)

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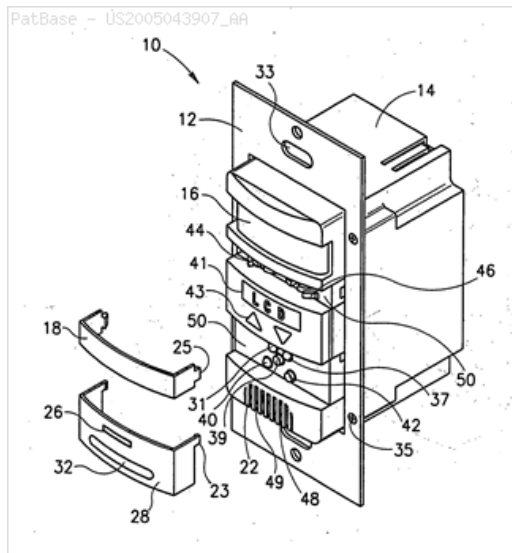
Title: NETWORK BASED MULTIPLE SENSOR AND CONTROL DEVICE WITH TEMPERATURE SENSING AND CONTROL

Abstract: A multifunction sensor device which provides various transducer functions including means for performing temperature sensing, humidity sensing, ambient light sensing, motion detection, thermostat functions, switching functions, load switching and dimming functions, displaying actual and set temperature values, displaying time of day values and a means to put the device in an on, off or auto mode. The device has utility in environments such as that found in offices, schools, homes, industrial plants or any other type of automated facility in which sensors are utilized for energy monitoring and control, end user convenience or artificial or natural cooling, heating and HVAC control. The device can be used as a switch or dimmer, sensor or thermostat as well as to adjust and control all natural and artificial lighting, temperature and humidity devices. Key elements of the invention include overcoming the difficulty of mounting diverse sensors or transducers within the same device or housing; permitting these various sensors to exist in a single package that can be mounted to a wall in a substantially flush manner; and eliminating the requirement of an air flow channel in the device, thus minimizing any adverse effects on the motion detecting element or sensor as well as providing built in partial hysteresis. The device may include additional transducers or sensors and is constructed such that the temperature and humidity sensors are neither exposed to the flow of air in a room or area nor in an airflow channel whereby a chimney effect may occur. The device can transmit and receive real time data, relative data and actual discrete data in addition to switching and controlling loads locally or remotely. An embodiment utilizing airflow channels to direct air over the temperature and humidity sensors is also disclosed.

Classifications:

International (IPC 8-9): G01J1/28 G01K1/02 G01K1/04 G01K1/08 G05B23/02 G06F15/17 G08B13/19 G08B19/00 G08B3/00 H04B1/00 H04L12/28 H04Q7/00 H05B37/02 H05B41/392 (Advanced/Invention);

G01J1/10 G01K1/00 G01K1/08 H05B37/02
H05B41/39 (Core/Invention)
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H04Q7/00 H05B37/00 H05B37/02
CPC: G01K1/045 G01K1/08 H05B37/02 H05B37/0227 H05B37/0245
H05B37/0254 H05B41/3922 Y02B20/44 G01J1/28 G01K1/024
H05B37/0218 Y02B20/46
European: G01J1/28 G01K1/02C G01K1/04B G01K1/08 H05B37/02
H05B37/02B2 H05B37/02B4 H05B37/02B6 H05B37/02B6D
H05B41/392D2 Y02B20/44 Y02B20/46
US: 315/158 315/294 315/295 315/312 340/12.32 340/309.16
340/310.11 340/517 340/521 340/525 340/565 340/567 340/584
340/600 340/691.4 340/693.5 374/138 374/142 374/208
374/E01.004 374/E01.008 374/E01.011 374/E1.004 374/E1.008
374/E1.011 374/E10.04 374/E10.08 374/E10.08S 374/E10.11
374/E10.11S 700/277 702/62 702/62P 710/15



Family:

Publication number	Publication date	Application number	Application date
AU199939885 A1	19991206	AU19990039885	19990513
AU199939886 A1	19991206	AU19990039886	19990513
AU199940805 A1	19991206	AU19990040805	19990514
AU199940835 A1	19991206	AU19990040835	19990513
CA2332858 AA	20001117	CA19992332858	19990513
CA2332859 AA	20001117	CA19992332859	19990514
CA2332866 AA	20001117	CA19992332866	19990513
CA2332871 AA	20001117	CA19992332871	19990513
US2005043907 AA	20050224	US20040951244	20040927
US6122678 A	20000919	US19990243276	19990202
US6307331 BA	20011023	US19990306219	19990506
US6388399 BA	20020514	US20010821657	20010126
US6798341 BA	20040928	US20000701115	20001117
WO9960354 A1	19991125	WO1999US10583	19990513
WO9960538 A1	19991125	WO1999US10769	19990514
WO9960803 A1	19991125	WO1999US10584	19990513
WO9960804 A1	19991125	WO1999US10918	19990513

Priority:

US19980085814P 19980518	US19980213497 19981217	US19990243276 19990202
US19990306219 19990506	WO1999US10584 19990513	WO1999US10583 19990513
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US20010821657 20010126	US20040951244 20040927	

Probable Assignee: LEVITON MFG CO INC

Assignee(s): (std): BONASIA GAETANO ; ECKEL DAVID P ; PORTER JAMES A ; LEVITON MFG CO ; LEVITON MANUFACTURING CO ; LEVITON MANUFACTURING CO INC

Assignee(s): TANSI GLICKMAN SELIN ; LEVITON MFG CO INC ; LEVITON MFG ; HEBEISEN STEPHEN P

Inventor(s): (std): ECKEL DAVID P ; GAETANO BONASIA ; HEBEISEN STEPHEN P ; JAMES A PORTER ; PORTER JAMES A ; SELIN TANSI GLICKMAN ; STEPHEN P HEBEISEN ; TANSI GLICKMAN SELIN ; BONASIA GAETANO ; DAVID P ECKEL

Inventor(s): ECKEL DAVID ; PORTER JAMES

Agent(s): RIDOUT AND MAYBEE LLP; PAUL J SUTTON ESQ BARRY G MAGIDOFF ESQ GREENBERG TRAURIG LLP

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

6) Family number: 52155572 (US2012265350A)

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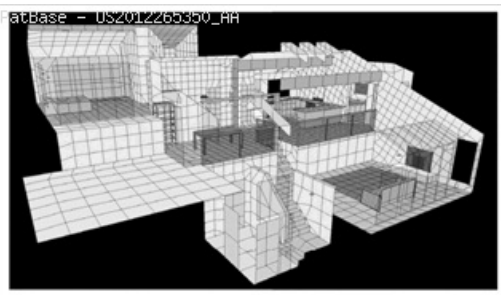
Title: PREDICTIVE DAYLIGHT HARVESTING SYSTEM

Abstract: In the context of a predictive daylight harvesting system data values are input regarding a plurality of variable building design parameters. The effects on a building's environmental characteristics are calculated based on the data values regarding a plurality of building design parameters. At least one of the data values is changed regarding variable building design parameters. The effects on a building's environmental characteristics are recalculated based on the data values regarding a plurality of building design parameters building heat balance.

Classifications:

International (IPC 8-9): F21S11/00 F24F11/30 F24F11/46 F24J2/00
F24J2/40 F24S50/00 F24S50/40 G05B13/00 G05B13/04 G05B19/042
G05B19/048 G05D23/00 G06F17/00 G06F17/11 G06F17/50
G06T15/00 G06T15/04 G06T15/50 G06T15/55 G06T15/80
H05B37/00 H05B37/02 (Advanced/Invention);
F24F11/00 F24F11/30 F24F11/47 F24F130/20
H05B37/02 (Advanced/Non-invention)
CPC: H05B37/00 Y02B20/40 G06F17/11 G06F17/5009 G05B19/048
G05B2219/2642 G06T15/506 G06T15/80 G06T15/005 G06T15/04
G06F17/504 G06T15/55 G06T2215/16 G06F17/5004 G06F2217/78
H05B37/0227 H05B37/0218 H05B37/0281 Y02B20/42 Y02B20/46

G05B19/042 H05B33/086 F24F2120/10 Y02E10/40 G06F17/5018
F24F11/0034 F24F2011/0049 F24F2011/0094 F24S2201/00 F24F11/30
F24F11/47 F24F2130/20 G05B15/02 G05B13/048
European: G05D23/19G4C2
US: 1/1 700/276 700/90



Family:

Publication number	Publication date	Application number	Application date
CA2774261 AA	20121014	CA20122774261	20120416
US2012265350 AA	20121018	US20120446577	20120413
US2016007426 AA	20160107	US20150792590	20150706
US2017185057 AA	20170629	US20170407176	20170116
US2017192406 AA	20170706	US20170470180	20170327
US2017345208 AA	20171130	US20170666938	20170802
US2018242429 AA	20180823	US20180960448	20180423
US9078299 BB	20150707	US20120446577	20120413
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Priority:

US20110457509P	20110414	US20110565195P	20111130	US20120446577	20120413
CA20122774261	20120416	US20150172641P	20150608	US20150792590	20150706
US20160279764P	20160117	US20160313718P	20160326	US20160369912P	20160802
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US20180960448	20180423				

Probable Assignee: SUNTRACKER TECHNOLOGIES LTD

Assignee(s): (std): ASHDOWN IAN ; SUNTRACKER TECH LTD ; SUNTRACKER TECHNOLOGIES LTD

Inventor(s): (std): ASHDOWN IAN ; SCOTT WALLACE JAY

Agent(s): GORNALL PAUL D; MICHAEL J; ALLEMAN HALL CREASMAN AND TUTTLE LLP

7) Family number: 55898887 (US2014067130A)

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Title: SYSTEMS, METHODS AND ARTICLES FOR ENHANCING WELLNESS ASSOCIATED WITH HABITABLE ENVIRONMENTS

Abstract: Environmental characteristics of habitable environments (e.g., hotel or motel rooms, spas, resorts, cruise boat cabins, offices, hospitals and/or homes, apartments or residences) are controlled to eliminate, reduce or ameliorate adverse or harmful aspects and introduce, increase or enhance beneficial aspects in order to improve a "wellness" or sense of "wellbeing" provided via the environments. Control of intensity and wavelength distribution of passive and active Illumination addresses various issues, symptoms or syndromes, for instance to maintain a circadian rhythm or cycle, adjust for "jet lag" or season affective disorder, etc. Air quality and attributes are controlled. Scent(s) may be dispersed. Hypoallergenic items (e.g., bedding, linens) may be used. Water quality is controlled. Noise is reduced and sounds (e.g., masking, music, natural) may be provided. Passive and active pathogen controls are employed. Controls are provided for the occupant and/or facility personnel, as is instruction, and surveys, including assessing wellness.

Classifications:

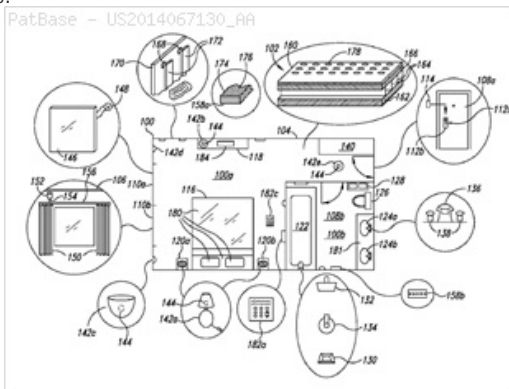
International (ipc 8-9): A61L2/00 A61L9/00 A61L9/20 A61M21/00 A61M21/02 B60H3/00 F24F11/00 F24F3/12 G05B G05B15/02 G05B19/04 G05B19/048 G05B19/05 G05B19/406 G05B19/414 G05D27/02 G06F19/00 G06F3/16 H04L12/28 H05B37/02 (Advanced/Invention);

A61L2/00 A61L9/00 A61L9/20 A61M21/00 A61M21/02 A61N5/06 B05B1/18 B60H3/00 E03C1/046 F24F11/00 F24F11/30 F24F120/10 F24F120/14 F24F3/12 F24F3/16 G05B15/02 G05B19/048 G06F19/00 G06F3/16 G16H40/20 H04L12/28 H05B37/02 (Advanced/Non-invention);

G05B (Subclass/Invention)

CPC: H05B37/02 A61L2/00 A61L9/00 A61M21/0094 A61M2021/0011 A61M2021/0016 A61M2021/0022 A61M2021/0027 A61M2021/0044 A61M2021/0066 A61M2205/0205 A61M2205/0238 A61M2205/3368 A61M2205/3553 A61M2205/3561 A61M2205/3584 A61M2205/3592 A61M2205/42 A61M2205/50 A61M2205/505 A61M2205/6018 A61M2205/6054 A61M2205/7509 A61M2205/7518 A61M2205/7545 A61M2230/04 A61M2230/50 A61M2230/63 A61N5/0618 B05B1/18 E03C1/046 F24F3/12 F24F11/0008 F24F2003/1689 G05B15/02 G05B2219/2642 H04L12/2816 H04L12/2827 G06F3/165 A61L9/20 A61M2021/0083 A61M2205/13 A61M2205/52 A61M2205/6063 A61M2230/005 A61L2209/11 G06F19/3418 H05B37/0209 A61M21/02 B60H3/0007 H05B37/0227 H05B37/0245 G05D27/02 G05B19/048 G05B19/054 G05B2219/1103 Y02A90/22 Y02A90/26 H04L12/2829 F24F11/30 F24F2120/10 F24F2120/14 G16H40/20 G06F19/00

US: 315/152 315/297 700/275



Family:

Publication number	Publication date	Application number	Application date
AU2013308871 AA	20140306	AU20130308871	20130828
AU2013308871 BB	20170413	AU20130308871	20130828
AU2017200995 AA	20170309	AU20170200995	20170214
AU2017200995 BB	20180809	AU20170200995	20170214
BR112015004595 A2	20170704	BR20151104595	20130828
CA2882537 AA	20150219	CA20132882537	20130828
CN104685428 A	20150603	CN201380051774	20130828
CN104685428 B	20170301	CN201380051774	20130828
CN106950908 A	20170714	CN201710064242	20130828

PatBase PDF Export - Page: 18 17/12/2018

Title: UPGRADEABLE AUTOMATION DEVICES, SYSTEMS, ARCHITECTURES, AND METHODS

Abstract: A multi-level automation control architecture, methods, and systems are disclosed, which provide enhanced scalability, functionality, and cost effectiveness for energy, access, and control. The systems include various combinations of automation controllers, remote controllers and peripheral devices that are used to provide monitoring and control functionality over the various systems in a structure, such as HVAC, water, lighting, etc. In various embodiments, the automation controller and various peripheral devices are implemented to provide an integrated energy management system for the structure. The system allows the user to manage energy based on the day, time, the presence of people, and the availability of natural lighting and heating, as well as prioritize and participate in demand-response program. The system can be implemented using a remote controller and expanded through the addition of automation controllers, remote controllers, and peripheral devices to enable the system to be tailored to specific user requirements.

Classifications:

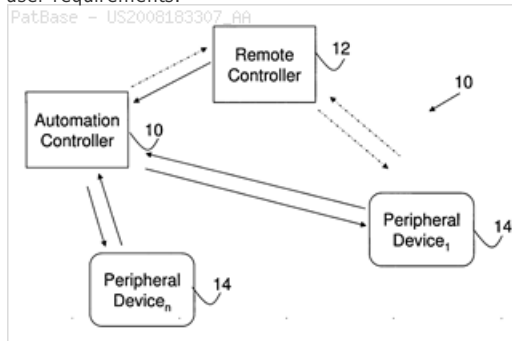
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International (IPC 1-7): G05B11/01

CPC: H05B37/0245 H05B33/0845 G05B11/01 G05B19/042 G05B2219/2642

European: G05B19/042 S05B219/2642

US: 315/154 315/294 700/11 700/11P 700/19 700/20 700/275 700/8 700/8P 700/90 700/90P



Family:

Publication number	Publication date	Application number	Application date
AU2008207842 AA	20080731	AU20080207842	20080125
AU2008207842 BB	20130801	AU20080207842	20080125
CA2676538 AA	20090724	CA20082676538	20080125
CA2849467 AA	20141022	CA20142849467	20140422
EP2118716 A2	20091118	EP20080728292	20080125
EP2118716 A4	20110511	EP20080728292	20080125
IN04928CN2009 A	20091030	IN2009CN04928	20090821
US2008183307 AA	20080731	US20080971464	20080109
US2008183316 AA	20080731	US20080971487	20080109
US2011213472 AA	20110901	US20110103458	20110509
US2014217905 AA	20140807	US20130959730	20130805
US2014225528 AA	20140814	US20140214227	20140314
US7865252 BB	20110104	US20080971487	20080109
US8504174 BB	20130806	US20110103458	20110509
WO08092082 A2	20080731	WO2008US52055	20080125
WO08092082 A3	20081030	WO2008US52055	20080125

Priority:

US20070886918P 20070126	US20080971464 20080109	US20080971487 20080109
WO2008US52055 20080125	US20110103458 20110509	US20130792312P 20130315
US20130813634P 20130418	US20130814805P 20130422	US20130959730 20130805
US20140214227 20140314	US20140214174 20140314	

Probable Assignee: AUTANI LLC

Assignee(s): (std): ANTONE MICHAEL ; AUTANI CORP ; CLAYTON RANDY ; RAHME DANIEL ; SEABURY JAMES

Assignee(s): SEABURY JAMES1300 FORT NEGLEY BLVDNASHVILLETN37203US ; CLAYTON RANDYSUITE B - 7170 RIVERWOOD DRIVECOLUMBIAMD21046US ; AUTANI LLC

Inventor(s): (std): ANTONE MICHAEL ; CLAYTON RANDY ; RAHME DANIEL ; SEABURY JAMES

Inventor(s): CLAYTON RANDYSUITE B - 7170 RIVERWOOD DRIVECOLUMBIAMD21046US ; RANDY CLAYTON ; SEABURY JAMES1300 FORT NEGLEY BLVDNASHVILLETN37203US ; DANIEL RAHME ; MICHAEL ANTONE

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; CALLON DE LAMARCK JEAN ROBERT; MICHAEL ANTONE; ANTONE MICHAEL

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

Title: UNIVERSAL CONTROL APPARATUS AND METHODS

Abstract: Apparatus and methods for control of one or more functions within a premises. In one embodiment, the control apparatus comprises a "universal" electronic switch which can be configured according to any number of different desired functional and/or aesthetic schemes. The apparatus uses removable and replaceable control elements which are purely mechanical in nature, thereby allowing consolidation of all electrical functions within the parent control module. An improved control circuit including thermal overload protection is also disclosed, as are methods of operating and manufacturing the apparatus.

Classifications:

International (IPC 8-9): G05B11/01 G05B19/00 G05B23/02

G08B23/00 H01H13/70 H05K5/00 (Advanced/Invention);

G05B11/01 G05B19/00 G05B23/02 G08B23/00 H01H13/70

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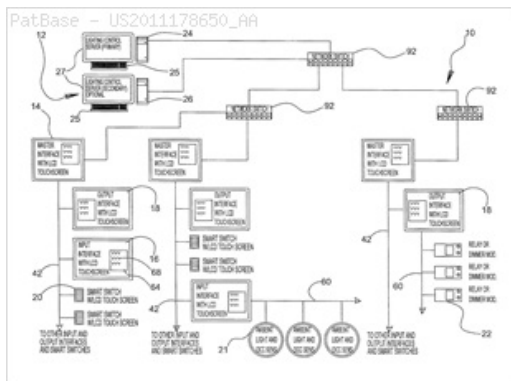
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H01H2011/0093 H01H2300/03 Y02B90/224 Y04S20/14

Publication number	Publication date	Application number	Application date
US2006065510 AA	20060330	US20050218899	20050902
US7400239 BB	20080715	US20050218899	20050902
WO06029206 A2	20060316	WO2005US31866	20050906
WO06029206 A3	20070524	WO2005US31866	20050906

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

US: 1/1 250/265 315/149 362/4 700/295 700/295P 700/90 700/90P



Publication number	Publication date	Application number	Application date
US2011178650 AA	20110721	US20110076521	20110331
US2011245938 AA	20111006	US20110065140	20110315
US2011245940 AA	20111006	US20110076515	20110331
US2017347421 AA	20171130	US20170681398	20170820
US8280558 BB	20121002	US20110076521	20110331
US9173267 BB	20151027	US20110065140	20110315
WO11123614 A1	20111006	WO2011US30684	20110331

Inventor(s): (std): PICCO MICHAEL L

Agent(s): BARNES AND THORNBURG LLP; CARSON BOXBERGER LLP; JACQUE R; WEVER MICHAEL E

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

12) Family number: 55882326 (US2014067137A) © PatBase

Title: SYSTEM AND APPARATUS FOR PROVIDING AND MANAGING ELECTRICITY.

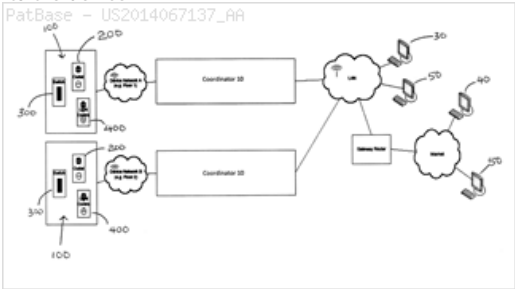
Abstract: A system and device for providing power to and monitoring the energy usage of a device connected thereto includes a unit having one or more circuit boards having components for detecting the energy usage of the connected device and an interface for electrically connecting to the device. The unit communicates with a coordinator regarding the connected device or the state of the unit itself. Depending on the communication received from the unit, the coordinator relays the received data to a server and awaits instruction, or immediately commands the unit to take a certain action. If the server receives data from the coordinator, it sends such data to a remote server, saves it, generate reports based thereon, and/or alerts a user regarding same. The user can choose to send a command to the unit or device through the system, for example, to shut down, turn on, or to adjust the power being supplied to the device.

Classifications:

International (IPC 8-9): G01R G01R21/00 G05B15/02 G06F1/26 H01R12/16 H01R12/50 H01R13/66 H01R13/73 H01R24/76 H01R24/78 H02J13/00 H03K17/00 H04L5/02 H04M11/00 H04Q9/00 H3K17/00 H4L5/02 (Advanced/Invention); H01R13/66 H02G3/16 (Advanced/Non-invention); H03K17/00 (Core/Invention); G01R (Subclass/Invention)

CPC: H03K17/00 H01R23/725 G05B15/02 H01R13/6683 G05B2219/2642 H02J13/001 H02J13/0062 H02J13/0075 Y02B70/3216 Y02B70/3241 Y04S20/221 Y04S20/227 G06F1/26 H01R13/6691 H01R24/78 G06F1/1626 G06F1/1632 G06Q50/06 H01H2300/03 H05B37/02 H05B37/0245 G06Q10/063 G06Q10/0833 G06Q10/1091 G06Q30/0202 Y02B90/224 Y04S10/54 Y04S10/56 Y04S20/14

US: 327/365 439/345 439/620.21 439/660 439/78 700/286



Family:

Publication number	Publication date	Application number	Application date
AU2013305773 AA	20140227	AU20130305773	20130821
AU2016219629 AA	20160908	AU20160219629	20160824
CA2921768 AA	20160218	CA20132921768	20130821
CN104823060 A	20150805	CN201380054873	20130821
EP2888597 A2	20150701	EP20130830360	20130821
EP2888597 A4	20160706	EP20130830360	20130821
IL237326 A0	20150430	IL20130237326	20130821
IN01987DN2015 A	20160415	IN2015DN01987	20150312
JP2016505223 T2	20160218	JP20150528640T	20130821
JP6334533 B2	20180530	JP20150528640T	20130821
KR101718416 B1	20170321	KR20157007233	20130821
KR20150046247 A	20150429	KR20157007233	20130821
LU92437 A2	20140901	LU20130092437	20130821
MX2015002248 A1	20150907	MX20150002248	20130821
MX349045 B	20170706	MX20150002248	20130821
RU2015109725 A	20161010	RU20150109725	20130821
SG11201501283Y A1	20150528	SG20151101283	20130821
US2014067137 AA	20140306	US20130972883	20130821
US2015244121 AA	20150827	US20140187211	20140221
US9965007 BB	20180508	US20140187211	20140221
WO14031798 A2	20140227	WO2013US56068	20130821
WO14031798 A3	20140626	WO2013US56068	20130821

Priority:

US20120691786P 20120821 US20120691791P 20120821 US20120691799P 20120822
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US20130972883 20130821 WO2013US56068 20130821 US20140187211 20140221
US20140942730P 20140221 AU20160219629 20160824

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

13) Family number: 24131264 (EP1260886A2) © PatBase

Title: HOME AUTOMATION SYSTEM

Abstract: Home automation system (31) comprising an array of functional devices (37), a plurality of input devices (38) associated with the array of functional devices and a control unit (49), interconnected via radio link and constituting a home automation system (32). The system (31) is employed in combination with an autonomous safety/security system (33) having input sensors (41), local and/or remote signalling devices (42) and a control unit (43) between the sensors and the signalling devices. The system also comprises connecting means between the control unit (43) of the safety/security system and the control unit (49) of the automation system (32) for activation of the safety/security system by the automation system and/or for activation of the automation system by the safety/security system.

Classifications:

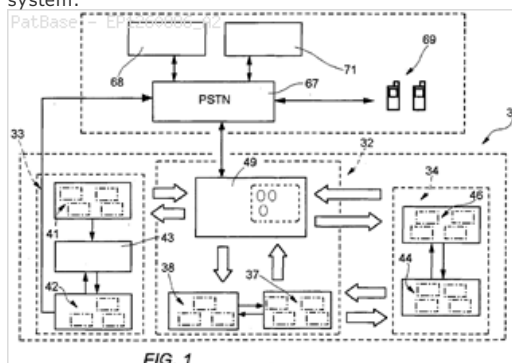
International (IPC 8-9): G05B15/02 G05B23/02 (Advanced/Invention);
G05B15/02 G05B23/02 (Core/Invention);
H02G H04Q (Subclass/Invention)

International (IPC 1-7): G05B15/02 G05B23/02 H02G H04Q

CPC: Y02B90/224 Y04S20/14 G05B23/0216 G05B15/02

G05B2219/2642 H01H2300/03

European: G05B15/02 G05B23/02S2C S05B219/2642 T01H300/030

**Family:**

Publication number	Publication date	Application number	Application date
EP1260886 A2	20021127	EP20020011160	20020521
EP1260886 A3	20031105	EP20020011160	20020521
ITTO20010477 A0	20010523	IT2001TO00477	20010523
ITTO20010477 A1	20021125	IT2001TO00477	20010523
ITTO20010478 A0	20010523	IT2001TO00478	20010523
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ITTO20010479 A0	20010523	IT2001TO00479	20010523
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ITTO20010480 A0	20010523	IT2001TO00480	20010523
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ITTO20010481 A0	20010523	IT2001TO00481	20010523
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Priority:

IT2001TO00477 20010523 IT2001TO00478 20010523 IT2001TO00479 20010523
IT2001TO00480 20010523 IT2001TO00481 20010523

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Assignee(s): (std): DOMUSTECH S P A ; SACE SPA

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Inventor(s): (std): HAUPTMAN MICHAEL ; GIUA ALBERTO FEDERICO ; COLOMBO PIERANGELO ; BONASSI CLAUDIO

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

14) Family number: 32849683 (US2006161270A)

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Title: DISTRIBUTED WIRELESS HOME AND COMMERCIAL ELECTRICAL AUTOMATION SYSTEMS

Abstract: A central controller (Fig. 1 B, Fig. 2, Fig. 4) is disclosed to enable home and commercial automation for automatic, remote control of a wide variety of lights, appliances, HVAC (Fig. 3, Fig. 5) and other systems utilizing a wireless distributed network. The central controller preferably employs a standard CPU and embedded operating system software. Graphical (Fig. 2) and audio (Fig. 4) user interfaces can be implemented. Harmonic distortion due to non-linear AC loads (Fig. 8) are mitigated in single-phase circuits through intelligent control of the loads (Fig. 9) and/or through intelligent complementary control of linear loads (Fig. 10).

Classifications:

International (IPC 8-9): G05B19/042 H04L12/28 G05B11/01
G05B15/02 G05F1/10 G05F1/455 G05F1/66 G05F1/70 G06F1/26
G08C17/02 H02J13/00 H02J3/01 H02M1/08 H04L H04L12/10

H05B37/02 (Advanced/Invention);

G05B11/01 G05F1/10 G05F1/66 G05F1/70 G06F1/26 G08C17/00
H02J13/00 H02J3/01 H02M1/08 H04L12/10 H04L12/28
H05B37/02 (Core/Invention)

International (IPC 1-7): G06F1/32 H04L12/28

CPC: H04L12/10 H04L2012/285 Y02B20/44 Y02B70/3216

Y02B70/3241 Y02B70/325 Y02B70/3275 Y02B70/3283 Y02B90/2653

Y02B90/2684 Y04S10/40 Y04S20/221 Y04S20/227 Y04S20/228

Y04S20/244 Y04S20/246 Y04S40/126 Y04S40/143 H04L12/282

G05B15/02 G05B19/042 G05B2219/25427 G05B2219/2642

H04L12/2803 H04L2012/2841

European: G05B15/02 G05B19/042 H04L12/10 H04L12/28H

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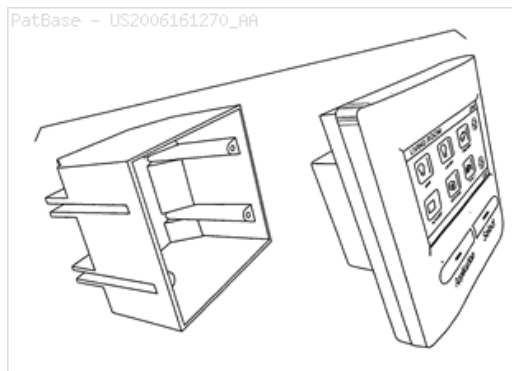
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Y02B90/26D2 Y04S10/40 Y04S20/22B Y04S20/22F Y04S20/22F2

Y04S20/24B2 Y04S20/24B4 Y04S40/12H Y04S40/14B

US: 700/19 700/19S 700/20 700/20S 700/22 700/22P

**Family:**

Publication number	Publication date	Application number	Application date
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CA2551871 AA	20060427	CA20052551871	20051014

CA2591809 AA	20060427	CA20052591809	20051014
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Priority:

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US20050714938P 20050907
CA20052551871 20051014

CA20052591809 20051014
US20050251577 20051014
EP20050812413 20051014

JP20070537007T 20051014
WO2005US37286 20051014

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TCHERKACHINE ; LUSKIN EUGENE ; TCHERKACHINE LEV ; VADIM KIZHNERMAN

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