

1) Family number: 45104453 (US2010141153A)

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Title: WIRELESS LIGHTING DEVICES AND APPLICATIONS

Abstract: Source: US2010141153A [EN] In embodiments of the present invention improved capabilities are described for systems and methods that employ a control component and/or power source integrated in an LED based light source to control and/or power the LED light source wirelessly. In embodiments, the LED based light source may take the form of a standard light bulb that plugs into a standard lighting socket or fixture.

Classifications:

International (IPC 8-9): F21L4/02 F21S9/02 F21V19/04 F21V23/04 F21V4/00 G08C17/02 H01L25/16 H02H3/08 H02H3/20 H02J3/00 H02J3/32 H02J7/00 H02J7/02 H02J7/34 H02J9/00 H02J9/02 H02J9/06 H04L12/28 H05B33/08 H05B37/00 H05B37/02 H05B37/03 H05B39/00 H05B39/04 H05B41/288 H05B41/292 H05B41/36 (Advanced/Invention); F21K9/238 F21L4/00 F21S9/02 F21V23/04 F21W111/027 F21Y101/00 F21Y101/02 H02J1/10 H02J5/00 H02J7/02 H04L29/08 (Advanced/Non-invention);

F21V19/04 H05B37/00 H05B37/02 H05B41/36 (Core/Invention)

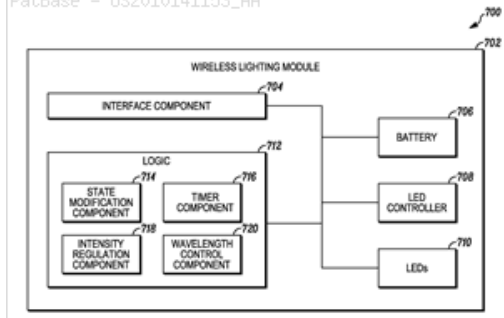
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European: H02J9/02 H05B33/08D H05B37/02B6R T02J7/02B1 T02J9/06C2 Y02B10/72 Y02B20/38B Y02B20/48

US: 1/1 307/23 307/25 307/25P 307/44 307/64 307/64S 307/66 307/66P 307/80 315/121 315/130 315/149 315/149P 315/153 315/159 315/159P 315/160 315/160S 315/172 315/175 315/175S 315/209R 315/224 315/225 315/250 315/291 315/291P 315/291S 315/293 315/297 315/307 315/308 315/360 315/360S 315/362 315/362S 315/86 315/86P 362/20 362/20P 362/20S 362/249.02 362/276 362/806

PatBase - US2010141153_AA



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: WIRELESS ENVIRONMENT LLC

Assignee(s): (std): LEVINE DAVID B ; RECKER MICHAEL V ; WIRELESS ENVIRONMENT LLC ; WIRELESS ENV LLC ; WIRELESS ENVIRONMENT LLC

Assignee(s): CITIZENS BANK N A ; DIRECTOR OF DEVELOPMENT OF STATE OF OHIO ; INT BUSINESS MACHINES CORP

Inventor(s): (std): LEVINE DAVID B ; RECKER MICHAEL V ; RECKER MICHAEL V ; LEVINE DAVID B

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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

2) Family number: 55159288 (US2014039699A)

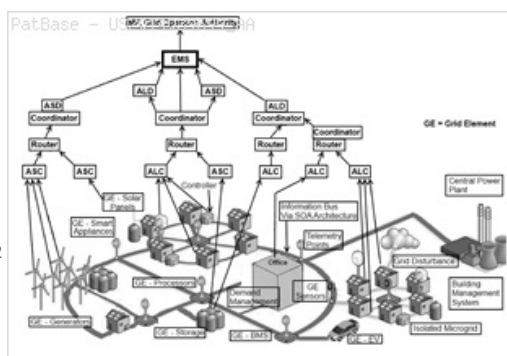
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Title: SYSTEM, METHOD, AND APPARATUS FOR ELECTRIC POWER GRID AND NETWORK MANAGEMENT OF GRID ELEMENTS

Abstract: Source: US2014039699A [EN] Systems, methods, and apparatus embodiments for electric power grid and network registration and management of active grid elements. Grid elements are transformed into active grid elements following initial registration of each grid element with the system, preferably through network-based communication between the grid elements and a coordinator, either in coordination with or outside of an IP-based communications network router. A multiplicity of active grid elements function in the grid for supply capacity, supply and/or load curtailment as supply or capacity. Also preferably, messaging is managed through a network by a Coordinator using IP messaging for communication with the grid elements, with the energy management system (EMS), and with the utilities, market participants, and/or grid operators.

Classifications:

International (IPC 8-9): G05B11/01 G05B13/02 G05B15/02 G05B19/02 G05B19/042 G05D11/00 G05D17/00 G05D3/12 G05D5/00 G05D9/00 G05F1/66 G06F1/00 G06F1/26 G06Q50/06 G08B G08B1/08 G08B23/00 H02J H02J13/00 H02J3/00 H02J3/14 H04L12/24 H04L12/58 H04L29/06 H04L29/08 (Advanced/Invention); H02J3/00 H02J3/38 (Advanced/Non-invention)
CPC: G05B19/02 H02J3/14 H04L67/10 G05B15/02 G05B13/02 H02J2003/007 Y02B70/3225 Y04S20/222 Y04S20/224 H04L63/20 Y04S40/24 G05B11/01 G05B19/042 G05B2219/40458 H02J13/0062 G05F1/66 G05B13/0255 H02J3/00 H02J13/0079 Y02E60/76 Y04S40/22 G06Q50/06 H02J3/38 H02J13/0006 Y02E40/72 Y04S10/12
US: 1/1 340/870.02 700/22 700/286 700/287 700/288 700/289 700/290 700/291 700/292 700/293 700/294 700/295 700/296 700/297 713/300



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: CAUSAM ENERGY INC

Assignee(s): (std): CASUAM ENERGY INC ; CAUSAM ENERGY INC ; CAUSAM HOLDINGS LLC ; FORBES JR JOSEPH W

Assignee(s): FORBES JOSEPH W JR

Inventor(s): (std): FORBES JOSEPH W ; FORBES JOSEPH W JR ; FORBES JR JOSEPH W ; JOSEPH W FORBES ; JOSEPH W JR FORBES

Inventor(s): FORBES JR

Agent(s): WRAYS; GOWLING LAFLEUR HENDERSON LLP; ZERBI GUIDO MARIA; KEANE DAVID COLMAN; TRIANGLE PATENTS PLLC; NEO IP; GLASGOW JINAN

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

3) Family number: 28212589 (US2002120846A)

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Title: ELECTRONIC PAYMENT AND AUTHENTICATION SYSTEM WITH DEBIT AND IDENTIFICATION DATA VERIFICATION AND ELECTRONIC CHECK CAPABILITIES

Abstract: Source: US2002120846A [EN] An electronic payment and authentication system that includes features to verify the authenticity of a payer, validate debit data, and facilitate debit (as opposed to credit) payment transactions. The electronic payment system allows a consumer to purchase items and services via a network while utilizing a debit transaction. The invention provides merchants with the ability to verify the identity of the consumer, determine if the consumer is a good debit transaction risk, and retrieve debit data associated with a particular consumer.

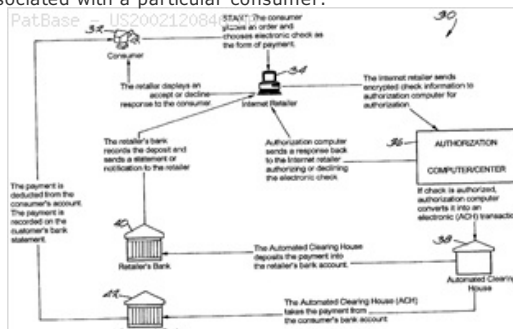
Classifications:

International (IPC 8-9): F21K9/00 F21K99/00 F21L4/00 F21L4/08 F21S9/02 F21S9/03 F21V15/01 F21V21/08 F21V23/00 F21V23/04 F21W111/027 F21Y101/00 G05F1/00 G06Q20/00 G06Q20/04 G06Q20/08 G06Q20/10 G06Q20/28 G06Q20/40 G06Q30/00 G06Q30/04 G06Q40/00 G07F19/00 G07F7/12 G08B5/36 H01Q1/24 H01Q1/44 H02J7/00 H02J7/02 H02J9/02 H04Q1/30 H05B33/08 H05B37/00 H05B37/02 H05B37/03 H05B41/36 (Advanced/Invention); E04F11/104 F21S2/00 F21S8/00 F21S8/04 F21S9/02 F21V17/02 F21V21/30 F21V23/04 F21W111/027 F21Y101/00 F21Y101/02 (Advanced/Non-invention); F21V15/00 H05B37/02 (Core/Invention)

International (IPC 1-7): G06F17/60 G07F19/00 G07F7/12 H05B37/02

CPC: G06Q20/0425 G06Q20/04 G06Q20/085 G06Q20/10 G06Q20/102 G06Q20/108 G06Q20/28 G06Q20/40 G06Q20/401 G06Q30/04 G06Q40/00 G06Q40/025 H05B33/0815 Y02B20/346 F21K9/13 E04F2011/1048 F21S2/00 F21S8/033 F21S8/04 F21S9/037 F21V17/02 F21V21/0824 F21V21/30 F21V23/0435 F21V23/0471 H01Q1/248 H01Q1/44 F21S9/022 F21V23/0442 F21W111/027 H05B33/0803 H05B33/0854 Y02B20/383 Y10S362/806 F21S9/02 F21V23/045 H05B37/0227 H05B37/03 Y10T307/625 Y02B20/42 F21K9/23 H05B37/0281 H05B33/0872 H05B37/0272 G08B5/36 F21Y2101/00 F21Y2115/15 F21Y2115/10 Y02B20/48

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Family:

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Priority:

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Assignee(s): GALLMEIER BRIAN J ; DIRECTOR OF DEVELOPMENT OF STATE OF OHIO ; CITIZENS BANK N A

Inventor(s): (std): BATES MICHAEL RICHARD ; CREWS TERESA MARIE ; GALLMEIER BRIAN J ; GALLMEIER BRIAN JOHN ; HAIRE JAMES MICHAEL ; HILL ROBERT LAWRENCE ; NIPE MARK ANDREW ; PETERSEN MATTHEW LACEY ; STEWART WHITNEY HILTON ; RECKER MICHAEL V ; LEVINE DAVID B

Inventor(s): MICHAEL V RECKER ; DAVID B LEVINE

Agent(s): A J PARK; AJ PARK; SMART AND BIGGAR; NAISMITH ROBERT STEWART; MCGLASHAN GRAHAM STEWART; FURUYA SATOSHI; MIZOBE TAKAHIKO; AMIN TUROCY AND CALVIN LLP; FIS FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; MICHAEL BEST AND FRIEDRICH LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER L L P; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; TUROCY GREGORY

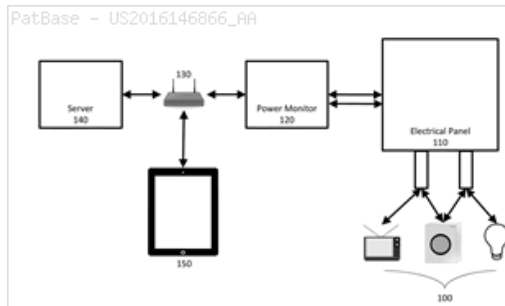
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Title: DETERMINING INFORMATION ABOUT DEVICES IN A BUILDING USING DIFFERENT SETS OF FEATURES

Abstract: Source: US2016146866A [EN] Electrical usage of devices in a building may be monitored to provide information about the operation of the devices to a user. The information communicated to a user may include historical information and real-time information. In determining the real-time information, it may be desired to provide the information quickly and use a smaller set of features that are available more quickly. In determining the historical information, it may be desired to provide more accurate information and use a larger set of features. A device may compute real-time information and historical information using different sets of features.

Classifications:

International (IPC 8-9): G01R21/00 G01R21/133 G05B15/02 G05B23/02 G05D3/12 G05F1/66 G06F1/00 G06F15/16 G06F15/173 G06F17/00 G06F17/30 G06N5/00 G06N5/04 G06N99/00 G06Q50/06 G06Q50/10 H02J13/00 H04L12/26 H04L29/08 (Advanced/Invention); G06Q10/00 G06Q50/06 (Advanced/Non-invention)
CPC: G06N5/04 G06N99/005 G05B15/02 G06F17/30958 H04L12/2823 H04L67/12 H04L67/10 G06F17/3053 G06Q50/06 H04L43/08 H02J3/14 H02J13/0075 H02J2003/143 G01R21/133 Y02B70/3266 Y04S20/242 G05B23/0251 G05B2219/2614 Y02B90/2653 Y04S40/126 Y04S40/168 G06Q10/20 H02J13/00 G05F1/66 G05B23/02
US: 1/1 700/295 702/61 702/62 706/11



Family:

Publication number	Publication date	Application number	Application date
■ CN107408273 A	20171128	CN201480084575	20141126
■ CN107430399 A	20171201	CN201580074632	20151124
■ EP3224683 A1	20171004	EP20150863620	20151124
■ EP3224792 A1	20171004	EP20140906856	20141126
■ US2016146866 AA	20160526	US20150707710	20150508
■ US2016147243 AA	20160526	US20150826432	20150814
■ US2016148099 AA	20160526	US20150707665	20150508
■ US2016328651 AA	20161110	US20160217420	20160722
■ US2017192042 AA	20170706	US20170466553	20170322
■ US9057746 BA	20150616	US20140554962	20141126
■ US9152737 BA	20151006	US20150707738	20150508
■ US9172623 BA	20151027	US20140554935	20141126
■ US9443195 BB	20160913	US20150707665	20150508
■ US9691030 BB	20170627	US20160217420	20160722
■ US9739813 BB	20170822	US20150707710	20150508
■ WO16085500 A1	20160602	WO2014US67662	20141126
■ WO16085942 A1	20160602	WO2015US62346	20151124

Priority:

US20140554935	20141126	US20140554962	20141126	US20150707738	20150508
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Probable Assignee: SENSE LABS INC

Assignee(s): (std): SENSE LABS INC

Inventor(s): (std): CHOUETER GHINWA F ; HOULETTE RYAN T ; MACAULAY VANESSA LEE ; MARCUS JEFFREY N ; MICALI CHRISTOPHER M ; PHILLIPS MICHAEL S ; RUTLEDGE CHARLES H

Agent(s): FINDLAY ALICE ROSEMARY; GTC LAW GROUP AND AFFILIATES; GTC LAW GROUP LLP AND AFFILIATES; GTC LAW GROUP PC AND AFFILIATES; MONOCELLO JOHN A III; MONOCELLO III JOHN A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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

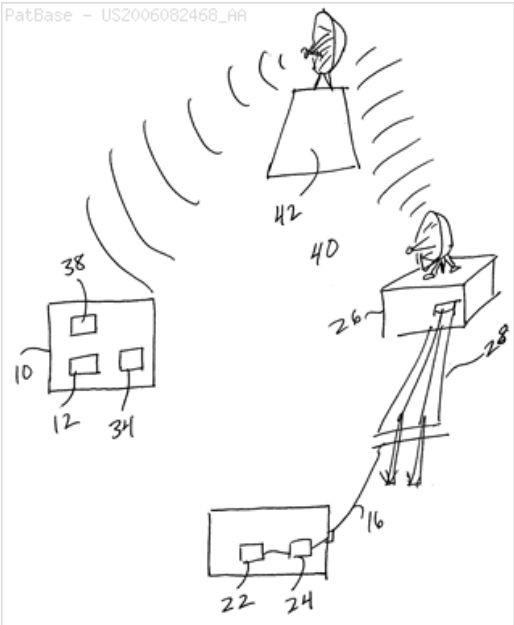
Title: ON-LINE WEB ACCESSED ENERGY METER

Abstract: Source: US2006082468A [EN] An electrical metering system capable of performing multiple metering functions, collecting data, and wirelessly provides the collected metering data to a utility operator. In the electrical metering system, at least one computing device for initiating a request for data. A first modem connects the computing device to an infrastructure. A wireless embedded modem for wirelessly connects an electric meter to an infrastructure, and the wireless electric modem receives a request from the computing device and wirelessly transmits the metering data to the computing device, thereby initiating the request.

Classifications:

International (IPC 8-9): G01D4/00 G01R1/00 G01R1/30 G01R1/40 G01R11/00 G01R11/32 G01R11/48 G01R11/63 G01R13/00 G01R13/02 G01R15/08 G01R19/00 G01R19/02 G01R19/04 G01R19/18 G01R19/22 G01R19/25 G01R21/00 G01R21/06 G01R21/133 G01R22/06 G01R22/10 G01R29/00 G01R35/00 G05B19/042 G06F11/30 G06F15/00 G06F15/16 G06F15/167 G06F17/00 G06F17/10 G06F17/30 G06F17/40 G06F19/00 G06F21/12 G06F21/14 G06F21/57 G06F21/60 G06F3/0484 G06F3/06 G06F7/00 G06F9/445 G06Q50/06 G06T11/20 G08B23/00 G08C15/00 G08C15/06 G08C17/02 G12B13/00 H02B1/03 H03M1/12 H04B3/54 H04L12/26 H04L12/28 H04L12/58 H04L29/06 H04L29/08 H04M11/00 H04Q7/20 H04W24/00 H05K1/14 (Advanced/Invention); G01R11/48 G01R11/56 G01R13/00 G01R13/02 G01R19/25

G01R21/00 G01R21/06 G01R22/00 G01R22/10 (Advanced/Non-invention);
G01R11/00 G01R13/00 G01R19/00 G01R19/22 G01R21/00
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361/79 361/84 361/86 361/88 361/94 361/97 370/252 370/252P 370/401 379/106.03 379/106.030S 455/426.1 455/426.100S
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702/70 702/72 702/79 702/85 705/412 705/416 707/100 707/648 707/812 707/821 707/821P 707/999.1 707/999.100S
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Family:

Publication number	Publication date	Application number	Application date
US2006082468 AA	20060420	US20040969706	20041020
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US2008147334 AA	20080619	US20080036356	20080225
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Priority:

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Probable Assignee: ELECTRO IND GAUGE TECH

Assignee(s): (std): BANHEGYESI TIBOR ; BANKER PATRICIA E ; ELECTRIC IND GAUGE TECH ; ELECTRO IND GAUGE TECH ; ELECTRO IND GAUGETECH ; WANG WEI ; SIQUEIRA DA SILVA DULCIANE ; SPANIER JOSEPH ; SLOTA FREDERICK B ; KAGAN ERRAN ; TECH ELECTRO IND GAUGE ; KOVAL RORY A ; KAGAN ANDREW ; ZHU HAI ; WERNER ANDREW J

Assignee(s): ELECTRO INDUSTRIES GAUGETECH ; ELECTRO INDUSTRIES GAUGE TECH ; ELECTRO IND ; ELECTRO IND AND GAUGE TECH

Inventor(s): (std): ELECTRO IND GAUGE TECH ; ELECTRO INDUSTRIES GAUGE TECH ; KAGAN ERRAN ; KOVAL RORY A ; SLOTA FREDERICK B ; SPANIER JOSEPH ; WANG WEI ; ZHU HAI ; WERNER ANDREW J ; KAGAN ANDREW ; TANG XINLU ; SIQUEIRA DA SILVA DULCIANE ; BANKER PATRICIA E ; SEMINARIO JORGE A POLAR ; POLAR JORGE ; BANKER PATRICA E ; BANHEGYESI TIBOR

Agent(s): DILWORTH AND BARRESE LLP; CASELLA AND HESPOS; ELECTRO IND GAUGETECH C O CASELLA AND HESPOS LLP; ELECTRO INDUSTRIES/ GAUGETECH,C/O HESPOS AND PORCO LLP; ELECTRO IND GAUGETECH C O HESPOS AND PORCO LLP; GERALD E HESPOS ESQ HESPOS AND PORCO LLP; GERALD E; ANTHONY J; HESPOS GERALD E; CASELLA ANTHONY J; PORCO MICHAEL J; MICHAEL J; GERLAD E; MATTHEW T

6) Family number: 43868216 (US2009267540A)

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Title: MODULAR LIGHTING SYSTEMS

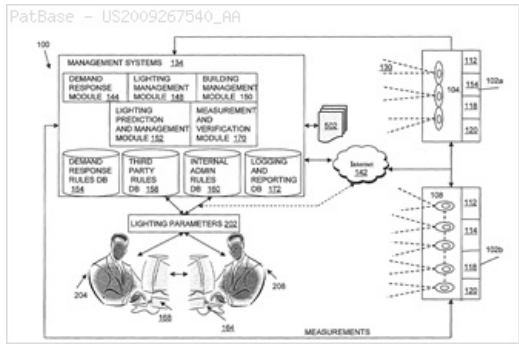
Abstract: Source: US2009267540A [EN] In embodiments of the present invention, a method and system is provided for designing improved intelligent, LED-based lighting systems. The LED based lighting systems may include fixtures with one or more of rotatable LED light bars, integrated sensors, onboard intelligence to receive signals from the LED light bars and control the LED light bars, and a mesh network connectivity to other fixtures.

Classifications:

International (IPC 8-9): B60Q1/00 F21S2/00 F21S4/00 F21S4/28
F21S8/04 F21S8/08 F21S9/02 F21S9/04 F21V14/02 F21V15/00
F21V15/01 F21V19/00 F21V21/00 F21V21/15 F21V21/30 F21V23/04
F21V29/00 F21V29/56 F21V29/60 F21V29/74 F21V29/76 F21V33/00
G01R19/00 G01R21/14 G01R7/00 G05B11/01 G05D11/00 G05D3/12
G05F1/00 H01J23/16 H01R33/00 H05B33/08 H05B37/00 H05B37/02
H05B39/04 H05B41/36 (Advanced/Invention);

F21K9/20 F21S9/04 F21V14/02 F21Y101/02 F21Y103/00 F21Y103/10
F21Y113/00 F21Y115/10 G02C11/02 (Advanced/Non-invention);
F21V15/00 F21V21/14 F21V29/00 F21V33/00
H05B37/02 (Core/Invention)
CPC: H05B37/0272 H05B37/0245 F21V17/104 Y10S362/80
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European: F21S2/00A F21S48/32P F21S8/08 F21S9/02E4 F21S9/04F F21V17/02 F21V21/15 F21V21/30 F21V23/04S
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315/297P 315/307 315/308 315/309 315/312 315/312P 315/317 315/318 315/360 315/51 324/105 324/105P 324/142
324/76.11 340/309.16 340/517 340/565 351/51 362/235 362/235P 362/249.02 362/249.020P 362/249.06 362/249.07
362/249.08 362/249.1 362/249.100S 362/249.14 362/249.15 362/249.16 362/249.17 362/249.18 362/249.19 362/253
362/253S 362/35 362/35S 362/362 362/362S 362/373 362/373S 362/493 362/800 700/19 700/21 700/22 700/295 700/296
700/297



Family:

Publication number	Publication date	Application number	Application date
AU2009236311 AA	20091022	AU20090236311	20090414
AU2009236311 BB	20140612	AU20090236311	20090414
AU2012230991 AA	20120927	AU20120230991	20120320
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AU2014218445 AA	20140918	AU20140218445	20140829
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AU2015255250 AA	20151210	AU20150255250	20151112
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EP2274957 A1	20110119	EP20090732558	20090414
EP2274957 A4	20120926	EP20090732558	20090414
EP2689639 A1	20140129	EP20120761180	20120320
EP2689639 A4	20151028	EP20120761180	20120320
EP2774459 A1	20140910	EP20120844864	20121102
EP2774459 A4	20151202	EP20120844864	20121102
US2009267540 AA	20091029	US20090423543	20090414
US2010259931 AA	20101014	US20100823195	20100625
US2010264846 AA	20101021	US20100824797	20100628
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WO09129232 A1	20091022	WO2009US40514	20090414
WO12129243 A1	20120927	WO2012US29834	20120320
WO13067389 A1	20130510	WO2012US63372	20121102

Priority:

AU20090236311	20090414	AU20120230991	20120320	AU20140218445	20140829
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US20160298064	20161019	US20160367125	20161201		

Probable Assignee: DIGITAL LUMENS INC

Assignee(s): (std): DIGITAL LUMENS INC ; EGAN JOHN ; PIEPGRAS COLIN ; KONDO STEVE T ; JOHNSTON SCOTT D ; MORGAN FREDERICK M ; ELLEDGE CHRISTOPHER L ; EGAN JOHN F ; CHEMEL BRIAN ; CHEMEL BRIAN J ; DIGITAL LUMENS INC ; MORGAN FREDERICK ; PIEPGRAS COLIN N

Assignee(s): SICK HENRY B ; KUHN JESSE F ; MASSICOTTE MATTHEW W ; DIGITAL LUMENS INC374 CONGRESS STREET, 6TH FLOORBOSTONMA02210US ; SYNERGY DISC

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Inventor(s): CHEMEL BRIANUS ; KONDO STEVE TUS ; JOHNSTON SCOTT DUS ; ELLEDGE CHRISTOPHER LUS ; EGAN JOHN FUS ; KUHN JESSE FUS ; MASSICOTTE MATTHEW WUS ; MORGAN FREDERICK MUS ; PIEPGRAS COLIN NUS ; COLIN PIEPGRAS ; BRIAN CHEMEL ; SICK HENRY BUS ; STEVE T KONDO ; SCOTT D JOHNSTON

Agent(s): FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; PARLEE MCLAWS LLP; BORDEN LADNER GERVAIS LLP; HOARTON LLOYD DOUGLAS CHARLES; HALEY STEPHEN; WEBB LAW FIRM PC; FOLEY AND LARDNER LLP; JOSEPH; CHRISTOPHER MAX; COOLEY LLP; BALDAUF KENT E JR ET AL; TEJA JR JOSEPH 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

7) Family number: 66904727 (WO17149526A3)

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Title: A METHOD AND APPARATUS FOR COOPERATIVE USAGE OF MULTIPLE DISTANCE METERS

Abstract: A method and apparatus for an angle meter cooperatively using two or more non-contact distance meters for measuring distances to a surface along substantially parallel lines. The measured distances are used for estimating or calculating the angle to the surface and the distance to the surface. The distance meters may use optical means, where a visible or non-visible light or laser beam is emitted and received, acoustical means, where an audible or ultrasound sound is emitted and received, or an electro-magnetic scheme, where radar beam is transmitted and received. The distances may be estimated using a Time-of-Flight (TOF), homodyne or heterodyne phase detection schemes. The distance meters may share the same correlator, signal conditioning circuits, or the same sensor. Two or more angle meters may be used defining parallel or perpendicular measurement planes, for measuring angles between surfaces, and for estimating physical dimensions such as length, area or volume.

Classifications:

International (IPC 8-9): G01B15/04 G01C3/10 G01C3/18 G01S17/08 G01S17/42 (Advanced/Invention)

CPC: G01B15/00 G01B11/026 G01B11/26 G01S1/00

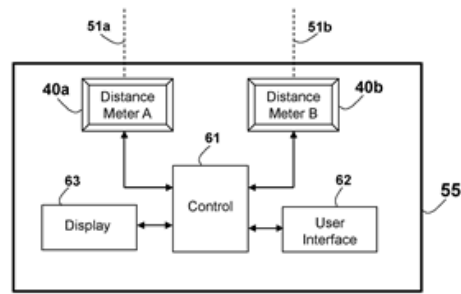


FIG. 6

Family:

Publication number	Publication date	Application number	Application date
W017149526 A2	20170908	WO20171L50220	20170222
W017149526 A3	20171005	WO20171L50220	20170222

Priority:

US20160303388P 20160304 US20160373388P 20160811

Probable Assignee: MAY PATENTS LTD**Assignee(s):** (std): MAY PATENTS LTD**Inventor(s):** (std): BINDER YEHUDA**Agent(s):** BINDER SHEM TOV DORIT

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

8) Family number: 64370237 (US2016365897A)

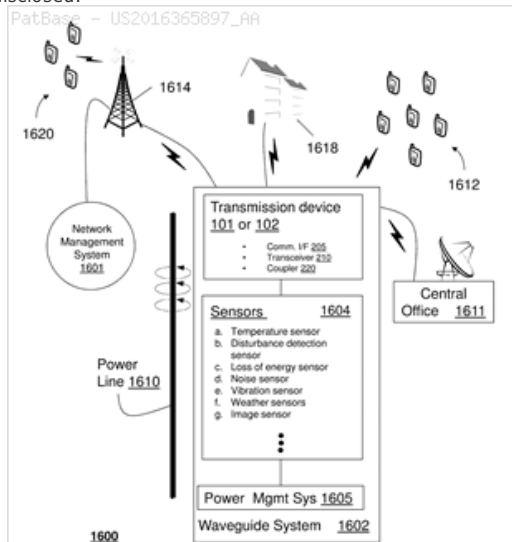
© PatBase

Title: METHOD AND APPARATUS FOR PROVIDING SECURITY USING NETWORK TRAFFIC ADJUSTMENTS

Abstract: Source: US2016365897A [EN] Aspects of the subject disclosure may include, for example, generating first traffic for transmitting along a network path to a recipient device and transmitting the first traffic along the network path to remove traffic patterns associated with a premises. Other embodiments are disclosed.

Classifications:

International (IPC 8-9): H01P3/00 H04B3/00 H04B3/52 H04B3/54 H04L12/00 H04L12/26 H04L12/707 H04L12/741 H04L27/00 H04L29/06 H04L29/08 H04W4/02 H04W72/04 (Advanced/Invention) **CPC:** H04L43/0876 H04L67/2804 H04W72/0446 H04W4/021 H04L43/16 H04B3/54 H01P3/00 H04B3/52 H04L45/24 H04L63/18 **US:** 375/256

**Family:**

Publication number	Publication date	Application number	Application date
CA2984803 AA	20171101	CA20162984803	20160602
US2016365897 AA	20161215	US20150739025	20150615
US2017222691 AA	20170803	US20170489984	20170418
US2018048353 AA	20180215	US20170695513	20170905
US9667317 BB	20170530	US20150739025	20150615
US9787359 BB	20171010	US20170489984	20170418
WO16204975 A1	20161222	WO2016US35383	20160602

Priority:

Probable Assignee: AT AND T INTELLECTUAL PROPERTY I LP

Assignee(s): (std): AT AND T IP I LP ; AT AND T INTELLECTUAL PROPERTY I L P

Assignee(s): AT AND T INTELLECTUAL PROPERTY I LP ; JOVER ROGER PIQUERAS ; SERBAN CRISTINA ; GROSS DAVID ; LACKEY JOSHUA ; LEVY DONALD E ; RAMACHANDRAN JAYARAMAN

Inventor(s): (std): SERBAN CRISTINA ; RAMACHANDRAN JAYARAMAN ; PIQUERAS JOVER ROGER ; LEVY DONALD E ; LACKEY JOSHUA ; GROSS DAVID ; JOVER ROGER PIQUERAS

Agent(s): KIRBY EADES GALE BAKER; ED; GUNTIN AND GUST PLC; MATTHEW; GUNTIN ED

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

9) Family number: 33341107 (US2008272934A)

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Title: SYSTEMS AND METHODS FOR MODIFYING POWER USAGE

Abstract: Source: US2008272934A [EN] Systems and methods for providing energy management utilize wireless wide-area network broadcast signals and a decentralized receiver architecture to allow customers to make informed choices with regard to energy consumption and load shedding for particular appliances. A receiver assembly embedded within an appliance receives a broadcast signal, e.g., an FM subcarrier signal, including tariff data and other electrical grid data. A processor coupled with the receiver controls the appliance in accordance with the received data and in accordance with user-defined preferences. In some embodiments, a transceiver assembly is embedded in one or more appliances in a household. Each transceiver is configured to receive broadcast signals regarding grid data, and to communicate with other appliances and/or a usage meter over a wireless personal area network. Meter data from one or more households may be aggregated and uplinked back to the energy provider or other entities.

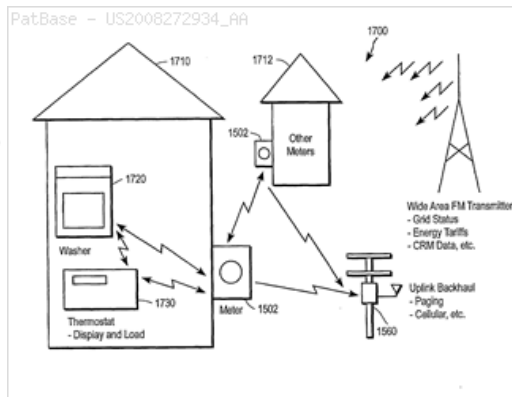
Classifications:

International (IPC 8-9): G01D4/00 G01R11/56 G01R21/00 G01R21/13 G01R21/133 G01R22/06 G06F1/26 G06F19/00 G06Q30/06 G08B1/08 G08B23/00 G08B25/10 G08C15/06 G08C17/02 G08C19/16 H02J13/00 H02J3/14 H02M7/46 H04K1/00 (Advanced/Invention); G01R11/00 G01R21/00 G01R22/06 G06F19/00 G08B1/00 G08C17/00 H02J3/12 H02M7/44 H04K1/00 (Core/Invention)

CPC: H02J13/0086 H02J2003/146 G01R11/56 G01R21/007 G01R21/133 G01R21/1333 G01R22/06 Y02E60/74 Y04S10/30 H02J3/14 H02J13/0075 Y02B70/3225 Y02B70/3266 Y02B90/2653 Y04S20/222 Y04S20/224 Y04S20/242 Y04S40/126 G06Q30/0621 G01D4/002 H02J2003/143 G08B25/10 H02J13/001 Y04S50/10

European: G01R11/56 G01R21/00D G01R21/133 G01R21/133C G01R22/06 G01R22/06C H02J13/00F4B8 H02J3/14 Y02B70/32B4 Y02B90/26B8 Y04S20/22C Y04S20/22C2 Y04S40/12H

US: 1/1 340/539.1 340/539.100S 340/539.14 340/870.01 340/870.010S 340/870.02 340/870.11 340/870.110P 380/270 380/270S 700/295 700/295S 705/26.5



Family:

Publication number	Publication date	Application number	Application date
CA2601474 AA	20060914	CA20062601474	20060308
CA2601474 C	20170404	CA20062601474	20060308
GB200718513 A0	20071031	GB20070018513	20060308
GB2439490 A1	20071227	GB20070018513	20060308
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US2012271475 AA	20121025	US20120535184	20120627
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US9830629 BB	20171128	US20160262997	20160912
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WO06096854 A3	20111124	WO2006US08705	20060308

Priority:

US20050379439P 20050509 US20050659455P 20050308 US20060885928 20060308
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WO2006US08705 20060308 US20120535184 20120627 US20140176801 20140210
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Probable Assignee: E RADIO USA INC

Assignee(s): (std): E RADIO USA INC ; HARVEY JOHN PAUL ; KOSKOWICH CALVIN DANIEL ; RADIO USA INC E ; WANG JACKSON KIT

Inventor(s): (std): HARVEY JOHN PAUL ; KOSKOWICH CALVIN DANIEL ; WANG JACKSON KIT

Inventor(s): JACKSON KIT WANG ; JOHN PAUL HARVEY ; CALVIN DANIEL KOSKOWICH

Agent(s): FASKEN MARTINEAU DUMOULIN LLP; JONES DAY; MORGAN LEWIS AND BOCKIUS LLP; BRETT

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 KN KP KR KZ LC 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 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

Title: SYSTEM AND METHOD FOR SERVER BASED CONTROL

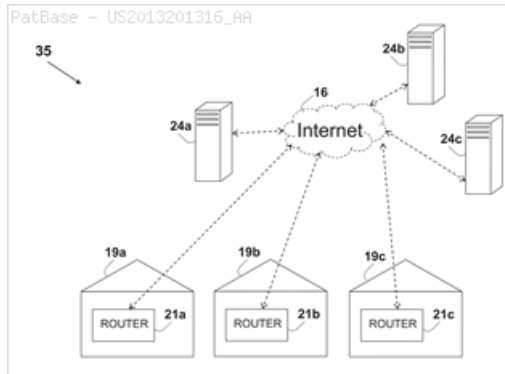
Abstract: Source: US2013201316A [EN] A system and method in a building or vehicle for an actuator operation in response to a sensor according to a control logic, the system comprising a router or a gateway communicating with a device associated with the sensor and a device associated with the actuator over in-building or in-vehicle networks, and an external Internet-connected control server associated with the control logic implementing a PID closed linear control loop and communicating with the router over external network for controlling the in-building or in-vehicle phenomenon. The sensor may be a microphone or a camera, and the system may include voice or image processing as part of the control logic. A redundancy is used by using multiple sensors or actuators, or by using multiple data paths over the building or vehicle internal or external communication. The networks may be wired or wireless, and may be BAN, PAN, LAN, WAN, or home networks.

Classifications:

International (IPC 8-9): H04L29/08 (Advanced/Invention); B60K31/00 B60K31/18 G01C21/00 G07C5/00 G08G1/00 (Advanced/Non-invention)

CPC: H04L67/12 B60K31/00 B60K31/18 B60Y2200/11 B60Y2200/12 B60Y2200/126 B60Y2200/13 B60Y2200/30 B60Y2200/40 B60Y2200/50 B60Y2200/90 G01C21/00 G06Q2240/00 G07C5/008 G08G1/00

US: 348/143 348/77 370/276 700/22 700/28 701/2 701/31.4 701/48 709/218



Family:

Publication number	Publication date	Application number	Application date
US2013201316 AA	20130808	US20130733634	20130103
US2017078400 AA	20170316	US20160361434	20161127
US2017331899 AA	20171116	US20170657163	20170723
US2018034912 AA	20180201	US20170716881	20170927

Priority:

US20120584500P 20120109	US20120620129P 20120404	US20120637030P 20120423
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US20170657163 20170723	US20170716881 20170927	

Probable Assignee:

MAY PATENTS LTD

Assignee(s): (std):

MAY PATENTS LTD

Inventor(s): (std):

BINDER YEHUDA ; MAYTAL BENJAMIN

Title: SYSTEMS AND METHODS TO ASSESS AND OPTIMIZE ENERGY USAGE FOR A FACILITY

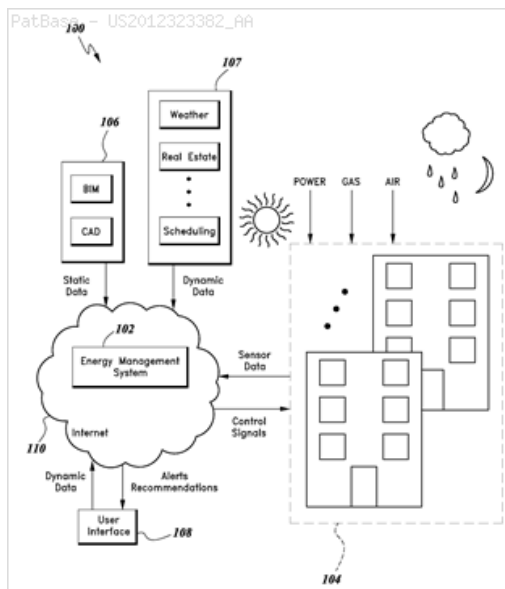
Abstract: Source: US2012323382A [EN] A system for assessing energy usage reads at least one computer-aided design (CAD) file relating to the architecture of a facility and extracts information from the CAD file for use in determining static energy characteristics corresponding to the architecture of the facility, acquires information for use in determining dynamic energy characteristics of the facility, and calculates a predicted energy usage of the facility based at least in part on the static and dynamic energy characteristics. The system further acquires data from at least one sensor configured to measure actual energy usage of the facility in real-time and calculates the actual energy usage of the facility. When the actual energy usage exceeds the predicted energy usage, the system transmits an alert to a user and determines corrective measures to reduce energy usage.

Classifications:

International (IPC 8-9): G01D21/00 G01R11/63 G01R21/00 G01R21/133 G05B15/02 G05F1/66 G06F1/32 G06F17/00 G06Q10/06 G06Q30/06 G06Q50/06 G06Q50/16 H02J13/00 (Advanced/Invention); H02J3/00 (Advanced/Non-invention)

CPC: G01R21/001 G06Q30/06 G06Q10/06312 G01R21/1333 G05B15/02 G06Q50/06 G01D21/00 G01R21/133 G05F1/66 Y02B90/244 Y04S20/327 G06Q10/06 H02J13/0006 H02J2003/007 Y02B70/3216 Y04S20/221 Y04S50/10 Y02P90/84 Y02P90/845

US: 324/103R 700/286 700/291 700/292 702/189 702/61 702/62 705/39 705/412 705/7.22



Family:

Publication number	Publication date	Application number	Application date
CA2838894 AA	20131209	CA20122838894	20120615
CA2856887 AA	20140523	CA20122856887	20121126
CN103765468 A	20140430	CN201280028893	20120615
CN104303203 A	20150121	CN201280068239	20121126
EP2721573 A2	20140423	EP20120800077	20120615
EP2721573 A4	20150311	EP20120800077	20120615
EP2786337 A1	20141008	EP20120854275	20121126
EP2786337 A4	20150826	EP20120854275	20121126
JP2014523017 T2	20140908	JP20140516018T	20120615
JP2015504567 A2	20150212	JP20140544803	20121126
JP2015504567 T2	20150212	JP20140544803T	20121126
JP6258861 B2	20180110	JP20140544803T	20121126
US2012323382 AA	20121220	US20120523719	20120614
US2013134962 AA	20130530	US20120685478	20121126
US2014214220 AA	20140731	US20140227950	20140327
US2014222231 AA	20140807	US20140248195	20140408
US2014222232 AA	20140807	US20140248209	20140408
US2014222486 AA	20140807	US20140248176	20140408
US2014222665 AA	20140807	US20140248174	20140408
US2014303935 AA	20141009	US20140308266	20140618
US2014371935 AA	20141218	US20140470790	20140827
US2014371936 AA	20141218	US20140470811	20140827
US2014379156 AA	20141225	US20140485451	20140912
US9727068 BB	20170808	US20120685478	20121126
WO12174348 A2	20121220	WO2012US42613	20120615
WO12174348 A3	20130502	WO2012US42613	20120615
WO13081978 A1	20130606	WO2012US66552	20121126

Priority:

US20110497421P	20110615	US20110564219P	20111128	US20120523719	20120614
US20120685478	20121126	US20140227950	20140327	US20140248174	20140408
WO2012US42613	20120615	US20140248195	20140408	US20140248209	20140408
US20140248176	20140408	US20140308266	20140618	US20140470790	20140827
US20140470811	20140827	US20140485451	20140912	WO2012US66552	20121126

Probable Assignee: MELROK LLC**Assignee(s):** (std): DONAHUE PAUL W ; EXPANERGY LLC ; KAMEL MICHEL ROGER ; HANNA GANATIOS Y ; MELROK LLC**Assignee(s):** EXPANERGY LLC102 - 5050 VISTA BLVD.SPARKSNV89436US ; EXCORDA LLC**Inventor(s):** (std): DONAHUE PAUL W ; HANNA GANATIOS Y ; KAMEL MICHEL ROGER ; DANKWORTH JEFFREY ALAN**Inventor(s):** KAMEL MICHEL ROGERUS ; DONAHUE PAUL WUS**Agent(s):** SIM AND MCBURNEY; AIRD AND MCBURNEY LP; F AND E PATENT; KNOBBE MARTENS OLSON AND BEAR LLP; ALTMAN DANIEL E

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

12) Family number: 44043770 (US2011066297A)

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Title: REMOTE MONITORING AND CONTROL SYSTEM COMPRISING MESH AND TIME SYNCHRONIZATION TECHNOLOGY

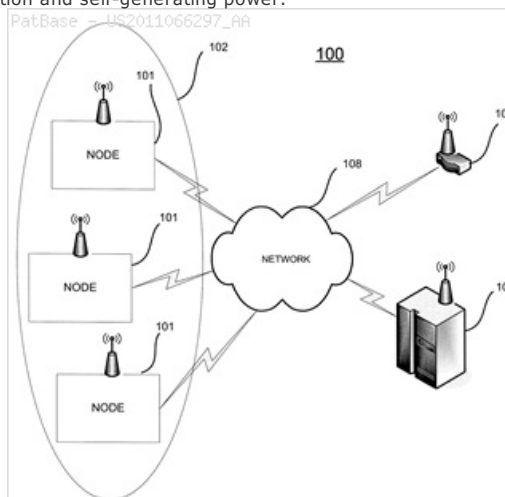
Abstract: Source: US2011066297A [EN] A remote monitoring and control system comprising synchronized wireless MESH technology for remote monitoring and control of utility grids (e.g., utility meters), commodity distribution networks, industrial equipment, and infrastructure including remote disconnection/connection and self-generating power.

Classifications:

International (IPC 8-9): F03B13/10 F16K31/02 F17D3/01 F17D3/18 G05D11/00 G05D17/00 G05D3/12 G05D5/00 G05D9/00 G06F1/26 G06F1/28 G08C15/06 G08C17/00 G08C19/20 G08C19/22 H02P9/04 H04Q9/00 (Advanced/Invention); F16K31/02 F16K31/08 H04B7/00 (Advanced/Non-invention); F16K31/02 (Core/Invention)

CPC: F16K37/0091 F16K31/046**European:** F16K31/04E F16K37/00G

US: 251/129.04 251/129.11 251/65 290/43 290/54 340/870.03 340/870.07 700/287 700/287P

**Family:**

Publication number	Publication date	Application number	Application date
CA2725065 AA	20091126	CA20092725065	20090520

US2011066297 AA	20110317	US20090993780	20090520
US8843241 BB	20140923	US20090993780	20090520
WO09143287 A1	20091126	WO2009US44730	20090520

Priority:

US20080054779P 20080520 US20080108312P 20081024 WO2009US44730 20090520
US20090993780 20090520

Probable Assignee: SABERI ALI

Assignee(s): (std): GILBERT JAMES ROBERT ; LAY KEVIN ; SABERI ALI ; LIVE METERS INC ; LIVEMETERS INC

Inventor(s): (std): GILBERT JAMES ROBERT ; LAY KEVIN ; SABERI ALI

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; DITTHAVONG AND STEINER PC; POSORSKE LAURENCE H 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 63200989 (US2016366170A)

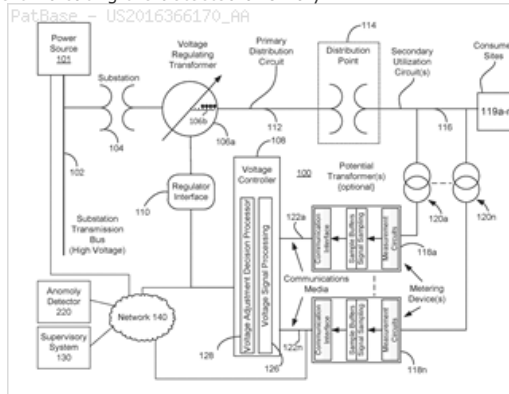
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Title: SYSTEMS AND METHODS OF DETECTING UTILITY GRID INTRUSIONS

Abstract: Source: US2016366170A [EN] Systems and methods of detecting an attack in a utility grid are described. An anomaly detector establishes a first metric generated using signals received from at least one of one or more controllers of the utility grid or one or more metering devices of the utility grid. The first metric identifies nominal behavior of control or consumption in the utility grid absent anomalies. The anomaly detector monitors signals received from the controllers or the metering devices. The anomaly detector determines, using the monitored signals, a second metric identifying current behavior of at least one of control or consumption in the utility grid. The anomaly detector compares the first metric with the second metric to detect an anomaly in control or consumption in the utility grid. The anomaly is attributable to an attack on a controller or a metering device. The anomaly detector provides an alert indicating the detected anomaly.

Classifications:

International (IPC 8-9): G01D4/00 H04L29/06 (Advanced/Invention)
CPC: Y02B90/242 Y04S20/322 Y04S20/36 H04L63/1425 H04L63/145 G01D4/004
US: 726/23



Family:

Publication number	Publication date	Application number	Application date
EP3256818 A1	20171220	EP20160705687	20160208
US2016366170 AA	20161215	US20160018596	20160208
WO16130482 A1	20160818	WO2016US17018	20160208

Priority:

US20150113726P 20150209 US20160018596 20160208 WO2016US17018 20160208

Probable Assignee: UTILIDATA INC

Assignee(s): (std): UTILIDATA INC

Inventor(s): (std): BELL DAVID GORDON

Agent(s): MURGITROYD AND CO; MCKENNA CHRISTOPHER 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 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

14) Family number: 52533522 (US2012309455A)

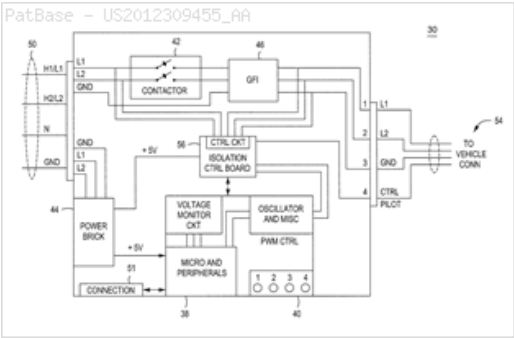
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Title: SMART PHONE CONTROL AND NOTIFICATION FOR AN ELECTRIC VEHICLE CHARGING STATION

Abstract: Source: US2012309455A [EN] A system and method for remote control of and notification by an electric vehicle supply equipment (EVSE). The system including a remote device, such as a smart phone, having a software configured to remotely control the EVSE and remotely retrieve and receive information from the EVSE. The smart phone may identify and connect to a communication network, automatically identify the EVSE, connect to the EVSE, and send the EVSE instructions for various functions of the EVSE, including charging, vehicle control, and reporting functions. The EVSE may execute the instructions received and return a confirmation to the remote device. The remote device may present the confirmation to a user.

Classifications:

International (IPC 8-9): B60L11/00 B60L11/18 B60L9/00 B60Q1/00 H04W4/00 (Advanced/Invention)
CPC: B60L11/1824 Y02T90/121 B60L11/1838 B60L11/1846 B60L2230/40 Y02T10/7005 Y02T10/7088 Y02T90/128 Y02T90/14 Y02T90/16 Y02T90/163 Y02T90/168 Y02T90/169 Y04S30/12



Family:

Publication number	Publication date	Application number	Application date
CN103930297 A	20140716	CN201280037543	20120601
CN103930297 B	20160706	CN201280037543	20120601
CN105922883 A	20160907	CN201610327301	20120601
EP2714458 A1	20140409	EP20120793766	20120601
EP2714458 A4	20160309	EP20120793766	20120601
US2012309455 AA	20121206	US20110152813	20110603
US2014159660 AA	20140612	US20140149414	20140107
US8624719 BB	20140107	US20110152813	20110603
US9024744 BB	20150505	US20140149414	20140107
WO12167082 A1	20121206	WO2012US40462	20120601

Priority:

CN201280037543 20120601 US20110152813 20110603 WO2012US40462 20120601
US20140149414 20140107

Probable Assignee: BOSCH AUTOMOTIVE SERVICE SOLUTIONS LLC

Assignee(s): (std): BOSCH AUTOMOTIVE SERVICE SOLUTIONS INC ; BOSCH AUTOMOTIVE SERVICE SOLUTIONS LLC ; KLOSE LEE ROBERT ; SERVICE SOLUTION U S LLC ; WITTLIFF III WILLIAM ; SERVICE SOLUTIONS U S LLC ; SERVICE SOLUTIONS US LLC

Assignee(s): SERVICE SOLUTION US LLC ; SPX CORP

Inventor(s): (std): WITTLIFF III WILLIAM ; KLOSE LEE ROBERT

Agent(s): NGUYEN VAN YEN CHRISTIAN; BAKER AND HOSTETLER LLP; NGUYEN PHONG D ET AL

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

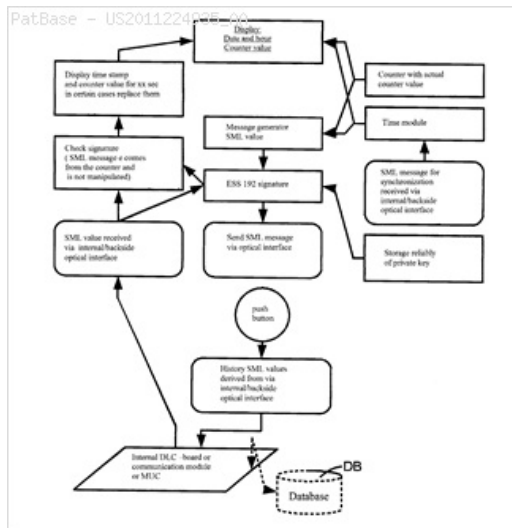
15) Family number: 45026276 (US2011224935A) © PatBase

Title: MEASUREMENT DEVICE, PARTICULARLY ENERGY COUNTER AND METHOD FOR RECOGNITION OF MANIPULATIONS

Abstract: Source: US2011224935A [EN] There are various systems designed for outputting counter data that are primarily collected under the term AMM systems today (AMM: Automatic Meter Management). Lacking in practice, however, is a consumption counter and a method for recognition of manipulations that is universally applicable, independently of other technical conditions, and that gives the customer the option for self-monitoring (consumption/leaks, etc.) locally. According to the invention, the measurement device (EZ), which communicates data to at least one system, has the capability of identifying measurement data returned by the system via the data communication as its own, and to rule out manipulation of measurement values and to thus provide this returned measurement data reliably for further processing/evaluation or display (A), comprises, among other things: at least one encryption and/or signature encoder (VSK) that supplies, using the key in the key memory (SS), the information offered to the aforementioned memories (IS, MS and ZS), including the validity and reliability identifier having information for inspecting the integrity of the data, compiles said information into a current data set and transfers it to at least the communication interface (KSS) for transfer, wherein only one part of the last data sets or their content is saved in the measurement device (EZ), and at least one encryption and/or signature decoder (VSD) that can inspect the data sets returned via the communication interface (KSS) using the key in the key memory (SS) for integrity of the data content and the identification of the measurement device (EZ) and upon successful inspection of this data. The invention falls within the field of measurement devices as well as systems for combined registration of consumption data.

Classifications:

International (IPC 8-9): G01D18/00 G01D4/00 G01D4/02
G01R11/24 G01R22/00 G06F19/00 G08C17/02 G08C19/00 H04K1/00
H04L9/32 (Advanced/Invention);
G01D4/00 H04L9/32 (Core/Invention)
CPC: H04L9/3297 G01D4/004 H04L9/3247 H04L2209/60
H04L2209/805 Y02B90/242 Y02B90/245 Y04S20/322 Y04S20/36
Y04S20/40
European: G01D4/00R1 H04L9/32S H04L9/32T Y02B90/24B2
Y04S20/32B
US: 380/255 380/255S 702/61 702/85 702/85P 705/63



Family:

Publication number	Publication date	Application number	Application date
CA2744319 AA	20100527	CA20092744319	20091118
CN102216735 A	20111012	CN200980146356	20091118
CN102216735 B	20140430	CN200980146356	20091118
DE102008058264 A1	20100708	DE200810058264	20081119
DE502009010625 D1	20150402	DE200950010625T	20091118
EP2352971 A2	20110810	EP20090801929	20091118
EP2352971 B1	20150218	EP20090801929	20091118
IN01261MN2011 A	20120106	IN2011MN01261	20110617
US2011224935 AA	20110915	US20090130088	20091118
US8949055 BB	20150203	US20090130088	20091118
WO10057631 A2	20100527	WO2009EP08225	20091118
WO10057631 A3	20110421	WO2009EP08225	20091118

Priority:

DE200810058264 20081119 EP20090801929 20091118 WO2009EP08225 20091118

Probable Assignee: IAD GES FUR INFORMATIK AUTOMATISIERUNG U DATENVERARBEITUNG MBH

Assignee(s): (std): BUMILLER GERD ; HAMPEL HERMANN ; IAD GES F INFORMATIK AUTOMATISIERUNG U DATENVERARBEITUNG MBH ; IAD GMBH ; IAD GES FUR INFORMATIK AUTOMATISIERUNG UND DATENVERARBEITUNG MBH ; IAD GES FUR INFORMATIK AUTOMATISIERUNG U DATENVERARBEITUNG MBH

Assignee(s): IAD GESELLSCHAFT FUR INFORMATIK AUTOMATISIERUNG UND DATENVERARBEITUNG MBH ; IAD GES FUR INFORMATIK AUTOMATISIERUNG U DATENVERA ; IAD GESELLSCHAFT FUER INFORMATIK AUTOMATISIERUNGUND DATENVERARBEITUNG MBH ; IAD GESELLSCHAFT FUER INFORMATIK AUTOMATISIERUNG UND DATENVERARBEITUNG MBH ; IAD GES F INFORMATIK AUTOMATISIERUNGUND DATENVERARBEITUNG MBH

Inventor(s): (std): BUMILLER GERD ; GERD BUMILLER ; HAMPEL HERMANN ; HERMANN HAMPEL

Agent(s): MILTONS IP PI; DREYKORN LINDNER WERNER DIPL ING; DREYKORN LINDNER WERNER; RANKIN HILL AND CLARK LLP

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

16) Family number: 68582058 (WO18065120A2)

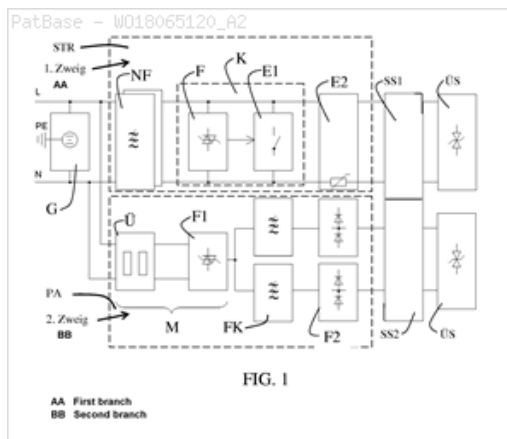
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Title: OPERATING DEVICE WITH STAGGERED PROTECTION CIRCUITS AGAINST OVERVOLTAGE AND OVERCURRENT AND ANTENNA FOR DRIVING INTELLIGENT LAMPS AND LIGHTING APPLIANCES

Abstract: In order to achieve a universal, flexible and highly integrated operating device for driving various lamps, ensuring the protection of the entire operating device and of the appliances connected thereto by means of staggered protective measures at both the input and the output, starting from the preamble of claim 1, a first branch for connecting a lamp to a first of the interface circuits (SS1) and a second branch for connecting at least one communication module to a second of the interface circuits (SS2) are connected to the coarse protection circuit (G) which short-circuits an overvoltage of the mains voltage occurring at the input of the operating device. In the first branch, a line filter (NF) is connected to the coarse protection circuit (G) and a clamp circuit (K) consisting of the fine protection circuit (F) and of a first energy absorber (E1) is connected to the line filter (NF). When the residual pulse voltage is too high, the fine protection circuit (F) activates the first energy absorber (E1), the overvoltage pulse is short-circuited and the short-circuit is deactivated again when the mains voltage reaches the next zero crossing. A second energy absorber (E2) which, when it is switched on, limits the current with the aid of a temperature-dependent resistor (NTC), is connected to the first energy absorber (E1). Moreover, the first interface circuit (SS1) comprises a protection circuit (UES) against overvoltage and overcurrent, and an intermediate protection circuit (M) consisting of a transmitter (ue) and of a first fine protection circuit (F1) is connected to the coarse protection circuit (G) in the second branch. A filter (FK) for separating communication signals fed in parallel into the power supply grid is connected to the first fine protection circuit (F) and a second fine protection circuit (F2) is connected to this filter (FK). In order to protect the second interface circuit (SS2) of the operating device from overvoltage and overcurrent coming from the communication module and acting upon the operating device, the second interface circuit (SS2) comprises a protection circuit (UES) against overvoltage and overcurrent. The invention is used in the field of protection systems against overvoltage.

Classifications:

International (IPC 8-9): H02H9/04 H02R9/04
H05B37/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
DE102016011815 B3	20180215	DE201610011815	20161005
WO18065120 A2	20180412	WO2017EP25301	20171005

Priority:

DE201610011815 20161005

Probable Assignee: IAD GES F INFORMATIK AUTOMATISIERUNG U DATENVERARBEITUNG MBH

Assignee(s): (std): IAD GES F INFORMATIK AUTOMATISIERUNG U DATENVERARBEITUNG MBH

Assignee(s): PIEGER MARKUS ; BEROLD ULRICH ; HAMPEL HERMANN

Inventor(s): (std): BEROLD ULRICH ; HAMPEL HERMANN ; HAMPEL JOHANNES ; PIEGER MARKUS

Agent(s): DREYKORN LINDNER WERNER

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

17) Family number: 66205221 (WO17109094A1)

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Title: A SYSTEM AND METHOD FOR DYNAMIC PHASE-LOAD DISTRIBUTION WHEN CHARGING ELECTRICAL VEHICLES

Abstract: The invention concerns a 3-phase charging assembly, and a method for providing such assembly, for optimal use of available electrical power when charging electrical vehicles, EV's. The charging assembly comprises a distribution cable supplying power by means of subsidiary isolated conductors for each phase (L1 in, L2 in, L3 in) and a neutral conductor (N in), at least one electric vehicle supply equipment, EVSE, each comprising internal circuitry with an input electrically connected to one or more of the subsidiary isolated conductors (L1 in, L2 in, L3 in) of said distribution cable, and an output (L1 out, L2 out, L3 out) electrically connectible to at least one EV for providing power for charging. Each EVSE comprises a plurality of primary relays (R5, R7, R9) configured to connect or disconnect electrical power provided by the conductors for each phase (L1in, L2 in, L3 in) at the input; a plurality of secondary relays (R6, R8, R10 – R16) configured in a relay matrix for enabling re-routing of each of the output conductors (L1 out, L2 out, L3 out) to any phase (L1in, L2 in, L3 in) at the input, and a control system comprising communication means, wherein the control system is configured to connect or disconnect each of said primary and secondary relays (R5 – R16) and to transmit and receive relay status information to and from the EVSE.

Classifications:

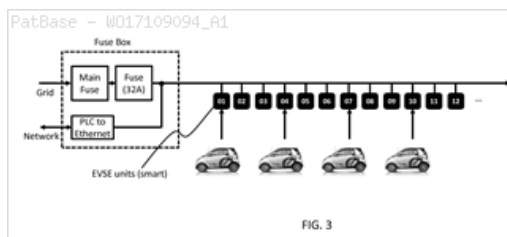
International (IPC 8-9): B60L11/18 H02J3/26

H02J7/00 (Advanced/Invention)

CPC: B60L11/1816 B60L11/1825 B60L11/1838 H02J3/26 H02J7/00

Y02T10/7005 Y02T10/7072 Y02T90/121 Y02T90/128 Y02T90/14

Y02T90/16 Y02T90/163



Family:

Publication number	Publication date	Application number	Application date
EP3184352 A1	20170628	EP20150202022	20151222
WO17109094 A1	20170629	WO2016EP82419	20161222

Priority:

EP20150202022 20151222

Probable Assignee: ZAPTEC IP AS

Assignee(s): (std): ZAPTEC IP AS

Inventor(s): (std): NAESJE KJETIL ; STOJANOVIC ZORAN ; JOHANSEN BRAGE W ; VALEN ROALD ; VALEBJORG VEGARD ; HELMIKSTOL JONAS

Inventor(s): VALEBJOERG VEGARD ; HELMIKSTOEL JONAS

Agent(s): ONSAGERS AS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW 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

