

14 Documents

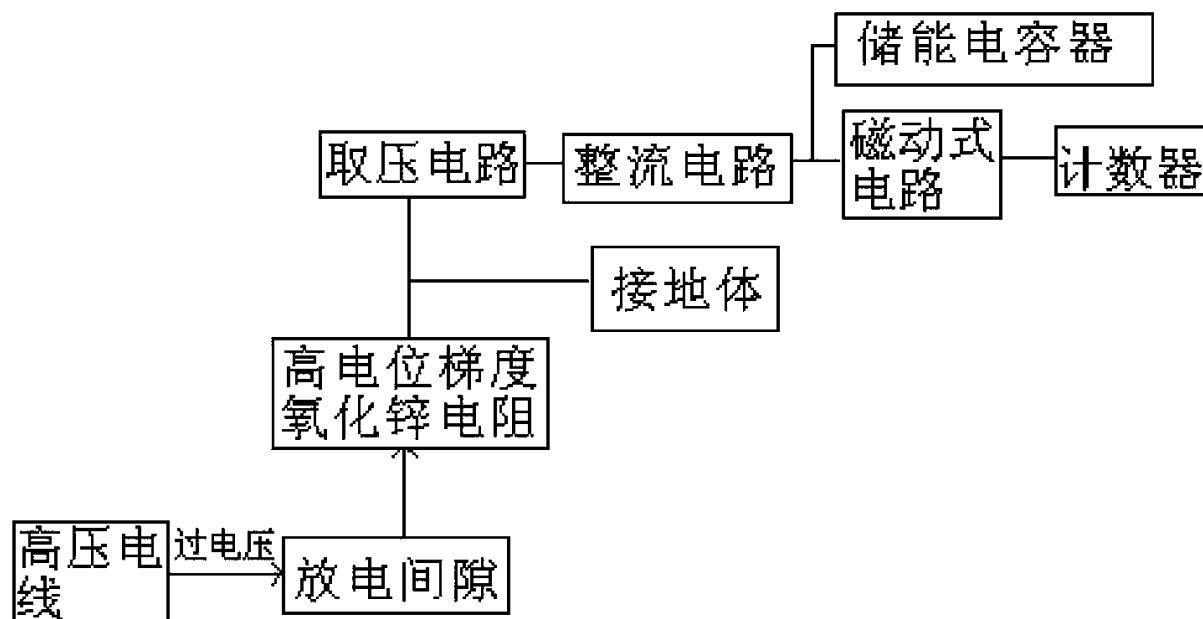
Publication numbers	Title	Current assignees
CN103078309 A	Device and method for buffering momentary wave overvoltage of power transmission line	SHANXI ELECTRIC POWER, ...
WO201096505 A1	Internally reinforced structural composites and associated methods of manufacturing	ADVANCED GREEN INNOVATIONS, ...
JP2012069345 A	Vacuum circuit breaker and switchgear	NISSHIN ELECTRIC
SE9602079 D0	A device for collecting filtrate samples from a pulp suspension	ABB SCHWEIZ
US20050120715 A1	Heat energy recapture and recycle and its new applications	CHRISTIAN SCHOOL OF TECHNOLOGY
US20100183993 A1	Shaping a fuel charge in a combustion chamber with multiple drivers and/or ionization control	MCALISTER TECHNOLOGIES, ...
US20150068889 A1	System and method for generating hydrogen and oxygen	HANSEN DON LEE
CN107834356 A	Insulator type voltage limiter with grounding function	YANTAI POWER SUPPLY, ...
CN207542564U U	Chair with a grounding function limit formula insulator of transformer	YANTAI POWER SUPPLY, ...
JP2010027213 A	Salinity difference power generation system	FUJIMURA DENSHINO GIJUTSU KENK
EP2458697 A2	Switch unit and switchgear equipped therewith	HITACHI INDUSTRIAL EQUIPMENT SYSTEMS
US20110048374 A1	Integrated fuel injector igniters with conductive cable assemblies	MCALISTER TECHNOLOGIES, ...
EP1343233 A2	Switchgear	TOSHIBA
CA2976969 A1	Devices for overvoltage, overcurrent and arc flash protection	RIPD RESEARCH & IP DEVELOPMENT

Family 1/14 - FAMPAT - ©Questel

Title

(CN103078309)

Device and method for buffering momentary wave overvoltage of power transmission line

Images**Publication data including kind & date**

CN103078309	A	2013-05-01	CN103078309
CN103078309	B	2015-11-04	CN103078309B

**Abstract**

(CN103078309B)

The invention relates to a device and a method for buffering momentary wave overvoltage of a power transmission line. The device is applied to the power transmission line, and is connected in parallel to the power transmission line together with an insulator. The device for buffering the momentary wave overvoltage of the power transmission line comprises a discharging gap, a high-potential gradient zinc oxide resistance, a voltage taking circuit, a rectifying circuit, an energy storing capacitor, a magnetomotive circuit, a clamping device and a counter. Due to the adoption of a high-potential gradient resistance sheet, the current impact capability and discharge current capability of the device are enhanced, the weight and size of the device are reduced, the long-term working condition of the resistance sheet is improved, the service life of the resistance sheet is prolonged, and damages caused by overvoltage such as lightning and operation can be well avoided.

Inventors

LI WEI
GAO MING
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XUE HUI

Latest standardized assignees - inventors removed

SHANXI ELECTRIC POWER
STATE GRID CORPORATION OF CHINA (SGCC)

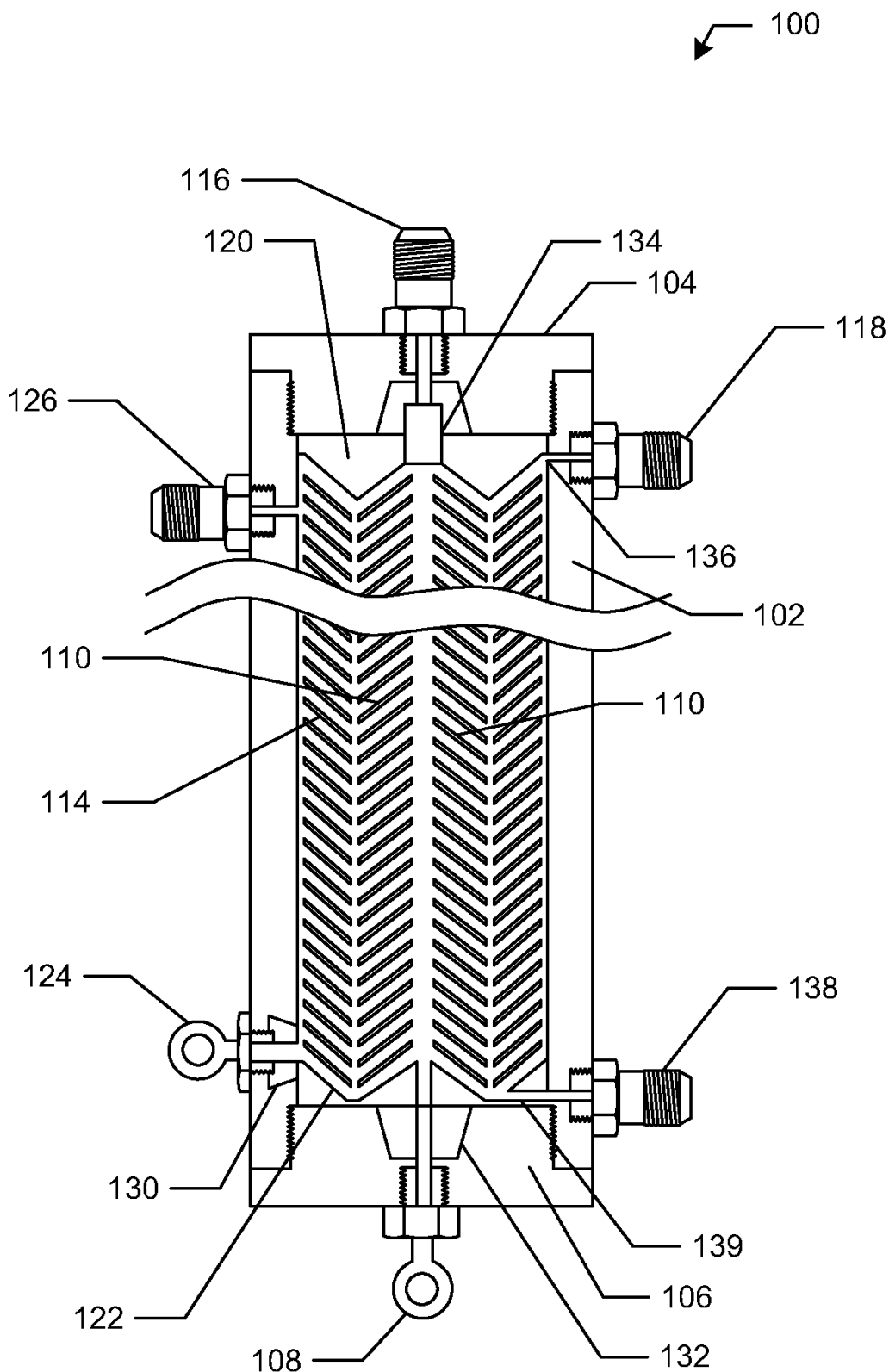
Family 2/14 - FAMPAT - ©Questel

Title

(EP2625031)

Internally reinforced structural composites and associated methods of manufacturing

Images

**Publication data including kind & date**

WO2010096505	A1	2010-08-26	WO201096505
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[BR112012020275](#)

A2 2018-04-17

BR112012020275

Abstract

(EP2625031)

Internally reinforced structural composites, suitable uses for such composites, and associated methods of manufacturing are disclosed herein. In one embodiment, a method of making a reinforced structural component includes forming a precursor having a crystal structure with a plurality of lattice layers and exfoliating the precursor. As a result, a distance between adjacent pairs of the plurality of lattice layers is expanded. The method also includes wrapping the exfoliated precursor with a surface support material around at least a portion of a circumference of the individual lattice layers in the exfoliated precursor.

Inventors

MCALISTER ROY E

Latest standardized assignees - inventors removed

ADVANCED GREEN INNOVATIONS

MCALISTER TECHNOLOGIES

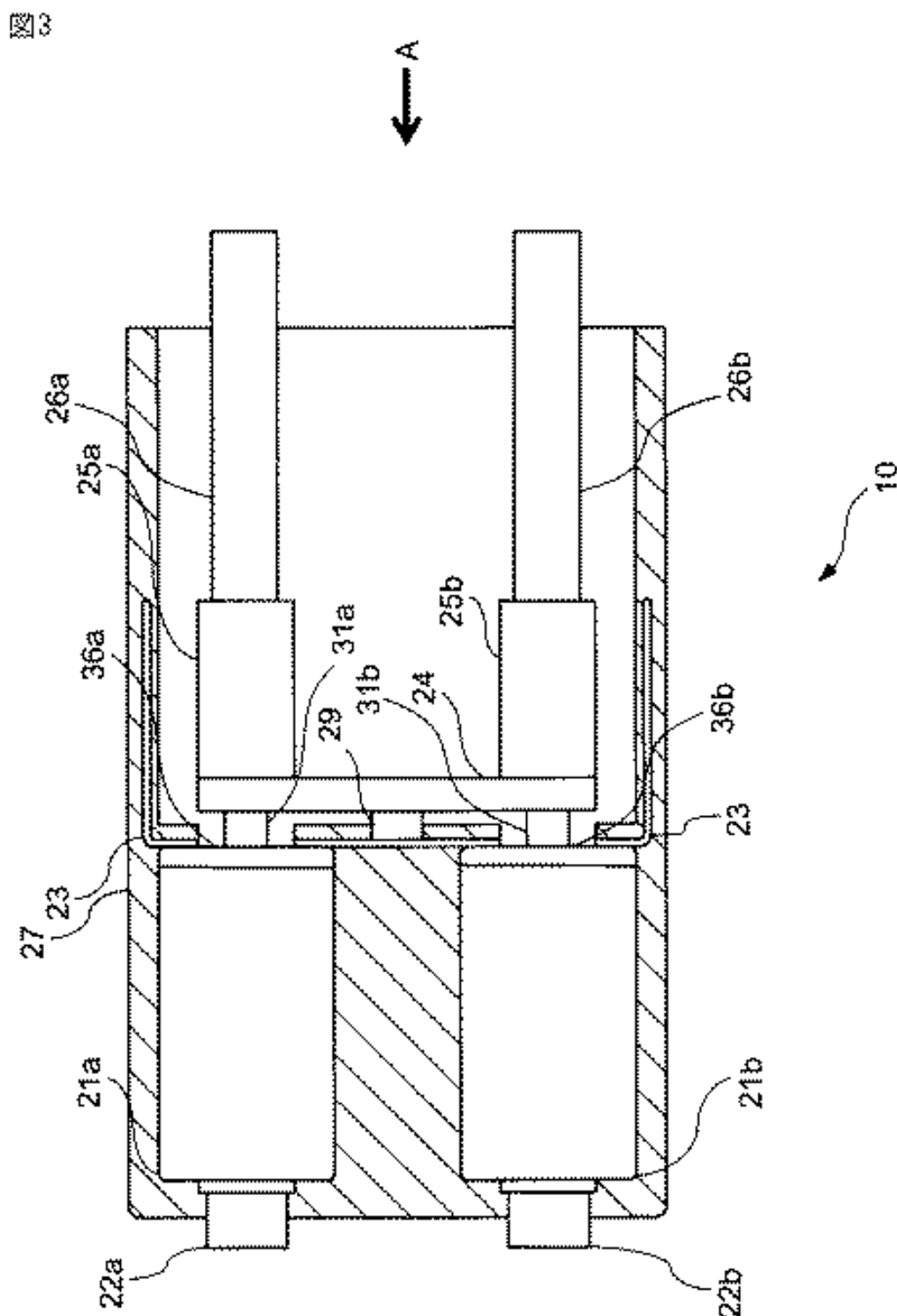
Family 3/14 - FAMPAT - ©Questel

Title

(JP2012069345)

Vacuum circuit breaker and switchgear

Images



Publication data including kind & date

[JP2012069345](#)

A

2012-04-05

JP2012069345

[JP5565236](#)

B2

2014-08-06

JP5565236



Abstract

(JP5565236)

PROBLEM TO BE SOLVED: To reduce the size of a vacuum circuit breaker by enhancing the insulation withstand voltage of a contact pressure spring mechanism arranged in the vicinity of a movable conductor. **SOLUTION:** A vacuum circuit breaker comprises: two vacuum valves 21 which have fixed conductors respectively provided, on their ends, with a pair of contact pieces forming contacts that can be brought into contact with or separated from each other, and movable conductors 31 respectively provided, on their ends, with contact pieces opposing to the pair of contact pieces; a common

conductor 24 which is electrically connected to the movable conductors of the two vacuum valves; movable operation shafts 26 which connect between an operation mechanism for operating the connection/separation of the vacuum valves and the movable conductors; contact pressure spring mechanisms 25 which are arranged in the vicinity of the connections with the movable conductors of the movable operation shafts; and a conductive box 23 which has a bottom face arranged in the vicinity of the two vacuum valves and side faces surrounding the common conductor and contact pressure spring mechanisms. The two vacuum valves and the conductive box are molded with a dielectric 27.

Inventors

OTA TAKASHI

SHIMAZAKI TOSHIO

KATO YOSHINAO

Latest standardized assignees - inventors removed

NISSHIN ELECTRIC

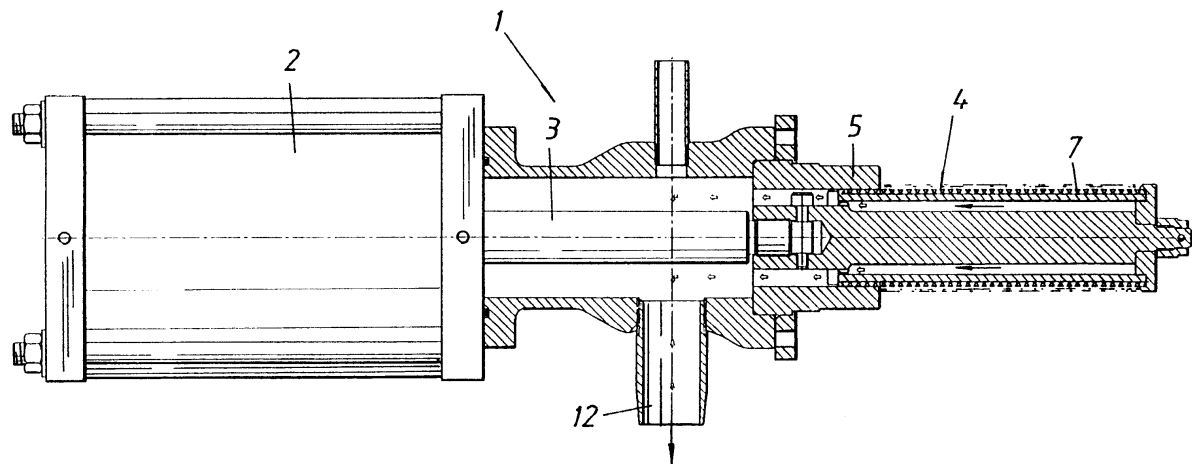
Family 4/14 - FAMPAT - ©Questel

Title

(EP1012562)

A device for collecting filtrate samples from a pulp suspension

Images



Publication data including kind & date

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IN1001/CAL/1997	A	2016-08-26	IN1997CA01001				
IN1430/DEL/1997	A	2016-08-31	IN1997DE01430				

Abstract

(EP1012562)

The invention relates to a device for collecting filtrate samples from a pulp suspension. It comprises a piston rod (3) which, when actuated by a cylinder (2), can reciprocate inside a jacket (5) and which is provided with a filter (4) arranged in an extended position to catch a sample. The filter (4) consists of a wire (6) having a triangular cross-section, the turns (8) of the wire being located close to each other and having their base surface (9) directed outwards and their converging surfaces directed inwards towards the center of the filter (4). During its retracting movement into the jacket the filter (4) is cleaned in the way that fibres which have got stuck on the filter are scraped away by the jacket.

Inventors

SK L N BENGT

Latest standardized assignees - inventors removed

ABB SCHWEIZ

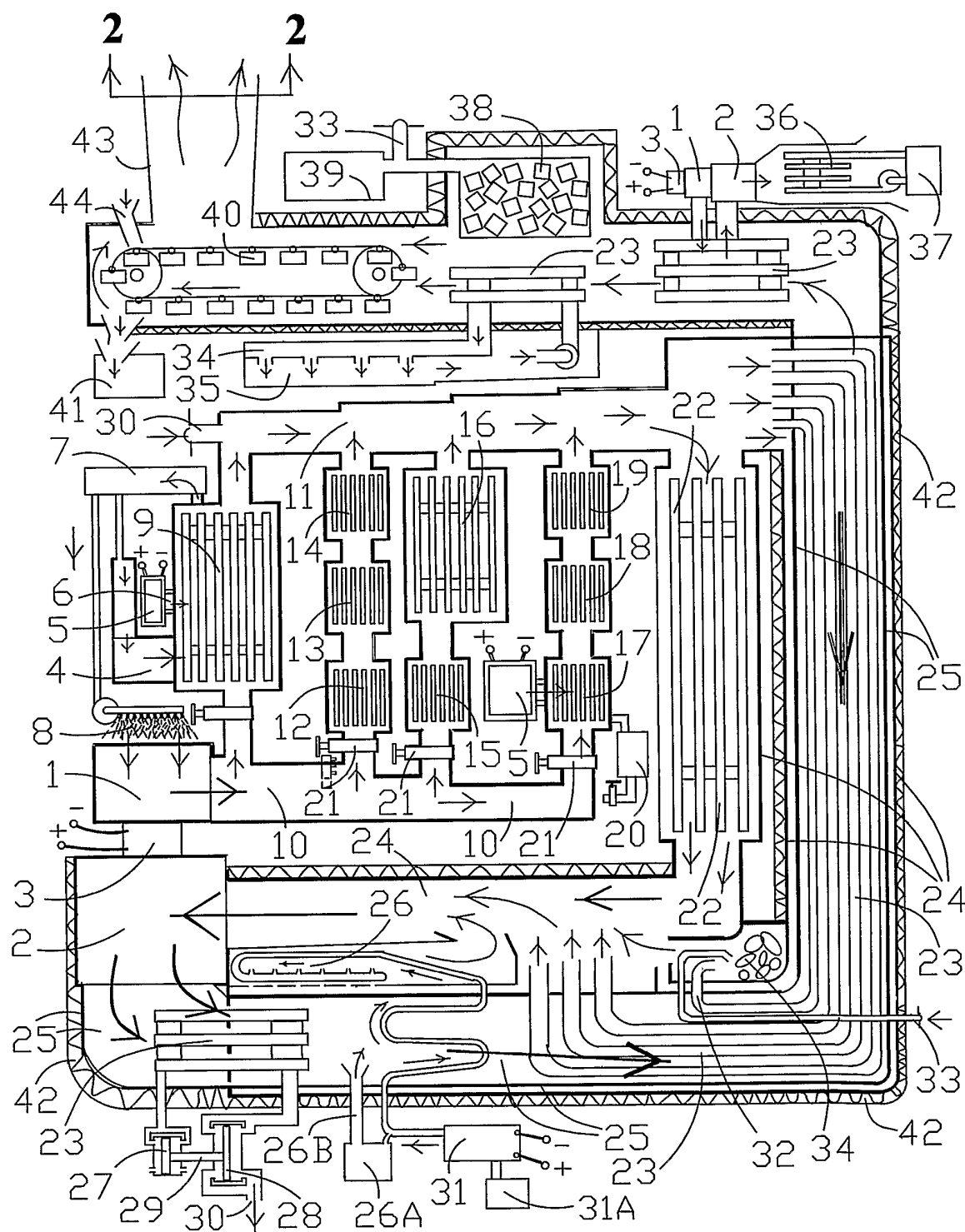
Family 5/14 - FAMPAT - ©Questel

Title

(EP1851418)

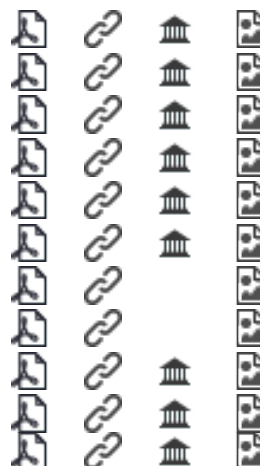
Heat energy recapture and recycle and its new applications

Images



Publication data including kind & date

US2005120715	A1	2005-06-09	US20050120715
WO2006078315	A1	2006-07-27	WO200678315
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AP200704109	A0	2007-08-31	AP200704109
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AU2005325208	B2	2012-03-29	AU2005325208				

Abstract

(EP1851418)

A heat absorbing radiator and a gas turbine engine or a reciprocating piston engine are used to recapture and reconvert wasted heat energies into electric power and finally into hydrogen-deuterium fuel by having the engine's tailpipes submerged in cold compressed air inside the heat absorbing radiator pipes in reverse air flow to further drive the same engine. In order to capture fusion heat energy a hydrogen bomb is detonated in deep ocean to catch flames by water and the hot water energizes compressed air inside heat absorbing radiator pipes. In order to produce fusion energy an electric arc is passed across liquid or gaseous deuterium by an electro-plasma torch and a sparkplug in an internal combustion engine, or by detonating dynamite inside liquid deuterium. Diamond is produced by placing carbon inside a hydrogen bomb. Deuterium fusion flame is used first in smelting glass to large sizes before running an engine.

Inventors

CHRISTIAN SCHOOL OF TECHNOLOGY

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Latest standardized assignees - inventors removed

CHRISTIAN SCHOOL OF TECHNOLOGY

Family 6/14 - FAMPAT - ©Questel

Title

(EP2927475)

Shaping a fuel charge in a combustion chamber with multiple drivers and/or ionization control

Images

CA2772044	A1	2011-03-10	CA2772044				
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CA2770415	C	2012-08-28	CA2770415				
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KR101179798	B1	2012-09-04	KR101179798				
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CN102713217	A	2012-10-03	CN102713217				
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BR112012004106	A1	2012-10-30	BR112012004106				
BR112012004092	A1	2012-10-30	BR112012004092				
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JP2013503445	A	2013-01-31	JP2013503445				
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JP2013503294	A	2013-01-31	JP2013503294				
US2013043323	A1	2013-02-21	US20130043323				
JP2013506072	A	2013-02-21	JP2013506072				
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US8635985	B2	2014-01-28	US8635985				
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CN102712540	B	2014-12-17	CN102712540B				
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CN102713236	B	2015-03-11	CN102713236B				
JP5684810	B2	2015-03-18	JP5684810				
JP5695050	B2	2015-04-01	JP5695050				
JP2015078699	A	2015-04-23	JP2015078699				
EP2470775	B1	2015-04-29	EP2470775				
EP2470773	B1	2015-04-29	EP2470773				
JP5718921	B2	2015-05-13	JP5718921				
JP5734294	B2	2015-06-17	JP5734294				
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RU2556152	C2	2015-07-10	RU2556152				
CN102713217	B	2015-07-22	CN102713217B				
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BR112012004106	A2	2018-05-22	BR112012004106				
BR112012004092	A2	2018-05-22	BR112012004092				

Abstract

(EP2927475)

The present disclosure is directed to injectors with integrated igniters providing efficient injection, ignition, and complete combustion of various types of fuels. These integrated injectors/igniters can include, for example, multiple drivers (124, 130, 140, 224) used to shape charges and controllers (126) used to modify operations based on ionization parameters.

Inventors

MCALISTER ROY E

Latest standardized assignees - inventors removed

MCALISTER TECHNOLOGIES

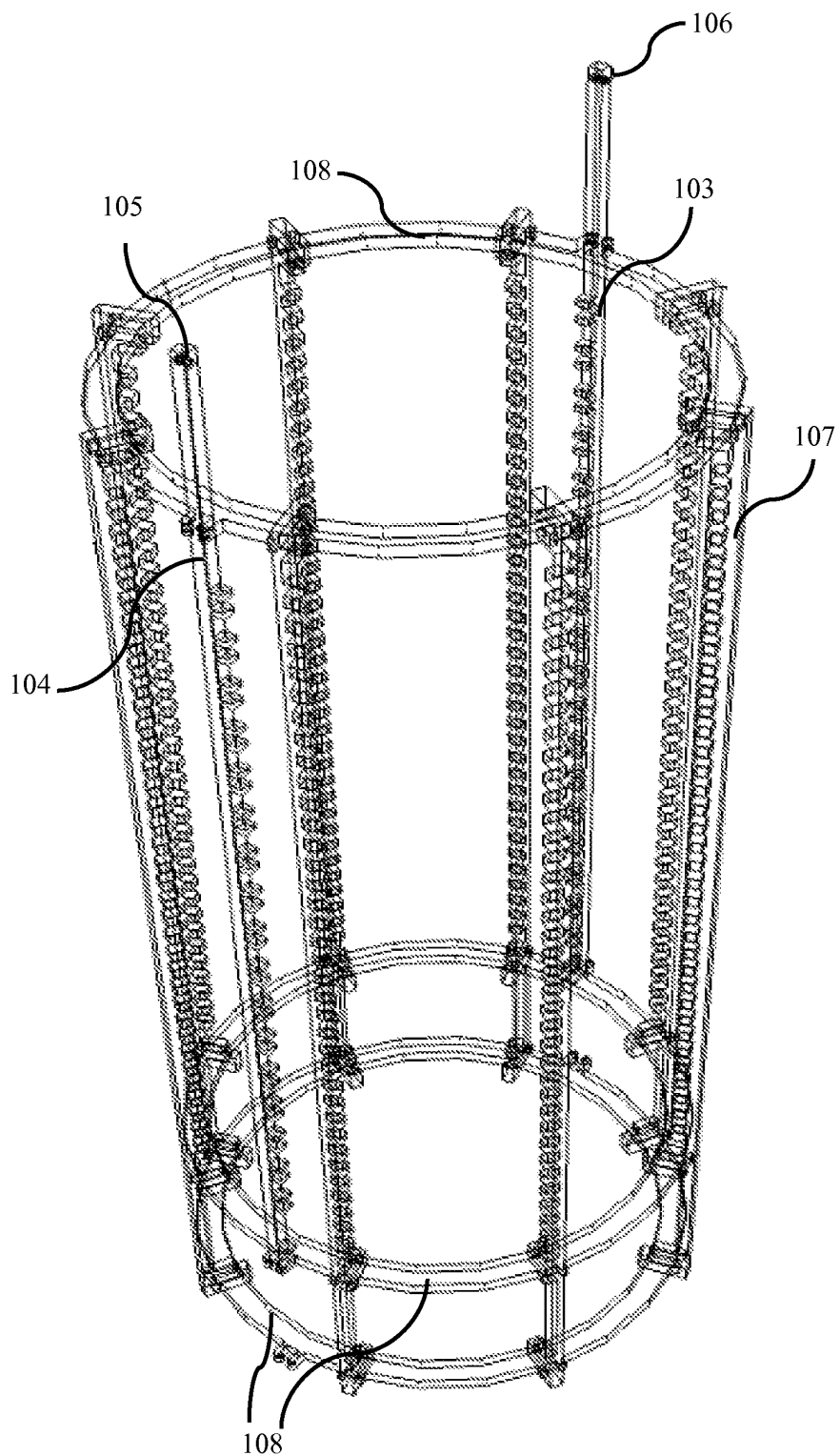
ADVANCED GREEN INNOVATIONS

Family 7/14 - FAMPAT - ©Questel

Title

(WO201742639)

System and method for generating hydrogen and oxygen

Images

US9157159	B2	2015-10-13	US9157159				
US2017067170	A1	2017-03-09	US20170067170				
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KR20180051570	A	2018-05-16	KR20180051570				
CN108138338	A	2018-06-08	CN108138338				

Abstract

(WO201742639)

The embodiments herein provide a HHO generating system and method for generating hydrogen, oxygen and methane. The system adopts electrolysis process to generate a HHO gas from a water-electrolyte solution. The system comprises a reaction tank filled with the water-electrolyte solution, a plurality of disks stacked one above another, a plurality of frames connecting to the disks and an external power supply. The disks comprise a plurality of negatively charged cathode disks and a plurality of positively charged anode disks. The plurality of frames comprises a plurality of conductive frames and a plurality of support frames configured to hold the disks. An electric current is supplied to the conducting frames so as to electrically charge the disks that react with the water-electrolyte solution to produce the HHO gas. The disks are copper-nickel alloy disks in a ratio of 70:30.

Inventors

HANSEN DON LEE

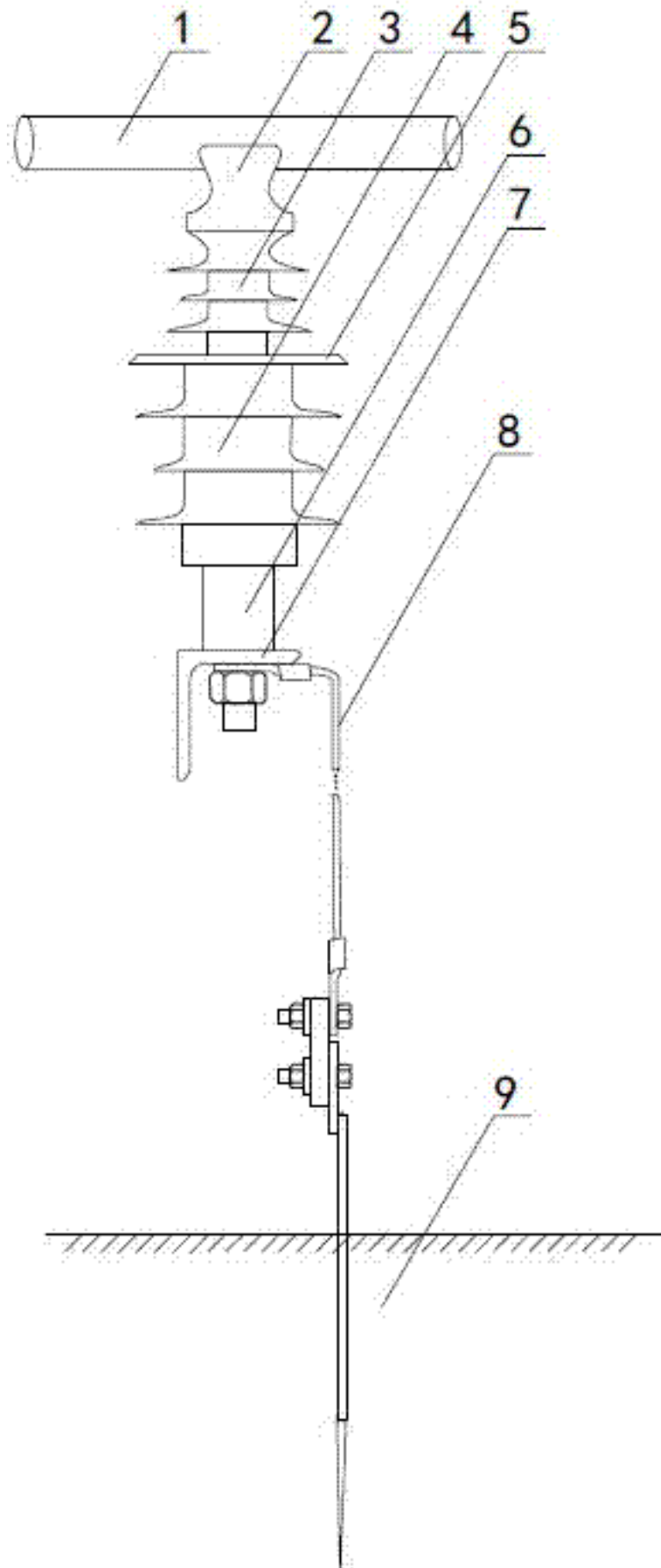
Family 8/14 - FAMPAT - ©Questel

Title

(CN107834356)

Insulator type voltage limiter with grounding function

Images

**Publication data including kind & date**[CN107834356](#)

A 2018-03-23 CN107834356

**Abstract**

(CN107834356)

The invention, which belongs to the technical field of lightning protection of the distribution line, provides an insulator type voltage limiter with the grounding function. The insulator type voltage limiter is characterized in that a bleeder part includes an insulating core rod (10); an upper armour clamp (2) and a lower armour clamp (6) are fixed at the upper end and the lower end of the insulating core rod (10) respectively; the upper armour clamp (2) supports an overhead distribution line (1); an annular electrode (5) is arranged between an insulating support section (3) and a bleeder section (4); and a plurality of valve blocks (11) are arranged between the annular electrode (5) and the lower armour clamp (6) in a contact manner. Besides, a grounding part (8) is also arranged; the lower armour clamp (6) is connected to the upper end of the grounding part (8); and the lower end of the grounding part (8) is connected to the ground (9). According to the insulator type voltage limiter, because the bleeder section with the valve blocks is arranged at the lower armour clamp, the valve blocks are insulated with the overhead distribution line in a normal state, so that the valve blocks are in a low potential state and are not in conduction until being hit by lightning strikes. Therefore, the service life of each valve block is prolonged substantially.

Inventors

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Latest standardized assignees - inventors removed

YANTAI POWER SUPPLY

STATE GRID CORPORATION OF CHINA (SGCC)

SHANDONG UNIVERSITY OF TECHNOLOGY

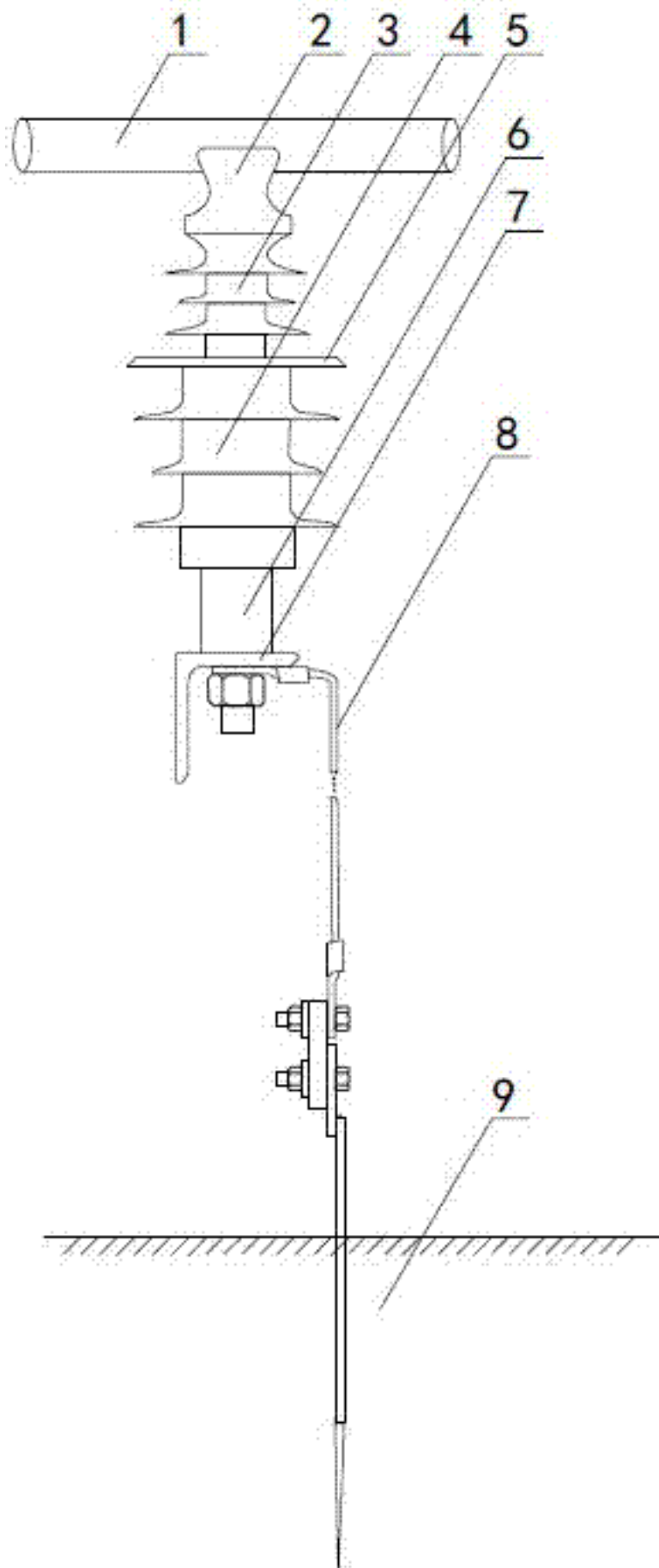
Family 9/14 - FAMPAT - ©Questel

Title

(CN207542564U)

Chair with a grounding function limit formula insulator of transformer

Images

**Publication data including kind & date**[CN207542564](#)

U

2018-06-26

CN207542564U

**Abstract**

(CN207542564U)

A band limit formula an insulator having a grounding function as transformers, lightning technology belongs to the field of power distribution lines. Characterized in: a drain portion includes a dielectric mandrel (10), on an insulating mandrel (10) upper, and lower ends, are respectively fixed with the upper and lower metal (2) tool-used (6), in which the upper gold (2) supporting overhead distribution (1) lines are arranged between the photocathode and a discharge section (4), an annular pole (5) piece (3) and the lower ring-shaped electrode (5) sheets (11) is provided with a plurality of close contact between the rod-used (6); **valve** is also provided with a grounding portion (8), a grounding portion (8), which connects the lower end of the rod-used (6). the lower access earth (9) Insulator type with grounding function of the voltage limiter in this, leakage of the lower section being disposed in the fitting office comprising a **valve** plate, so that the **valve** plate in a normal state and the overhead distribution lines are insulated, so that the **valve** plate is at low potential, when subjected to a lightning strike only conducts, greatly prolongs the useful life of the flap.

Inventors

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Latest standardized assignees - inventors removed

YANTAI POWER SUPPLY

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SHANDONG UNIVERSITY OF TECHNOLOGY

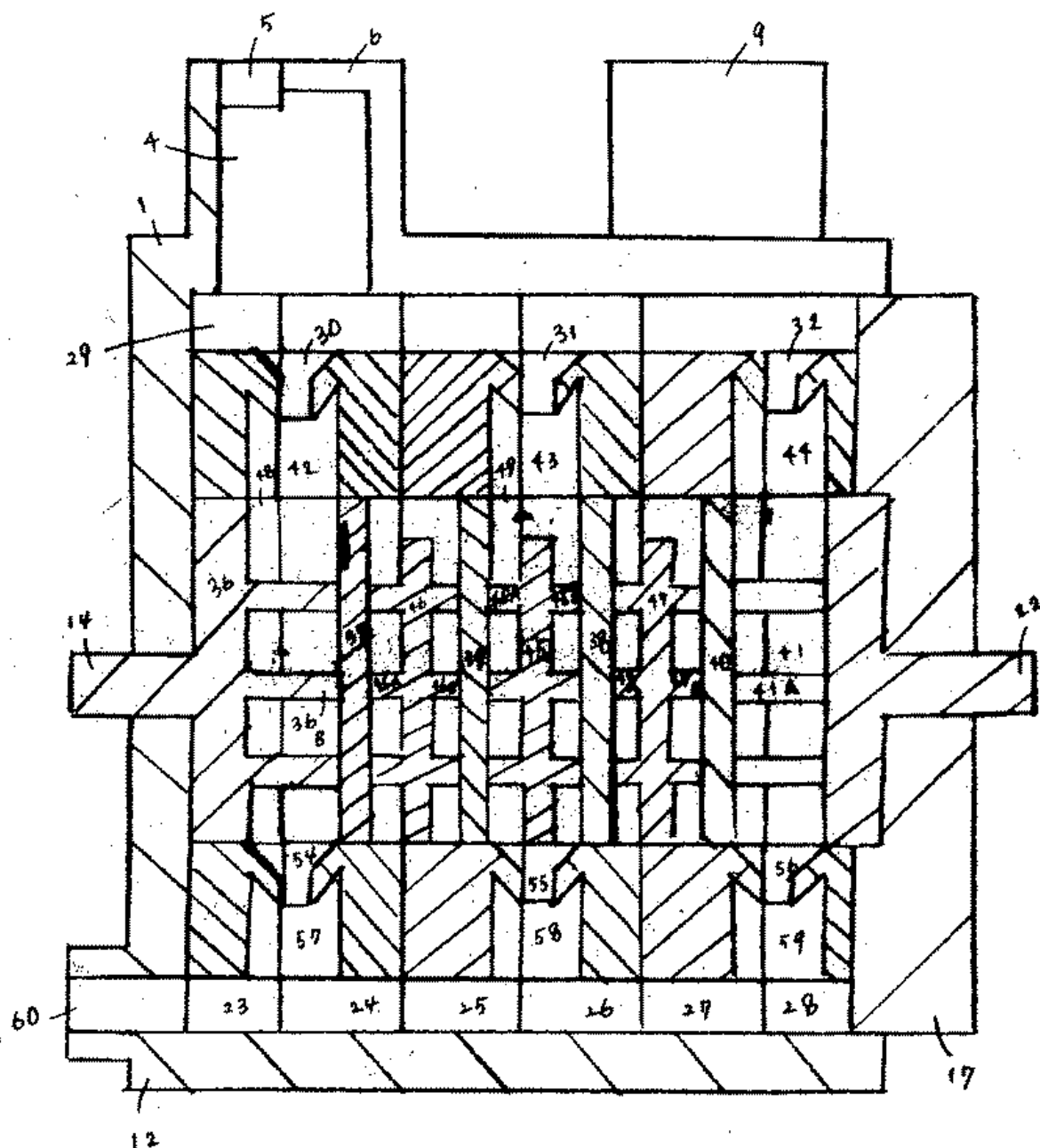
Family 10/14 - FAMPAT - ©Questel

Title

(JP2010027213)

Salinity difference power generation system

Images



Publication data including kind & date

JP2010027213

A

2010-02-04

JP2010027213



Abstract

(JP2010027213)

PROBLEM TO BE SOLVED: To take out a large capacity of electrical energy and easily obtain optional high voltage with a compact system in a power generation system utilizing salinity difference between fresh water in rivers or the like and salt water in seas or the like, both of which exist almost infinitely.

SOLUTION: The system uses such a configuration that electric short-circuit through a water-supply channel and a water-discharge channel is prevented by falling fresh water and salt water as water drops respectively to utilize the insulation performance of air or by interposing a **valve** using a **valve** body, a **valve** seat and a **valve** box, all of which are made of an insulating material, and thereby, electric short-circuit between a plurality of cells generating unit electromotive force is prevented.

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Inventors

FUJIMURA AKIHIRO

Latest standardized assignees - inventors removed

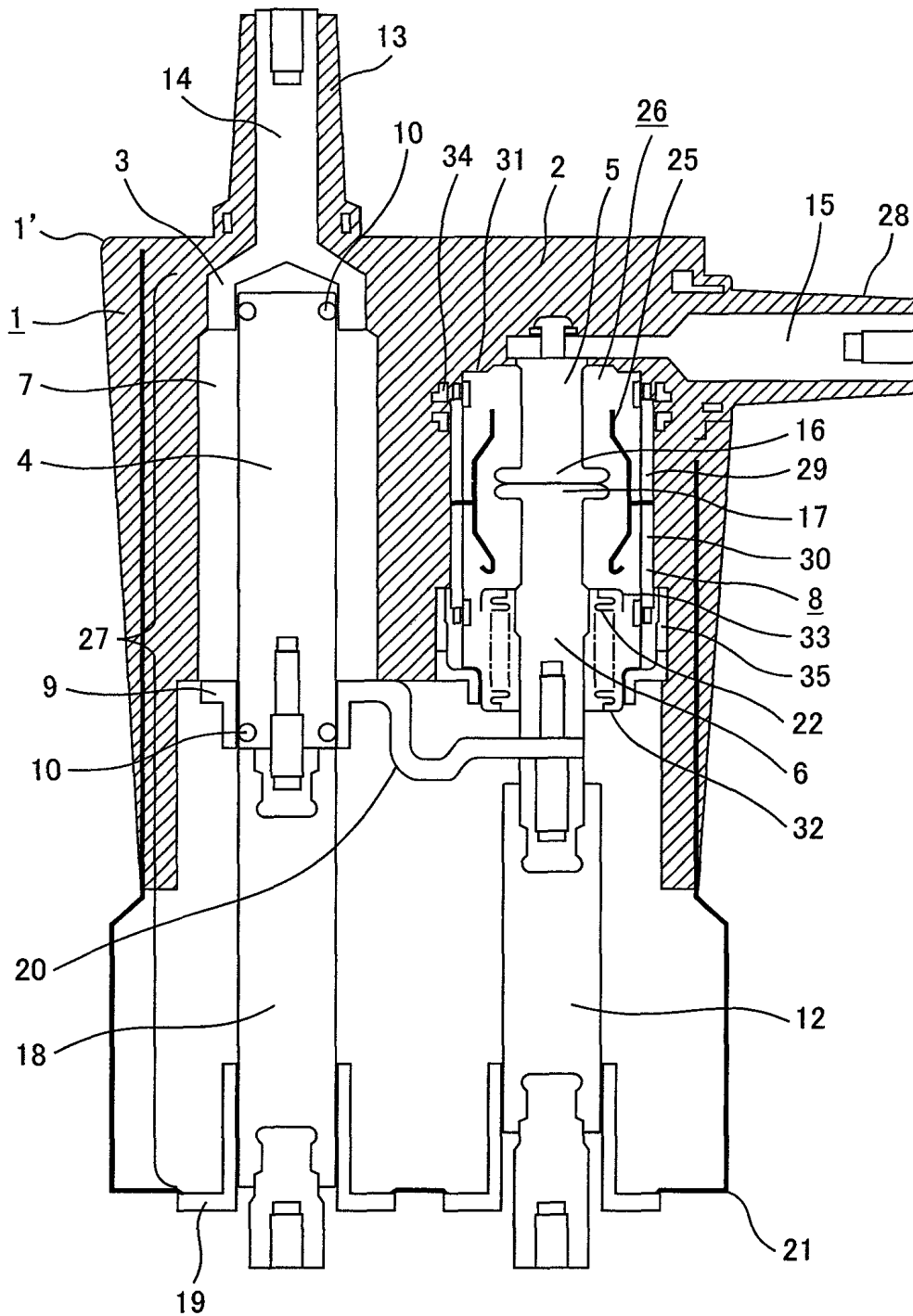
FUJIMURA DENSHINO GIJUTSU KENK

Family 11/14 - FAMPAT - ©Questel

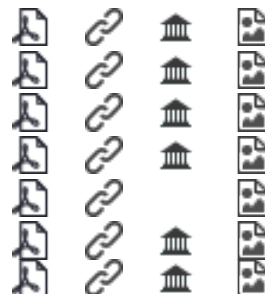
Title

(EP2458697)

Switch unit and switchgear equipped therewith

Images**Publication data including kind & date**

EP2458697	A2	2012-05-30	EP2458697
US2012132622	A1	2012-05-31	US20120132622
KR20120059401	A	2012-06-08	KR20120059401
JP2012119102	A	2012-06-21	JP2012119102
SG181273	A1	2012-06-28	SG-181273
CN102543557	A	2012-07-04	CN102543557



TW201244312	A	2012-11-01	TW201244312				
IN3331/DEL/2011	A	2013-02-01	IN2011DE03331				
KR101267214	B1	2013-05-24	KR101267214				
EP2458697	A3	2014-01-01	EP2458697				
JP5423657	B2	2014-02-19	JP5423657				
TWI445269	B	2014-07-11	TWI445269				
US8872054	B2	2014-10-28	US8872054				
CN102543557	B	2015-07-29	CN102543557B				
HK1171562	A1	2015-12-18	HK1171562				
EP2458697	B1	2016-07-20	EP2458697				
IN297954	B	2018-06-29	IN-297954				

Abstract

(EP2458697)

In order to improve cooling performance of a switch unit or switchgear equipped with the switch unit, the switch unit (46) includes a switch (26) having a movable electrode (17) and a fixed electrode (16) and is casted as one body with a resin (2), the resin is provided with resin fins (1, 41), and the thickness of the resin fin is changed so that the resin fin has a thickness sloped in the longitudinal direction of the resin fin.

Inventors

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MORITA AYUMU

UTSUMI TOMOAKI

Latest standardized assignees - inventors removed

HITACHI INDUSTRIAL EQUIPMENT SYSTEMS

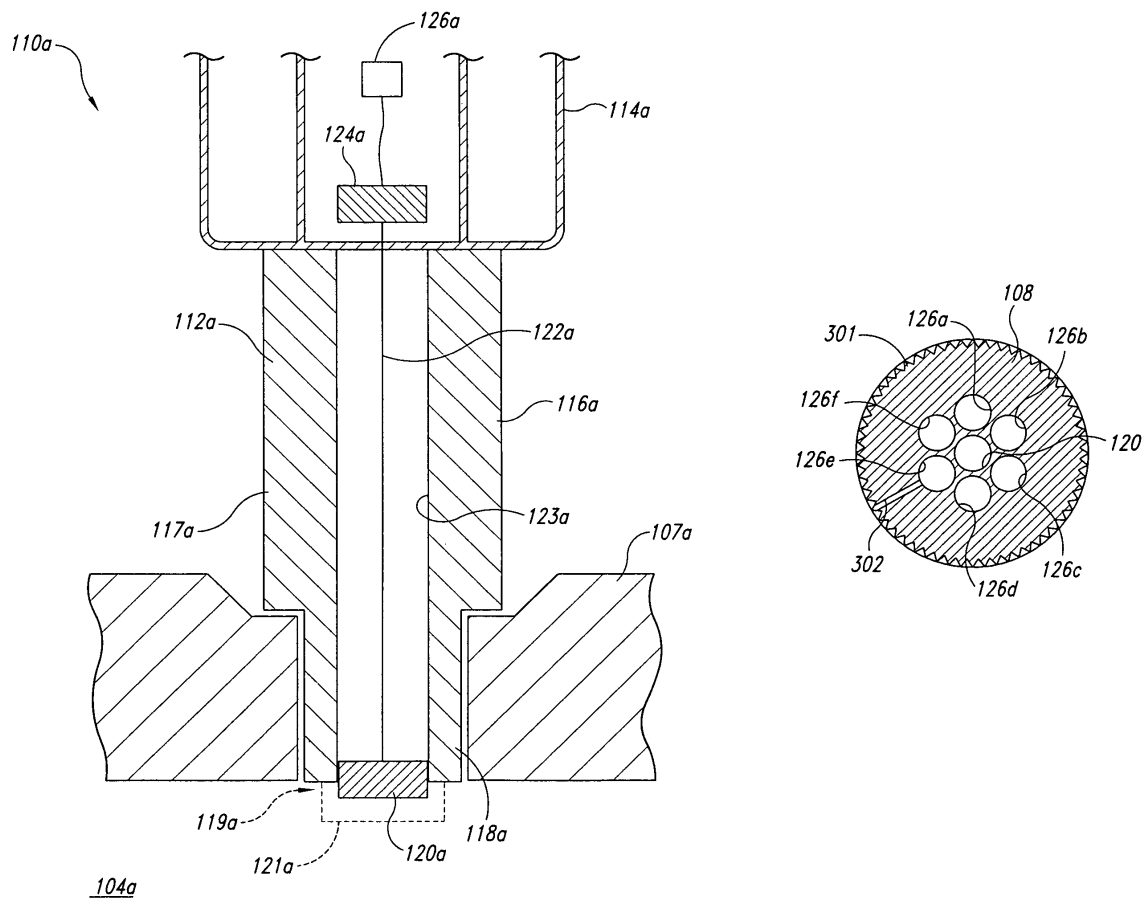
Family 12/14 - FAMPAT - ©Questel

Title

(US8413634)

Integrated fuel injector igniters with conductive cable assemblies

Images



Publication data including kind & date

US2011048374	A1	2011-03-03	US20110048374
US2011048381	A1	2011-03-03	US20110048381
US2011057058	A1	2011-03-10	US20110057058
US2011056458	A1	2011-03-10	US20110056458
US8074625	B2	2011-12-13	US8074625
US8365700	B2	2013-02-05	US8365700
US8387599	B2	2013-03-05	US8387599
US8413634	B2	2013-04-09	US8413634



Abstract

(US8413634)

The present disclosure is directed to a fuel injector assembly including a valve and a cable assembly for actuating the valve. The cable can include a plurality of strands, and each strand can be an optical fiber, an electrical conductor, or a tensile member capable of withstanding a tensile stress caused when the valve actuator actuates the valve, or any combination thereof. The cable can also include a brush bearing with bristles extending from the cable to maintain the cable at least generally centered within a channel as the cable moves in the channel. The bristles can be electrically conductive and can convey a voltage to an electrode pair near the valve to ionize at least a portion of the fuel to urge the fuel from the injector through the valve.

Inventors

MCALISTER ROY E

Latest standardized assignees - inventors removed

MCALISTER TECHNOLOGIES

ADVANCED GREEN INNOVATIONS

Family 13/14 - FAMPAT - ©Questel

Title

(EP1343233)

Switchgear

Images

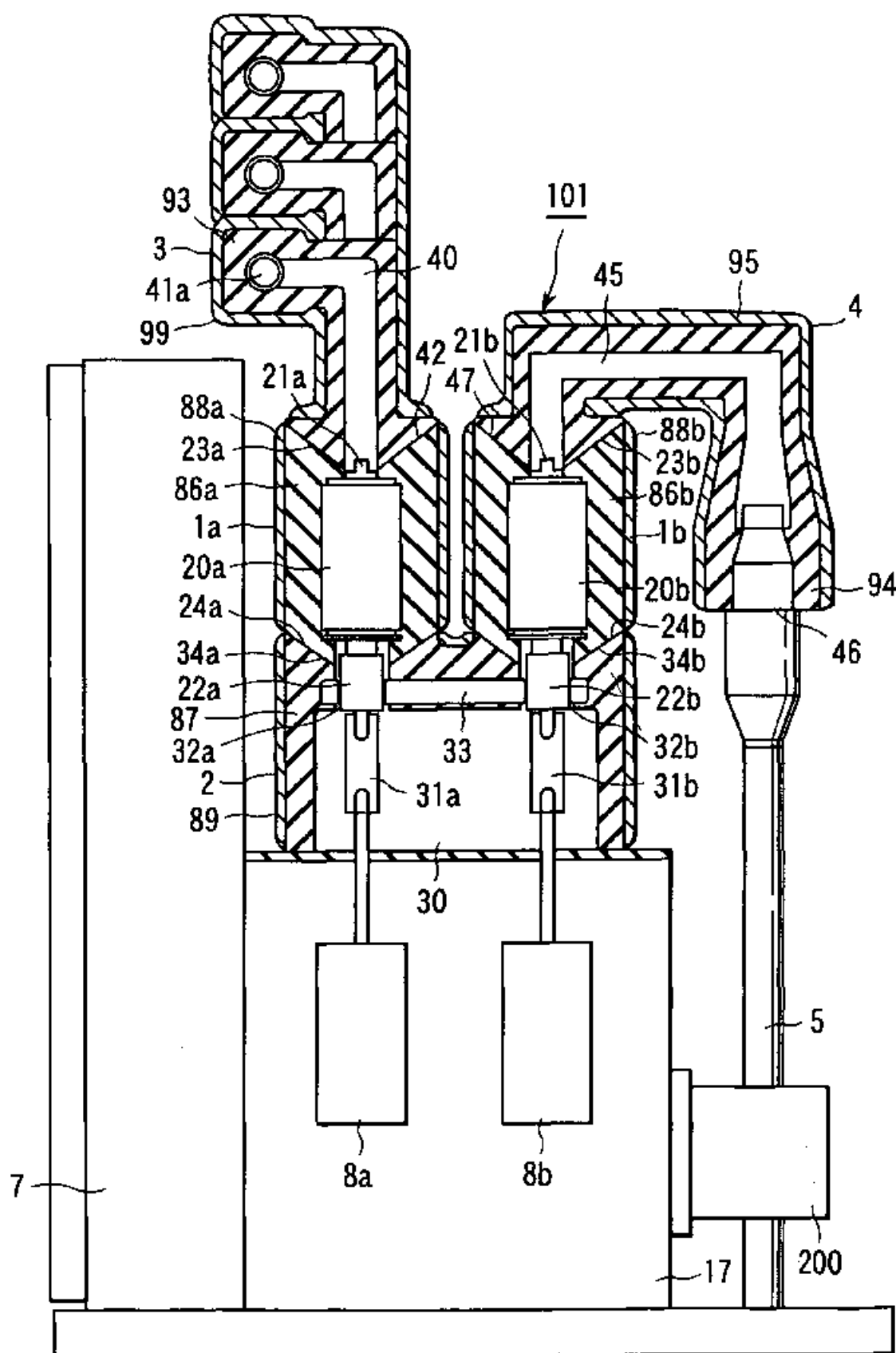


FIG. 1

EP1343233	A2	2003-09-10	EP1343233				
CN1442939	A	2003-09-17	CN1442939				
KR20030074236	A	2003-09-19	KR20030074236				
JP2003333715	A	2003-11-21	JP2003333715				
EP1343233	A3	2004-12-22	EP1343233				
KR100528584	B1	2005-11-16	KR100528584				
CN1319232	C	2007-05-30	CN1319232C				
JP4247009	B2	2009-04-02	JP4247009				
EP1343233	B1	2014-04-23	EP1343233				

Abstract

(EP1343233)

The present invention provides a switch gear that can be easily introduced. A switch gear according to the present invention comprises a plurality of components (1a and 2) respectively including a switch gear constituting equipment, an insulating section to insulate the switch gear constituting equipment, and a joining section to join the switch gear constituting equipment in a vertical direction. The components (1a and 2) are joined together in the vertical direction. <IMAGE>

Inventors

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Latest standardized assignees - inventors removed

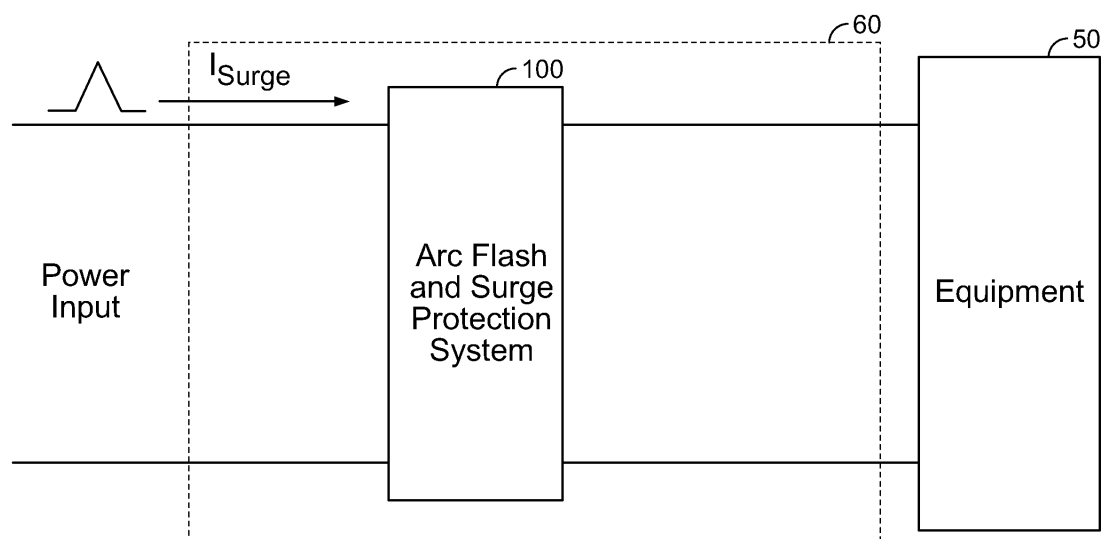
TOSHIBA

Family 14/14 - FAMPAT - ©Questel

Title

(EP3259818)

Devices for overvoltage, overcurrent and arc flash protection

Images

Publication data including kind & date

CA2976969	A1	2016-09-22	CA2976969				
US2016276821	A1	2016-09-22	US20160276821				
WO2016146086	A2	2016-09-22	WO2016146086				
WO2016146086	A3	2017-01-12	WO2016146086				
EP3259818	A2	2017-12-27	EP3259818				
CN107636925	A	2018-01-26	CN107636925				

Abstract

(EP3259818)

A crowbar module includes first and second electrical terminals, a module housing, and first and second crowbar units. The first crowbar unit is disposed in the module housing and includes a first thyristor electrically connected between the first and second electrical terminals. The second crowbar unit is disposed in the module housing and includes a second thyristor electrically connected between the first and second electrical terminals in electrical parallel with the first crowbar unit.

Inventors

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BAKATSIAS KOSTAS

Latest standardized assignees - inventors removed

RIPD RESEARCH & IP DEVELOPMENT