

Carlos Guevara

Search history

Search 1: STAC=(Building* and automation and sensor* and hierarchical) (Results 17)

Title: WIRELESS AIR BALANCING SYSTEM

Abstract: Source: US5341988A A **hierarchical** control system including a central receiver; a first communications medium operably connecting the central receiver to at least one controller; and a controller operably connected to the central receiver by the first communications medium. The system also includes a **sensor** for sensing conditions; a second communication medium; and a transmitter for transmitting the sensed conditions from the **sensor** to the central receiver via the second communications medium. The central receiver also includes receiver for receiving transmissions on the second communications medium and a transmitter for retransmitting the transmissions on the first communications medium.

Classifications:

International (IPC 8-9): F24F11/00 F24F11/04 F24F3/00 G05D23/19 G08C17/00 H02J13/00 H05B37/02 (Advanced/Invention); F24F3/00 (Advanced/Non-invention)

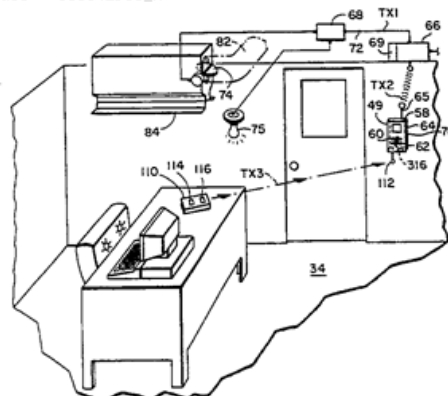
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CPC: Y02B70/3216 Y02B70/3275 Y02E60/7884 Y04S20/221 Y04S20/244 H02J13/0079 F24F3/00 F24F11/00 F24F2221/54 G08C17/00 G08C2201/40 G08C2201/41 Y02B70/3241 Y02B90/2684 Y04S20/227 Y04S40/143 Y02E60/74 Y04S10/30 G05D23/1905 G05D23/1934 F24F11/30 F24F11/54 F24F11/56 F24F11/74

European: F24F11/00 G05D23/19 G08C17/00 H02J13/00F4D R24F11/00R R24F11/00R5D R24F11/00R5F R24F11/04 R24F221/54 R24F3/00 S08C201/400 S08C201/410 Y02B70/32B8 Y02B90/26D2 Y04S20/22F Y04S40/14B

US: 165/11.1 165/22 236/49.3 236/51 340/3.1 340/500 340/539.27 340/825.69 375/1 375/130 700/276

PatBase - US5341988_H

**Family:**

Publication number	Publication date	Application number	Application date
AU199226939 A1	19930503	AU19920026939	19920924
CA2120154 AA	19930415	CA19922120154	19920924
CA2120154 C	19990223	CA19922120154	19920924
EP0606335 A1	19940720	EP19920920741	19920924
EP0606335 B1	19970820	EP19920920741	19920924
EP0759586 A1	19970226	EP19960116981	19920924
US5341988 A	19940830	US19930068021	19930527
US5361985 A	19941108	US19930064325	19930520
US5385297 A	19950131	US19930064387	19930521
US5390206 A	19950214	US19910770055	19911001
WO9307549 A2	19930415	WO1992US08112	19920924
WO9307549 A3	19930624	WO1992US08112	19920924

Priority:

EP19920920741 19920924 US19910770055 19911001 US19930068021 19930527
WO1992US08112 19920924 US19930064387 19930521 US19930064325 19930520
WO1992US08112 19920924

Probable Assignee: TRANE INT INC**Assignee(s):** (std): AMERICAN STANDARD INC

Assignee(s): AMERICAN STANDARD INT ; AMERICAN STANDARD INT INC ; AMERICAN STANDRAD INC ; AMERICAN STANDRAD INC A CORP OF DELAWARE ; CHEMICAL BANK AS COLLATERAL AGENT ; TRANE INT ; TRANE INT INC ; CHEMICAL BANK COLLATERAL AGENT AS ; FOYE DAVID M ; REIN ALAN D

Inventor(s): (std): FOYE DAVID M ; REIN ALAN D**Inventor(s):** ALAN D REIN ; DAVID M FOYE**Agent(s):** FETHERSTONHAUGH AND CO

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG

Title: SELF-ORGANIZING **HIERARCHICAL** WIRELESS NETWORK FOR SURVEILLANCE AND CONTROL

Abstract: Source: US2003151513A A wireless network is described including a cluster network and a **sensor**/actuator network arranged in a **hierarchical** manner with the cluster head network. The cluster head network includes at least one cluster head and the **sensor**/actuator network includes a plurality of **sensor**/actuator nodes arranged in a plurality of node levels.

Classifications:

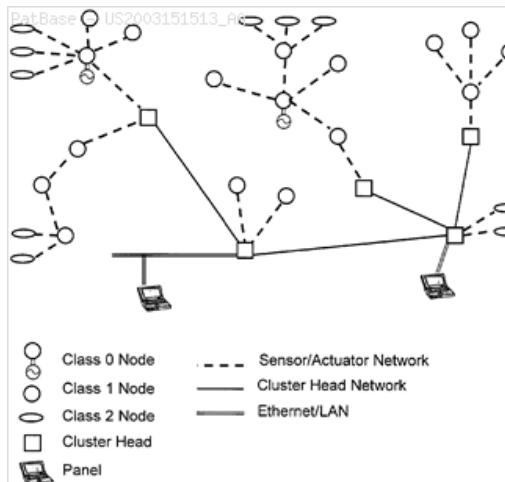
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International (ipc 1-7): G08C15/00 H04B7/00 H04B7/24 H04J1/16 H04L H04L12/28 H04Q7/24

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European: G08B25/00F G08B25/00S H04L12/12 H04L12/28H H04L12/28H4B H04L29/06C6E H04L29/08N11 H04L45/70 H04W22/04 H04W240/24 H04W284/00 H04W40/24D H04W40/24U H04W50/00 H04W84/00 T04W10/00 T04W22/02T T04W224/00 T04W24/00 T04W240/22 T04W284/18 T04W40/12 T04W50/08 T04W50/089 T04W52/02 T04W84/18 Y02B60/34

US: 340/573.1 340/573.100P 370/254 370/254P 370/254S 370/31 370/310 370/310P 370/310S 370/342 370/350 455/423 455/423P 455/67.11 455/67.110P 455/67.110S



Family:

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US2008274701 AA	20081106	US20080175611	20080718
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Priority:

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Probable Assignee: ROBERT BOSCH GMBH

Assignee(s): (std): BOSCH GMBH ROBERT ; HENSEL ANDREAS ; HERRMANN FALK ; HILL JASON ; ISRAELSSON MIKAEL ; MANJESHWAR ARATI ; KARLSSON JOHANNES

Assignee(s): ROBERT BOSCH GMBH

Inventor(s): (std): ARATI MANJESHWAR ; FALK HERRMANN ; HENSEL ANDREAS ; HERMANN FALK ; HERRMANN FALK ; HILL JASON ; ISRAELSSON MIKAEL ; JASON HILL ; KARLSSON JOHANNES ; MANJESHWAR ARATI

Inventor(s): MIKAEL ISRAELSSON ; ANDREAS HENSEL ; JOHANNES KARLSSON

Agent(s): KNAPP THOMAS ; MASUI CHUJI ; TOMITA HIROYUKI ; SHAMOTO ICHIO ; KOBAYASHI YASUSHI ; CHIBA AKIO ; TANAKA HIDEO ; KENYON AND KENYON LLP

Designated states: AL AT AU BA BE BG CH CN CY CZ DE DK EE ES FI FR GB GR HR HU IE IN IS IT JP LI LT LU LV MC MK NL PL PT RO SE SI SK TR US YU

Title: SYSTEM AND METHOD FOR AUTOMATICALLY NAMING OBJECTS IN A **BUILDING AUTOMATION** SYSTEM

Abstract: Source: US2013085588A A system, process, and method for modeling a **building automation** system is provided that permits a control program to easily and efficiently add **building automation** devices and automatically name them to improve efficiency and reduce errors.

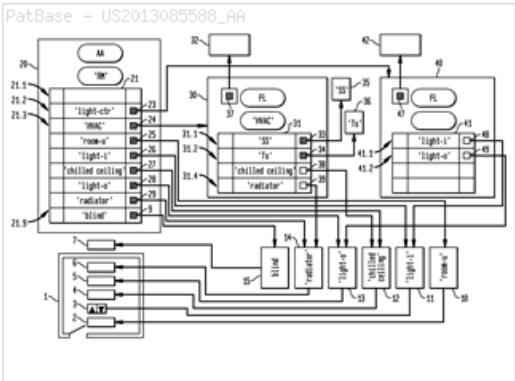
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H04L12/28 (Advanced/Invention);
H04L12/28 (Advanced/Non-invention)

CPC: G05B13/02 G05B19/042 G05B19/4186 H04L12/40006 H04L12/40169 H04L2012/4026 G06F8/24 G05B2219/2614 H04L2012/285 G05B15/02 G05B2219/23255 G05B2219/2642 G06F8/34

US: 1/1 700/275 700/276 700/97 703/1



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CN103034182 A	20130410	CN201210367992	20120928
CN103034182 B	20160810	CN201210367992	20120928
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CN104204968 B	20170613	CN201380016825	20130328
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EP2764414 A1	20140813	EP20120769085	20120928
EP2831680 A1	20150204	EP20130713854	20130328
US2013085588 AA	20130404	US20120432417	20120328
US2013085610 AA	20130404	US20120573669	20121003
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US9658607 BB	20170523	US20130851695	20130327
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WO13050333 A1	20130411	WO2012EP69390	20121001
WO13144307 A1	20131003	WO2013EP56734	20130328

Priority:

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WO2013EP56734	20130328				

Probable Assignee: SIEMENS SCHWEIZ AG

Assignee(s): (std): BORNSIDE DAVID E ; BRUN GERHARD ; CHOI WILLIAM ; COOGAN JAMES J ; MADONE DIEGO ; SIEMENS AG ; MEIER HERBERT ; SIEMENS SCHWEIZ AG

Assignee(s): SIEMENS IND INC ; SIEMENS AKTIENGESellschaft

Inventor(s): (std): BORNSIDE DAVID E ; BRUN GERHARD ; CHOI WILLIAM ; COOGAN JAMES J ; FEHR ANDREAS ; MADONE DIEGO ; MEIER HERBERT

Agent(s): MAIER DANIEL OLIVER; SLAYDEN GRUBERT BEARD PLLC

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 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

Title: DIAGNOSTIC AND TROUBLE-SHOOTING METHODS IN A WIRELESS CONTROL AND **SENSOR** NETWORK

Abstract: Source: US2008276127A A method of performing diagnostics on a first **hierarchical** device operable within a **building automation** system is disclosed. The method includes compiling application code configured to control the first **hierarchical** device such that the application code includes a plurality of internal variables, providing a diagnostic module configured to monitor the plurality of internal variables, collecting internal variable diagnostic data related to the monitored plurality of internal variables, uploading the collected internal variable diagnostic data to a second **hierarchical** device, performing, at the second first **hierarchical** device, a layered diagnostic analysis on the internal variable diagnostic data, and identifying a first **hierarchical** device problem based on the analyzed internal variable diagnostic data.

Classifications:

International (IPC 8-9): G05B19/042 G06F11/28 G06F9/44

H04L12/24 (Advanced/Invention);

G05B19/042 H04L12/24 (Advanced/Non-invention);

G05B19/04 H04L12/24 (Core/Invention)

CPC: G05B19/0428 G05B2219/24055 G05B2219/24067

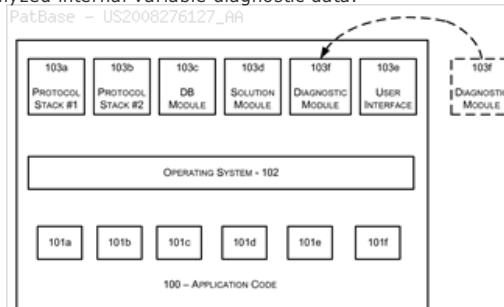
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European: G05B19/042S S05B219/24055 S05B219/24067

S05B219/24084

US: 709/218 711/117 711/158 714/37 714/37P 714/38.1

714/E11.178 714/E11.178S 717/124 717/126 717/127 717/140



Family:

Publication number	Publication date	Application number	Application date
BRPI0810732 A2	20141021	BR2008PI10732	20080505
CA2685901 AA	20081113	CA20082685901	20080505
CA2685901 C	20150630	CA20082685901	20080505
CN101802729 A	20100811	CN200880014560	20080505
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KR101085621 B1	20111122	KR20097025159	20080505
KR20100019473 A	20100218	KR20097025159	20080505
US2008276127 AA	20081106	US20080114766	20080503
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Priority:

EP20080767562	20080505	US20070915710P	20070503	US20080114766	20080503
US20080035109P	20080310	WO2008US05761	20080505	US20080035109	20080310

Probable Assignee: SIEMENS IND INC

Assignee(s): (std): MCFARLAND NORMAN R ; NASS GEOFFREY D ; SIEMENS BUILDING TECH AG ; SONGKAKUL PORNSAK ; SIEMENS INDUSTRY INC ; SIEMENS IND INC

Assignee(s): SIEMENS IND INC ALPHARETTA ; SIEMENS BUILDING TECHNOLOGIES INC ; SIEMENS IND

Inventor(s): (std): SONGKAKUL PORNSAK ; PORNSAK SONGKAKUL ; MCFARLAND NORMAN R ; NASS GEOFFREY D

Inventor(s): NORMAN R MCFARLAND ; GEOFFREY D NASS ; NASS GEOFFREY D ROLLING MEADOWS ; MCFARLAND NORMAN R PALATINE

Agent(s): SMART AND BIGGAR; FISCHER MICHAEL DR; CAPRE DIDIER; SIEMENS INTELLECTUAL PROPERTY DEPARTMENT CORP; RAJ RASHMI S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DYNAMICALLY EXTENSIBLE AND AUTOMATICALLY CONFIGURABLE **BUILDING AUTOMATION** SYSTEM AND ARCHITECTURE

Abstract: Source: US2007043476A A **building automation** system (BAS) architecture is disclosed. The BAS comprises, in one embodiment, an architecture comprising a communication network and having a dynamic extensibility capability and an automatic configuration capability; an engine communicatively coupled to the communication network; and at least one control device communicatively coupled to the communication network, the control device being known or unknown to the engine. The engine can be adapted to selectively implement the dynamic extensibility capability to establish communications with and to control both known and unknown control devices. The engine can be further adapted to selectively implement the automatic configuration capability to determine at least one characteristic of both known and unknown control devices. A method of adding a control device to a **building automation** system (BAS) by dynamically extending and automatically configuring an architecture of the BAS is also disclosed.

Classifications:

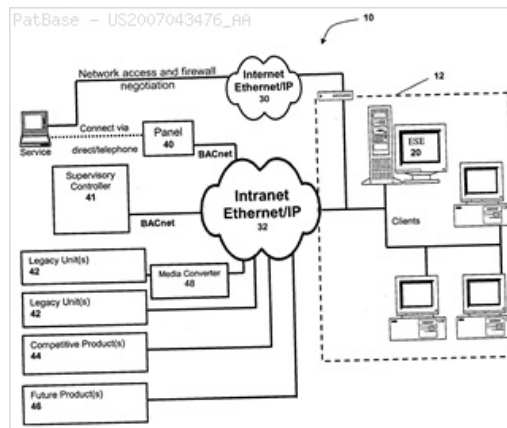
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International (IPC 1-7): G05B11/01

CPC: G06Q50/08 G06Q50/12 H04L12/2832 H04L2012/285 H04L41/0233 H04L41/069 H04L41/0886 H04L41/22 G05B19/042 H04L67/12 H04L67/36 H04L12/281 H04L12/2814 H04L2012/2849 G09B29/007 G09B25/04 Y02P90/02 G05B13/00 G05B15/00 G05B11/01 G05B23/00 G05B19/418 H04L12/2818 G05B15/02 G05B2219/2642 G05D23/00 G05B21/00 H04L12/2807 G05B2219/25096 F24F11/30 F24F11/54 F24F11/62

European: F24F11/00R5 G01M1/38 G05B11/01 G05B13/00 G05B15/00 G05B15/02 G05B19/042 G05B21/00 G05B23/00 G05D23/00 G06Q50/08 G06Q50/12 G09B25/04 G09B29/00C4B H04L12/24F3 H04L12/28H2B H04L12/28H2D H04L12/28H5A H04L29/08N11 H04L29/08N35 H04L41/22 R24F11/00R5D S05B219/2642 T04L12/24A5 T04L12/24D T04L12/24E6C T04L12/28H11A T04L12/28H11B T04L41/02E T04L41/06G T04L41/08D3

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**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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WO2006US31863	20060815	WO2006US32141	20060817	WO2006US32145	20060817
US20050316703	20051222	US20110285280	20111031	US20050316702	20051222
US20050316699	20051222				

Probable Assignee: TRANE INT INC

Assignee(s): (std): BENEDICT EIYNK ; BRINK JAMES ; DEMULLING DELIGHT ; KISTLER ROBINSON JUDY K ; RICHARDS DAVID M ; MCCOY SEAN M ; SEEWALD JERREY S ; MAIRS SUSAN M ; MCCONNELL DEBORAH A ; EIYNK BENEDICT ; SEEWALD JEFFREY S ; AMERICAN STANDARD INTERNATIONA ; TRANE INTERNAT INC ; TRANE INT INC ; TRANE INTERNATIONAL INC

Assignee(s): TRANE INT INC was KNOWN AS AMERICAN STANDARD INTERNATIONAL INC.. ; AMERICAN STANDARD INTERNATIONAL INC ; AMERICAN STANDARD INT ; AMERICAN STANDARD INT INC ; TRANE INT

Inventor(s): (std): BENEDICT EIYNK ; BRINK JAMES ; DELIGHT DEMULLING ; DEMULLING DELIGHT ; EIYNK BENEDICT ; JAMES BRINK ; KISTLER ROBINSON J K ; KISTLER ROBINSON JUDY K ; MAIRS SUSAN M ; MCCOY SEAN M ; METREX S M ; MICHNEL D A ; MCCONNELL DEBORAH A ; RICHARDS DAVID M ; SEEWALD JEFFREY S ; SEEWALD JERREY S ; SEWARD J S

Inventor(s): SUSAN M MAIRS ; SEAN M MCCOY ; SEEWALD JEFFREY ; MCCOY SEAN ; RICHARDS DAVID ; MCCONNELL DEBORAH ; MAIRS SUSAN ; KISTLER ROBINSON JUDY ; JERREY S SEEWALD ; JUDY K KISTLER ROBINSON ; ELYNK BENEDICT ; DAVID M RICHARDS ; DEBORAH A MCCONNELL

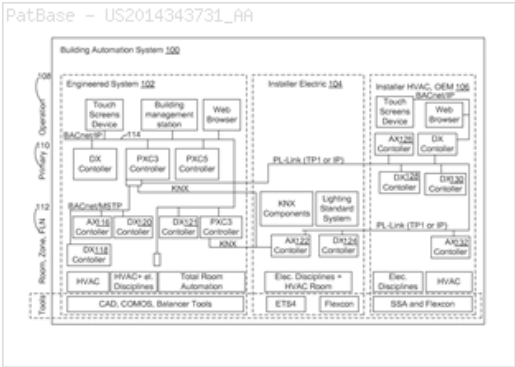
Agent(s): BORDEN LADNER GERVAIS LLP; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA; PATTERSON THUENTE CHRISTENSEN PEDERSEN PA; PATTERSON THUENTE PEDERSON CHRISTENSEN PA; PATTERSON THUENTE IP

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 HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMMON AUTOMATION SYSTEM CONTROLLER

Abstract: Source: US2014343731A A common automation system controller configured using a hierarchical approach for use in a building automation system.

Classifications:
International (IPC 8-9): G05B13/02 G06F9/44
H04L12/28 (Advanced/Invention)
CPC: G05B13/02 H04L12/2803
US: 700/275



Family:

Publication number	Publication date	Application number	Application date
EP2804098 A1	20141119	EP20140166370	20140429
US2014343731 AA	20141120	US20130895044	20130515
US9651924 BB	20170516	US20130895044	20130515

Priority:

US20130895044 20130515

Probable Assignee: SIEMENS SCHWEIZ AG

Assignee(s): (std): BRUN GERHARD ; COOGAN JAMES ; MEIER HEINRICH ; MEIER HERBERT ; SIEMENS AG ; RENGGLI FRANZ ; SIEMENS SCHWEIZ AG

Assignee(s): SIEMENS IND INC

Inventor(s): (std): BRUN GERHARD ; COOGAN JAMES ; COOGAN JAMES J ; MEIER HEINRICH ; MEIER HERBERT ; RENGGLI FRANZ

Agent(s): MAIER DANIEL OLIVER

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

Title: SYSTEM AND METHOD FOR MONITORING AND CONTROL OF WIRELESS MODULES LINKED TO ASSETS

Abstract: Source: US2005222933A A system and method for remote asset management is described which can provide the basis for a diverse product group including an improved remote location monitoring system, a means for communicating with and for monitoring the status and or location of a plurality of diverse assets, as well as the means for communicating with said assets for the purpose of modifying the operational status of one or more of said assets according to one or more stored data parameters such as location, use, battery power, and such like. The remote asset management system comprise a wireless module, which is associated with at least one of the plurality of assets and which is interfaced with the operating system of said asset and or with an electromechanical control means, which may control one or more features of the operation of said assets. A supporting network-based, or internet-based service platform controls and manages the status of each of the plurality of assets, either automatically, or in response to received messages from fixed or wireless communication devices, and which is capable of selectively communicating data to said assets for changing the operational status of said assets according to pre-programmed conditions.

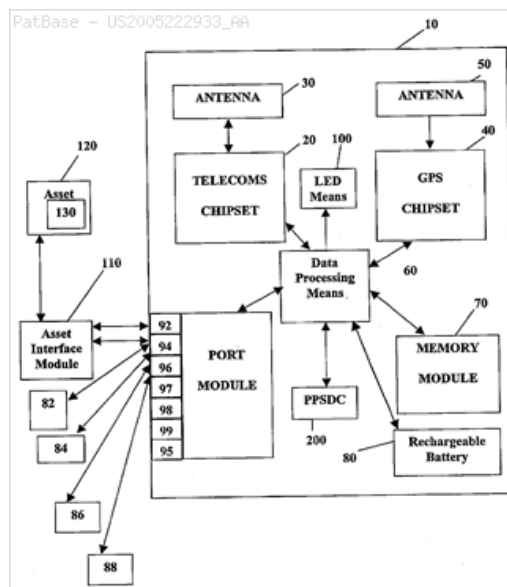
Classifications:

International (IPC 8-9): G06Q40/00 G06Q40/06 H04L12/24 H04L12/26 H04L29/08 H04L9/00 H04M11/00 H04M11/04 H04M3/00 H04W12/04 H04W12/06 H04W12/08 H04W24/00 H04W4/00 H04W4/06 H04W4/20 H04W8/22 H04W8/24 (Advanced/Invention); H04W4/00 (Advanced/Non-invention)

International (IPC 1-7): G06F17/60 H04M11/00 H04M11/04 **CPC:** H04W4/20 H04W4/00 G06Q40/00 G06Q40/06 H04L12/24 H04L41/00 H04L41/08 H04L67/04 H04W12/08 H04W8/22 H04L67/10 H04W8/245 H04L67/125 H04W4/001 H04W4/06 H04L41/0816 H04L63/101 H04W12/12

European: G06Q40/00 G06Q40/06 H04L12/24 H04L12/24E H04L12/26M H04L29/08N11M H04L29/08N3 H04L41/00 H04L41/08 T04W2/00 T04W204/00 T04W4/00

US: 1/1 340/514 340/853.1 370/241 380/270 455/406 455/410 455/410S 455/411 455/419 455/419P 455/420 455/423 455/426.1 455/506 455/9 705/35 705/35P 705/36 705/36.00RP 705/36R 709/219 709/221



Family:

Publication number	Publication date	Application number	Application date
AU2003239678 AA	20031202	AU20030239678	20030521
DE60347064 D1	20150115	DE20036047064	20030521
EP1506667 A1	20050216	EP20030732648	20030521
EP1506667 B1	20141203	EP20030732648	20030521
EP2290939 A1	20110302	EP20100011502	20030521
GB200211644 A0	20020703	GB20020011644	20020521
US2005222933 AA	20051006	US20030515094	20030521
US2006122925 AA	20060608	US20060326752	20060106
US2009247146 AA	20091001	US20090479295	20090605
US2012243686 AA	20120927	US20120450756	20120419
US2013003561 AA	20130103	US20120609853	20120911
US2013183958 AA	20130718	US20130788793	20130307
US2013204980 AA	20130808	US20130826145	20130314
US2013273898 AA	20131017	US20130797845	20130312
US2015044996 AA	20150212	US20140524357	20141027
US2015326436 AA	20151112	US20150803539	20150720
US2017105086 AA	20170413	US20160388047	20161222
US7027808 BB	20060411	US20030515094	20030521
US7558564 BB	20090707	US20060326752	20060106
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Priority:

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US20140524357	20141027	US20150803539	20150720	US20160388047	20161222
WO2003GB02171	20030521				

Probable Assignee: M2M SOLUTIONS LLC

Assignee(s): (std): M2M SOLUTIONS LLC ; WESBY PHILIP B ; WESBY PHILIP BERNARD

Assignee(s): M2M SOLUTIONS LLC WILMINGTON

Inventor(s): (std): WESBY PHILIP B ; WESBY PHILIP BERNARD

Inventor(s): PHILIP BERNARD WESBY ; WESBY PHILIP

Agent(s): ANWALTSKANZLEI MEISSNER AND MEISSNER; ROBSON AIDAN JOHN; BROMBERG AND SUNSTEIN LLP;
SUNSTEIN KANN MURPHY AND TIMBERS LLP

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

Title: UNIFIED DISPLAY OF ALARM CONFIGURATIONS BASED ON EVENT ENROLLMENT OBJECTS

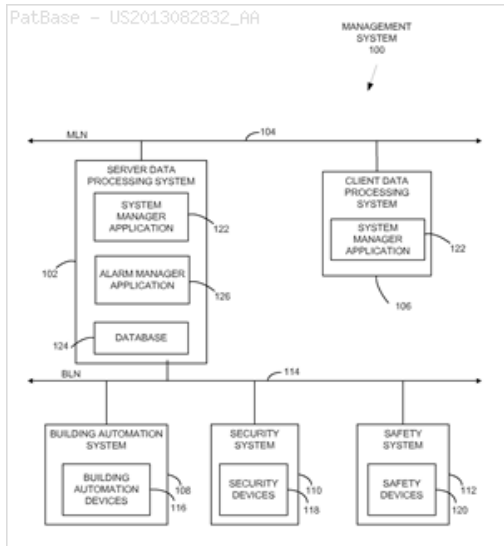
Abstract: Source: US2013082832A Management systems, methods, and mediums. A method includes identifying a description of a system object from a request to generate an event enrollment object to monitor the system object in response to receiving the request. The method includes storing the description of the system object in association with the event enrollment object. The method includes identifying the stored description of the system object associated with the event enrollment object in response to identifying an alarm generated for the event enrollment object. Additionally, the method includes including the description of the system object in a notification of the alarm generated for event enrollment object.

Classifications:

International (IPC 8-9): G05B15/02 G05B23/02 G06F15/16
G06F17/30 G06F3/01 G06F3/048 G06F9/44 G06Q10/00 G06Q50/08
G06Q90/00 G06T11/20 G06T13/00 G06T15/00 G08B23/00 G09G5/00
H04L12/28 (Advanced/Invention);
G06F9/44 (Advanced/Non-invention);
G06T (Subclass/Invention)

CPC: G06F3/048 H04L41/0233 H04L41/12 H04L61/303 H04L61/609
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US: 1/1 340/501 345/419 345/473 700/17 707/722 707/737 707/755
707/E17.046 709/203 715/762 715/810



Family:

Publication number	Publication date	Application number	Application date
CA2850530 AA	20140328	CA20122850530	20120926
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CN103827758 B	20161005	CN201180073781	20110930
CN103827922 A	20140528	CN201280048061	20120926
EP2574999 A2	20130403	EP20120184287	20120913
EP2574999 A3	20130424	EP20120184287	20120913
EP2761598 A1	20140806	EP20120783406	20120926
HK1199134 A1	20150619	HK20140111893	20141125
IN01213DN2014 A	20150109	IN2014DN01213	20140218
KR20140070654 A	20140610	KR20147011893	20120926
SG11201400188R A1	20140529	SG20141100188	20120926
US2013082832 AA	20130404	US20120538073	20120629
US2013083012 AA	20130404	US20120538275	20120629
US2013083035 AA	20130404	US20120537975	20120629
US2013086066 AA	20130404	US20120537911	20120629
US2013086152 AA	20130404	US20120538182	20120629
US2013086497 AA	20130404	US20120609364	20120911
US2013086521 AA	20130404	US20120538242	20120629
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WO13049007 A1	20130404	WO2012US57027	20120925
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WO13049016 A3	20140918	WO2012US57043	20120925
WO13049031 A1	20130404	WO2012US57063	20120925
WO13049131 A1	20130404	WO2012US57233	20120926
WO13049138 A1	20130404	WO2012US57240	20120926
WO13049141 A2	20130404	WO2012US57245	20120926
WO13049141 A3	20141023	WO2012US57245	20120926

Priority:

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Probable Assignee: SIEMENS SCHWEIZ AG

Assignee(s): (std): AMBUEHL STEFAN ; ANDERSON JR THOMAS ; ANDERSON JR THOMAS W ; BRUNNER FELIX ; HERSCHE ANDREAS ; HAN JAMES K ; GAFFANEY ROBERT ; GROSSELE HANSPETER ; HENNIG ANDREAS ; COLCERASA RENATO ; FARAGOI JR JOHN A ; GAFFANEY ROBERT C ; SIEMENS AG ; INCORVAIA DARIO ; SIEMENS AKEIENGESSELLSCHAFT ; STIRNEMANN PATRICK ; RAMANATHAN GANESH ; RULE THOMAS ; JEFFERS JOHN ; LUSTENBERGER CHRISTOF ; SCHMICKLEY MICHAEL J ; VIS EDGAR ; KNAPHEIDE

CLAUS ; SIEMENS SCHWEIZ AG

Assignee(s): SIEMENS SPA ; SIEMENS IND INC ; SIEMENS AKTIENGESELLSCHAFT

Inventor(s): (std): AMBUEHL STEFAN ; ANDERSON JR THOMAS ; ANDERSON JR THOMAS W ; BRUNNER FELIX ; COLCERASA RENATO ; FARAGOI JR JOHN A ; GAFFANEY ROBERT ; GAFFANEY ROBERT C ; GROSSELE HANSPETER ; HAN JAMES K ; HENNIG ANDREAS ; HERSCHE ANDREAS ; INCORVAIA DARIO ; JEFFERS JOHN ; KNPHEIDE CLAUS ; LUSTENBERGER CHRISTOF ; RAMANATHAN GANESH ; RULE THOMAS ; SCHMICKLEY MICHAEL J ; STIRNEMANN PATRICK ; VIS EDGAR

Agent(s): SMART AND BIGGAR; BURTON THOMAS J ET AL

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

Title: SYSTEMS AND METHODS FOR FACILITATING COMMUNICATION BETWEEN A PLURALITY OF **BUILDING AUTOMATION** SUBSYSTEMS

Abstract: Source: US2012011126A A computer-implemented system for facilitating communication between a plurality of **building automation** subsystems and a plurality of applications includes a first database storing a **hierarchical** model of a **building automation** system. The system further includes a second database storing information for the plurality of **building automation** subsystems. The second database stores each record with a projected semantic type string. The projected semantic type string includes multiple levels of type information and based on the **hierarchical** model stored in the first database. The system further includes a messaging engine configured to receive a message from one of the disparate **building automation** subsystems and for one of the plurality of applications. The messaging engine is configured to use the information in the second database to transform the message into a standard format, to append the projected semantic type string to the transformed message, and to provide the transformed message to one of the plurality of applications.

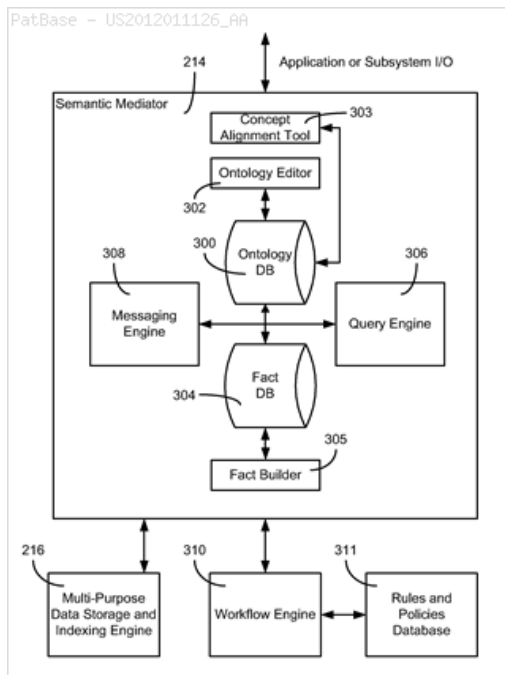
Classifications:

International (IPC 8-9): G06F17/30 G06F9/46

G06F9/54 (Advanced/Invention)

CPC: G06F9/541 G06F9/546 G06F17/30545

US: 1/1 700/276 707/608 707/741 707/741P 707/747 707/756
707/769 707/769S 707/809 707/E17.002 707/E17.002S 707/E17.014
707/E17.014S 719/313 719/313S 726/1



Family:

Publication number	Publication date	Application number	Application date
US2012011126 AA	20120112	US20100831850	20100707
US2013339292 AA	20131219	US20130970400	20130819
US8516016 BB	20130820	US20100831850	20100707
US9189527 BB	20151117	US20130970400	20130819

Priority:

US20100831850 20100707 US20130970400 20130819

Probable Assignee: JOHNSON CONTROLS TECHNOLOGY CO

Assignee(s): (std): DORNEANU RADU M ; JOHNSON CONTROLS TECH CO ; PARK YOUNGCHOON

Assignee(s): JOHNSON CONTROLS TECHNOLOGY CO ; JOHNSON CONTROLS TECHNOLOGY COMPANY

Inventor(s): (std): DORNEANU RADU M ; PARK YOUNGCHOON

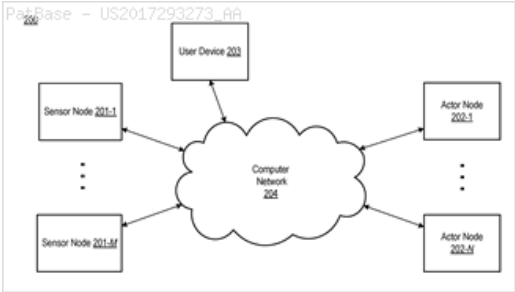
Agent(s): FOLEY AND LARDNER LLP

Title: SYSTEM AND METHOD FOR SPACE-DRIVEN **BUILDING AUTOMATION** AND CONTROL

Abstract: Source: US2017293273A A system and method involving actor nodes within a **building** that is being controlled, to be subscribed to a set of addresses, including one or more addresses that are representative of one or more respective spaces within the **building** being controlled. Such addresses are referred to as "space addresses." Each of the actor nodes acts upon received data packets only if a space address is received along with the data packets and the actor node has been subscribed to the space address. Concurrently, one or more **sensor** nodes in the system are configurable to transmit the one or more space addresses and the data packets. A user device in the system receives commands from a user via a user interface and transmits a set of signals such that the actor nodes are subscribed to the appropriate space addresses and the **sensor** nodes are configured to transmit the space addresses.

Classifications:

International (IPC 8-9): G05B15/02 H04L12/721 H04L12/741
H04L29/08 (Advanced/Invention)
CPC: G05B15/02 H04L45/72 H04L45/74 H04L67/125 G05B2219/2642



Family:

Publication number	Publication date	Application number	Application date
US2017293273 AA	20171012	US20170479093	20170404

Priority:

US20160321298P 20160412 US20170479093 20170404

Probable Assignee:

SILVAIR SP Z OO

Assignee(s): (std):

SILVAIR SP Z O O

Assignee(s):

SILVAIR SP Z OO

Inventor(s): (std):

GEMBALA ADAM ; SLUPIK SZYMON

Title: METHODS, SYSTEMS, NON-TRANSITORY COMPUTER READABLE MEDIUM, AND MACHINES FOR MAINTAINING AUGMENTED TELEPATHIC DATA

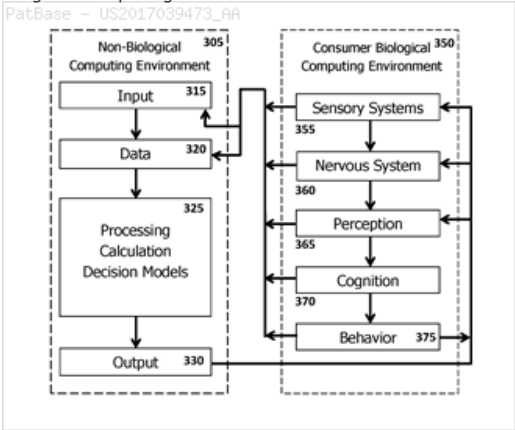
Abstract: Source: US2017039473A This document discloses effective augmented telepathic communication as a gadget-free extension of human senses. The conveyance of mental information and cognitive processes to perceive or communicate being made possible by data structures for generating and maintaining representations of biological systems activity with auditory, visual, kinesthetic, tactile, emotion, movement, smell, taste, and concept data in a computing environment. In preferable embodiments of the present invention, one or more methods include steps for representing brain, nervous system, and sensory systems activity with mental information and cognitive processes as data for incorporating values with applications, systems, or instance relevant computing environments. In a preferable embodiment of the present invention, methods also include the association of data representing the objects, elements, assets, acts, conditions, processes, or products of perceiving, cognizing, communicating, experiencing, imagining, remembering, recognizing, thinking, judging, reasoning, problem solving, conceptualizing, or planning with mixes of machine learning tasks for human-computer interfacing and communicating using optional devices or acting as a biological computing environment.

Classifications:

International (IPC 8-9): G06N3/06 G06N3/08 (Advanced/Invention)

CPC: G06N3/004

US: 706/20



Family:

Publication number	Publication date	Application number	Application date
US2017039473 AA	20170209	US20160299124	20161020

Priority:

US20140068463P 20141024	US20150254069P 20151111	US20160299124 20161020
US20150921682 20151023		

Probable Assignee:	STARRETT JR WILLIAM HENRY
Assignee(s): (std):	STARRETT JR WILLIAM HENRY
Inventor(s): (std):	STARRETT JR WILLIAM HENRY

Title: SECURE CERTIFICATE AND SYSTEM AND METHOD FOR ISSUING AND USING SAME

Abstract: Source: US2002165912A System, method, signal, operating model, and computer program for electronic messaging. Systems and method for providing security for communication of electronic messages, interactive sessions, software downloads, software upgrades, and other content from a source to a receiving device as well as signals used for such communications. Systems, methods, signals, device architectures, data formats, and computer program structures for providing authentication, integrity, confidentiality, non-repudiation, replay protection, and other security properties while minimizing the network bandwidth, computational resources, and manual user interactions required to install, enable, deploy and utilize these security properties. System, device, method, computer program, and computer program product for searching and selecting data and control elements in message procedural/data sets for automatic and complete portrayal of message to maintain message intent. System, device, method, computer program, and computer program product for adapting content for **sensory** and physically challenged persons using embedded semantic elements in a procedurally based message file.

Classifications:

International (IPC 8-9): G06F21/00 G06F21/33 G06F21/62

G06Q10/00 G06Q10/10 H04L12/58 H04L29/06

H04L29/08 (Advanced/Invention);

G06Q10/00 H04L12/58 H04L29/06 H04L29/08 (Core/Invention)

International (IPC 1-7): G06F11/30 G06F12/14 G06F15/16

G06F17/00 G06F9/00 G06F9/45 H04K1/00 H04L9/00

CPC: H04L29/06027 H04L65/80 H04L67/306 H04L67/26 H04L69/329

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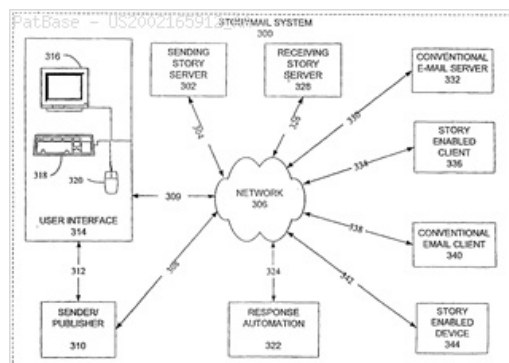
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713/15 713/150 713/150S 713/151 713/151S 713/153 713/153P 713/170 713/170P 713/176 713/176S 713/185 713/185P

713/201 717/152 717/152P 718/102 718/102S 726/26 726/26S 726/4 726/4P



Family:

Publication number	Publication date	Application number	Application date
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AU200184674 A1	20020213	AU20010084674	20010726
AU200184674 A5	20020213	AU20010084674	20010726
US2002165912 AA	20021107	US20010912941	20010725
US2002178360 AA	20021128	US20010912772	20010725
US2002194483 AA	20021219	US20010912936	20010725
US2002194501 AA	20021219	US20010912855	20010725
US2002196935 AA	20021226	US20010912773	20010725
US2002199001 AA	20021226	US20010912901	20010725
US2002199096 AA	20021226	US20010912860	20010725
US2003009694 AA	20030109	US20010912715	20010725
US2003023960 AA	20030130	US20010912885	20010725
US2003041110 AA	20030227	US20010912905	20010725
WO0210962 A1	20020207	WO2001US23713	20010727

Priority:

US20000627357	20000728	US20000627358	20000728	US20000627645	20000728
US20000628205	20000728	US20000706609	20001104	US20000706612	20001104
US20000706611	20001104	US20000706610	20001104	US20000706606	20001104
US20010912715	20010725	US20010912773	20010725	US20010912772	20010725
US20010271455P	20010225	US20000706661	20001104	US20000706621	20001104
US20000706664	20001104	US20000706617	20001104	US20000706615	20001104
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US20010912855	20010725	US20010912936	20010725	US20010912905	20010725
US20010912885	20010725	US20010912860	20010725	US20010912941	20010725
US20010912901	20010725	WO2001US23713	20010727		

Probable Assignee: STORYMAIL INC

Assignee(s): (std): STORYMAIL INC

Assignee(s): KNOBBE MARTENS OLSON AND BEAR LLP ; AHMED SHERJIL ; AVAZ NETWORKS ; KAMRAN FARRUKH ; HAMEED REHAN ; FAROOQ HASSAN ; KHAN SHOAB

Inventor(s): (std): AHMED SHERJIL ; BALDWIN ROBERT W ; DANIEL H ILLOWSKY ; DAVID B SAXBY ; FAROOQ HASSAN ; HAMEED REHAN ; ILLOWSKY DANIEL H ; KAMRAN FARRUKH ; KHAN SHOAB ; MICHAEL L WENOCUR ; ROBERT W BALDWIN ; SAXBY DAVID B ; WENOCUR MICHAEL L

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

Title: COMMUNICATION BETWEEN RADIO TERMINALS ON AN EXTRATERRESTRIAL BODY USING A SPACE BASED COMPONENT AND AN ANCILLARY COMPONENT LOCATED ON THE EXTRATERRESTRIAL BODY.

Abstract: The underlying invention is "Solar Sonic" deep-space multidimensional coded universal communications "via ionosphere" armed signals and quantum algorithm resonance of hydroxyl molecules cosmic- radio- waves. The said invention is a solar sonic universe multidimensional radio astronomical control tower resonator for systemic multi-communications and manipulation of all resonating matters and antimatters alike. The solar sonic multidimensional interstellar radio signal communications resonator is a novel technology precisely pertaining to deep space multidimensional radio signal communications, which is an art reflected within the formal technology stated title. The present invention provides a system for communications on an extraterrestrial body, may include a space-based component and an ancillary extraterrestrial component on the extraterrestrial body. The space-based component may be configured to provide wireless communications with plurality of radio-terminals located on the extraterrestrial body over a satellite frequency band wherein the space-based component includes at least one satellite orbiting the extraterrestrial body. The ancillary extraterrestrial component may be configured to provide wireless communications with the plurality of radio-terminal located on the extraterrestrial body. Moreover, the ancillary extraterrestrial component may reuse at least one satellite frequency of the satellite frequency band and the space-based component and the ancillary extraterrestrial component may be configured to relay communications there between. An exciter system is provided for use in facilitating electromagnetic communication within an enclosed space. The system includes an exciter which may be in the form of a three dimensional hemispherical exciter or a two dimensional planar sector exciter depending on the size of the associated structure and the power requirements of operation. The exciter system operates in conjunction with a hub/controller network. The exciter system is adapted to induce a quasi-static evanescent field within the space and to thereby enable communications using the evanescent field at frequencies within an operational frequency range determined by the characteristics of the space. The exciter is mounted in opposition to a portion of a conductive framework within the enclosed space. In operation an coaxial connector connects the exciter to die hub/controller network with the central conductor connecting at a feed point to the exciter while the shield conductor is connected to the opposing conductive framework. In some embodiments a post acts as a curtain to enhance performance at tower frequencies. Improved communications systems and methods, however, may be desired to accommodate increasing communications to and from extraterrestrial bodies such as the moon and/or mars as more missions are sent to extraterrestrial bodies. More particularly, communications systems and methods may be desired to accommodate increased communications between radio- terminals on the extraterrestrial body and a satellite orbiting a celestial body and/ or transceivers on earth. The present invention relates generally to wireless communications and more particularly to systems for internal communications within structures, at frequencies in the range of 0.5 to 100 MHz.

Classifications:

International (IPC 8-9): H04B7/185 (Advanced/Invention)

CPC: H04B7/18584

PatBase - WO16097832_A1



Family:

Publication number	Publication date	Application number	Application date
WO16097832 A1	20160623	WO2015IB00427	20150518
WO16097832 A4	20161020	WO2015IB00427	20150518
WO16097832 A9	20160825	WO2015IB00427	20150518

Priority:

SD20140003288 20141216

Probable Assignee: ALDAWSARI FAISAL

Assignee(s): (std): ALDAWSARI FAISAL ; AMMAR MOHAMMED ; KAMIL IDRIS ; MAHGOUB ABULGASIM ; SALIH ELTAYEB ; YOUSIF AMRO

Inventor(s): (std): ALDAWSARI FAISAL ; AMMAR MOHAMMED ; KAMIL IDRIS ; MAHGOUB ABULGASIM ; SALIH ELTAYEB ; YOUSIF AMRO

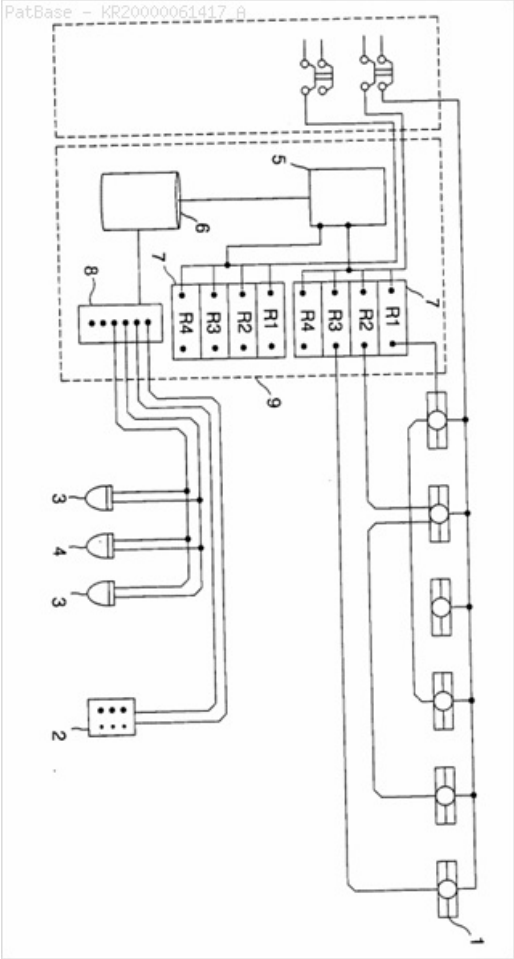
Agent(s): AMMAR MOHAMMED

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 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

Title: **BUILDING AUTOMATION** SYSTEM OF **HIERARCHICAL** CONTROL STRUCTURE

Abstract: Source: KR20000061417A PURPOSE: A **building automation** system is provided to manage effectively an electric power and reduce a consumption power by using a **hierarchical** control structure having a maintenance easiness, a flexibility and an extendability. CONSTITUTION: A **building automation** system having a **hierarchical** control structure comprises a central controller(10), a plurality of trunk controllers(11), a communication modem(12), a plurality of lighting units(13), a plurality of switch units(14), a plurality of power connection units(15), a plurality of fire **sensors**(16), and a plurality of crime prevention **sensors**(17). The lighting units(13), the switch units(14), the power connection units(15), the fire **sensors**(16), and the crime prevention **sensors**(17) are connected to the trunk controllers(11). The central controller(10) can control the units(13,14,15,16,17), and make the trunk controllers(11) receive the status of the units(13,14,15,16,17) and send various information or alarm messages to a user or a related organization

Classifications:
International (IPC 8-9): G06Q99/00 (Advanced/Invention);
G06Q50/00 (Advanced/Non-invention);
G06Q99/00 (Core/Invention)
International (IPC 1-7): G06F17/60



Family:

Publication number	Publication date	Application number	Application date
KR100317089 B1	20011222	KR20000009213	20000224
KR20000061417 A	20001016	KR20000009213	20000224

Priority:

KR19990006145 19990224 KR20000009213 20000224

Probable Assignee: AINTEL CO LTD
Assignee(s): (std): AINTEL CO LTD
Assignee(s): AINTEL CO
Inventor(s): (std): PARK GANG DEOK

Title: COMPUTER VISION PROCESS

Abstract: A computer vision process in which (i) a track record for one or more detected objects is created, the track record defining metadata or parameters for that detected object; and (ii) that track record is then linked to one or more higher-level track records for one or more higher-level objects.

Classifications:

International (IPC 8-9): G06K9/00 G06K9/32 G06T7/20

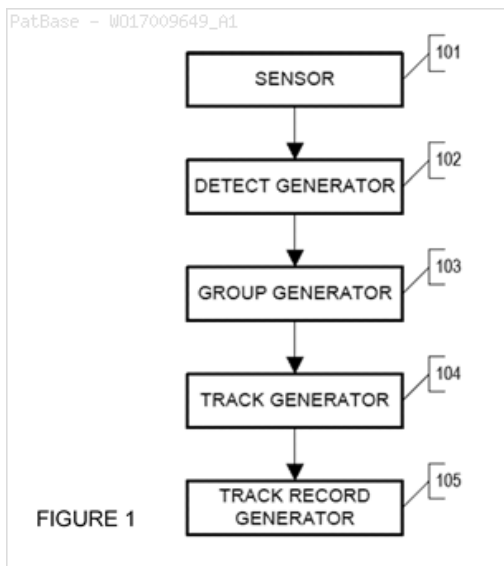
H04N7/18 (Advanced/Invention);

G08B13/196 (Advanced/Non-invention)

CPC: G06K9/00771 G06K9/00369 G06K9/32 G06K2009/3291

G06K9/00335 G06K9/00711 G06T2207/30196 G08B13/19602

H04N7/18



Family:

Publication number	Publication date	Application number	Application date
GB201512283 A0	20150819	GB20150012283	20150714
GB201612226 A0	20160831	GB20160012226	20160714
GB2542884 A1	20170405	GB20160012226	20160714
WO17009649 A1	20170119	WO2016GB52128	20160714

Priority:

GB20150012283 20150714

Probable Assignee: APICAL LTD

Assignee(s): (std): APICAL LTD ; UNIFAI HOLDINGS LTD

Inventor(s): (std): IIYA ROMANENKO ; ROMANENKO ILYA ; TEREKHOV VLADISLAV ; VLADISLAV TEREKHOV

Agent(s): ORIGIN LTD

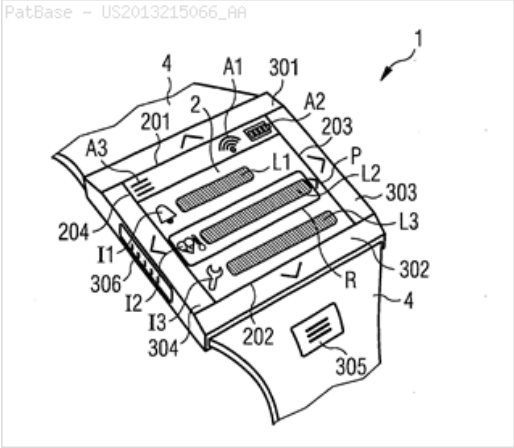
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX 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

Title: APPLIANCE COMPRISING A DISPLAY AND OPERATING UNIT

Abstract: Source: US2013215066A An appliance has four actuating elements are arranged around an edge of a display. One actuating element is arranged above the display, one below the display, one to the right of the display and one to the left of the display. In this way, the appliance is operated. A corresponding menu structure or list of applications on the display is coupled to the actuation of the actuating elements. A corresponding list in a hierarchy plane of the menu structure is run through or changed between applications running on the appliance by actuating the upper and lower actuating elements. The right and left actuating elements enable change from one hierarchy plane to another hierarchy plane of the menu structure or the display of detail information about applications. The appliance can especially be a portable appliance, e.g. an appliance that can be worn on the wrist or a mobile telephone.

Classifications:

International (IPC 8-9): G04G21/08 G04G9/00 G06F1/16 G06F3/01 G06F3/041 (Advanced/Invention)
CPC: G06F3/0412 G04G9/0064 G04G21/08
European: G04G21/08 G04G9/00F
US: 345/173



Family:

Publication number	Publication date	Application number	Application date
DE102010042527 A1	20120419	DE201010042527	20101015
EP2606401 A1	20130626	EP20110771112	20111014
US2013215066 AA	20130822	US20110879462	20111014
WO12049286 A1	20120419	WO2011EP67977	20111014

Priority:

DE201010042527 20101015 WO2011EP67977 20111014

Probable Assignee: SIEMENS AG

Assignee(s): (std): FERTL DANIELA ; KAISER FRITJOFF ; SIEMENS AG ; STEINKE INES

Assignee(s): SIEMENS AKTIENGESELLSCHAFT

Inventor(s): (std): FERTL DANIELA ; KAISER FRITJOFF ; STEINKE INES

Agent(s): SIEMENS AKTIENGESELLSCHAFT

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