

15 Documents

Publication numbers	Title	Current assignees
EP3249201 A1	Device for operating a motor	CLEANTECH SWISS
DE202016102762 U1	Device for operating an engine	LPG SUISSE
JP2010257823 A	Combustion device of fuel cell system	AISIN SEIKI, ...
JP2010267450 A	Fuel cell system	AISIN SEIKI, ...
WO201452928 A1	Supplementary hydrogen fuel system	HYDROGEN INJECTION TECHNOLOGY
EP1756332 A2	Hydrogen gas electrolysis and supply apparatus and method	S & R L SCIENCE TRUSTEE
EP1276966 A1	A method for treating a hydrocarbon-containing formation	SHELL, ...
WO2008147043 A1	Digital safety device for a gas valve	METS
KR20140094482 A	Global nuclear power reactors of different types of body hydroelectric plants operating nuclear power plant reactor shield alternative nuclear waste disposal facility for nuclear reactor radiation leak precipitator control dual structure of the main body of the block distribution feeder tank	LEE, WOO SUNG
EP1162679 A1	Power generation device and operation method therefor	PANASONIC
WO201260219 A1	Amorphous carbon material for lithium ion secondary battery negative electrode and nonaqueous secondary battery using same	JX NIPPON OIL & ENERGY
KR20190002693U U	Eco cleaning blasting coating painting and treatment equipment	JEONG YONGHOON
EP2888035 A1	Processing materials	XYLECO
KR101147565 B1	Mixed gas generator for vehicles, capable of mixing oxygen with hydrogen caused by electrolysis	KANG, SAM YEOL
WO2018139755 A1	Vehicle system having function of preventing occurrence factors of sudden unintended acceleration	STORAGEAN

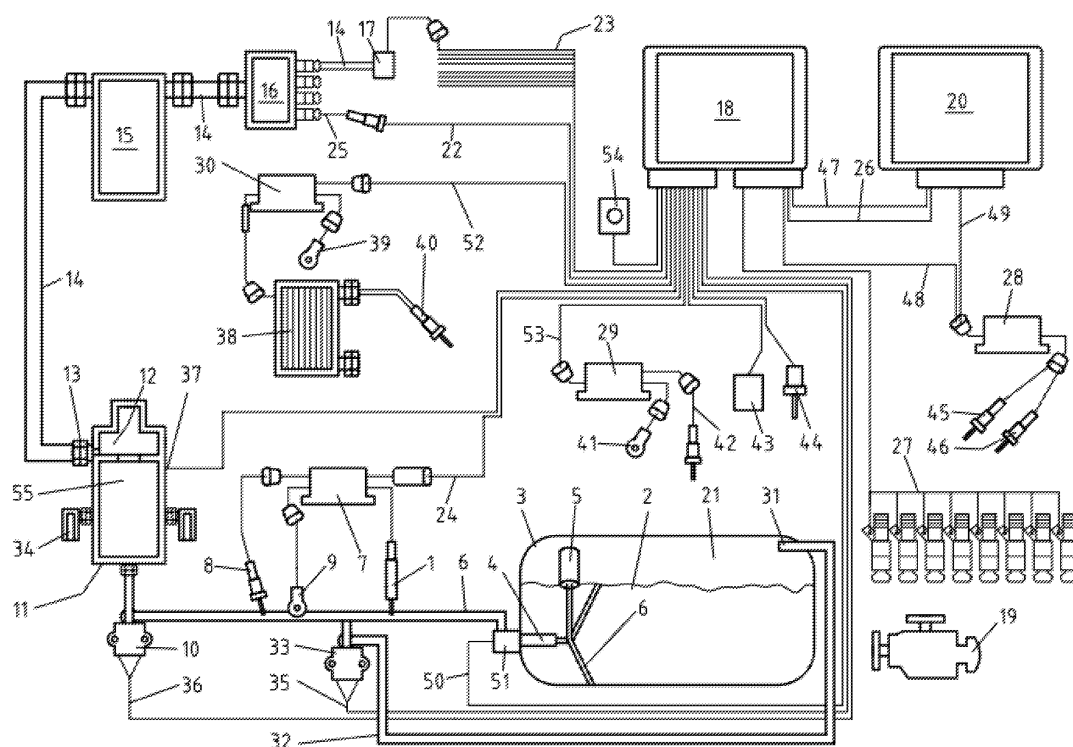
Family 1/15 - FAMPAT - ©Questel

Title

(EP3249201)

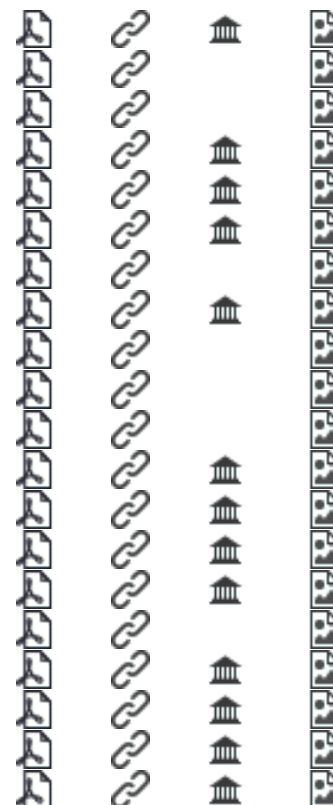
Device for operating a motor

Images



Publication numbers with kind code & date

JP2019522137	A	2019-08-08	JP2019522137
ZA201807169	B	2019-07-31	ZA201807169
PH12018502017	A1	2019-07-29	PH12018502017
EA201892700	A1	2019-06-28	EA20002018927
US20190145327	A1	2019-05-16	US20190145327
EP3464856	A1	2019-04-10	EP3464856
MX2018013460	A	2019-03-14	MX2018013460
BR112018072657	A2	2019-02-19	BR112018072657
CL2018003127	A1	2019-02-15	CL201803127
KR10-2019-0014530	A	2019-02-12	KR20190014530
PE762019	A1	2019-01-14	PE201900076
CN109154241	A	2019-01-04	CN109154241
IL262865	A	2018-12-31	IL-262865
IN201817035023	A	2018-12-28	IN201817035023
BR112018072657	A1	2018-11-13	BR112018072657
CO2018011926	A2	2018-11-13	CO2018011926
AU2017269880	A1	2018-10-04	AU2017269880
CA3017803	A1	2017-11-30	CA3017803
WO2017/202826	A1	2017-11-30	WO2017202826
EP3249201	A1	2017-11-29	EP3249201



Abstract

(EP3249201)

The invention relates to a device and a method for ascertaining an **injection time** and/or an amount of a liquefied **gas** fuel—such as liquefied petroleum **gas** (LPG), natural **gas** (CNG), liquefied natural **gas** (LNG), biogas or hydrogen (H₂)—to

be delivered to a cylinder of an engine (19) in order to operate the engine (19) in a bivalent or trivalent fuel operating mode, said device being designed in such a way that the ascertained **injection time** of the liquefied **gas** fuel is dependent on an ascertained calorific power or an ascertained **gas** mixture characteristic. A **gas** mixture analysis module (7) is used for optimizing combustion. A **gas** start mechanism allows a vehicle to be started on **gas** power even at low temperatures.
(From US2019145327 A1)

Inventors

GIEGER WERNER

Latest standardized assignees - inventors removed

CLEANTECH SWISS

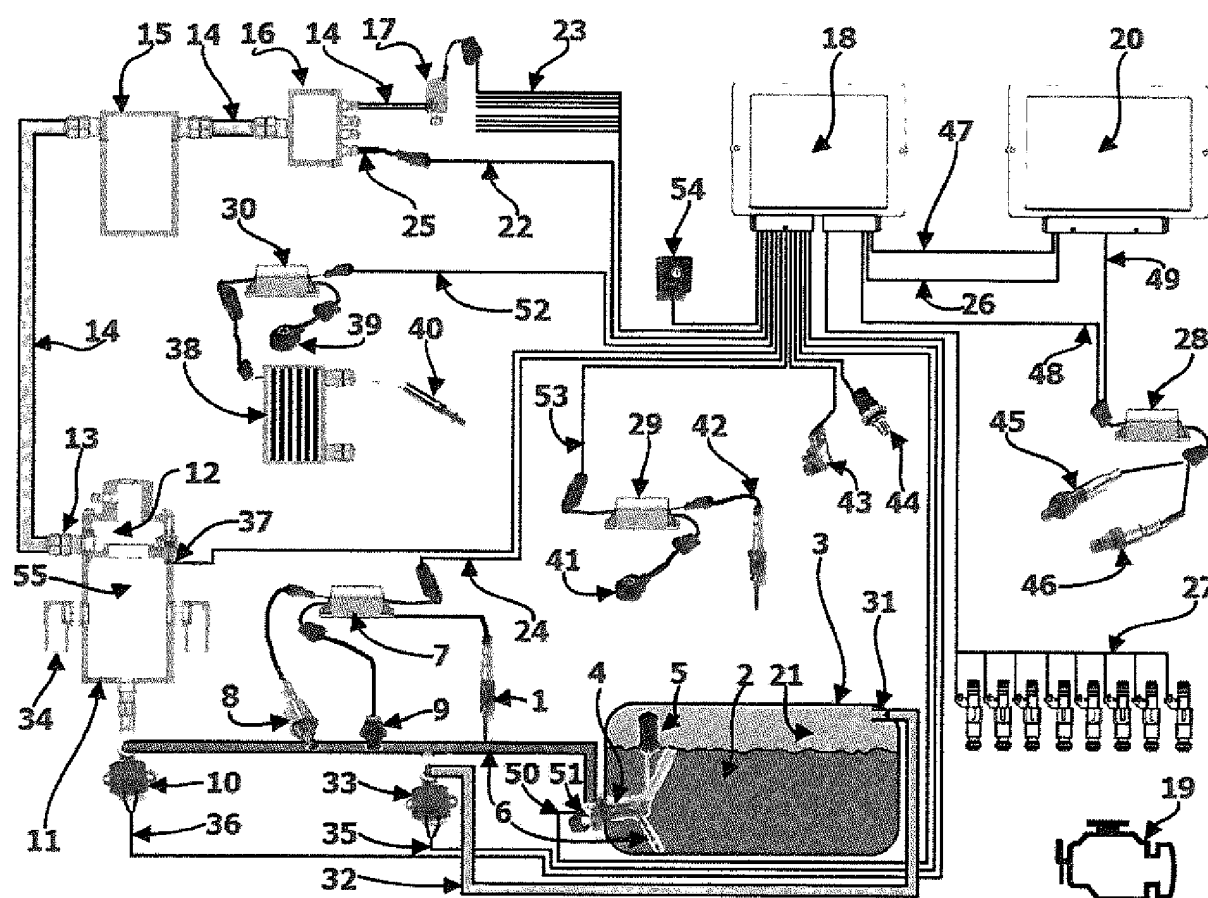
Family 2/15 - FAMPAT - ©Questel

Title

(DE202016102762)

Device for operating an engine

Images



Publication numbers with kind code & date

[DE202016102762](#)

U1 2018-01-04

DE202016102762



Abstract

(DE202016102762)

Apparatus for determining an **injection time** and/or a cylinder of an (19) engine supplied amount of a liquid **gas** fuel - such as liquefied petroleum **gas** (LPG), natural **gas** (CNG), liquefied natural **gas** (LNG), Biogas or hydrogen (H2) - for operating the engine (19) in a bivalent or trivalent fuel operation, the apparatus is arranged, the determined **injection time** of the **gas** fuel of a determined heating value or a determined **gas** mixture characteristic value dependent on.

Latest standardized assignees - inventors removed

LPG SUISSE

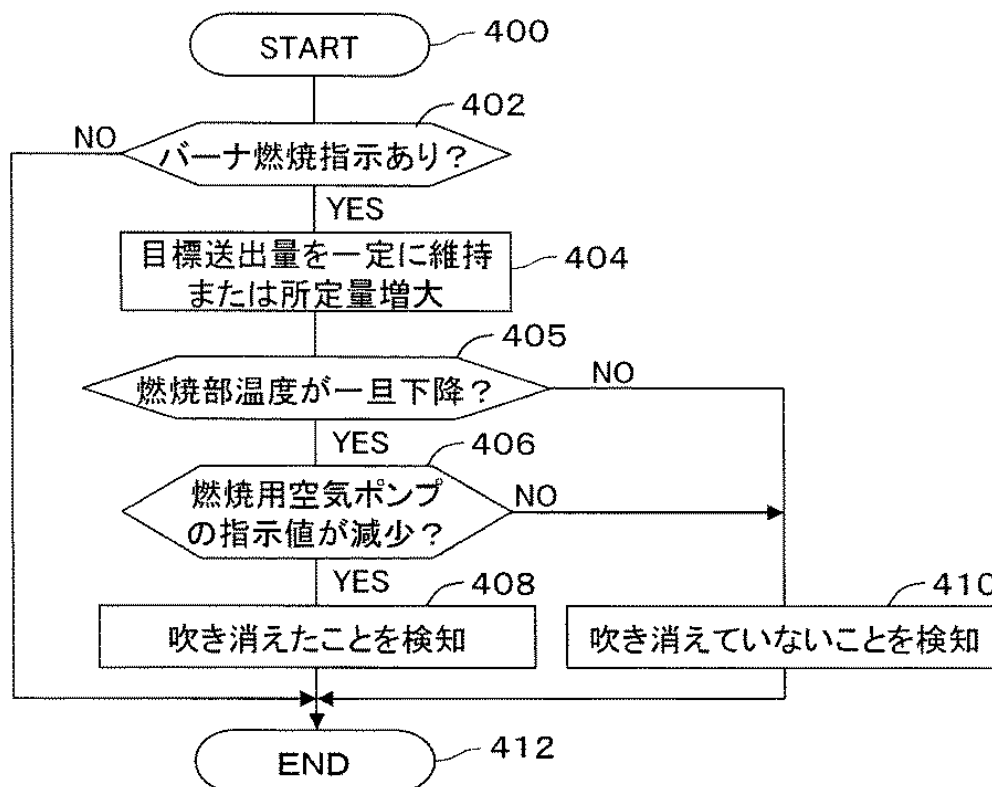
Family 3/15 - FAMPAT - ©Questel

Title

(JP2010257823)

Combustion device of fuel cell system

Images



Publication numbers with kind code & date

JP2010257823

A 2010-11-11

JP2010257823



Abstract

(JP2010257823)

PROBLEM TO BE SOLVED: To detect blow-out of a burner surely without inviting increase in cost in a combustion device of a fuel cell system.

SOLUTION: The combustion device of the fuel cell system is applied for the fuel cell system equipped with a fuel cell in which power generation is carried out by a fuel supplied to a fuel electrode and an oxidizer **gas** supplied to an oxidizer electrode. It includes a combustion part equipped with the burner to burn the fuel for the burner by the oxidizer **gas** for combustion and a combustion **gas** flow passage in which a combustion **gas** generated by the burner is circulated, a **temperature sensor** to detect a **temperature** of the combustion part, and a sending means of the oxidizer **gas** for combustion to the burner. As for this combustion device, a combustion instruction is carried out for the burner (step 402), and when the target sending amount is increased or maintained constant, in the case it is detected that the **temperature** of the combustion part drops and a **pressure** loss in the front and rear of the burner is reduced (step 405, 406), it is determined that the burner is blown out (step 408).

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Inventors

TAKADA KAZUMASA

Latest standardized assignees - inventors removed

AISIN SEIKI

TOYOTA **MOTOR**

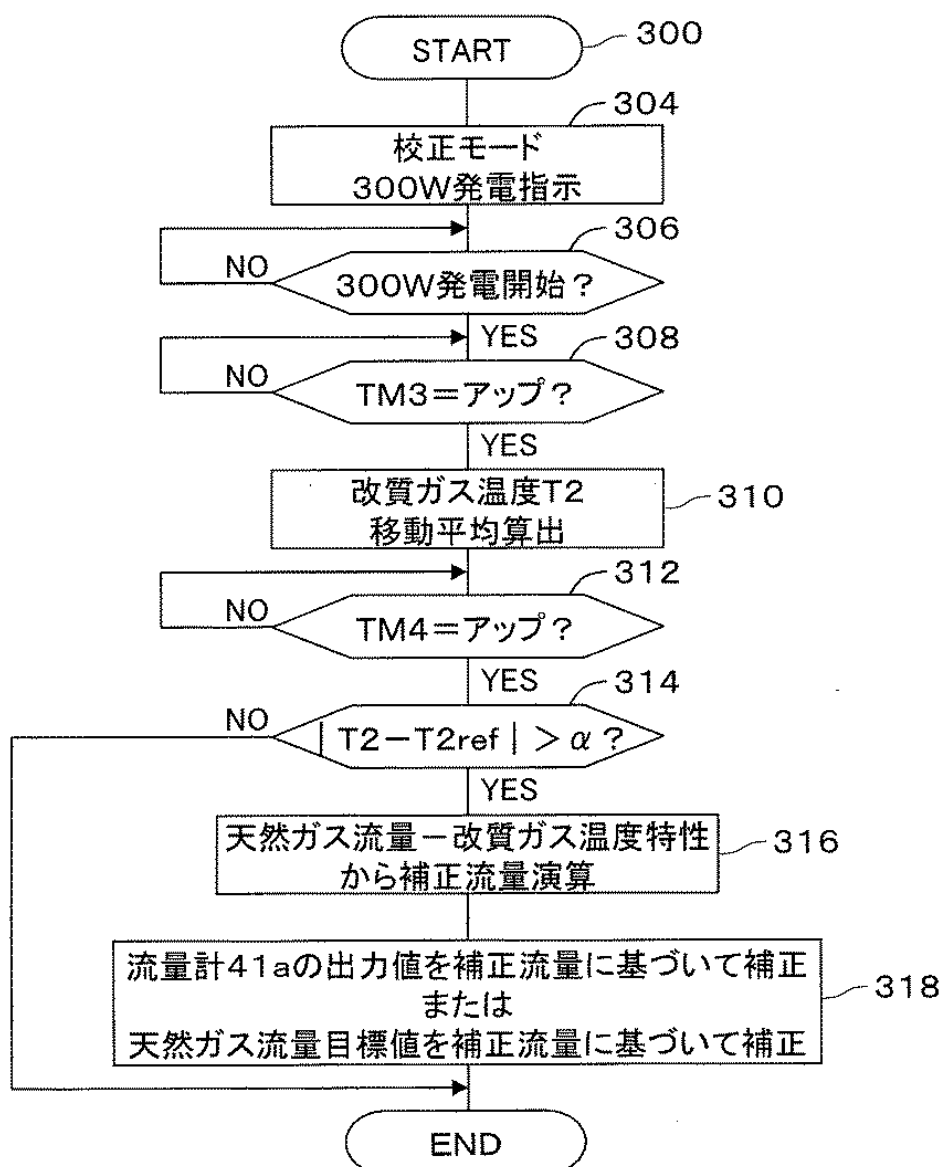
Family 4/15 - FAMPAT - ©Questel

Title

(JP2010267450)

Fuel cell system

Images



Publication numbers with kind code & date

JP5292173

B2 2013-06-14

JP5292173

JP2010267450

A 2010-11-25

JP2010267450



Abstract

(JP2010267450)

PROBLEM TO BE SOLVED: To maintain stable power generation in addition to appropriate power generation efficiency of a fuel cell in a fuel cell system in the event of an error of a fuel flow **sensor** for detecting flow rate of fuel input to a fuel cell by automatically calibrating the error.

SOLUTION: The fuel cell system includes: a fuel cell; a reforming device which reforms fuel input thereto to generate reformed **gas** and supplies the reformed **gas** to the fuel cell; a fuel delivery device which delivers fuel; and a fuel flow **sensor** which detects the flow rate of the fuel delivered from the fuel delivery device. The fuel cell system further includes a control device which controls the operation of the fuel cell system. The control device corrects an output value of the fuel flow **sensor** based on a characteristic showing a relation between the **temperature** of the reformed **gas** and the input flow rate of fuel (steps 316 and 318).

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Inventors

ANDO YASUAKI

TAKADA KAZUMASA

Latest standardized assignees - inventors removed

AISIN SEIKI

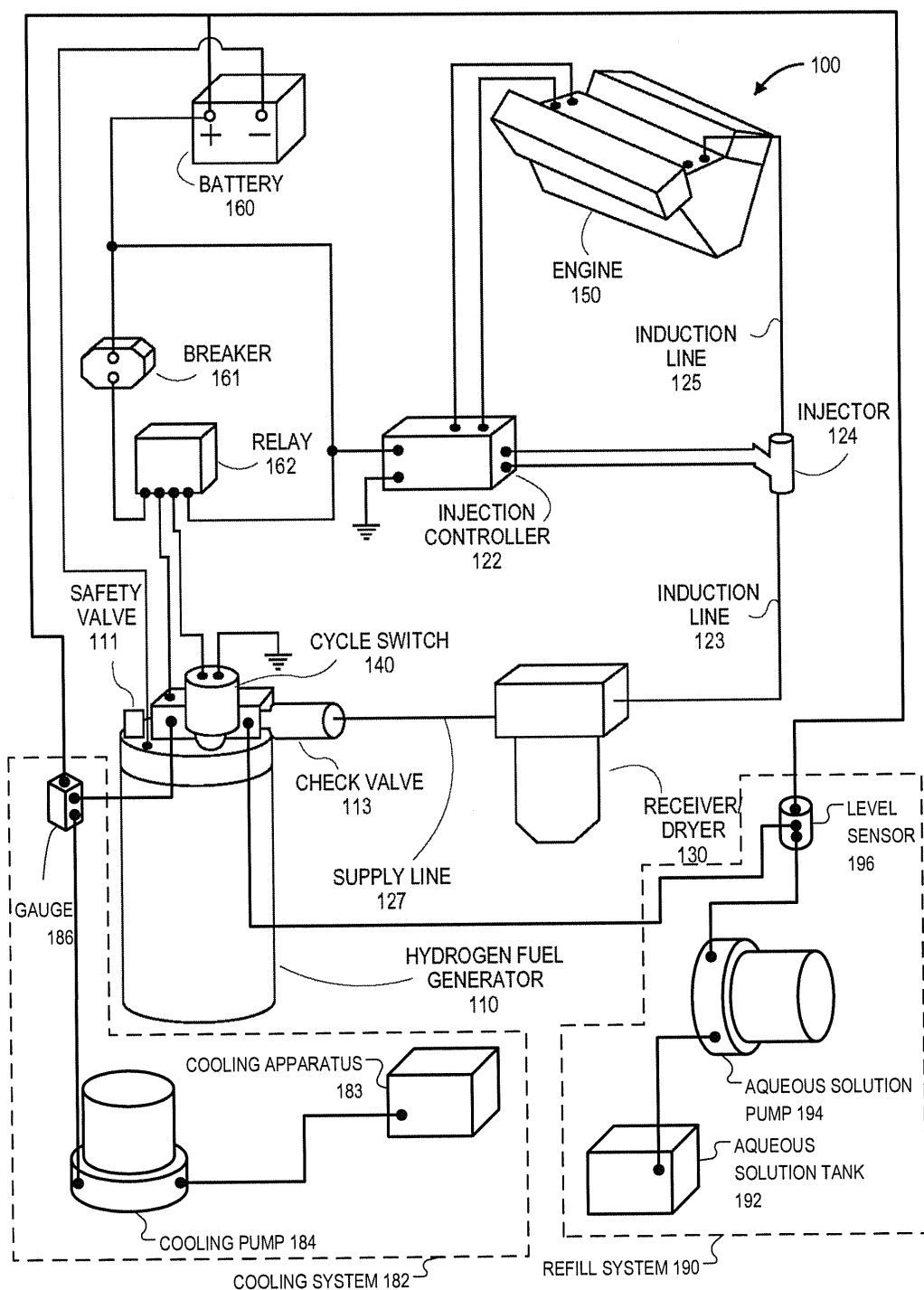
TOYOTA **MOTOR**

Family 5/15 - FAMPAT - ©Questel

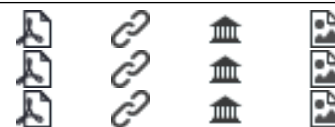
Title

(WO201452928)

Supplementary hydrogen fuel system

Images

US20140096727	A1	2014-04-10	US20140096727
US20140096728	A1	2014-04-10	US20140096728
WO2014/052928	A1	2014-04-03	WO201452928

**Abstract**

(WO2014/052928)

A supplementary hydrogen fuel system is described. The supplementary hydrogen fuel system can include a hydrogen generator. The hydrogen generator can include a cylindrical enclosure of metal and a fuel cell unit disposed within the cylindrical enclosure. The fuel cell unit includes an **anode** core coupled to a second terminal of the power source. The **anode** core includes indentations on one or more surfaces. The indentations are arranged according to a first pattern. The supplementary hydrogen fuel system can include a cooling system controller that can monitor a power consumption metric of the hydrogen generator. The cooling system controller can set, in view of the monitoring of the power consumption metric, the cooling system to a first setting to cool the hydrogen generator at a first rate.

Inventors

ORTENHEIM RICHARD

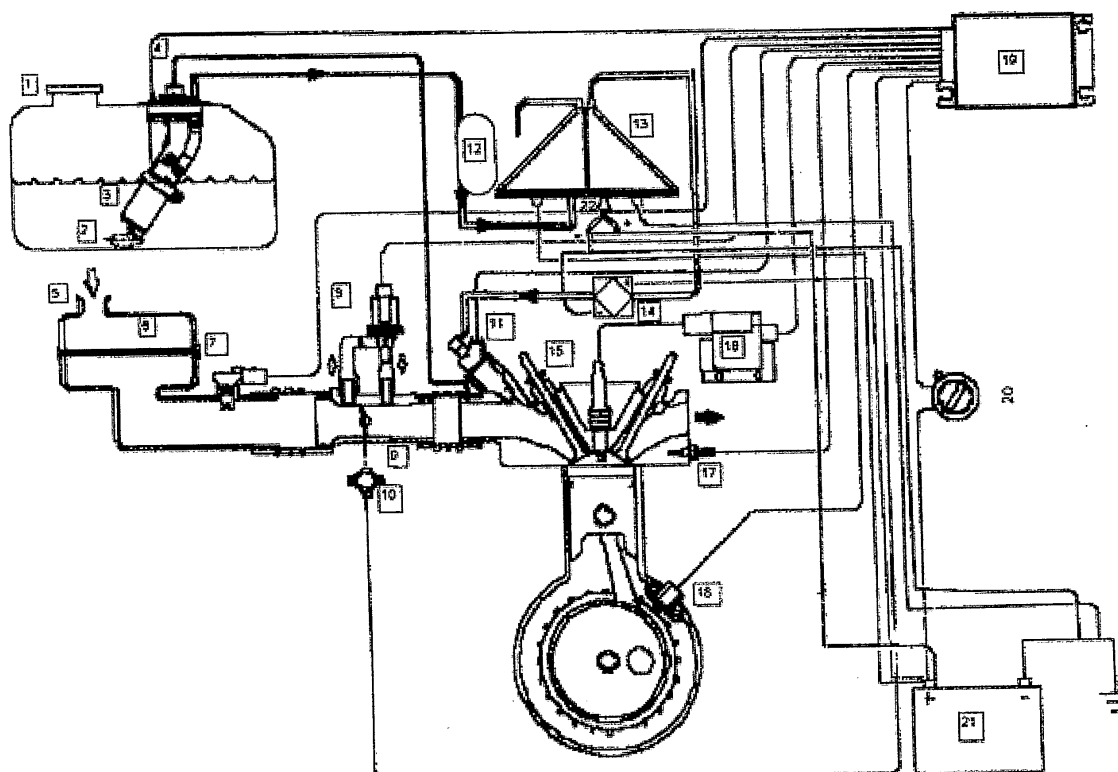
ROETTIGERS CHRISTIAN HEINRICH

Latest standardized assignees - inventors removedHYDROGEN **INJECTION** TECHNOLOGY

Family 6/15 - FAMPAT - ©Questel

Title

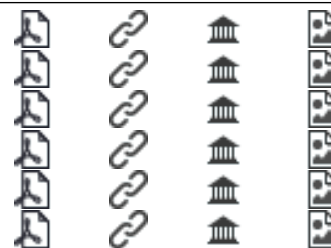
(EP1756332)

Hydrogen **gas** electrolysis and supply apparatus and method**Images****Publication numbers with kind code & date**

JP2008502802	A	2008-01-31	JP2008502802
EP1756332	A4	2007-12-26	EP1756332
US20070272548	A1	2007-11-29	US20070272548
CN101076616	A	2007-11-21	CN101076616
KR20070040793	A	2007-04-17	KR20070040793



EP1756332	A2	2007-02-28	EP1756332
WO2005/122708	A3	2006-02-02	WO2005122708
AU2005253902	A1	2005-12-29	AU2005253902
CA2570922	A1	2005-12-29	CA2570922
WO2005/122708	A2	2005-12-29	WO2005122708
NZ522619	A	2005-08-26	NZ-522619

**Abstract**

(EP1756332)

An electrode assembly for use in an electrochemical cell, said electrode being in the proportion(s) of a pyramid with the proportions of the pyramidal shape being determined by a specific formula where the height is multiplied by a figure between 1 and 2 to determine the four side lengths and the height is multiplied by a figure between 1.20 and 2.22 to determine the four base lengths. The invention also comprises methods and techniques for adjusting an internal combustion engine and/or electric power generator to allow for the engine to run on hydrogen generated from water using an electrolysis cell. The methods have been developed to reduce the likelihood of hydrogen ignition flame back.

Inventors

SUTHERLAND DEANE LEWIS

SUTHERLAND MICHAEL DAVID

Latest standardized assignees - inventors removed

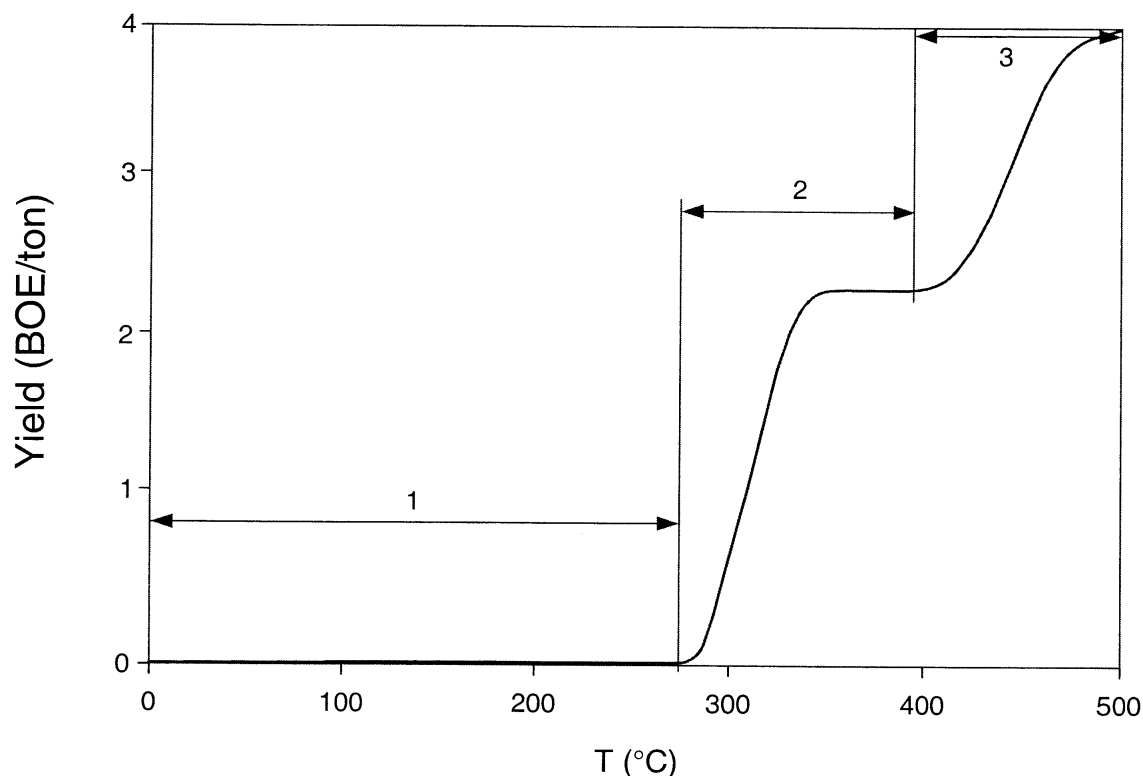
S & R L SCIENCE TRUSTEE

Family 7/15 - FAMPAT - ©Questel

Title

(EP1276966)

A method for treating a hydrocarbon-containing formation

Images**Publication numbers with kind code & date**

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IN267438	B	2015-07-24	IN-267438
IN262796	B	2014-09-26	IN-262796



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US8225866	B2	2012-07-24	US8225866				
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WO01/81720	A1	2001-11-01	WO200181720				
WO01/81722	A1	2001-11-01	WO200181722				

Abstract

(EP1276966)

The invention provides a method for treating a hydrocarbon-containing formation in situ, comprising applying heat to at least a portion of the formation via heater wells to pyrolyse hydrocarbons present in the formation to yield pyrolysis fluids and recovering the pyrolysis fluids from the formation, in which the heater wells are provided in a triangular pattern.

Inventors

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Latest standardized assignees - inventors removed

SHELL
SALAMANDER SOLUTIONS

Family 8/15 - FAMPAT - ©Questel

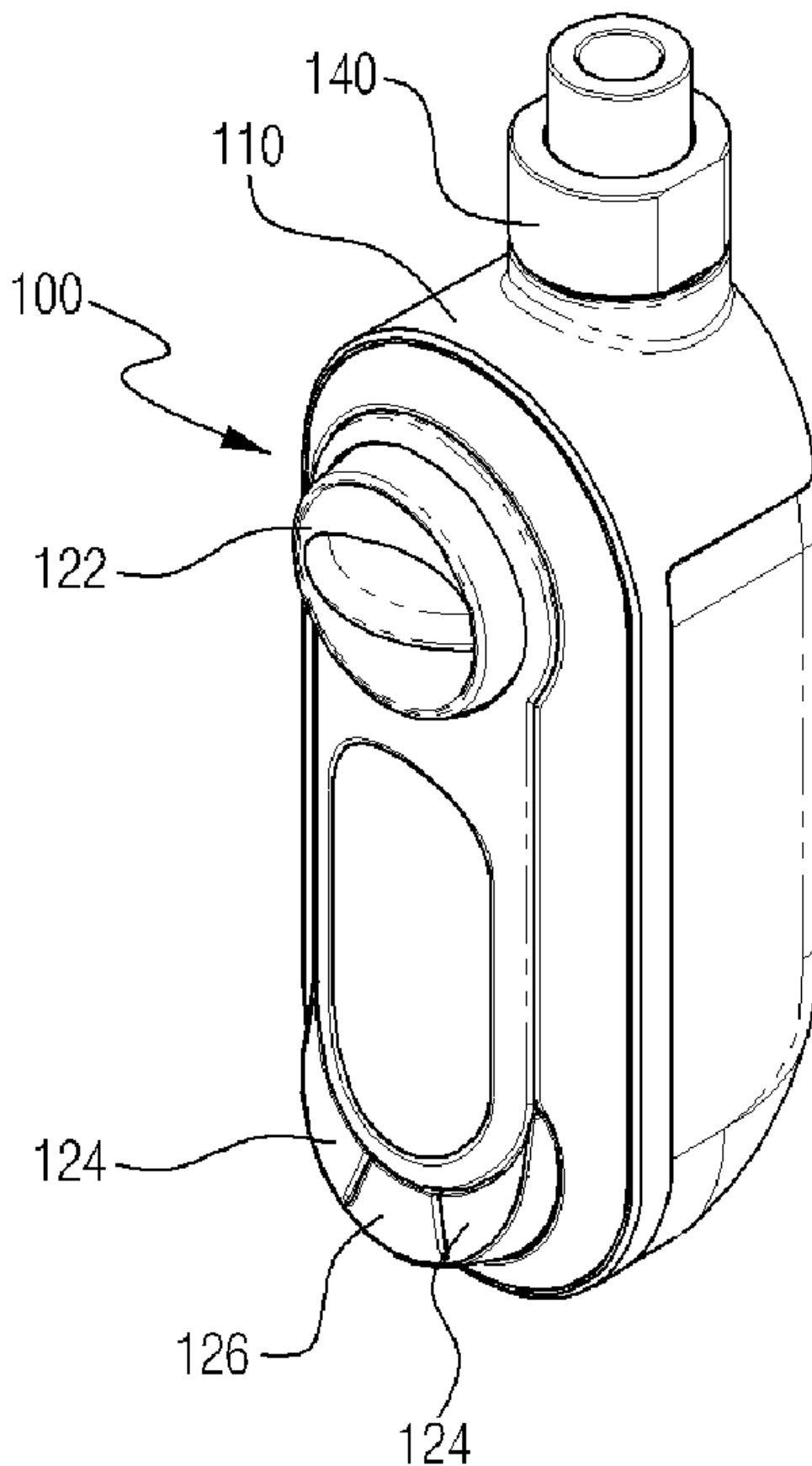
Title

(WO2008147043)

Digital safety device for a **gas** valve

Images

[Fig. 1]



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JP2010530940	A	2010-09-16	JP2010530940
CN101680602	A	2010-03-24	CN101680602
WO2008/147043	A1	2008-12-04	WO2008147043
KR100836072	B1	2008-06-09	KR100836072



Abstract

(WO2008/147043)

Disclosed is a digital safety device for a **gas** valve, which prevents the leakage of **gas** in a **gas** supply channel and performs a function for automatically closing the **gas** valve when a one-touch ON/OFF function is performed or use of **gas** is stopped, thereby securing convenience and safety. The digital safety device for a **gas** valve, which is installed on a **gas** supplying channel of a **gas** appliance, includes a **gas** flow detector which includes a pipe-shaped body provided in a periphery of the **gas** valve on a **gas** supply channel, a heating means provided in an interior of the body, and thermal sensors installed at the interior of the body and positioned at front and rear sides of the heating means on the **gas** supply providing channel, respectively; a controller which receives a signal regarding an flux of **gas**, which is measured by a **gas** flow detector, and generates a controlling signal for determining opening/closing of the **gas** valve; and an operating part receiving the controlling signal from the controller so as to open/close the **gas** valve. The digital safety device for a **gas** valve determines if the **gas** appliance stops using **gas**, if **gas** remains through the user's carelessness, if **gas** is being used for an extended period of **time**, and if **gas** leaks out so as to automatically close the **gas** valve, thereby preventing a **gas** accident and securing convenience.

Inventors

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Latest standardized assignees - inventors removed

METS

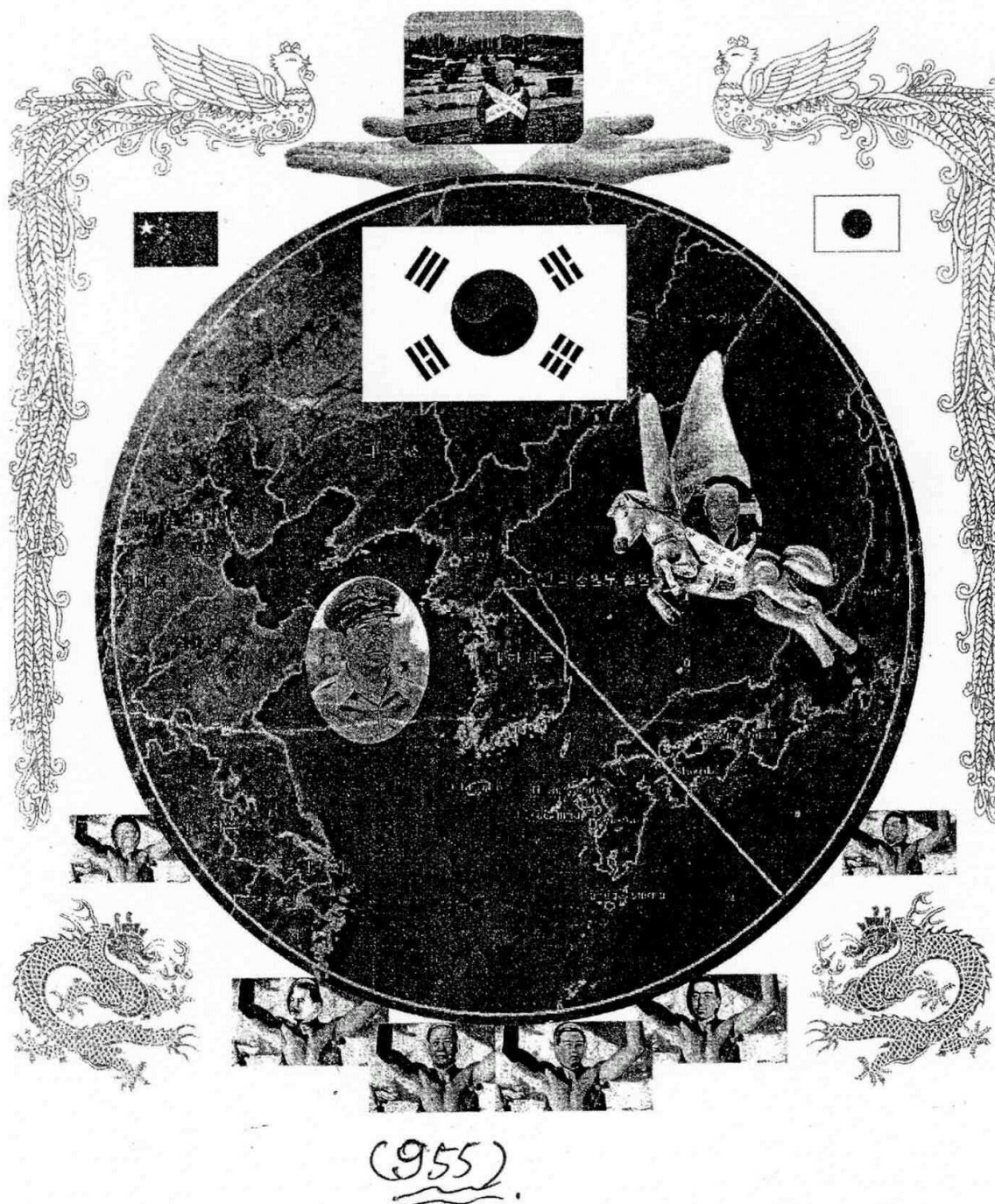
Family 9/15 - FAMPAT - ©Questel

Title

(KR20140094482)

Global nuclear power reactors of different types of body hydroelectric plants operating nuclear power plant reactor shield alternative nuclear waste disposal facility for nuclear reactor radiation leak precipitator control dual structure of the main body of the block distribution feeder tank

Images

**Publication numbers with kind code & date**

KR20140094482

A 2014-07-30

KR20140094482

**Abstract**

(KR20140094482)

The present invention relates to a distribution and input device of a nuclear radiation leakage control dual structure block tank reactor precipitator body for nuclear reactor equipment in various types of nuclear reactor equipment power plant operation replacement nuclear waste treatment shielding devices of a global hydro nuclear power plant body. More specifically, various types of nuclear reactor facilities in a light-water reactor operation replacement nuclear waste treatment shielding device of a nuclear power plant is composed of a boiling water reactor and a pressurized water reactor in a nuclear reactor using water.

Inventors

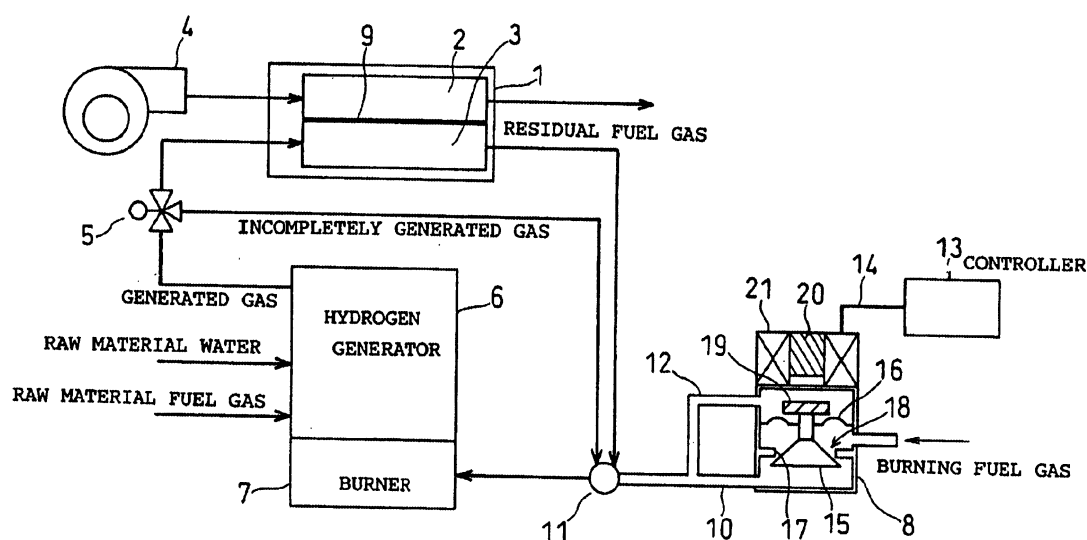
LEE, WOO SUNG

Family 10/15 - FAMPAT - ©Questel

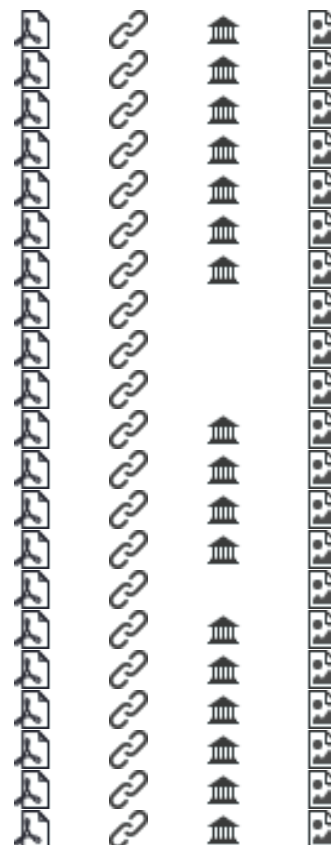
Title

Power generation device and operation method therefor

Images



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JP3772619	B2	2006-02-24	JP3772619
EP1162679	A4	2005-11-02	EP1162679
JP3680671	B2	2005-05-27	JP3680671
CN1178322	C	2004-12-01	CN1178322C
CN1549373	A	2004-11-24	CN1549373
US6797420	B2	2004-09-28	US6797420
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WO01/48851	A1	2001-07-05	WO200148851
JP2001180905	A	2001-07-03	JP2001180905
JP2001180906	A	2001-07-03	JP2001180906



Abstract

The present invention relates to an electric power generator and its operation method, which electric power generator is equipped with a hydrogen generator, a polymer electrolyte fuel cell for generating electric power using hydrogen rich gas from the hydrogen generator, a burner for burning the hydrogen generator, a flow rate controller for controlling the supply amount of a burning fuel to the burner, a communicating pathway connecting the flow rate controller and the burner, a joint where at least a residual fuel gas from a fuel electrode of the fuel cell and/or an incompletely generated gas from the

hydrogen generator are combined into the communicating pathway, and a **pressure**-transferring pipe for releasing the **pressure** between the joint and the flow rate controller into the flow rate controller; the electric power generator being characterized in that the flow rate controller controls the supply amount of the burning fuel on the basis of the above-mentioned **pressure**.

Inventors

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SHONO TOSHIYUKI

KITAGAWA KOICHIRO

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Latest standardized assignees - inventors removed

PANASONIC

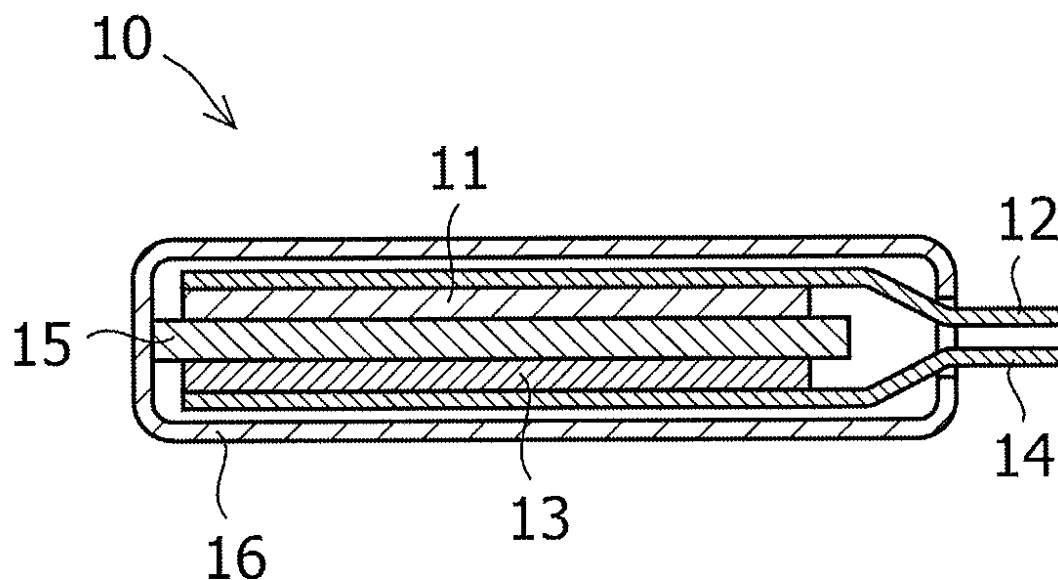
Family 11/15 - FAMPAT - ©Questel

Title

(WO201260219)

Amorphous carbon material for lithium ion secondary battery negative electrode and nonaqueous secondary battery using same

Images



Publication numbers with kind code & date

KR10-2016179	B1	2019-08-29	KR102016179
CN103283069	B	2016-08-10	CN103283069B
JP5657348	B2	2014-12-05	JP5657348
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JP2012099406	A	2012-05-24	JP2012099406



WO2012/060219

A1 2012-05-10

WO201260219



Abstract

(WO2012/060219)

Provided is an amorphous carbon material for a lithium ion secondary battery negative electrode that can suppress capacity deterioration due to repetition of charge/discharge cycle, storage in a charged state, floating charge, and the like. A nonaqueous electrolyte secondary battery includes: a positive electrode including lithium that is capable of reversible intercalation of lithium; a negative electrode made of an amorphous carbon material; and nonaqueous electrolyte. In the negative electrode, the size of crystallite L_c (002) in c axis direction calculated from (002) diffraction line of an amorphous carbon material measured by a powder X-ray diffraction method is 2.0 to 8.0 nm. The negative electrode has a carbon-derived spectrum that appears in the range between 3200 and 3400 gauss (G) in an electron spin resonance technique measured with the use of X band. Further, the followings are satisfied: a relative signal strength ratio ($I_{4.8K}/I_{40K}$) of a signal strength at the temperature 4.8K ($I_{4.8K}$) to a signal strength of the spectrum measured at the temperature 40K (I_{40K}) is 2.4 to 3.5; and a line width of the spectrum (ΔH_{pp}) calculated from a first derivation spectrum at the temperature 4.8K is 70 to 180 gauss (G).

Inventors

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Latest standardized assignees - inventors removed

JX NIPPON OIL & ENERGY

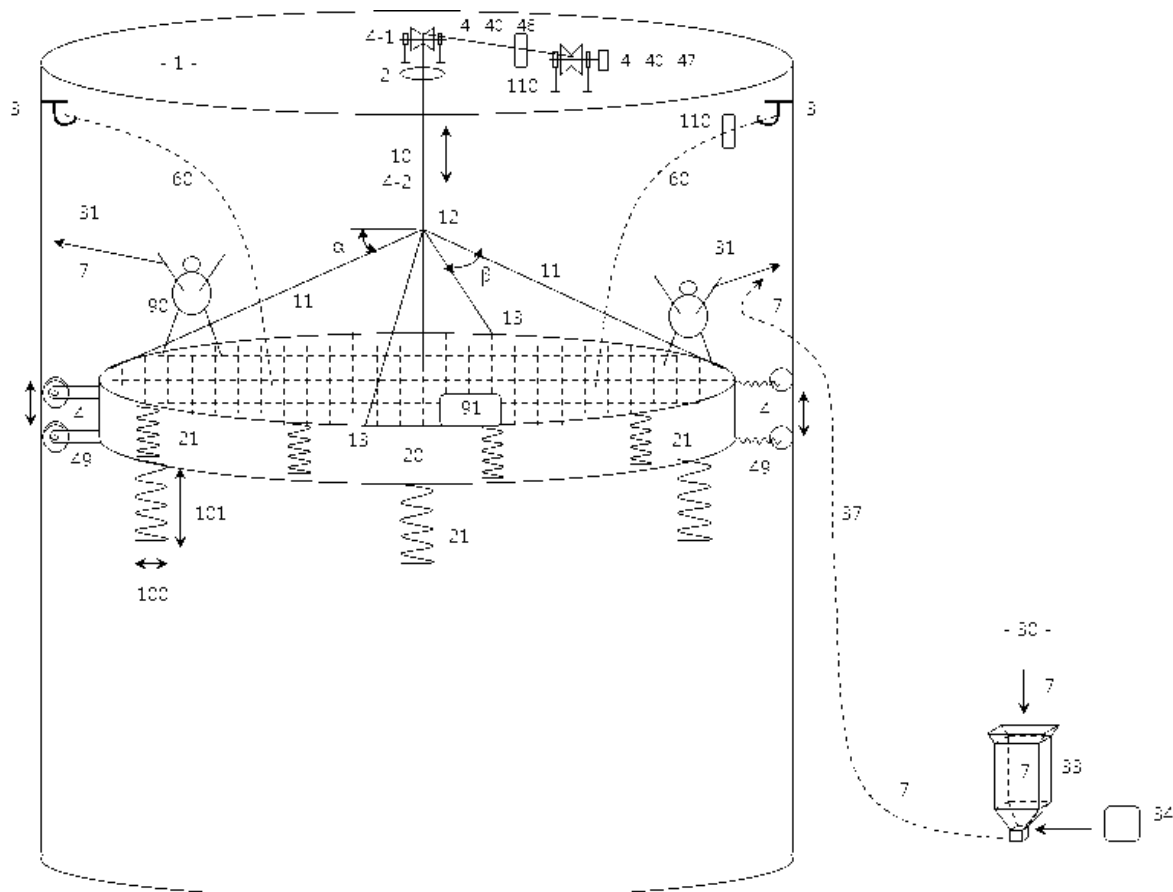
Family 12/15 - FAMPAT - ©Questel

Title

(KR20190002693U)

Eco cleaning blasting coating painting and treatment equipment

Images



Publication numbers with kind code & date

[KR20-2019-0002693](#)

U

2019-10-29

KR20190002693U

**Abstract**

(KR20-2019-0002693)

<summary>

The present invention comprises a) tank, facilities, buildings, bridges, tunnels, roads, packaging, silos, barriers, acoustic tunnel, one of these walls, posts, scaffolding, ceiling, roof, salvage, one of the holes, the holes provided in the line and the like, the rotating body, hoist, the hoist line or the removal of the rotating body, rotating body or the removal of the hoist line, b) said at least one tether connected to the radiation, c) mounted on one of the instrument, lift platform, benches, d) cradled in one of the brush, nozzle, sprayer or the like, e) associated with one of the supply line, reservoir, pump, compressor or the like is provided with an environmentally friendly facilities of an ultrasonic cleaning, blasting, chipping, coating, painting, processing, characterized in that the face treatment device.</summary><abstract-figure>

<figref num="1"/></abstract-figure>

Inventors

JUNG, HA IK

JUNG,YONG-HUN

CHUNG, YONG-JIN

Latest standardized assignees - inventors removed

JEONG YONGHOON

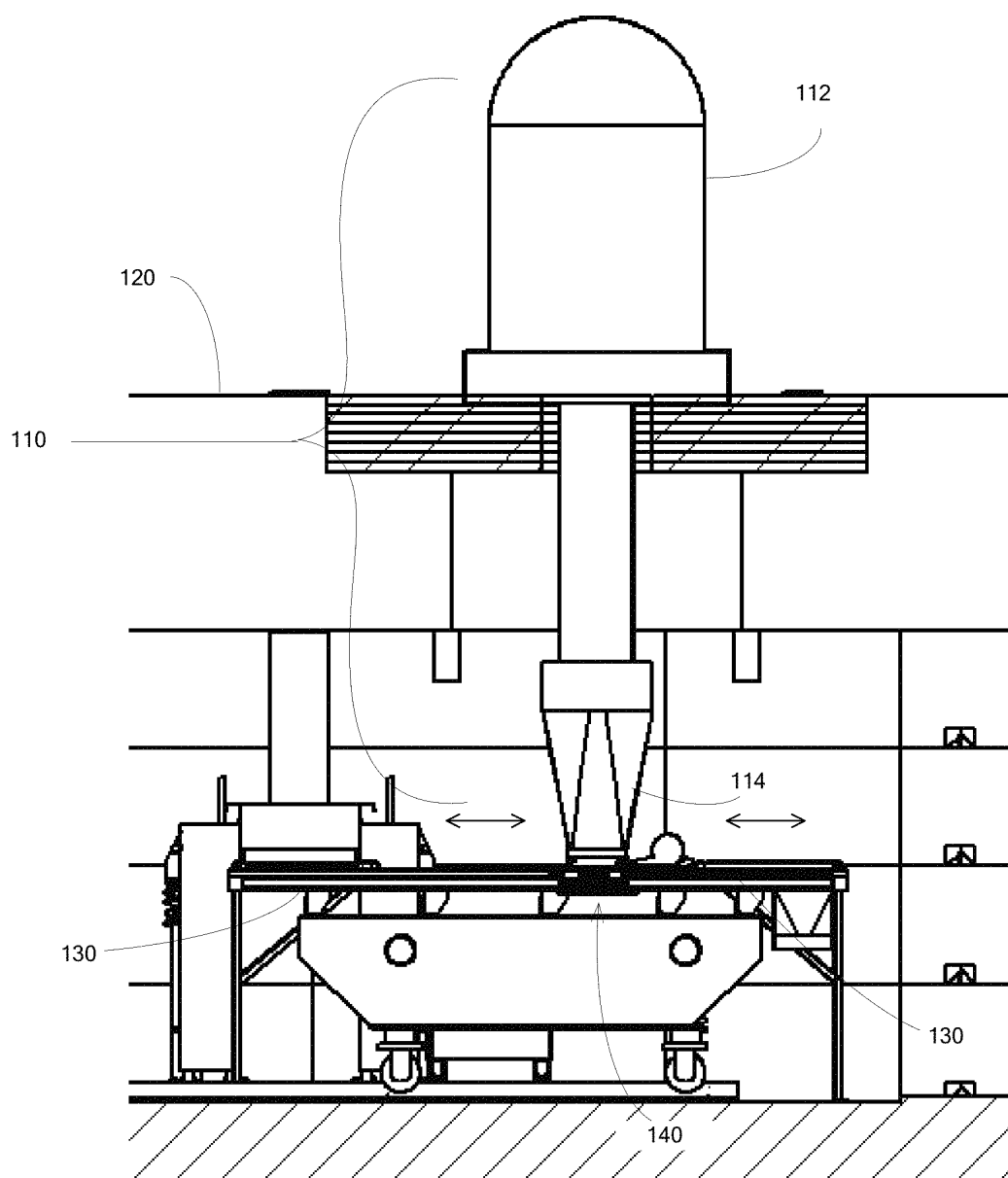
Family 13/15 - FAMPAT - ©Questel

Title

(EP2888605)

Processing materials

Images



Publication numbers with kind code & date

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WO2014/059140	A1	2014-04-17	WO201459140				

Abstract

(EP2888605)

Materials, such as biomass feedstocks (e.g., plant biomass, animal biomass, and municipal waste biomass) are processed to produce useful products, such as fuels. Conveying systems, such as flowing **gas** conveying systems and such as closed-loop flowing **gas** conveying systems are described. Many potential lignocellulosic feedstocks are available today, including agricultural residues, woody biomass, municipal waste, oilseeds/cakes and seaweed, to name a few.

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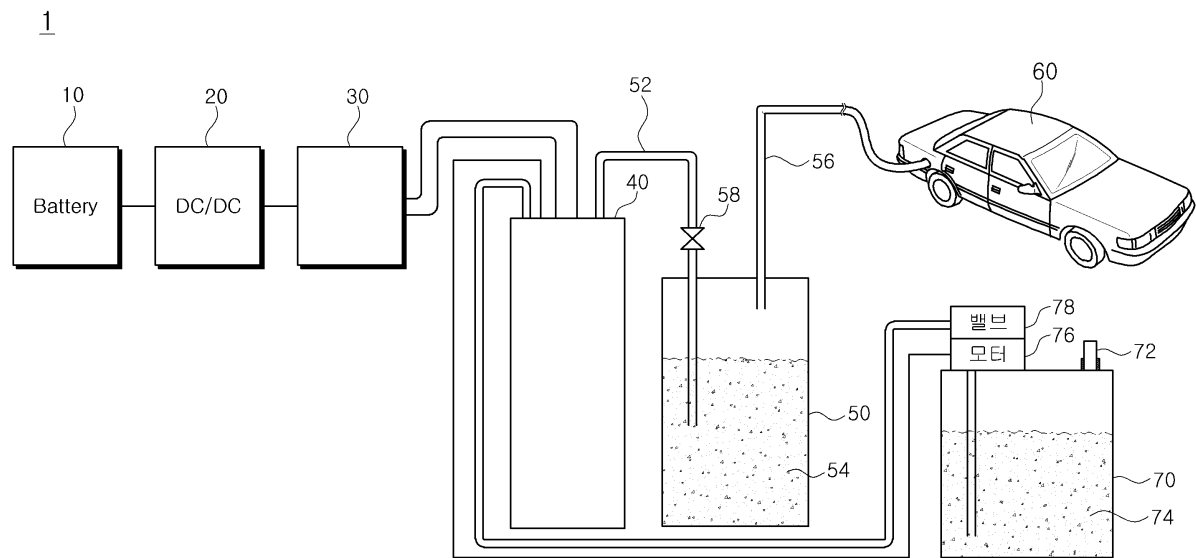
Latest standardized assignees - inventors removed

XYLECO

Family 14/15 - FAMPAT - ©Questel

Title

(KR101147565)

Mixed **gas** generator for vehicles, capable of mixing oxygen with hydrogen caused by electrolysis**Images****Publication numbers with kind code & date**[KR101147565](#)

B1 2012-05-21

KR101147565

**Abstract**

(KR101147565)

PURPOSE: A mixed **gas** generator for vehicles is provided to prevent generation of heat and rust from an electrode in the middle of electrolysis by controlling concentrations of aqueous sodium hydroxide solution.

CONSTITUTION: A mixed **gas** generator for vehicles comprises a **gas** generator(40), a level conversion unit(20), and a constant current unit(30). The **gas** generator generates the mixed **gas** by electrolyzing aqueous sodium hydroxide solution. The level conversion unit changes a voltage level applied to a **motor** vehicle battery(10). The constant current unit generates constant currents with receiving DC(Direct Current) voltages outputted from the level conversion unit and provides the constant currents to the **gas** generator.

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KANG, SAM YEOL

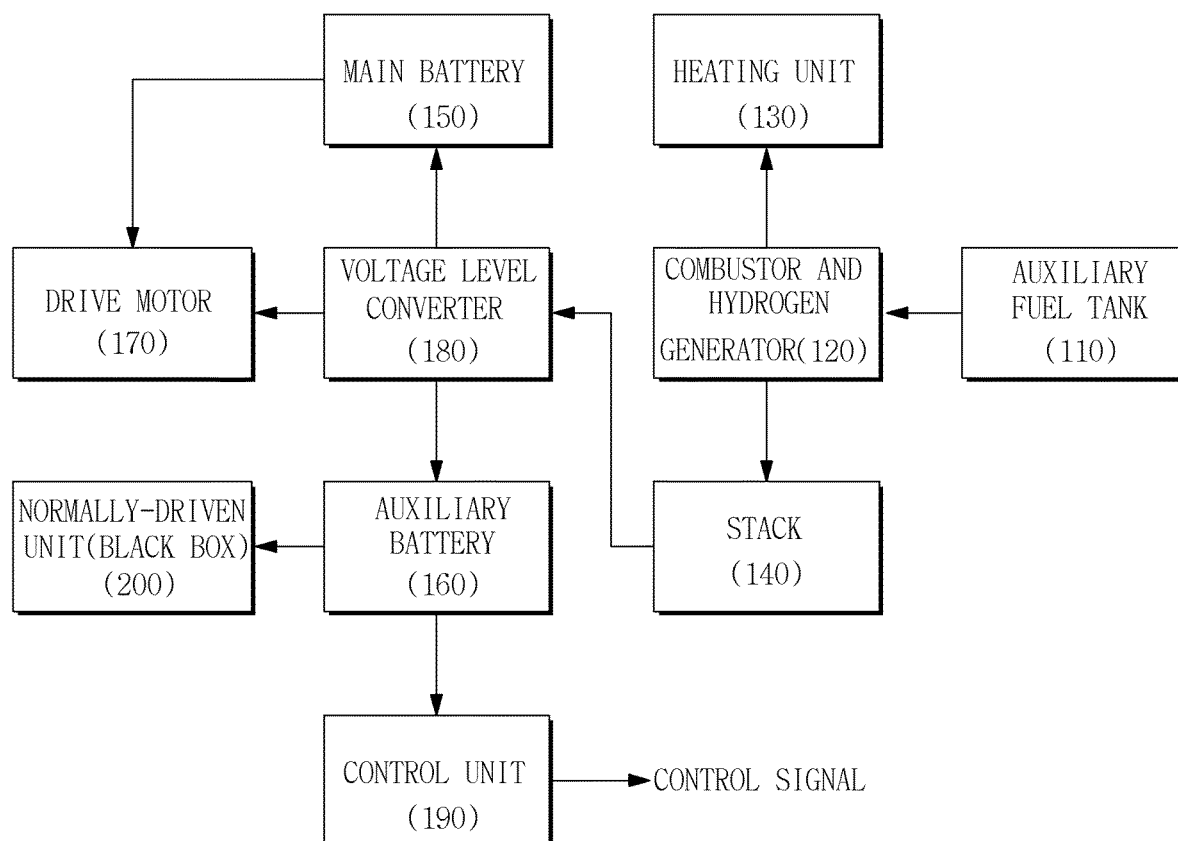
Family 15/15 - FAMPAT - ©Questel

Title

(WO2018139755)

Vehicle system having function of preventing occurrence factors of sudden unintended acceleration

Images



Publication numbers with kind code & date

US20190359199	A1	2019-11-28	US20190359199
CN110461631	A	2019-11-15	CN110461631
WO2018/139755	A1	2018-08-02	WO2018139755
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Abstract

(WO2018/139755)

The present invention provides an electric vehicle system/general vehicle system having a sudden unintended acceleration prevention function, the system comprising: an auxiliary fuel tank mounted to a vehicle; a hydrogen generation means for receiving fuel from the auxiliary fuel tank so as to generate hydrogen; a stack for receiving hydrogen generated by the hydrogen generation means so as to generate power; a voltage level change unit for changing the voltage level of power generated by the stack; a main battery and an auxiliary battery which are charged by a charging voltage output from the voltage level change unit; a control unit driven by power output from the auxiliary battery; and a drive load unit including a drive **motor** driven by power output from the main battery or the stack.

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Latest standardized assignees - inventors removed

STORAGEAN