

Diego Gonzalez

Search history

Search 1: accountant and balance and energy and double near entry (Results 0)
Search 2: accountant and balance and energy (Results 5)
Search 3: double near entry (Results 1391)
Search 4: 3 and energy (Results 81)
Search 5: 4 ans spend* (Results 0)
Search 6: 4 and spend* (Results 0)
Search 7: 4 and balance (Results 6)
Search 8: accountant and energy and balance (Results 5)
Search 9: energy and balance and spend* (Results 97)
Search 10: energy and balance and spend* and active (Results 23)
Search 11: energy and balance and spend* and active and passive (Results 3)
Search 12: accounting and balance and energy (Results 141)
Search 13: accounting and balance and energy and consumption (Results 46)
Search 14: 13 and IC=(G06Q) (Results 14)

Title: SYSTEM, METHOD, AND PROGRAM PRODUCT FOR TARGETING AND OPTIMAL DRIVING FORCE DISTRIBUTION IN **ENERGY** RECOVERY SYSTEMS

Abstract: Source: US2008015839A A system, methods, and user-friendly program product to calculate global **energy** utility targets and define optimal driving force distribution for a process or cluster of processes under all possible process changes and streams specific minimum temperature approach values, simultaneously, and without enumeration, are provided. The program product can utilize stream-specific minimum temperature approach values $\Delta T_{\min}^i$, where the superscript i represents the specific hot stream, as the optimization parameters instead of the single global $\Delta T_{\min}$ currently used, in addition to identifying the optimal operating conditions. The program product can define optimal process conditions and an optimal driving force distribution in heat recovery systems, and can produce an optimal Pareto-curve that shows the rigorous trade off between **energy** cost and capital cost for any **energy** recovery system.

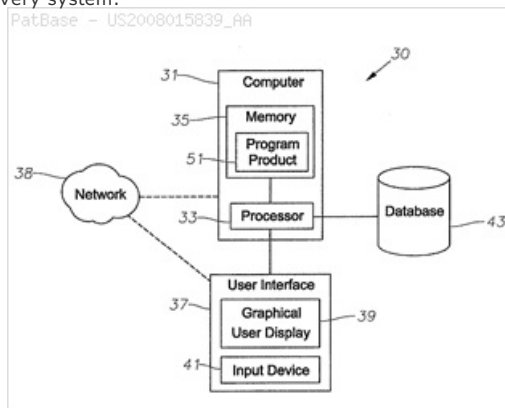
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European: F01K13/02 G05B13/02A1 G05B15/02 G05B17/02 G06F17/50C G06F17/50R G06Q10/0631 G06Q10/06312 G06Q10/06313 G06Q10/06375 G06Q10/067 S05B219/23005 S06F217/16 S06F217/80

US: 1/1 137/10 165/10 165/101 165/201 165/201S 165/203 165/279 60/206 60/266 60/267 700/276 700/278 700/287 700/288 700/291 700/291P 700/291S 700/299 700/299S 700/300 700/300P 702/47 703/1 703/18 703/18P 703/1P 703/2 703/2S 703/6 703/7 703/9 703/9P 703/9S 705/348 705/348P 705/7.12 705/7.120P 705/7.22 705/7.220P 705/7.23 705/7.230P 705/7.37 705/7.370P



Family:

Publication number	Publication date	Application number	Application date
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WO2014US33156	20140407				

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

Abstract: Source: US2010324962A A building manager includes a communications interface configured to receive information from a smart **energy** grid. The building manager further includes an integrated control layer configured to receive inputs from and to provide outputs to a plurality of building subsystems. The integrated control layer includes a plurality of control algorithm modules configured to process the inputs and to determine the outputs. The building manager further includes a fault detection and diagnostics layer configured to use statistical analysis on the inputs received from the integrated control layer to detect and diagnose faults. The building manager yet further includes a demand response layer configured to process the information received from the smart **energy** grid to determine adjustments to the plurality of control algorithms of the integrated control layer.

Classifications:

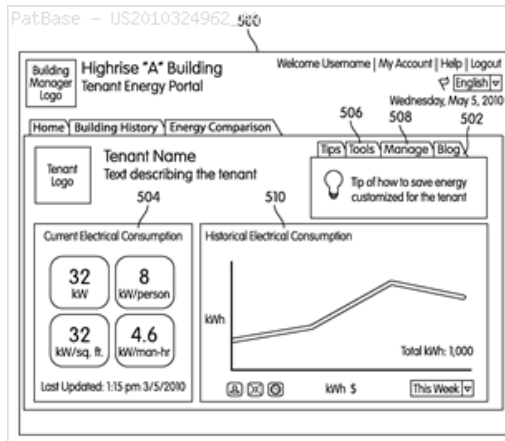
International (IPC 8-9): G01M1/38 G01R11/56 G01R21/133

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G05D1/02 G05D16/00 G05D23/00 G05D23/19 G05D3/00 G05D3/12
G05D9/00 G05F1/66 G06E1/00 G06F1/26 G06F1/32 G06F11/00
G06F11/07 G06F15/00 G06F17/00 G06F17/10 G06F17/18 G06F17/50
G06F19/00 G06F3/048 G06F7/00 G06F7/60 G06G7/48 G06N5/02
G06N5/04 G06Q10/00 G06Q10/04 G06Q10/06 G06Q30/00
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G09G5/00 H02J13/00 H04L12/28 (Advanced/Invention);
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CPC: G06F11/079 G05B23/00 H02J13/0013 Y02B90/2607 Y04S40/12

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: JOHNSON CONTROLS TECHNOLOGY CO

Assignee(s): (std): WENZEL MICHAEL J ; KUMMER JAMES P ; NESLER CLAY G ; RUIZ JOHN I ; SUPPLE DEREK ; RODE PAUL HARRISON ; WENZEL MICHAEL ; NOBOA HOMERO L ; ANDRACA MARC D ; BOETTCHER ANDREW J ; DREES KIRK H ; JOHNSON CONTROLS TECH CO

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

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Agent(s): FOLEY AND LARDNER LLP; GUNDERSEN JEFFREY 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 CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SYSTEM AND METHOD FOR ENABLING THE REAL TIME BUYING AND SELLING OF ELECTRICITY GENERATED BY FUEL CELL POWERED VEHICLES

Abstract: Source: US2002132144A The present invention relates to a network communication system and method to enable the real time buying and selling of electricity generated by fuel cell powered vehicles between a fuel cell powered vehicle and a consumer. The method comprises: providing connections to the vehicle for the supply of a fuel and for transfer of electricity; determining the current cost of fuel and price paid for generating electricity; based at least on the cost of fuel and price paid for generating electricity, determining whether to make the fuel cell powered vehicle available for generation of electricity; when fuel is consumed by the vehicle and electricity generated by the vehicle, collecting data on the quantity of fuel consumed and amount of electricity generated, calculating the cost of the fuel and the value of the electricity generated, providing a debit charge for the cost of fuel consumed and a credit charge for the value of electricity generated. A method to enable the real time buying and selling of electricity generated by fuel cell powered vehicles between an **energy** service provider and a consumer of electricity is also disclosed.

Classifications:

International (IPC 8-9): B60L11/18 G06Q10/08 G06Q30/06 G06Q50/00 G06Q50/06 H01M8/00 H01M8/04 H02J3/00 H02J3/38 (Advanced/Invention);

G06Q50/00 (Advanced/Non-invention);

B60L11/18 G06Q50/00 H01M8/00 H01M8/04 H02J3/00

H02J3/38 (Core/Invention)

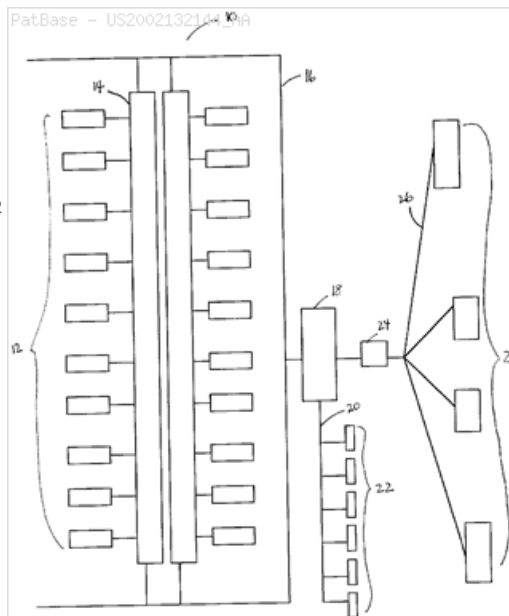
International (IPC 1-7): B60L011/18 B60L11/18 G06F17/60

H01M8/00 H01M8/04

CPC: Y04S50/10 Y02E60/721 Y04S10/126 B60L11/1816 B60L11/1842 Y02T90/121 B60L15/2045 B60L11/184 B60L11/1846 B60L11/1848 B60L11/1887 B60L11/1892 B60L2210/20 B60L2240/70 G06Q10/087 G06Q50/06 H02J3/008 H02J2001/004 Y02T10/725 Y02T10/7283 Y02T10/7291 Y02T90/127 Y02T90/128 Y02T90/14 Y02T90/16 Y02T90/163 Y02T90/169 Y02T90/34 Y04S30/14 Y04S10/56 Y04S50/00 B60L2200/26 G07F15/008 Y02T10/645 Y02T10/7072 G06Q30/06

European: B60L11/18L4 B60L11/18L7 B60L11/18L7J B60L11/18L7J10 B60L11/18L7J2 B60L11/18L7J4 B60L11/18L7J8 B60L11/18R4 B60L11/18R8D B60L15/20E G06Q10/087 G06Q30/06 G06Q50/06 H02J3/00T L60L210/20 L60L240/70 T02J1/00F Y02E60/72B Y02T10/70J4 Y02T10/72B6 Y02T10/72D6 Y02T10/72D8 Y02T90/12B Y02T90/12J Y02T90/12L Y02T90/14 Y02T90/16 Y02T90/16D Y02T90/16F4 Y02T90/34 Y04S10/12D Y04S30/14

US: 180/65.3 180/65.31 180/65.310S 180/653 429/12 429/13 429/443 429/443P 429/513 429/513P 705/28 705/412



Family:

Publication number	Publication date	Application number	Application date
AU2002242515 AA	20021003	AU20020242515	20020307
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AU2005200813 AA	20050317	AU20050200813	20050223
AU2005200813 AB	20050623	AU20050200813	20050223
CA2438128 AA	20020926	CA20022438128	20020307
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CN1635962 A	20050706	CN20028006466	20020307
EP1370439 A2	20031217	EP20020708059	20020307
IN04027DN2004 A	20070406	IN2004DN04027	20041217
JP2004526245 T2	20040826	JP20020573256T	20020307
JP2007020397 A2	20070125	JP20060210430	20060802
KR20030081478 A	20031017	KR20037011437	20020307
MXPA03008155 A1	20040316	MX2003PA08155	20020307
NZ528673 A	20050128	NZ20020528673	20020307
NZ534615 A	20050429	NZ20020534615	20020307
US2002132144 AA	20020919	US20010808042	20010315
US2004110044 AA	20040610	US20030725546	20031203
US6673479 BB	20040106	US20010808042	20010315
US7141321 BB	20061128	US20030725546	20031203
WO02074573 A2	20020926	WO2002CA00316	20020307
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Priority:

AU20020242515 20020307 AU20050200813 20050223 US20010808042 20010315
WO2002CA00316 20020307 US20030725546 20031203

Probable Assignee: 7188501 CANADA INC

Assignee(s): (std): HARDWICK AARON ; HYDROGENICS CORP ; MCARTHUR GRANT

Assignee(s): 7188501 CANADA INC ; HYDROGENICS CORPORATOIN

Inventor(s): (std): HARDWICK AARON ; MCARTHUR GRANT ; GRANT MCARTHUR ; AARON HARDWICK

Agent(s): GRIFFITH HACK; BERESKIN AND PARR LLP; BERESKIN AND PARR

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 LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: METHODS AND APPARATUSES FOR POINT OF USE **CONSUMPTION** OF RENEWABLE **ENERGY** CREDITS

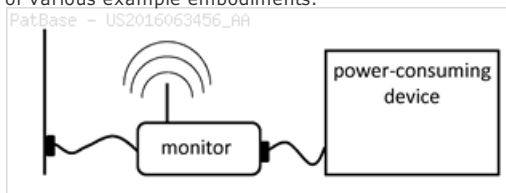
Abstract: Source: US2016063456A The present invention provides methods and apparatuses that can establish a correspondence between individual **energy consumption** and renewable **energy** resources. The invention can be described as comprising two elements combined into an independently verifiable system: (1) a suitably accurate means of tracking or otherwise determining the power **consumption** of a device or devices of interest; and (2) a third-party auditable, renewable **energy** credit tracking system that matches (whole or fractional) renewable **energy** credits to the power consumed by the device or devices. The inventions are described herein in the context of various example embodiments.

Classifications:

International (IPC 8-9): G06Q20/06 G06Q20/20 G06Q30/00
G06Q50/06 (Advanced/Invention)

CPC: H02J2003/003 Y04S10/54 G06Q20/06 G06Q20/208
G06Q30/018 H02J3/382

US: 705/23



Family:

Publication number	Publication date	Application number	Application date
US2016063456 AA	20160303	US20140782321	20140311
WO14164872 A1	20141009	WO2014US23674	20140311

Priority:

US20130778384P 20130312 US20140782321 20140311 WO2014US23674 20140311

Probable Assignee: DROEGE PAUL W

Assignee(s): (std): DROEGE PAUL W

Inventor(s): (std): DROEGE PAUL W

Agent(s): GRAFE V GERALD

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: MONITORING AND EVALUATING THE PRODUCTION OF A CONVERSION FACILITY

Abstract: Source: US2012029966A The disclosure provides a system and method for monitoring and evaluating a conversion facility. The method includes storing values for quantitative variables and/or cost variables associated with processes performed at the conversion facility. The method includes receiving a syncing frame, wherein the syncing frame embraces values for the quantitative variables and/or the cost variables stored less than thirty days prior to receiving the syncing time frame. The method includes determining, from the stored values for at least one set of values for at least one of the variables that are within the syncing frame. The method also includes calculating a cost of processing a commodity processed at the conversion facility for the syncing frame using the first and second set of values.

Classifications:

International (IPC 8-9): G05B23/00 G06F17/30 G06Q10/00

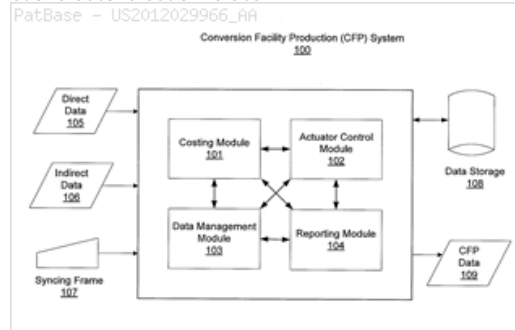
G06Q10/06 G06Q50/00 (Advanced/Invention)

International (IPC 1-7): G06Q10/00

CPC: Y02P90/30 G06Q50/04 G06Q10/06315 Y02P90/86

European: G06Q10/06315 G06Q50/04

US: 705/7.25 705/7.250P

**Family:**

Publication number	Publication date	Application number	Application date
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CA2747259 AA	20120130	CA20112747259	20110725
CN102376033 A	20120314	CN201110223694	20110801
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EP2413281 A1	20120201	EP20110006178	20110727
IN02563CH2011 A	20121012	IN2011CH02563	20110726
TH114596 A	20120622	TH20111001342	20110729
US2012029966 AA	20120202	US20100847420	20100730

Priority:

AU20110205033 20110727 AU20130224759 20130909 US20100847420 20100730
CA20112747259 20110725

Probable Assignee: ACCENTURE GLOBAL SERVICES LTD

Assignee(s): (std): ACCENTURE GLOBAL SERVICES LTD ; BUDIARSO ; CHEEWAKRIENGKRAI ARINEE ; JUGANDA ENKGUN WAHJUDI ; ACCENTURE GLOBAL SERVICES GMBH

Assignee(s): ACCENTURE GLOBAL SERVICES LIMITED

Inventor(s): (std): ARINEE CHEEWAKRIENGKRAI ; BUDIARSO ; BUDIARSO KEMANG ; BUDIARSO MR ; CHEEWAKRIENGKRAI ARINEE ; JUGANDA ENKGUN WAHJUDI ; WAHJUDI JUGANDA ENKGUN

Inventor(s): ENKGUN WAHJUDI JUGANDA

Agent(s): LESICAR MURRAY TRENTO; LESICAR MAYNARD ANDREWS PTY LTD; MURRAY TRENTO AND ASSOCIATES; MURRAY TRENTO AND ASSOCIATES PTY LTD; SMART AND BIGGAR; MUELLER BORE AND PARTNER PATENTANWAELE

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: ELECTRONIC TRAVEL PASS

Abstract: Source: US2002019807A An electronic value storage device and system which can be used for making valid payment of fares or purchases of services and goods, in which a transaction terminal detects a deficiency in stored value in the device upon presentation for a purchase, and automatically increases the stored value amount by debiting a credit **account** of the user. Different PIN numbers may be provided for different functions of the device, such as credit updating and transfer of credit from a protected credit **account** to a cash value storage medium on the device.

Classifications:

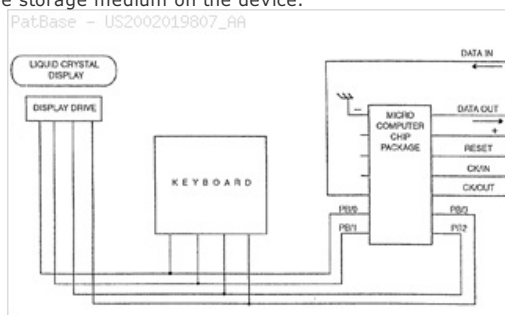
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G07B15/02 G07C9/00 G07F19/00 G07F7/02 G07F7/08 G07F7/10
G08C17/04 H02J17/00 H04B5/00 H04L29/14
H04M1/675 (Advanced/Invention)

International (IPC 1-7): G06F17/60 G06K19/07 G06K19/10
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H04L7/10 H04M1/02

CPC: G07F7/08 G06K7/0008 G06K7/10316 G06K7/10326
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European: G06K19/077 G06K19/077A2 G06K19/07T G06K7/00E G06K7/10A8 G06K7/10A8A G06Q20/04 G06Q20/0652
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G07F7/08A4 G07F7/08C G07F7/08G2P G07F7/10D H04M1/675

US: 235/380 380/49 705/39 705/39P 705/4 705/40 705/40S 705/65 714/798 714/812



Family:

Publication number	Publication date	Application number	Application date
AU199223318 A1	19930223	AU19920023318	19920716
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Priority:

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US19940182097	19940713				

Probable Assignee: PASS TECHNOLOGIES INC

Assignee(s): (std): COUSINS STEVEN H ; COUSINS STEVEN HOLWAY ; HALPERN ; HALPERN JOHN W ; WARD WILLIAM ; HALPERN JOHN WOLFGANG ; WILLIAM WARD ; JOHN WOLFGANG HALPERN ; WARD

Assignee(s): JOHN W HALPERN ; HALPERN JOHN WOLFGANG LONDON GB ; WARD WILLIAM LONDON GB ; STEVEN HOLWAY COUSINS ; PASS TECHNOLOGIES INC

Inventor(s): (std): HALPERN JOHN W ; JOHN W HALPERN ; JOHN WOLFGANG HALPERN ; HALPERN JOHN WOLFGANG ; COUSINS STEVEN HOLWAY DR ; COUSINS STEVEN HOLWAY

Inventor(s): COUSINS STEVEN HOLWAY DR BLETCHLEY GB ; HALPERN JOHN WOLFGANG HOVE EAST SUSSEX GB ; STEVEN HOLWAY COUSINS

Agent(s): PASS TECHNOLOGY; SHAPIRO COHEN

Designated states: AT AU CA CH DE ES GB HU JP NL NO RU SE US

Title: METHODS AND APPARATUSES FOR FACILITATING DISTRIBUTED OWNERSHIP AND MANAGEMENT OF RENEWABLE **ENERGY** RESOURCES

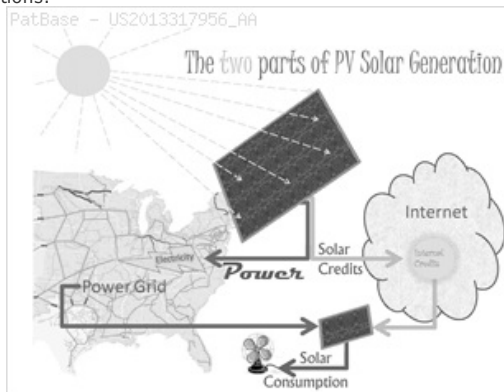
Abstract: Source: US2013317956A Methods and apparatuses can provide for easier access to renewable **energy** resources such as solar through distributed ownership and/or management. The invention can be implemented using computers, for example using one or more computers connected by a network such as the world wide web. Various computer and communication techniques can be used, including as examples desktop computers, servers, smart phones, tablet computers, wired computer networks such as Ethernet, wireless networks such as WiFi, and cellular and satellite communications networks. Embodiments of the present invention can use centrally sited systems, that can be built similarly to large commercial or utility scale systems with their attendant economies of scale. Individual owners can be true owners of specific individual assets, even if ownership is under tightly constrained conditions.

Classifications:

International (IPC 8-9): G06Q40/00 (Advanced/Invention)

CPC: G06Q50/06 G06Q40/12 G06Q40/10

US: 705/30



Family:

Publication number	Publication date	Application number	Application date
US2013317956 AA	20131128	US20130898468	20130521

Priority:

US20120650323P 20120522 US20130898468 20130521

Probable Assignee: DROEGE PAUL W

Assignee(s): (std): DROEGE PAUL W ; HICKS DONALD F

Inventor(s): (std): DROEGE PAUL W ; HICKS DONALD F

Title: SYSTEM FOR IDENTIFYING SUSTAINABLE GEOGRAPHICAL AREAS BY REMOTE SENSING TECHNIQUES AND METHOD THEREOF

Abstract: Source: US2012288163A Particularly applicable to the implementation of sustainability requirements concerning on the promotion of the use of bioproduct from renewable sources, through the system and method described is possible to ensure that the origin of raw materials is sustainable (according to a previously defined sustainability requirements), avoiding travel to the area of interest, thus saving time and economic costs and preventing errors and fraud. More specifically, the system and method object of the invention are particularly applicable for identifying those areas that comply with said sustainability requirements. Said sustainability requirements state that raw material intended for bioproduct shall not be made from lands with a high biodiversity, high carbon stock or peatlands, and bearing in mind additionally the land use requirement.

Classifications:

International (IPC 8-9): G01N1/26 G06F17/00 G06F19/00 G06K9/00 G06K9/46 G06Q10/00 G06Q10/10 G06Q50/04 (Advanced/Invention); H04N7/10 (Advanced/Non-invention)

CPC: G06F17/30241 G06K9/0063 G06F19/00 G06Q10/00 G06F17/00 G01N1/26 G06Q10/10 Y02P90/84 G01N35/00871 G06Q50/04 G06Q50/06 G06Q10/06 Y02P90/30 Y02P90/845 Y02A90/16

European: G01N35/00G3L G06Q10/10 S01N1/26

US: 382/113 702/2 702/24 725/35



Family:

Publication number	Publication date	Application number	Application date
ES2424770 AB	20131008	ES20110032027	20111215
ES2424770 BA	20150121	ES20110032027	20111215
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US2012290205 AA	20121115	US20110165897	20110622
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Priority:

EP20110382133 20110509 EP20110382134 20110509 EP20110382136 20110509
EP20110382135 20110509

Probable Assignee: ABENGOA BIOENERGIA NUEVA TECNOLOGIAS SA

Assignee(s): (std): ARJONA ANTOLIN RICARDO ; BARBERENA IBANEZ GOIZEDER ; DIAZ MOLIST RAQUEL ; PINUELA MACARENA MARQUEZ ; MARTINEZ BEATRIZ ALONSO ; ENCINAS ROCIO GARCIA ; MONTERO MARIA ANGELES GUTIERREZ ; LOPEZ LOPEZ JESUS ; GARCIA MARTA VAZQUEZ ; GARCIA LAURA MONTES ; MOLIST RAQUEL DIAZ ; LOPEZ JESUS LOPEZ ; GARCIA ENCINAS ROCIO ; ECHEVERRIA GONI INES ; GUTIERREZ MONTERO MARIA ANGELES ; MARQUEZ PINUELA MACARENA ; MONTES GARCIA LAURA ; OTAZU VIDART EDUARDO ; MARQUEZ PINUELA MACARENA ; ROMERO MARIA DE LAS NIEVES VALENZUELA ; VIDAL JESUS YANEZ ; PINUELA MACARENA MARQUEZ ; VALENZUELA ROMERO MARIA DE LAS NIEVES ; YANEZ VIDAL JESUS ; SANCHEZ GONZALEZ DAVID ; ABENGOA BIOENERGIA NUEVAS TECNOLOGIAS S A ; ABENGOA BIOENERGIA NUEVAS TECNOLOGIAS SA ; ABENGOA BIOENERGIA NUEVAS TECNOLOGIAS S A ; ANTOLIN RICARDO ARJONA ; ALONSO MARTINEZ BEATRIZ ; ABENGOA BIOENERGIA NUEVA TECNOLOGIAS S A

Assignee(s): ABENGOA BIOENERGIA NUEVA TECNOLOGIAS SA ; ABENGOA BIOENERGIA NUEVA TECNOLOGIAS SA ; ABENGOA BIOENERGIA NUEVAS TECNOLOGIAS SA

Inventor(s): (std): ALONSO MARTINEZ BEATRIZ ; ANTOLIN RICARDO ARJONA ; ARJONA ANTOLIN RICARDO ; BARBERENA IBANEZ GOIZEDER ; DIAZ MOLIST RAQUEL ; ECHEVERRIA GONI INES ; ECHEVERRIA GONI INES ; ENCINAS ROCIO GARCIA ; GARCIA ENCINAS ROCIO ; GARCIA LAURA MONTES ; GARCIA MARTA

VAZQUEZ ; GUTIERREZ MONTERO MARIA ANGELES ; MARTINEZ BEATRIZ ALONSO ; MOLIST RAQUEL DIAZ ; MONTERO MARIA ANGELES GUTIERREZ ; MONTES GARCIA LAURA ; OTAZU VIDART EDUARDO ; PINUELA MACARENA MARQUEZ ; PINUELA MARCARENA MARQUEZ ; LOPEZ JESUS LOPEZ ; LOPEZ LOPEZ JESUS ; ROMERO MARIA DE LAS NIEVES VALENZUELA ; SANCHEZ GONZALEZ DAVID ; VALENZUELA ROMERO MARIA DE LA NIEVES ; VALENZUELA ROMERO MARIA DE LAS NIEVES ; VAZQUEZ GARCIA MARTA ; VIDAL JESUS YANEZ ; YANEZ VIDAL JESUS ; MARQUEZ PINUELA MACARENA ; MARQUEZ PINUELA MARCARENA

Inventor(s):

MARTA VAZQUEZ GARCIA ; MACARENA MARQUEZ PINUELA ; MARIA ANGELES GUTIERREZ MONTERO ; MARIA DE LA NIEVES VALENZUELA ROMERO ; MARIA DE LAS NIEVES VALENZUELA ROMERO ; RAQUEL DIAZ MOLIST ; RICARDO ARJONA ANTOLIN ; ROCIO GARCIA ENCINAS ; INES ECHEVARRIA GONI ; INES ECHEVERRIA GONI ; JESUS LOPEZ LOPEZ ; JESUS YANEZ VIDAL ; LAURA MONTES GARCIA ; GOIZEDER BARBERENA IBANEZ ; EDUARDO OTAZU VIDART ; BEATRIZ ALONSO MARTINEZ ; DAVID SANCHEZ GONZALEZ

Agent(s):

PONS ANGEL; GARDNER GROFF GREENWALD AND VILLANUEVA P C; GARDNER GROFF GREENWALD AND VILLANUEVA PC

Title: ONLINE TRADING AND DYNAMIC ROUTING OF ELECTRIC POWER AMONG ELECTRIC SERVICE PROVIDERS

Abstract: Source: US2002046155A A method and system for trading electric power on a spot market and dynamically matches bids and asks and routes the electric power in accordance with the matches to effect the settled trades. A control node is arranged for receiving bids and asks via a wide area network. The control node is also connected to a transmission system and a central control of the transmission system to dynamically switch the transmission system to effect the matched bids and asks.

Classifications:

International (IPC 8-9): B60L11/18 B60L7/12 B60L8/00 G05B15/02 G05D11/00 G06Q10/06 G06Q40/00 G06Q40/04 G06Q50/00 G06Q50/06 H02J3/00 H02J7/00 H02J7/02 H02J7/04

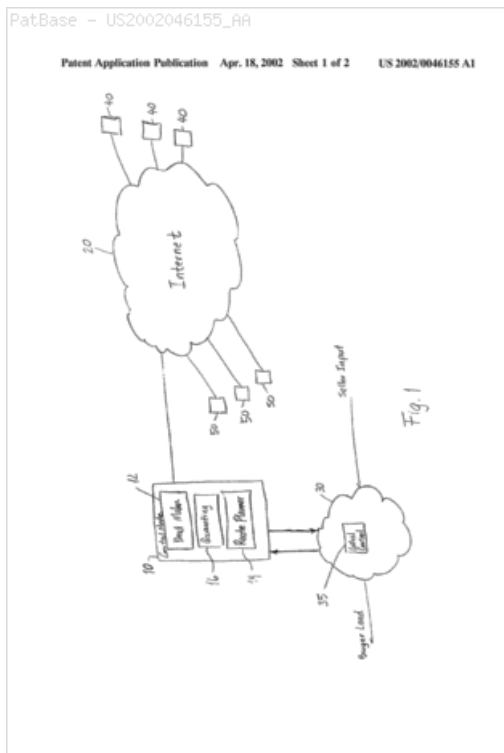
H02J7/14 (Advanced/Invention);
B60L11/18 H02J5/00 (Advanced/Non-invention);
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International (IPC 1-7): G05D11/00 G06F17/60

CPC: G06Q40/00 G06Q40/06 B60L11/185 B60L11/1838 B60L11/1831 H02J5/005 H02J7/0027 H02J7/025 Y02T90/12 Y02T90/125 B60L11/1846 B60L2230/22 B60L2230/24 B60L2230/30 B60L2230/32 Y02E60/721 Y02T10/7005 Y02T10/7088 Y02T90/121 Y02T90/122 Y02T90/128 Y02T90/14 Y02T90/169 Y04S10/126 Y04S30/14 Y02T10/7072 G06Q10/06313 G06Q50/06 G06Q40/04 B60L11/1801 B60L11/1864 B60L11/1848 B60L8/003 B60L7/12 B60L11/1861 B60L2200/10 Y02T10/7094 B60L11/1842 G05B15/02 H02J3/00 H02J50/12 H02J50/40 H02J50/90 B60L11/182

European: B60L11/18L5 B60L11/18L7C2B G06F17/60B4 G06Q40/00 G06Q40/04 G06Q40/06 G06Q50/06 Y02T10/70B Y02T10/70J4 Y02T90/12 Y02T90/12D Y02T90/12H Y02T90/14

US: 1/1 307/104 320/107 320/108 320/108P 320/109 320/137 705/35 705/36.00R 705/36R 705/37 705/37P 705/7.23

**Family:**

Publication number	Publication date	Application number	Application date
EP2195716 A1	20100616	EP20080833499	20080926
IN01735CN2010 A	20100820	IN2010CN01735	20100326
US2002046155 AA	20020418	US20010939917	20010827
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US2015035484 AA	20150205	US20140512413	20141011
US2015328998 AA	20151119	US20150808908	20150724
US2016005118 AA	20160107	US20150677714	20150402
US2016247240 AA	20160825	US20160019546	20160209
US2017136899 AA	20170518	US20160391434	20161227
US2017243304 AA	20170824	US20170430590	20170213
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Priority:

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US20070998064P	20071005	US20070015023P	20071219	US20070967819P	20070907
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US20100679060	20100319	US20130798240P	20130315	US20140512411	20141011
US20140512413	20141011	US20080091460P	20080825	WO2008US11204	20080926
US20150808908	20150724	US20150677714	20150402	US20160019546	20160209
US20160391434	20161227	US20170430590	20170213	US20170729312	20171010

Probable Assignee: GRID INNOVATIONS LLC

Assignee(s): (std): ENG CHI K ; CHI ENG K ; GOVERNING DYNAMICS INVEST LLC ; GOVERNING DYNAMICS LLC ; MASHINSKY ALEX ; MASHINSKY DAVID ; MASHINSKY RENA ; GOVERNING DYNAMICS INVESTMENT LLC ; GRID INNOVATIONS LLC ; MASHINSKY DAVID ; AIP ACQUISITION LLC ; PARADIGM SHIFTING SOLUTIONS

Assignee(s): PARADIGM SHIFTING SOLUTIONS LLC ; ARBINET THEXCHANGE INC ; ORIX USA CORP

Inventor(s): (std): MASHINSKY DAVID ; MASHINSKY RENA ; MASHINSKY DAVID ; MASHINSKY ALEX ; ENG CHI K ; CHI ENG K

Agent(s): LLOYD PATRICK ALEXANDER DESMOND; COHEN PONTANI LIEBERMAN AND PAVANE LLP; CHI; THOMAS J; EDWARD F; BARNES AND THORNBURG LLP; DILWORTH PAXSON LLP; WEISZ EDWARD M

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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METODO PARA UTILIZAR SISTEMAS CONTABLES QUE REGISTRAN HECHOS ECONOMICOS; EN EL REGISTRO Y ANALISIS DE PROCESOS ENERGETICOS DE UNA INSTALACION METHOD OF **ACCOUNTING** SYSTEMS USING ECONOMIC EVENTS RECORDED; IN THE REGISTRATION PROCESS AND ANALYSIS OF **ENERGY** FACILITY (Machine translation)

Abstract: Source: CO7170015A Con la metodologia de la invencion, se le otorga a los consumos de energia el mismo tratamiento de una transaccion economica dentro de un ordenamiento contable; Asi los registros de energia que se realicen de manera manual o automatica, pueden usar sistemas contables economicos de manera indistinta, y dependiendo de lo complejo de las transacciones energeticas, y el analisis que se requiera, estos sistemas pueden ser sencillos o con un gran poder de computo, como las herramientas modernas ERP - Enterprise Resource Planning -. El proposito se concentra en estructurar un sistema de informacion, que registre los flujos de energia con sus efectos y causas de manera simultanea, utilizando en ello la doble partida, y de esta forma se deje un rastro de todas las variables energeticas que intervienen en una transaccion energetica. El metodo aborda esto identifica y define conceptualmente, cuales son los atributos a tener en cuenta en el sistema contable para emplearse en estos propositos, estableciendo las similitudes exactas o forzandolas entre una interaccion economica y una energetica. La metodologia de la invencion se complementa articulandose a un metodo que le otorga un codigo a las cuentas que intervienen y define una arquitectura ordenada que la llamamos plan de cuentas energetico, donde se asocian las interdependencias reales existentes entre los flujos de energia, y asociarlos si se requiere a las areas que conforman el proceso ya sea por centros de costos, lineas de produccion, productos terminados u otro, similar a la forma en que se estructuran los planes de cuentas en sistemas contables economicos. Como se sabe la contabilidad por siglos es considerada una ciencia, disciplina o tecnica cuya vocacion es servir al registro, analisis y estudio de aspectos economicos, mediante la entrega sistematica y estructurada de informacion cuantitativa y cualitativa valiosa. Sin embargo, y es lo innovador del metodo de la invencion, que ensancha el ambito de aplicacion contable al campo energetico, de esta forma la informacion que resulta de esto, usada por cualquier organizacion le permite al momento de la toma de decisiones, usar eficientemente los recursos energeticos de que dispone, y culturalmente dado que maneja un lenguaje similar a los aspectos economicos, las personas que toman decisiones financieras dentro de las organizaciones, estaran familiarizados con esta metodologia y conoceran las repercusiones energeticas tienen las decisiones economicas que tomen. With the methodology of the invention, are given to the **consumption** of **energy** the same treatment of an economic transaction within an **accounting** system; So **energy** records that are made manually or automatic manner, economic **accounting** systems may be used interchangeably, depending on the complexity of the energetic transactions, and analysis as required, these systems can be simple or great power computing, as modern tools ERP - Enterprise Resource Planning -. The purpose focuses on structuring an information system that records the flow of **energy** and its effects and causes simultaneously, using it's twice, and thus a trace of all energetic variables involved in a Do energetic transaction. The method addresses this identifies and defines conceptually, what are the attributes to be considered in the **accounting** system to be used for these purposes, establishing the exact or forcing similarities between economic interaction and energetic. The methodology of the invention is complemented articulating a method that gives you a code to **accounts** involved and defines an orderly architecture we call energetic plan **accounts**, where existing real interdependencies associated **energy** flows, and associate if the areas involved in the process either by cost centers, production lines, or other finished products, similar to the way the charts of **accounts** in economic **accounting** systems are structured is required. As **accounting** is known for centuries is considered a science, discipline or technique whose vocation is to serve the recording, analysis and study of economic aspects, by delivering systematic and structured quantitative and qualitative information valuable. However, it is the innovative method of the invention, which widens the field of **accounting** application to the **energy** field, thus the information resulting from this, used by any organization allows the time of decision making, efficiently use **energy** resources available and culturally as handles similar to the economics language, people taking financial decisions within organizations, they will be familiar with this methodology and energetic impacts have conoceran that economic decisions they make.

Classifications:

International (IPC 8-9): G06Q50/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO7170015 A1	20150128	CO20130171559	20130719

Priority:

CO20130171559 20130719

Probable Assignee: NEGAWATT S A S

Assignee(s): (std): NEGAWATT S A S

Assignee(s): NEGAWATT SAS

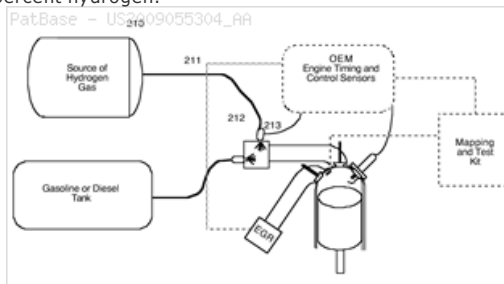
Inventor(s): (std): LINERO LOPEZ DEMESA RAFAEL DE JESUS ; LINERO LOPEZDEMESA JAIRO LUIS

Inventor(s): RAFAEL DE JESUS LINERO LOPEZ DEMESA ; JAIRO LUIS LINERO LOPEZDEMESA

Agent(s): HELENA CAMARGO WILLIAMSON

Title: SYSTEM AND METHOD FOR DETERMINING AND BROKERING FUEL EMISSION OFFSETS

Abstract: Source: US2009055304A A brokering system and method for providing an incentive for use of more efficient internal combustion engines and hydrogen retrofit kits is disclosed. End users of retrofitted vehicles are provided with discounted fuel costs at authorized fueling stations. The vehicle owner's savings include: a) a reduction in fueling charges because of the vehicle's new reliance on 30 percent less fossil fuel (which is displaced by hydrogen in the engine), and b) by the purchase of methanol which can be set at a lower cost per calorific equivalent than a barrel of oil while also earning emission offsets to be sold for cash to the end users/creators of carbon credits. In this manner, retrofitted existing internal combustion engines linked to a trust for trading emission offsets will create a consumer-driven hydrogen economy which governments as well as the automotive and petroleum sectors will endorse. Hydrogen, which is substituted for fossil fuel in a retrofitted IC engine result in emission offsets (i.e., the quantum of emissions that are no longer there) which are converted by a regulated emissions trust into cash. This income, which is deposited into the vehicle owner's bank **account** via the telephone network by using a dedicated hydrogen fueling card and master engine sensor linked to a specific vehicle provided with an engine retrofit kit and an on board source of hydrogen gas. The present method provides a mapping and test kit that relies on OEM engine timing and control sensors to compare engine emissions produced by fossil fuel with emissions eliminated by substituting hydrogen. This method creates consumer demand for cleanly produced sources of hydrogen (beginning with green methanol) to fuel existing OEM engines, which will in turn, induce automobile manufacturers to build more efficient IC engines until, finally, they will all be fueled by 100 percent hydrogen.

Classifications:**International (IPC 8-9):** G06Q40/00 G06Q50/00 (Advanced/Invention)**CPC:** G06Q40/00 G06Q40/04**European:** G06Q40/00 G06Q40/04**US:** 705/308 705/35 705/35S 705/37 705/37P**Family:**

Publication number	Publication date	Application number	Application date
CA2659054 AA	20080825	CA20072659054	20070223
US2009055304 AA	20090226	US20080196904	20080822
US8682759 BB	20140325	US20080196904	20080822
WO07095742 A1	20070830	WO2007CA00274	20070223

Priority:

US20060777706P 20060227 US20080196904 20080822 WO2007CA00274 20070223

Probable Assignee: LANGE DAVID**Assignee(s):** (std): LANGE DAVID ; LANGE DAVID H**Inventor(s):** (std): LANGE DAVID H ; LANGE DAVID**Agent(s):** FORTIN JEAN PIERRE; ANDERSON GORECKI AND MANARAS LLP ATTN JOHN C GORECKI; ANDERSON GORECKI AND ROUILLE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR 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 TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: USE OF DEMAND RESPONSE (DR) AND DISTRIBUTED **ENERGY** RESOURCES (DER) TO MITIGATE THE IMPACT OF VARIABLE **ENERGY** RESOURCES (VER) IN POWER SYSTEM OPERATION

Abstract: Source: US2014277808A A system and process/method of modeling demand-response (DR) and distributed-**energy** resource (DER) assets is provided, facilitating the aggregation of said assets in virtual power plants (VPPs), and using VPPs to provide **energy** balancing services needed to minimize the impact of Variable **Energy** Resources (VER) on power system. The method accurately **accounts** for assets by qualifying assets based on various parameters and by forecasting the capabilities of the resulting VPPs for provision of balancing services. Asset performance factors that may affect the aggregated VPP's capabilities are monitored and recalculated when necessary. Near-term forecasted VPP capability is compared to near-term forecasted imbalances in the electric-power-supply system, and the VPP is dispatched to minimize the system imbalances. The dispatch signal is disaggregated to control commands to individual assets. This process provides a reliable and cost effective approach to support higher penetrations of renewable generation in the electric power system.

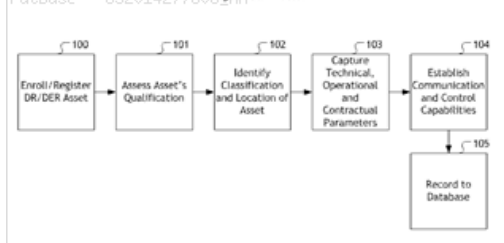
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International (IPC 8-9): G05B15/02 G05B17/02 G06Q50/06 H02J13/00 (Advanced/Invention)

CPC: G05B2219/2642 G06Q50/06 H02J3/14 G05B15/02 Y02B70/3241 Y04S20/227 H02J2003/007 Y02B70/3225 Y02E60/76 Y04S20/222 Y04S40/22

US: 700/295

PatBase - US2014277808 Registration Process



Family:

Publication number	Publication date	Application number	Application date
CA2846342 AA	20140915	CA20142846342	20140314
US2014277808 AA	20140918	US20140216247	20140317

Priority:

US20130794067P 20130315 US20140216247 20140317

Probable Assignee: OPEN ACCESS TECHNOLOGY INT INC

Assignee(s): (std): OPEN ACCESS TECHNOLOGY INT INC

Assignee(s): RAHIMI FARROKH ; OPEN ACCESS TECHNOLOGY INT INC3660 TECHNOLOGY DRIVE NEMINNEAPOLISMN55418US ; PALOMO JOSE MEDINA ; MOKHTARI SASAN ; ALBUYEH FARROKH ; DANAI BEHNAME ; IPAKCHI ALI ; IRISARRI GUILLERMO

Inventor(s): (std): ALBUYEH FARROKH ; DANAI BEHNAME ; DANAI BENHAM ; IPAKCHI ALI ; IRISARRI GUILLERMO ; MEDINA PALOMO JOSE ; MOKHTARI SASAN ; PALOMO JOSE MEDINA ; RAHIMI ABDOLHOSSEIN ; RAHIMI FARROKH

Inventor(s): RAHIMI FARROKHUS ; PALOMO JOSE MEDINAUS ; MOKHTARI SASANUS ; IRISARRI GUILLERMOUS ; IPAKCHI ALIUS ; DANAI BEHNAMEUS ; ALBUYEH FARROKHUS

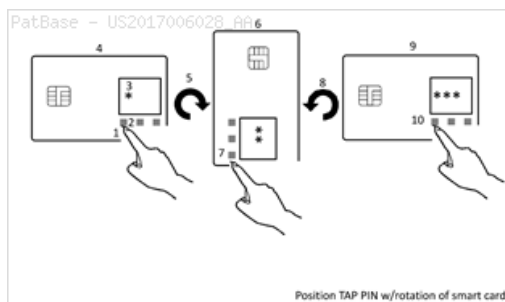
Agent(s): PIASETZKI NENNIGER KVAS LLP

Title: SYSTEM AND METHOD TO AUTHENTICATE ELECTRONICS USING ELECTRONIC-METRICS

Abstract: Source: US2017006028A A system for authenticating a first entity. The system comprises a storage component for storing a trained electronic-metric factor, a sensor for receiving an electronic-metric input from the first entity, an analysis component associated with a second entity for determining a first relationship between the trained electronic-metric factor and any electronic-metric input, and an authentication component for authenticating the first entity responsive to the first relationship.

Classifications:

International (IPC 8-9): G06F21/31 G06F21/32 G06F21/36
G06Q20/06 G06Q20/10 G06Q20/20 G06Q20/32 G06Q20/38
G06Q20/40 G06Q30/02 H04L29/06 H04L29/08 H04L9/08 H04L9/14
H04L9/32 H04W12/06 (Advanced/Invention)
CPC: H04L63/0861 H04L63/06 H04L9/0866 H04L9/3236
G06Q20/40145 G06Q20/322 H04L2209/56 H04W12/06 H04L63/107
H04L2209/80 H04L67/22 G06F21/36 H04L63/083 H04L2463/082
G06Q20/204 G06Q50/01 G06Q20/065 G06Q20/382 G06Q30/0207
H04L67/20 H04L67/306 H04L9/3231 G06Q20/409 G06Q20/327
G06Q30/0241 H04L9/14 G06Q30/0255 H04L67/18 G06Q20/102
G06Q30/0269 G06F21/316 H04L9/3226 H04L9/3234 G06Q20/206
G06Q20/202 G06Q30/0226 G09C5/00 H04L9/3228
US: 705/14.53 705/14.66 705/17 705/44 713/168 726/7

**Family:**

Publication number	Publication date	Application number	Application date
US2017006028 AA	20170105	US20160202553	20160705
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US2017018001 AA	20170119	US20160212163	20160715
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US2017053249 AA	20170223	US20160225780	20160801
US2017061404 AA	20170302	US20160257101	20160906
US2017161709 AA	20170608	US20160368546	20161202

Priority:

US20150114357P	20150210	US20150188684P	20150705	US20150198817P	20150730
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Probable Assignee: NXT ID INC

Assignee(s): (std): NXT ID INC ; POWERS SEAN ; TUNNELL ANDREW ; TUNNELL DAVID ; ZURASKY JACOB

Inventor(s): (std): MITCHELL JUSTIN ; MORGAN CHARLES ; POWERS SEAN ; TUNNELL ANDREW ; TUNNELL DAVID ; ZURASKY JACOB

Title: ENGINEERED CEMENT INCORPORATING SCMS AND METHODS FOR MAKING AND USING SAME

Abstract: Source: US2012145046A Engineered cements are described that include an engineered clinker fraction designed for use with one or more supplementary cementitious material ("SCM") fractions. The engineered clinker fraction has a narrow particle size distribution ("PSD") with a relatively high tricalcium silicate ("C3S") content as compared to traditional ordinary Portland cement ("OPC"). The high C3S content and narrow PSD provide desired reactivity and set time when combined with the one or more SCMs. The clinker fraction may be combined with one or more ultrafine SCM fractions and/or one or more coarser SCM fractions to achieve a desired wide particle size distribution. By engineering the chemistry and the particle size of the clinker fraction and the SCM fraction to work together, the engineered cements can have superior packing density, water demand, reactivity, set time, sulfate resistance, and strength development as compared to conventional OPC-SCM blends.

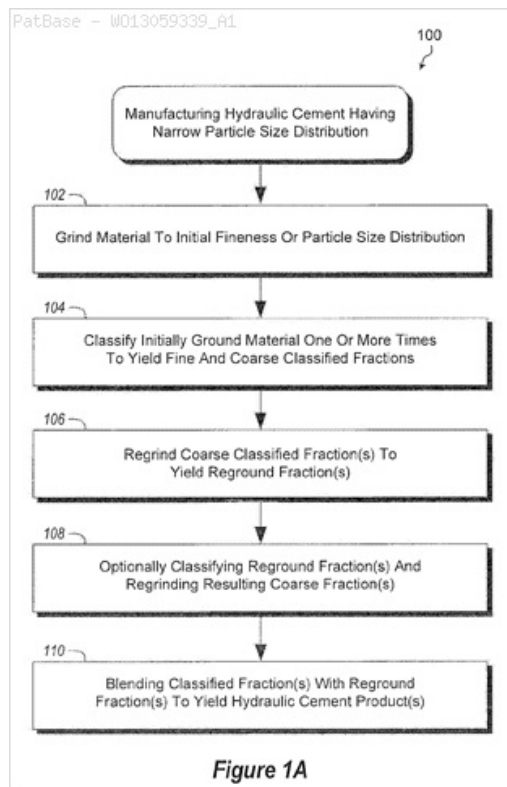
Classifications:

International (IPC 8-9): B28C5/00 C04B11/00 C04B14/00 C04B14/02 C04B18/06 C04B20/00 C04B20/02 C04B28/02 C04B28/04 C04B28/26 C04B7/00 C04B7/02 C04B7/04 C04B7/14 C04B7/19 C04B7/26 C04B7/34 C04B7/38 C04B7/52 F17D3/01 G06Q90/00 (Advanced/Invention); C04B111/00 C04B20/00 C04B28/02 C04B7/02 C04B7/12 C04B7/52 (Advanced/Non-invention)

CPC: C04B7/38 C04B20/026 G06Q99/00 C04B7/34 C04B7/26 C04B7/02 C04B7/14 C04B20/008 C04B7/12 C04B7/527 C04B20/0088 C04B20/0096 C04B28/021 C04B211/00215 C04B7/04 F17D3/01 Y02W30/92 Y02W30/94 C04B28/02 C04B211/2015 Y02P40/146 Y02P40/18 Y02P40/20 C04B14/28 C04B18/08 C04B18/141 C04B18/146 C04B2103/0088 C04B14/108 C04B14/22 C04B18/06 C04B28/04

European: C04B28/04 C04B7/52H G06Q99/00

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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