

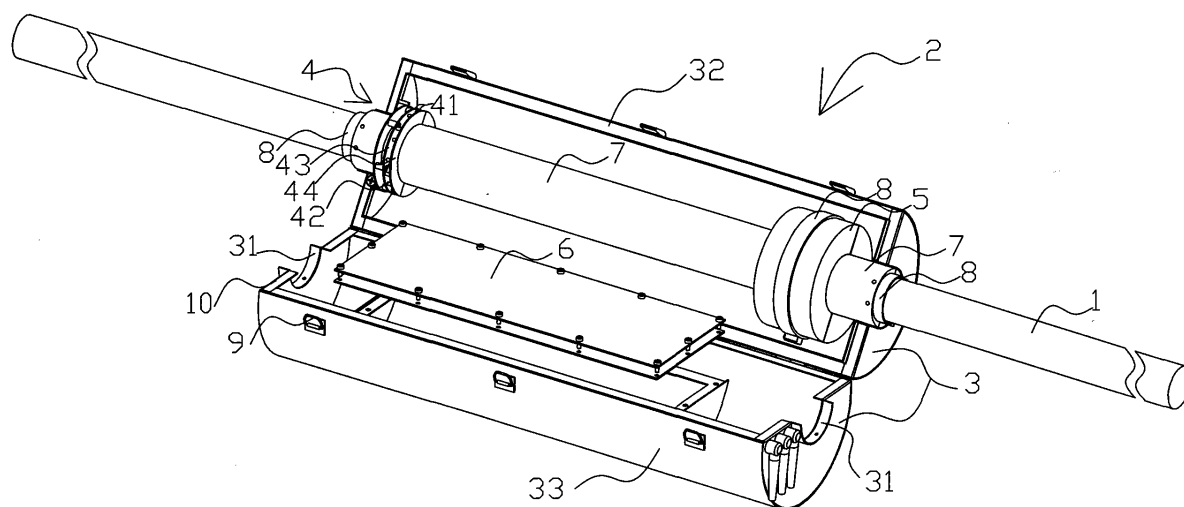
20 Documents

Publication numbers	Title	Current assignees
CN101923109 A	Lightning waveform monitoring system for power transmission line leads	HANGZHOU YINENG LIGHTNING PROTECTION TECHNOLOGY
CN201666913U	Lightning strike waveform monitoring system of power transmission line poles and towers	NINGBO ELECTRIC POWER BUREAU, ...
EP2163140 A2	Device to attenuate atmospheric discharges	MARTINEZ JOHN J
CN104124993 A	Thunder and lightning warning device and communication base station	WUHAN IRON & STEEL
EP-564334 A1	Device for detecting and indicating a fault current in an arrester or insulator.	SEDIWER SOCIETE EUROPEENNE D ISOLATEURS EN VERRE & COMPOSITE
RU2009119876 A	Method and device for applying atmospheric electricity	RUSSIAN ACADEMY OF AGRICULTURAL SCIENCES
EP1222732 A2	Non-saturating magnetic element(s) power converters and surge protection	ONLINE POWER SUPPLY
US20120147509 A1	TBF Compatible with Input Power Including GFCI	EMERGE POWER SOLUTIONS D SMART POWER SYSTEMS
EP1952206 A2	Power line coupling device and method of using the same	CHEMTRON RESEARCH
CN206617885U	Solar street lamp system	CHENGXU ELECTRIC
CN107062138 A	Solar street lamp system	CHENGXU ELECTRIC
FR2635272 A1	DEVICE FOR PRESSING AND DEHYDRATING SLUDGE OR FILTER, SUSPENSIONS OF FIBERS OR OF CELLULOSE	ANDRITZ
FR1106212 A	Unbootable interference	
EP1711648 A2	Apparatus and method for the conversion of water into a new gaseous and combustible form and the combustible gas formed thereby	HYDROGEN TECHNOLOGY APPLIC
US20190252873 A1	Protective Wiring Device	PASS & SEYMOUR
EP1334502 A1	Circuit interrupting device	LEVITON MANUFACTURING
EP2286205 A1	Auto-synchronous fluorescence detection method and apparatus	MACQUARIE UNIVERSITY
CN2546851U	Compound type sensor	LIU JINSHENG
EP2668658 A1	Ac power conditioning circuit	USES
CN101301931 A	Method and apparatus for manufacturing compound vortex and compound vortex aircraft	QUAN LI

Family 1/20 - FAMPAT - ©Questel

Title

(CN101923109B)

Lightning waveform monitoring system for power transmission line leads**Images****Publication numbers with kind code & date**

CN101923109	B	2012-09-26	CN101923109B
CN101923109	A	2010-12-22	CN101923109

**Abstract**

(CN101923109)

The patent refers to the field of 'measuring electric variables or magnetic variables'. The transmission line wire is struck by **lightning** the undulate monitoring system, involve the **lightning** protection field of the electric system. The wire exists between **lightning** current sensor and host computer of the undulate monitoring system to strike by **lightning** at present, unsafe, interstar connection trouble, operation are tedious; And it is offered that the host computer power is stiff the solar energy, it is of great impact to receive the weather, install the fixed trouble, it is unsafe to expose the wire. This invention includes the host computer and can characterized by with the conjunctive server of the mainframe network: This system also includes the multiple extension that links with main frame communication, including being can receive, monitor chassis at the circuit with lie in chassis can open one's mouth in order to receive annular **lightning** current sensor in monitoring circuit while being inner stated extension, the ones that linked with **lightning** current sensor were struck by **lightning** the module and wireless module of acquisition of signal; Also have very open end ring that can fetch the mutual inductor in the stated chassis, the stated one can fetch the induced electricity that the mutual inductor obtain offers the power for inner electricity consumption module of the same chassis after a rectification, voltage regulating module. It installs, convenient maintenance, it is reliable to work.

Inventors

LIU XILIN

XIAO ZHONGGEN

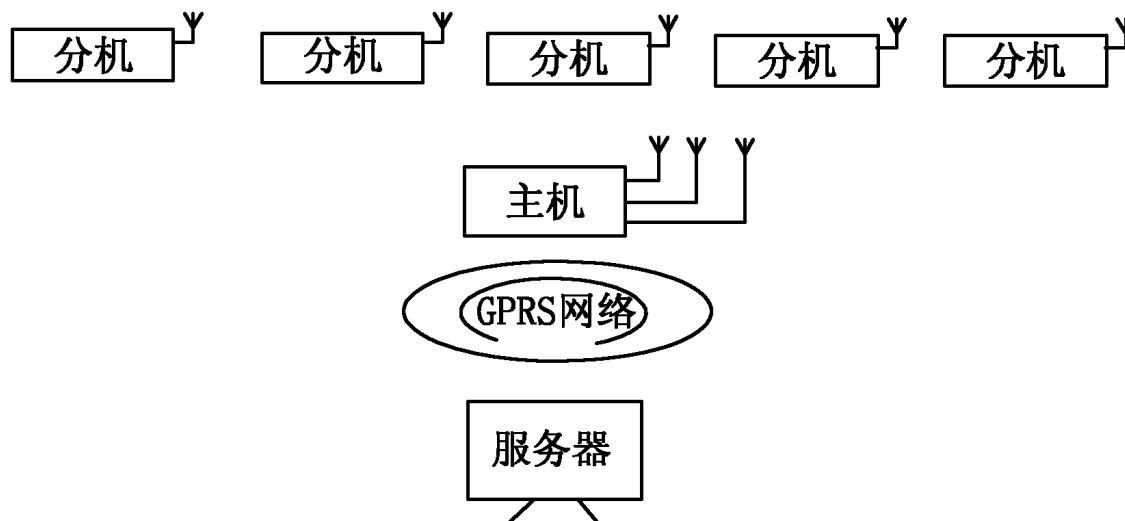
Latest standardized assignees - inventors removedHANGZHOU YINENG **LIGHTNING** PROTECTION TECHNOLOGY

Family 2/20 - FAMPAT - ©Questel

Title

(CN201666913U)

Lightning strike waveform monitoring system of power transmission line poles and towers**Images**



Publication numbers with kind code & date

CN201666913 U 2010-12-08 CN201666913U



Abstract

(CN201666913)

Disclosed is a **lightning** strike waveform monitoring system of power transmission line poles and towers, which relates to the **lightning** proof field of electric equipment of electric systems. At present, electric energy of an auxiliary unit and a mainframe of the **lightning** strike waveform monitoring device system of power transmission line poles and towers is provided by a solar panel, the solar panel is greatly influenced by weather, insufficient charge capacity may be caused, the equipment can not run normally, and the installation is troublesome on continuous cloudy or rainy days. The monitoring system comprises the mainframe, a server capable of connecting with the mainframe network and a plurality of auxiliary units communicated and connected with the mainframe, and is characterized in that: the monitoring system is provided with a wind motor, electric energy output by the wind motor is stored in storage batteries of an auxiliary unit box and a mainframe box by leads, and provides a power supply for an electricity utilization module in the same case through a voltage regulation module. Adopting wind energy for power generation can avoid the disadvantage that the system can not operate on cloudy or rainy days for a long time caused by aging of the storage batteries after long-time running on the network; and the wind power generation technique is mature, the cost is relatively low in renewable energy resources.

Inventors

WANG LUN

HUANG XIAOMING

YU ZHANGSHUI

CAO JIONG

ZHANG JIAN

XIAO ZHONGGEN

Latest standardized assignees - inventors removed

NINGBO ELECTRIC POWER BUREAU

HANGZHOU YINENG **LIGHTNING** PROTECTION TECHNOLOGY

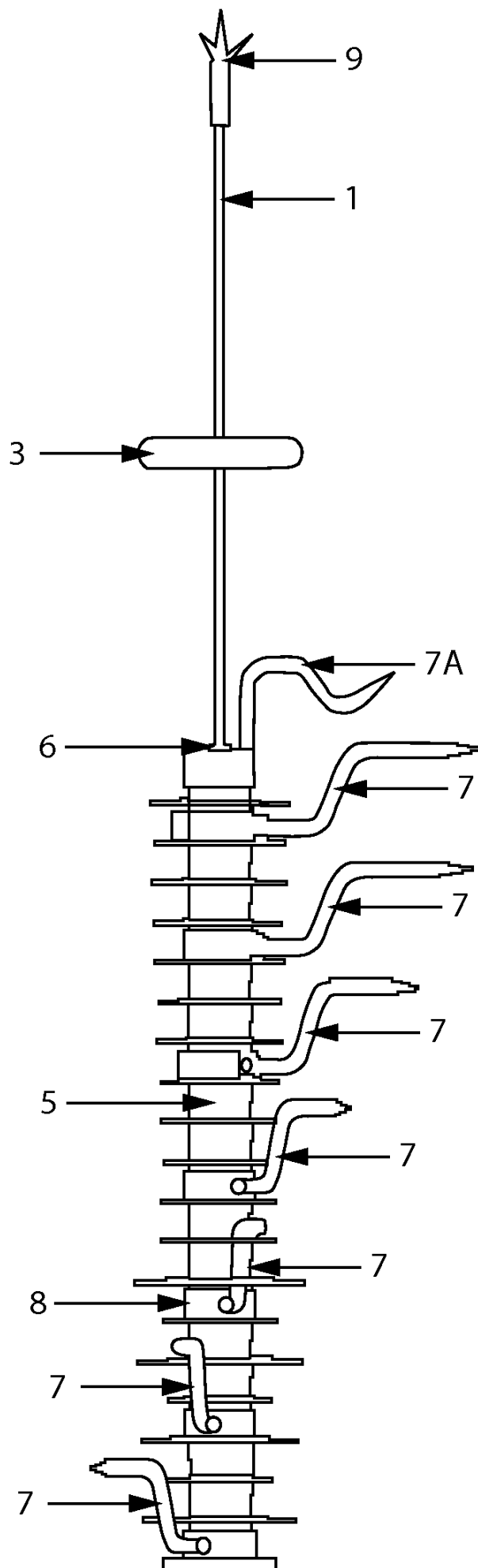
Family 3/20 - FAMPAT - ©Questel

Title

(EP2163140)

Device to attenuate atmospheric discharges

Images



Publication numbers with kind code & date

BRPI0811344	A2	2015-06-16	BR200811344				
HK1143022	A1	2014-01-03	HK1143022				
CN101690415	B	2013-03-27	CN101690415B				
EA015840	B1	2011-12-30	EA--15840				
US7786377	B2	2010-08-31	US7786377				
JP2010529609	A	2010-08-26	JP2010529609				
IN4572/KOLNP/2009	A	2010-08-13	IN2009KN04572				
EA200971145	A1	2010-04-30	EA200971145				
CN101690415	A	2010-03-31	CN101690415				
EP2163140	A2	2010-03-17	EP2163140				
AR066838	A1	2009-09-16	AR--66838				
CO6020013	A1	2009-03-31	CO6020013A1				
PE03392009	A1	2009-03-26	PE200900339				
WO2008/149208	A3	2009-02-19	WO2008149208				
US20090000802	A1	2009-01-01	US20090000802				
CA2693030	A1	2008-12-11	CA2693030				
WO2008/149208	A2	2008-12-11	WO2008149208				
CL2008001610	A1	2008-08-01	CL1610200800				

Abstract

(EP2163140)

The invention of the present application provides a device that comprises an assembly of a **toroid** (3) and a **rod** (1) with one or several pointed ends; and a **filter** system (7) wherein, around the pointed end or the pointed ends of the **rod**, an electrical field is formed with air ionization, wherein in the space around the **toroid** formation of electrical fields and air ionization are minimized, wherein the pointed end projects out above the **toroid** level, and wherein the **filter** system attenuates the electrical discharge of **lightning** rays. The device of the present invention is connected to a low resistance cable that goes to ground.

Inventors

ARENAS BARRAGAN HUMBERTO

Latest standardized assignees - inventors removed

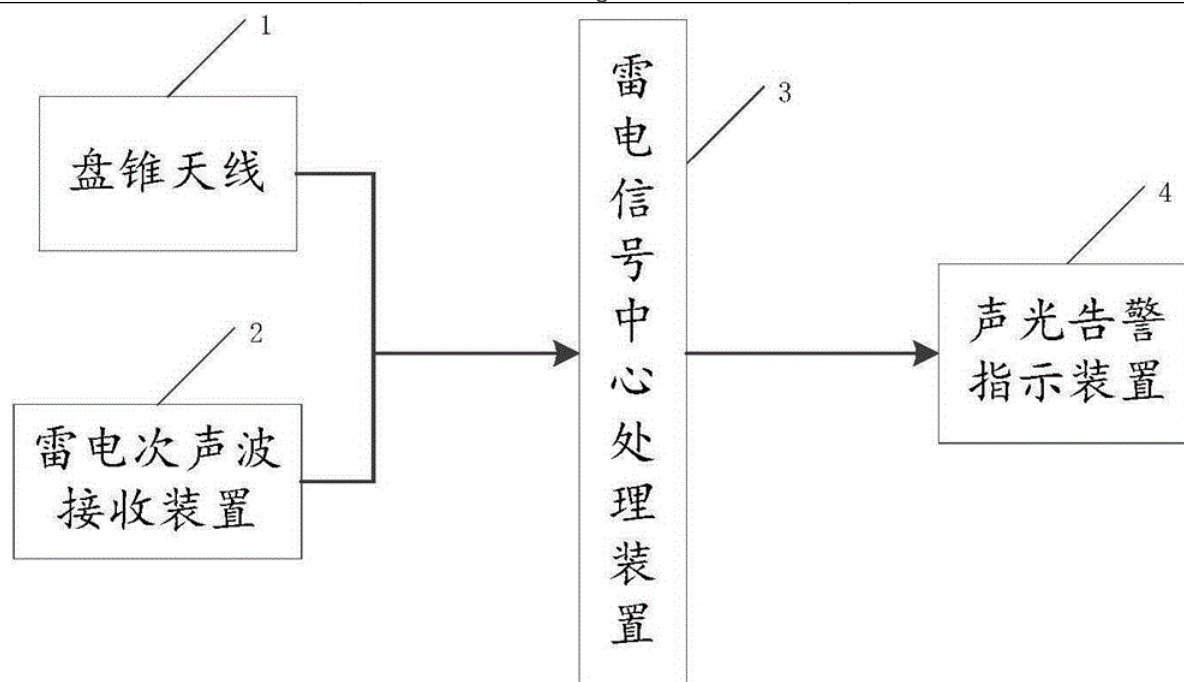
MARTINEZ JOHN J

Family 4/20 - FAMPAT - ©Questel

Title

(CN104124993)

Thunder and **lightning** warning device and communication base station**Images**



Publication numbers with kind code & date

CN104124993	B	2016-07-06	CN104124993B
CN104124993	A	2014-10-29	CN104124993



Abstract

(CN104124993)

The invention discloses a thunder and lightning warning device and a communication base station. The thunder and lightning warning device comprises disccone antennas, a thunder and lightning infrasonic wave receiving device, a central thunder and lightning signal processing unit, and an audible and visual warning indication device. Through comprehensively processing and logically analyzing and judging the electromagnetic wave signal and infrasonic wave signal of the thunder and lightning, the thunder and lightning can be pre-warned precisely, and the actual distance between the thunder and lightning and the communication base station is forecast to confirm the threat level of the thunder and lightning to the communication base station and send audible and visual thunder and lightning warning signals so as to effectively remind and alert a monitoring personnel (or central control equipment) to actively cut off electric equipment and power supply lines before the thunder and lightning. The thunder and lightning warning device changes the traditional anti-thunder mode of the communication base station and changes the passive bleed type thunder prevention into active defense type thunder prevention, and accordingly the damage rate of the electric equipment of the communication base station due to lightning stroke is greatly lowered. The thunder and lightning warning device is capable of meeting the anti-thunder safety requirement of the communication base station, actively protects the sensitive electronic communication equipment of the communication base station and enables the comprehensive thunder and lighting forecasting and protecting abilities of the communication base station to be effectively improved.

Inventors

CHEN QIANQIAN
SONG SHIWEI
FANG YUAN

Latest standardized assignees - inventors removed

WUHAN IRON & STEEL

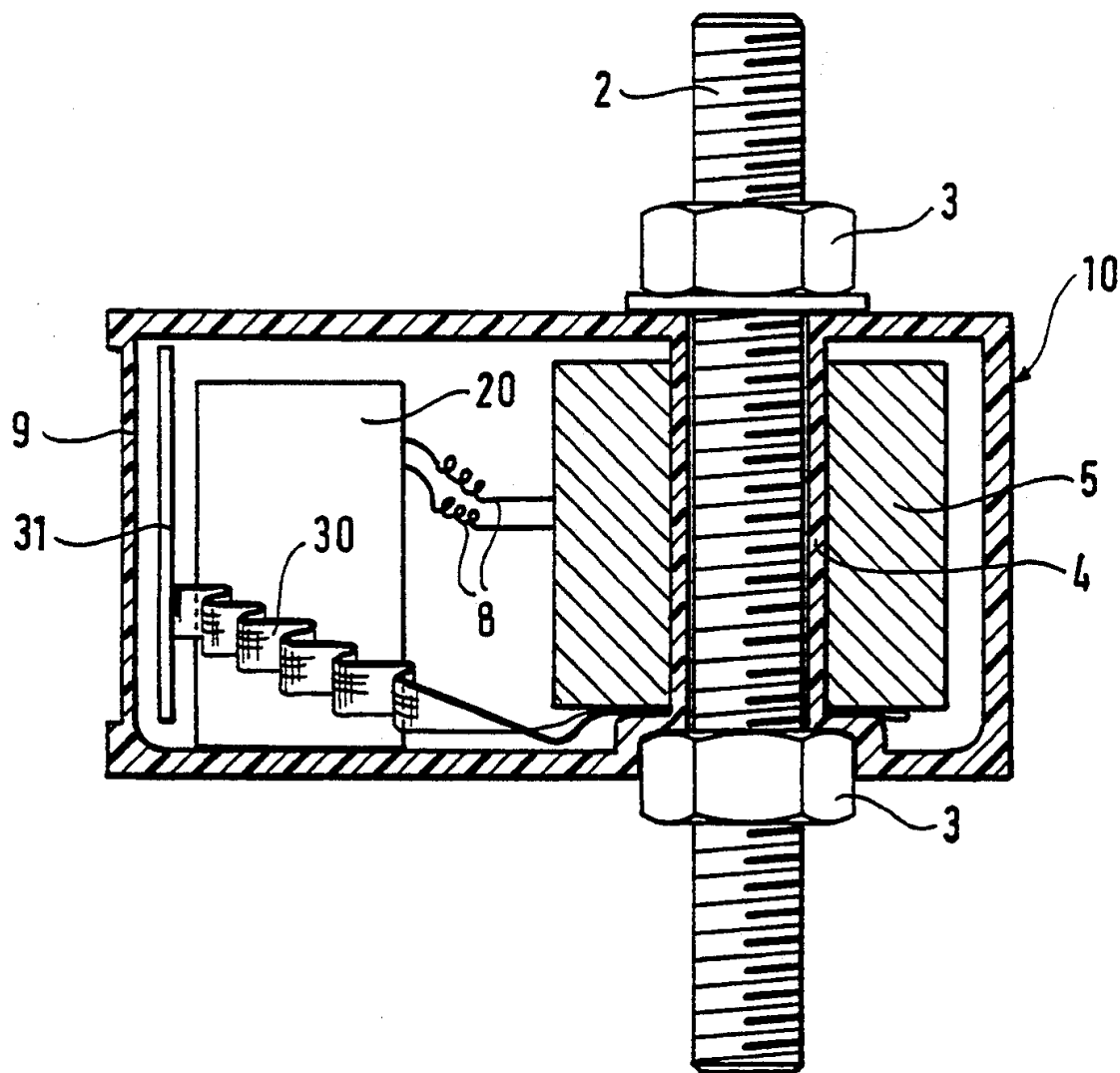
Family 5/20 - FAMPAT - ©Questel

Title

(EP-564334)

Device for detecting and indicating a fault current in an arrester or insulator.

Images



Publication numbers with kind code & date

BRPI9301343	B1	2002-04-30	BR9301343
JP3032398	B2	2000-04-17	JP3032398
NO304400	B1	1998-12-07	NO-304400
CA2092873	C	1996-07-30	CA2092873
DE69300752	T2	1996-04-04	DE69300752
DE69300752	D1	1995-12-14	DE69300752
AT130130	T	1995-11-15	ATE130130
EP0564334	B1	1995-11-08	EP-564334
US5373242	A	1994-12-13	US5373242
JP06140211	A	1994-05-20	JP06140211
MX9301743	A	1994-01-31	MX9301743
AU3554393	A	1993-10-07	AU9335543
EP0564334	A1	1993-10-06	EP-564334
BR9301343	A	1993-10-05	BR9301343
CA2092873	A1	1993-10-01	CA2092873
NO931106	L	1993-10-01	NO-931106
BRPI9301343	A1	1993-05-11	BR9301343
NO931106	D0	1993-03-25	NO9301106



Abstract

(EP0564334)

A device according to the invention comprises, in a housing (10) incorporating a metal part (2) integral with an end fitting of the arrester (1), or of the insulator, and equipped with a breakable window: - a transformer of the said current whose primary consists of the said metal part (2), and whose secondary is connected to a peak-limiter circuit for rendering inoperative current pulses due in particular to **lightning** strikes, - a heating resistor powered by the said transformer and constituting an igniter for a pyrotechnic substance in which it is embedded, the said substance being intended to fracture the said breakable window, - and preferably an indicating means (30) which can be freed by the fracturing of the said breakable window.

Inventors

JOULIE RENE

PARRAUD RENE

TARTIER SERGE

Latest standardized assignees - inventors removed

SEDIVER SOCIETE EUROPEENNE D ISOLATEURS EN VERRE & COMPOSITE

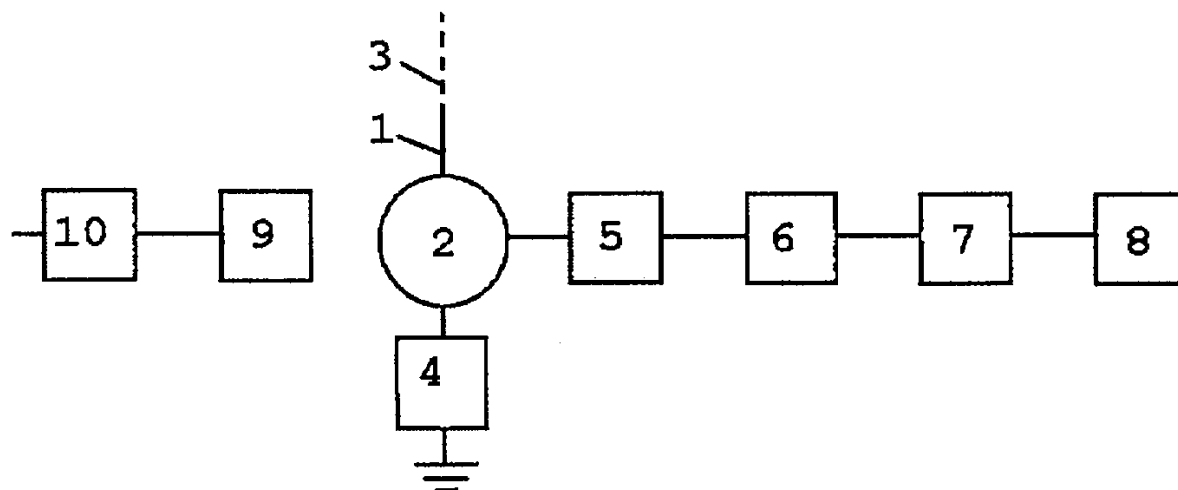
Family 6/20 - FAMPAT - ©Questel

Title

(RU2414106)

Method and device for applying atmospheric electricity

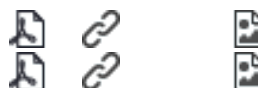
Images



Фиг.1

Publication numbers with kind code & date

RU2414106	C2	2011-03-10	RU2414106
RU2009119876	A	2010-12-10	RU2009119876



Abstract

(RU2009119876)

FIELD: instrument making.

SUBSTANCE: energy of electric field of atmosphere is converted to energy of ascending stream of air ions, ionised stream is supplied to the charge integrator of atmospheric electricity and stored electric energy is transmitted through the key at resonance frequency through the resonance reducing transformer to the consumer. Device for using atmospheric electricity includes vertically installed conductor connected to the earthing device, electric energy pickup element and semiconductor switch. At that, vertically installed conductor is made in the form of active **lightning** conductor and includes converter of electric field energy to ionised ascending stream of air ions. Pickup element includes charge integrator of atmospheric electricity, which is connected to converter made in the form of controlled pulse switch connected through resonance reducing transformer to load.

EFFECT: enlarging functional capabilities.

5 cl, 5 dwg

Inventors

STREBKOV, DMITRY SEMENOVICH

NEKRASOV ALEKSEJ IOSIFOVICH

ROSHCHIN OLEG ALEKSEEVICH

JUFEREV LEONID JUR EVICH

TRUBNIKOV VLADIMIR ZAKHAROVICH

Latest standardized assignees - inventors removed

RUSSIAN ACADEMY OF AGRICULTURAL SCIENCES

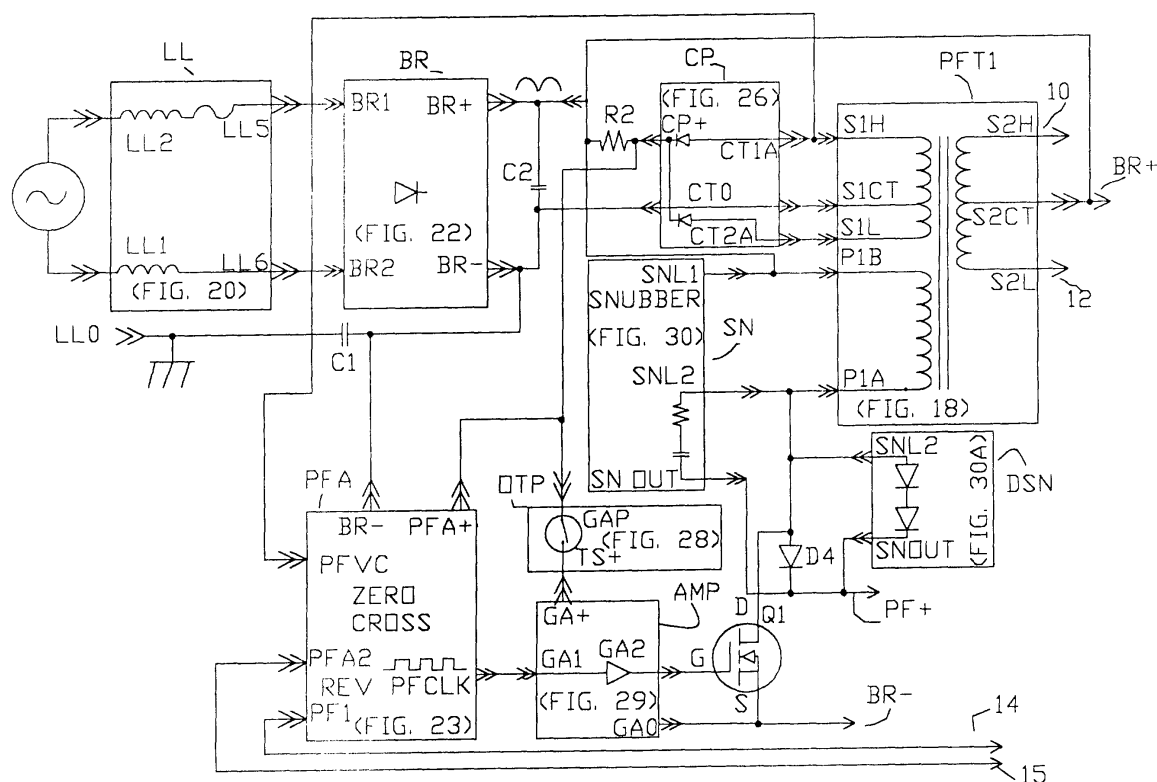
Family 7/20 - FAMPAT - ©Questel

Title

(EP1222732)

Non-saturating magnetic element(s) power converters and surge protection

Images



Publication numbers with kind code & date

IN0413/KOLNP/2002	A	2016-08-26	IN2002KN00413				
JP2003511999	A	2003-03-25	JP2003511999				
CN1391719	A	2003-01-15	CN1391719				
IL148862	A	2002-09-12	IL-148862				
EP1222732	A2	2002-07-17	EP1222732				
KR20020038789	A	2002-05-23	KR20020038789				
WO01/26207	A3	2002-01-17	WO200126207				
AU7715000	A	2001-05-10	AU200077150				
CA2385145	A1	2001-04-12	CA2385145				
WO01/26207	A2	2001-04-12	WO200126207				

Abstract

(EP1222732)

Single, multistage, and distributed magnetic switched and tank resonant power conversion systems utilizing NSME. The

NSME provide, superior protection to conducted **lightning** transients, superior thermal operating bandwidth, higher magnetizing efficiency, greater flux/power density potential and form factor flexibility when implemented with the disclosed circuit strategies. Output voltage is maintained substantially constant and ripple free in the presence of line and load variations by the action of various feedback strategies. These mechanisms combine to produce compensations by controlling the duration and/or frequency of a switch or switches. A novel function generator implementation supplies a signal, which is a function of magnetic flux tracking, AC line phasing, and output voltage feedback to provide output regulation, active ripple rejection, and power factor correction to the AC line. Efficient energy storage and transfer is achieved by the optimized application of NSME. The use of efficient rectifying flyback management techniques protects switches and provides additional output. A second novel generator implementation supplies a two-phase signal, which is a function of switching frequency/duty cycle, and output voltage, provides regulation. Further efficiencies are realized by the inclusion of switching buffers that substantially reduce switching losses by presenting a high slew rate, low source impedance critically damped drive current to the main switch or switches.

Inventors

RIGGIO CHRISTOPHER ALLEN

WOODLAND GARTH BLAIR

Latest standardized assignees - inventors removed

ONLINE POWER SUPPLY

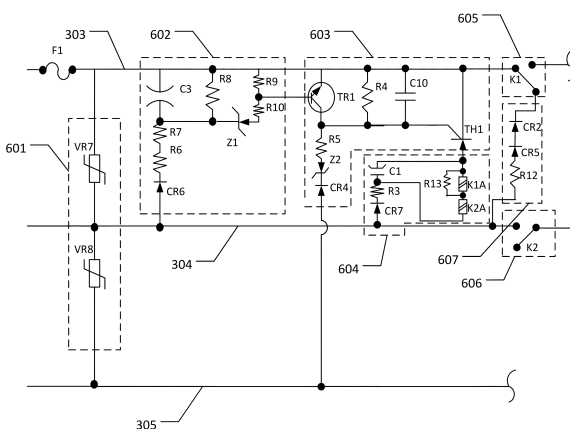
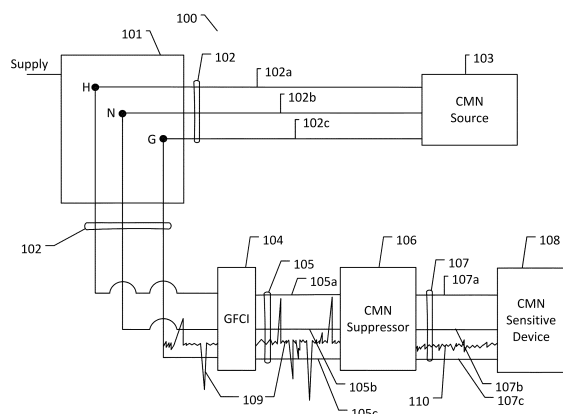
Family 8/20 - FAMPAT - ©Questel

Title

(US20120147509)

TBF Compatible with Input Power Including GFCI

Images



Publication numbers with kind code & date

US9178486	B2	2015-11-03	US9178486
US20140340170	A1	2014-11-20	US20140340170
US20140340171	A1	2014-11-20	US20140340171
US20120147509	A1	2012-06-14	US20120147509



Abstract

(US20120147509)

A protective circuit having hot, neutral, and ground leads arranged to be placed between corresponding hot, neutral, and ground leads of a power utility outlet and corresponding hot, neutral, and ground leads of electrical apparatus.

Inventors

MECHANIC BAHRAM

FARIDI TOORAJ

Latest standardized assignees - inventors removed

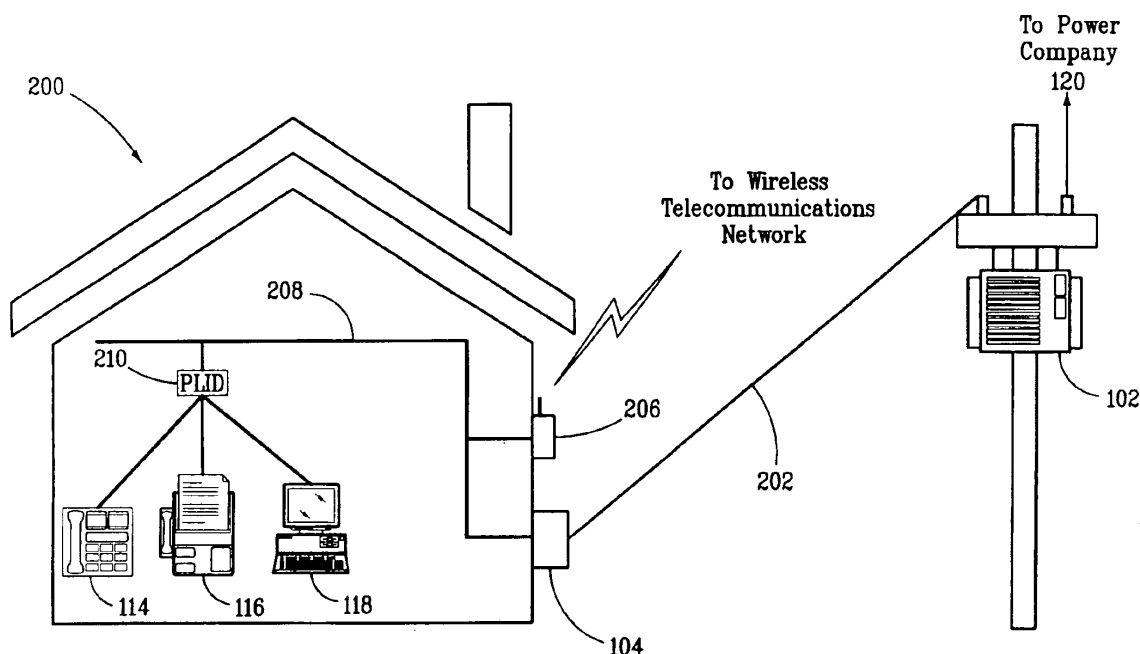
EMERGE POWER SOLUTIONS D SMART POWER SYSTEMS

Family 9/20 - FAMPAT - ©Questel

Title

(EP1952206)

Power line coupling device and method of using the same

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

EP1952206	A2	2008-08-06	EP1952206
WO2007/055699	A3	2007-08-23	WO200755699
US7248148	B2	2007-07-24	US7248148
US7245201	B1	2007-07-17	US7245201
WO2007/055699	A2	2007-05-18	WO200755699
US20060125609	A1	2006-06-15	US20060125609
US6980089	B1	2005-12-27	US6980089

**Abstract**

(EP1952206)

The invention provides a method and a device for communicating a signal over a power line. One embodiment may comprise a length of power cable that comprises a center conductor substantially surrounded by an insulator. Concentric conductor is disposed external to the insulator over a first portion of the cable. Coupling conductor may be disposed concentrically around a second portion of the cable external to said insulator and having a first end and a second end. The concentric conductor is absent in a manner to form a gap between the concentric conductor and the first end of said coupling conductor. Transceiver cable is coupled to the first end of said coupling conductor and a common mode choke may be disposed substantially around the entire circumference of a portion of said coupling conductor. Finally, the second end of the coupling conductor may be coupled to ground through a convenient neutral conductor.

Inventors

RADTKE WILLIAM O

KLINE PAUL

DICKEY SERGEY L

Latest standardized assignees - inventors removed

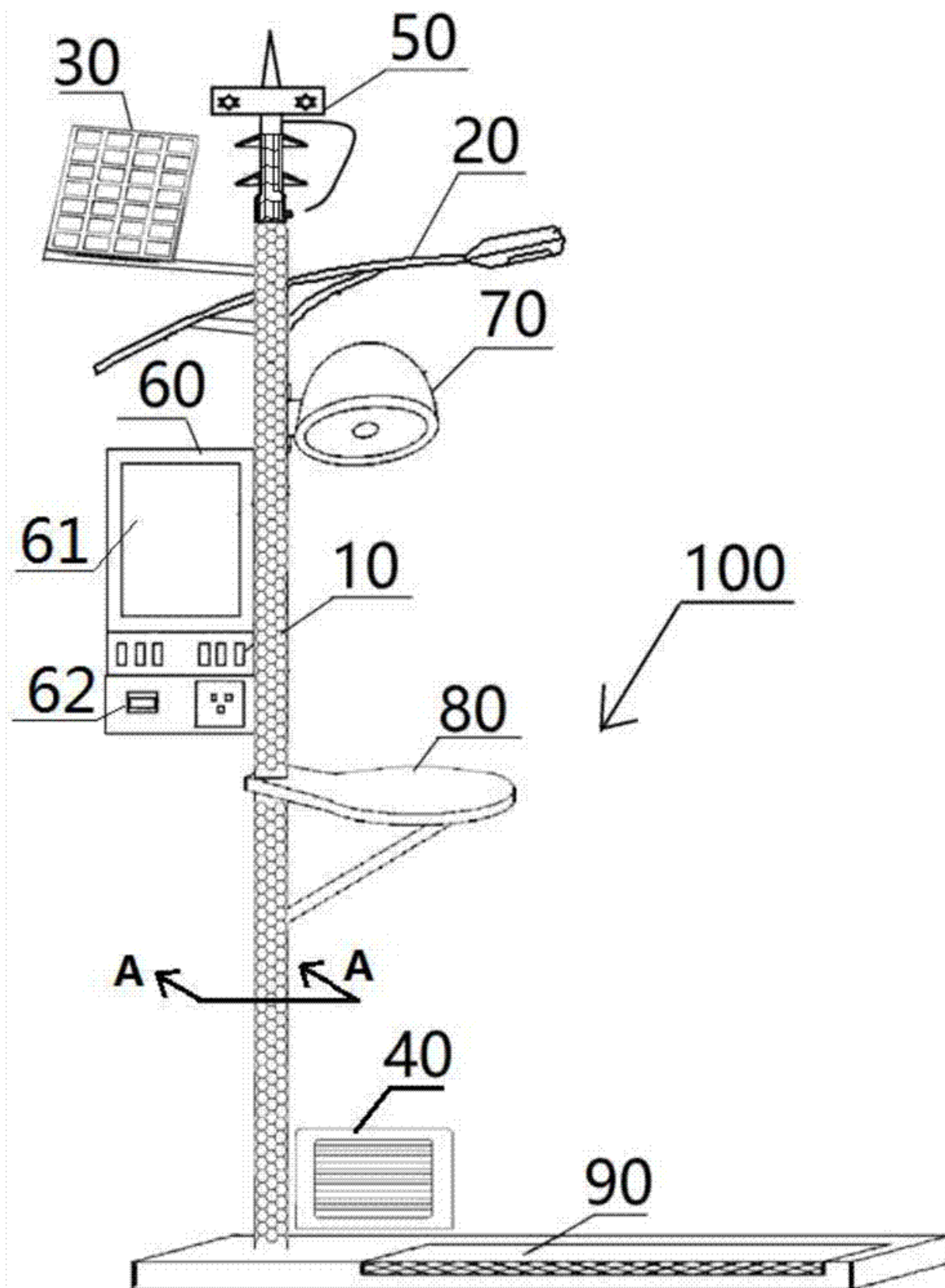
CHEMTRON RESEARCH

Family 10/20 - FAMPAT - ©Questel

Title

(CN206617885U)

Solar street lamp system

Images

Publication numbers with kind code & date

[CN206617885](#)

U 2017-11-07 CN206617885U

**Abstract**

(CN206617885)

The utility model provides a solar street lamp system, this solar street lamp system is including a lamp pole, lamps and lanterns, a solar module, a controller, a battery, a dc -to -ac converter and one through the electric air blown producer of being connected of this dc -to -ac converter and this controller, these lamps and lanterns all set up in the top of this lamp pole with this solar module, these lamps and lanterns, this solar module, this battery all is connected with this controller electricity, this lamp pole includes the discharge lever of showing the discharge needle for a moment, discharge an inner tube and an insulating urceolus, a controller, the inner tube nestification of should discharging is in this insulation urceolus, the section of thick bamboo wall of inner tube and the equal array of section of thick bamboo wall of this insulation urceolus of should discharging there is the mesh, this discharge lever and should discharge and to form arc discharge between the inner tube, this air blown producer can be with inspiratory gaseous through discharging the inner tube by this insulation urceolus discharge. This solar street lamp system utensil improves the environment and alleviates the function that people breathed the health problem.

Inventors

JIANG JINCHUN

MA CHUANHE

Latest standardized assignees - inventors removed

CHENGXU ELECTRIC

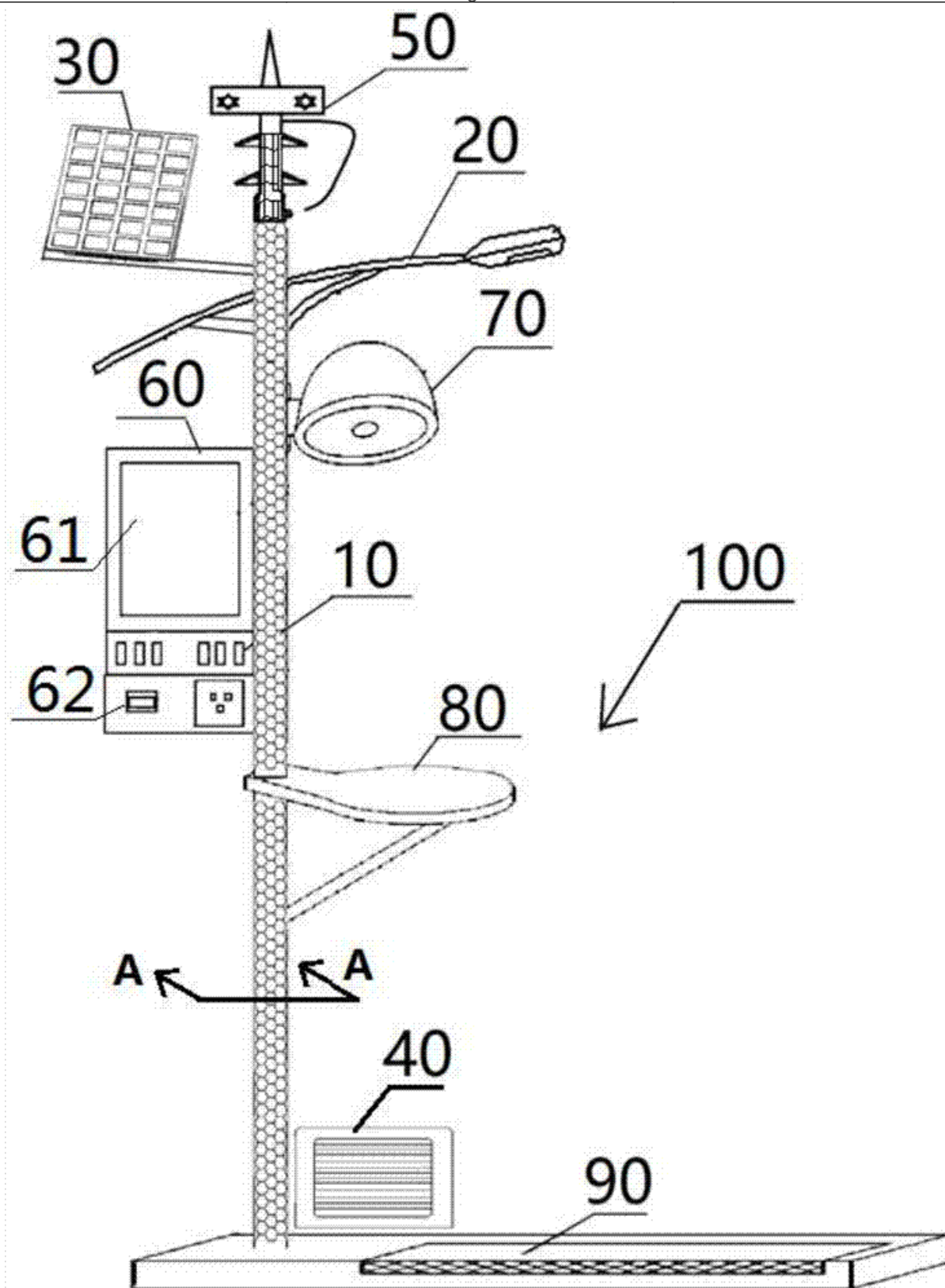
Family 11/20 - FAMPAT - ©Questel

Title

(CN107062138)

Solar street lamp system

Images



Publication numbers with kind code & date

CN107062138 A 2017-08-18 CN107062138



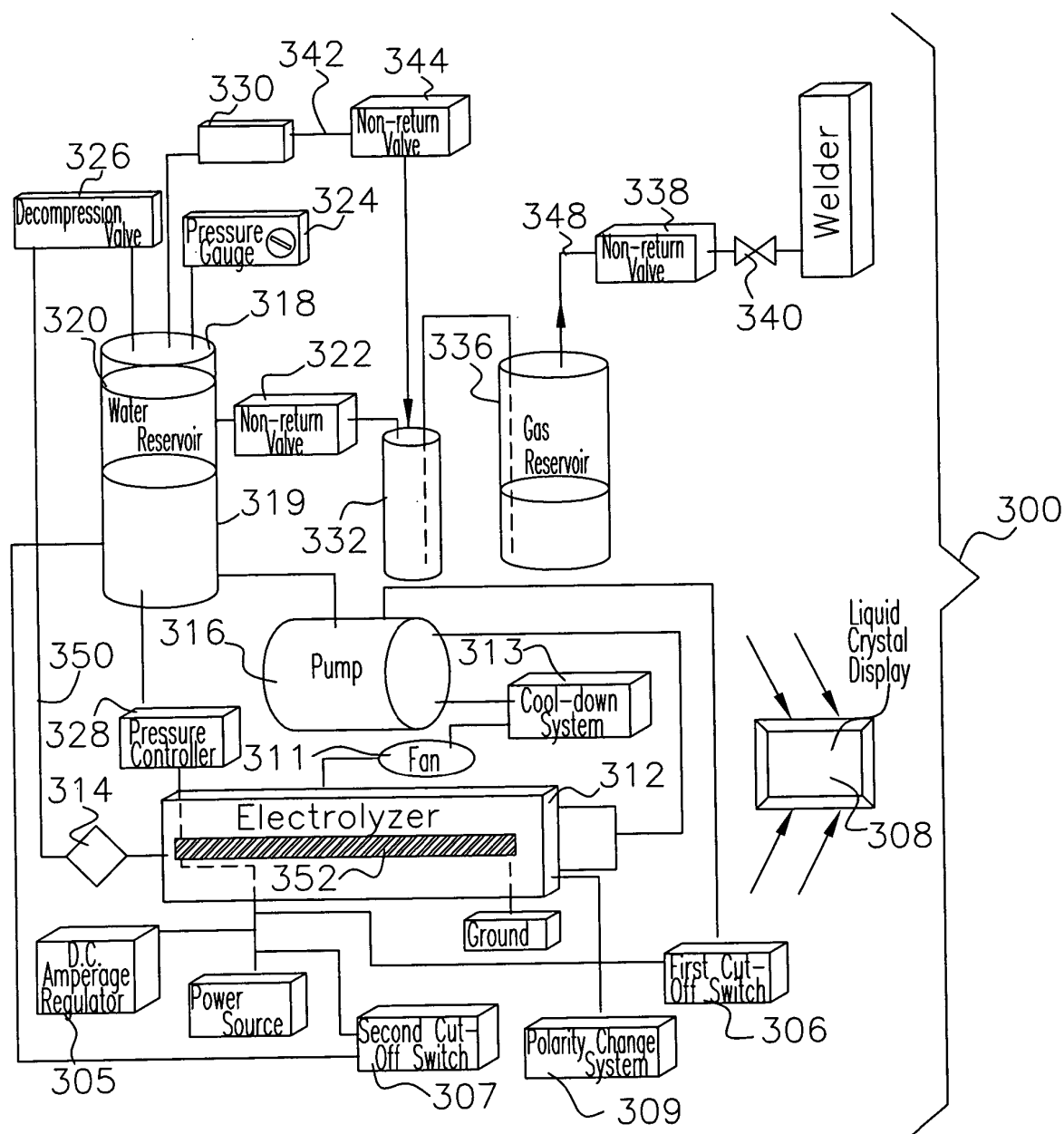
Abstract

(CN107062138)

The invention discloses a solar street lamp system. The solar street lamp system comprises a lamp pole, a lamp, a solar cell module, a controller, a storage battery, an inverter and a blower, wherein the blower is electrically connected to the controller through the inverter; the lamp and the solar cell module are both arranged at the top of the lamp pole; the lamp, the solar cell module and the storage battery are electrically connected to the controller; the lamp pole comprises a discharge lever, an inner discharge cylinder and an outer insulating cylinder, wherein the discharge lever is provided with discharge pins in an array mode; the discharge lever is nested in the inner discharge cylinder; the inner discharge cylinder

Apparatus and method for the conversion of water into a new gaseous and combustible form and the combustible gas formed thereby

Images



Publication numbers with kind code & date

BRPI0418057	A2	2009-05-12	BR200418057
EP1711648	A4	2007-08-29	EP1711648
JP2007519827	A	2007-07-19	JP2007519827
IN4076/DELNP/2006	A	2007-06-22	IN2006DN04076
BRPI0418057	A	2007-04-17	BR200418057
BRPI0418057	A1	2007-04-17	BRPI0418057
US20070080070	A1	2007-04-12	US20070080070
CN1906330	A	2007-01-31	CN1906330
EP1711648	A2	2006-10-18	EP1711648
MXPA06008195	A	2006-08-31	MX2006PA008195
US20060075683	A1	2006-04-13	US20060075683
WO2005/076767	A3	2005-12-29	WO200576767
AU2004315756	A1	2005-08-25	AU2004315756



[CA2552970](#)

A1 2005-08-25 CA2552970

[WO2005/076767](#)

A2 2005-08-25 WO200576767

[US20040149591](#)

A1 2004-08-05 US20040149591

**Abstract**

(EP1711648)

An electrolyzer which decomposes distilled water into a new fuel composed of hydrogen, oxygen and their molecular and magnecular bonds, called HHO. The electrolyzer can be used to provide the new combustible gas as an additive to combustion engine fuels or in flame or other generating equipment such as torches and welders. The new combustible gas is comprised of clusters of hydrogen and oxygen atoms structured according to a general formula H_mO_n wherein m and n have null or positive integer values with the exception that m and n can not be 0 at the same time, and wherein said combustible gas has a varying energy content depending on its use.

Inventors

KLEIN DENNIS J

SANTILLI RUGGERO MARIA

Latest standardized assignees - inventors removed

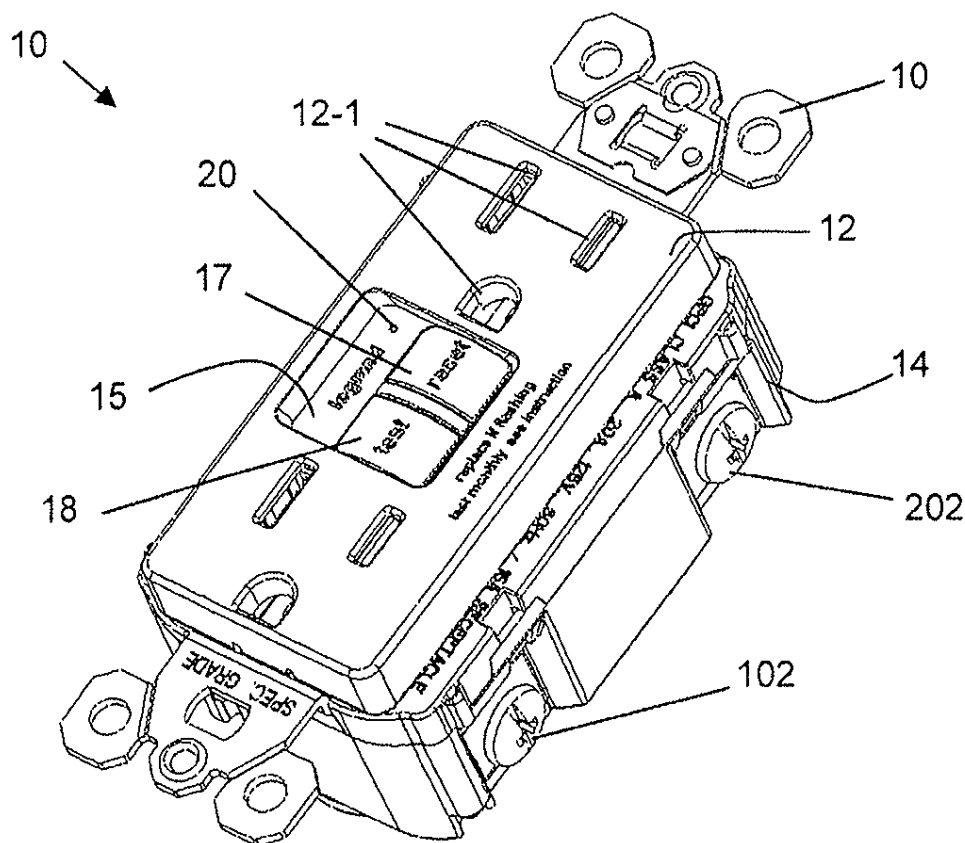
HYDROGEN TECHNOLOGY APPLIC

Family 15/20 - FAMPAT - ©Questel

Title

(US20190252873)

Protective Wiring Device

Images

US20190252873	A1	2019-08-15	US20190252873				
US10291014	B2	2019-05-14	US10291014				
US20160352092	A1	2016-12-01	US20160352092				
US9437386	B2	2016-09-06	US9437386				
US20150333498	A1	2015-11-19	US20150333498				
CN204578054	U	2015-08-19	CN204578054U				

Abstract

(US20190252873)

The present invention is directed to electrical wiring device that includes: a housing including a cover and a back body, the housing further including a plurality of line terminals and a plurality of feed-through load terminals, a plurality of receptacle load terminals substantially aligned with a plurality of receptacle openings; a fault protection circuit disposed inside the housing, having sensing components mounted to one side of a first PCB, the fault protection circuit being configured to provide a fault detection signal in response to detecting at least one type of predetermined fault condition; a circuit interrupter disposed inside the housing, the circuit interrupter being configured to couple the plurality respective terminals in response to a reset stimulus being applied to a reset button, the circuit interrupter being configured to decouple the respective plurality of terminals in a second state when the latching element and a reset pin are decoupled in response to the fault detection signal; and an indication circuit having an indicator to alert the user of device status.

Inventors

WEEKS RICHARD

Latest standardized assignees - inventors removed

PASS & SEYMOUR

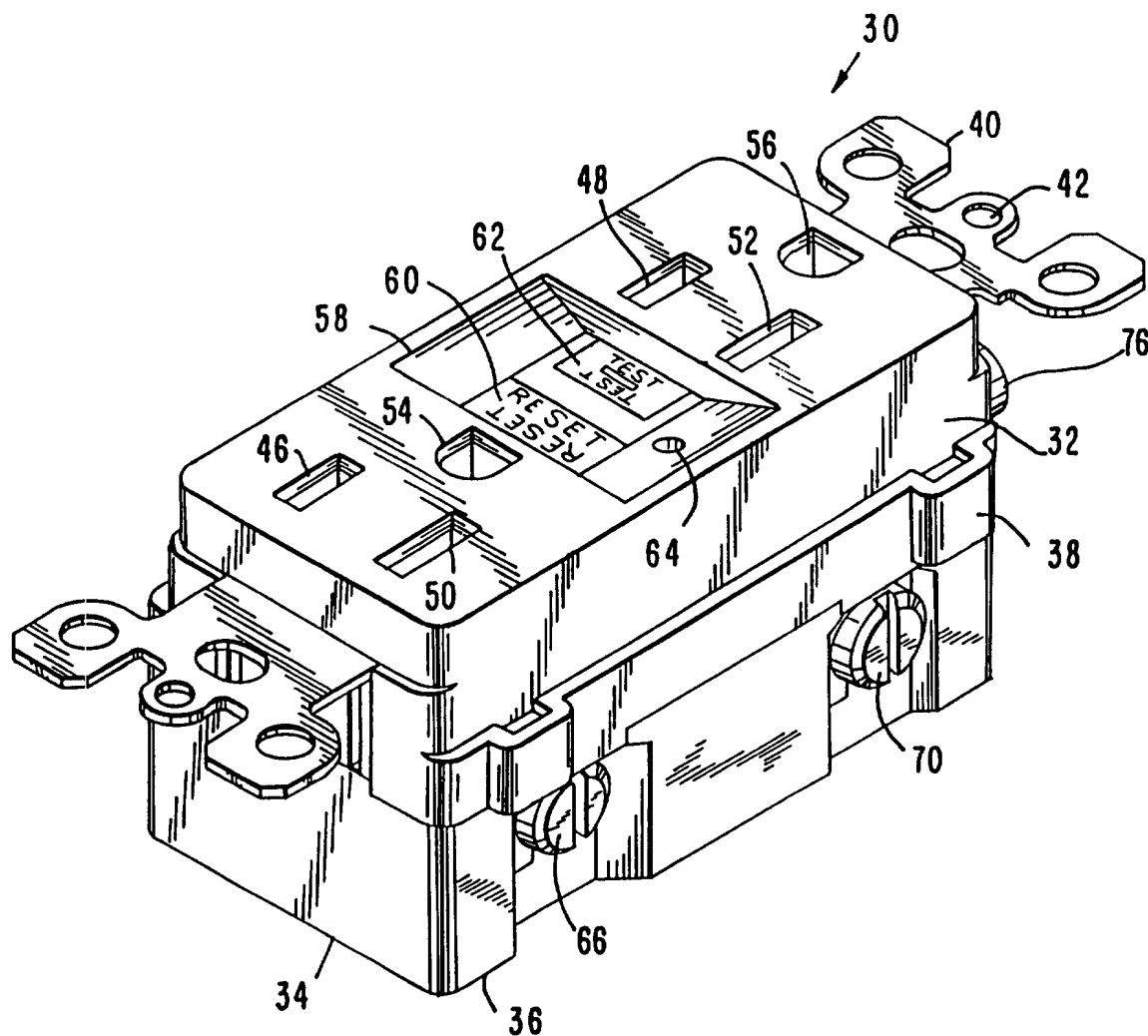
Family 16/20 - FAMPAT - ©Questel

Title

(EP1334502)

Circuit interrupting device

Images



Publication numbers with kind code & date

CN101409185	B	2016-08-03	CN101409185B
BRPI0114702	A2	2011-06-28	BR200114702
CN101409185	A	2009-04-15	CN101409185
HK1059844	A1	2008-05-02	HK1059844
CN100338710	C	2007-09-19	CN100338710C
EP1334502	A4	2007-07-04	EP1334502
CA2425810	C	2007-04-10	CA2425810
MXPA03003404	A	2005-01-25	MX2003PA003404
JP2004520682	A	2004-07-08	JP2004520682
CN1478288	A	2004-02-25	CN1478288
BR0114702	A	2004-01-27	BR200114702
BRPI0114702	A1	2004-01-27	BRPI0114702
EP1334502	A1	2003-08-13	EP1334502
AU1538102	A	2002-04-29	AU200215381
CA2425810	A1	2002-04-25	CA2425810
WO02/33720	A1	2002-04-25	WO200233720



Abstract

(EP1334502)

Resettable circuit interrupting devices, such as GFCI devices (ground fault circuit interrupters), ALCI devices (arc fault circuit interrupters), ICDI devices (immersion detection circuit interrupters), RCDs (residual current devices), that include reverse wiring protection (fig. 62), and optionally an independent trip portions (fig. 24) and/or a reset lockout portion (60, 330) are provided. Further is a signaling system employing indicator lamp means (64) and an audible alarm (236) is

employed to remind a user to periodically test his GFCIs and to provide information regarding the status of the GFCI. The power lines that supply the GFCI with power are also coupled to the circuits on the PCB (122) to disconnect power to those circuits of the GFCI that trips due to faults or tests.

Inventors

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Latest standardized assignees - inventors removed

LEVITON MANUFACTURING

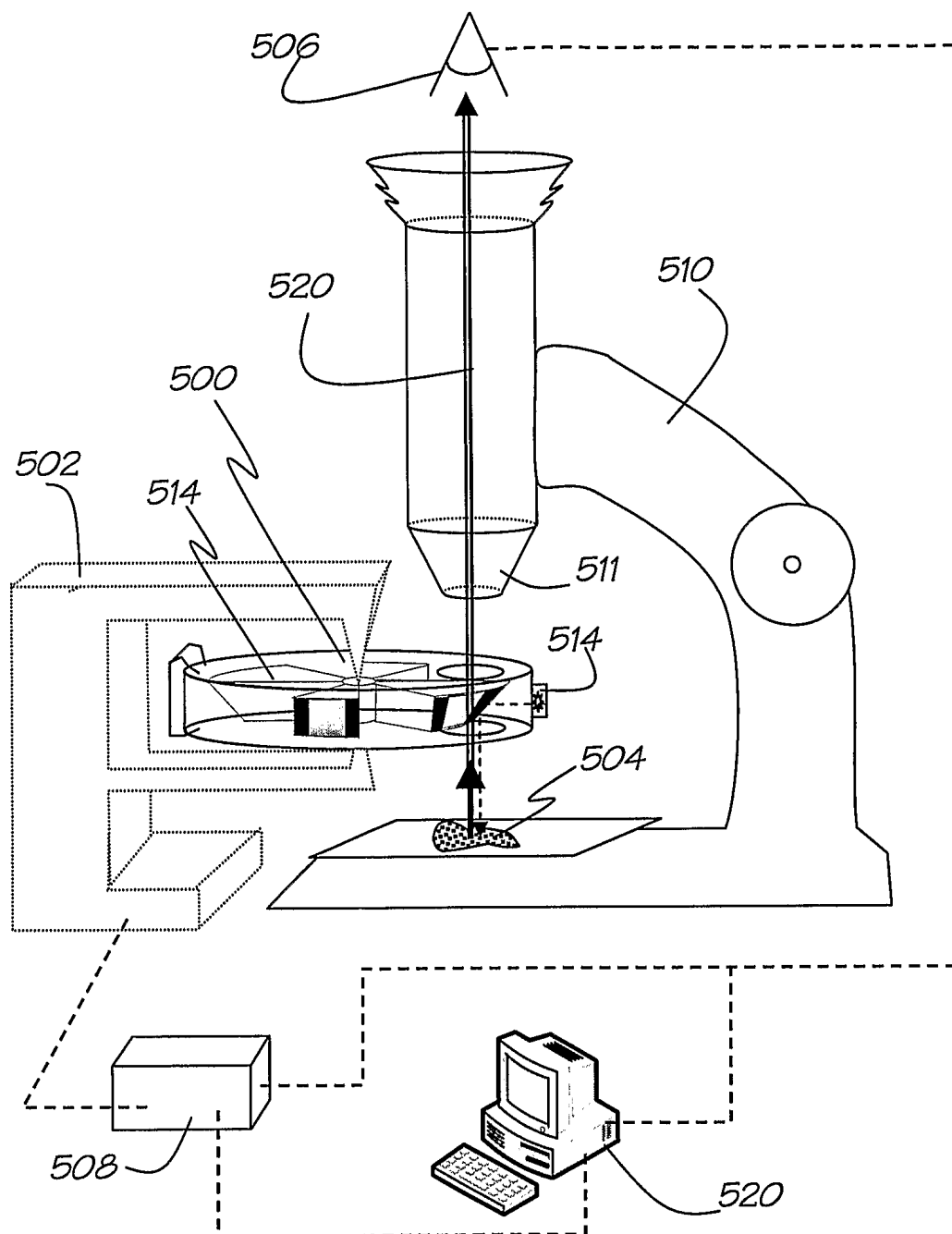
Family 17/20 - FAMPAT - ©Questel

Title

(EP2286205)

Auto-synchronous fluorescence detection method and apparatus

Images



Publication numbers with kind code & date

AU2009246048	B2	2014-08-07	AU2009246048
US8779390	B2	2014-07-15	US8779390
EP2286205	B1	2013-03-13	EP2286205
EP2286205	A4	2012-01-18	EP2286205
US20110057119	A1	2011-03-10	US20110057119
EP2286205	A1	2011-02-23	EP2286205
AU2009246048	A1	2009-11-19	AU2009246048
WO2009/137875	A1	2009-11-19	WO2009137875



Abstract

(EP2286205)

An apparatus for time-gated fluorescence or luminescence detection includes gating means (206) arranged to alternately permit light from an excitation source (242) to be directed to a sample (235) along a first communication path (231, 232), and then permit light emitted from the sample to be directed to a detector (246) along a second communication path (237, 238) while blocking the first communication path (231, 232): The gating means (206) may comprise a single chopper wheel

or apertured disc, or a rotating or oscillating arm, and may further comprise one or more reflective facets (207). The gating means (206) may be driven via a magnetic rotor, with a ferrite bead placed to offset rotor magnets with respect to drive coils, when at rest, so as to assist with self starting.

Inventors

CONNALLY RUSSELL

Latest standardized assignees - inventors removed

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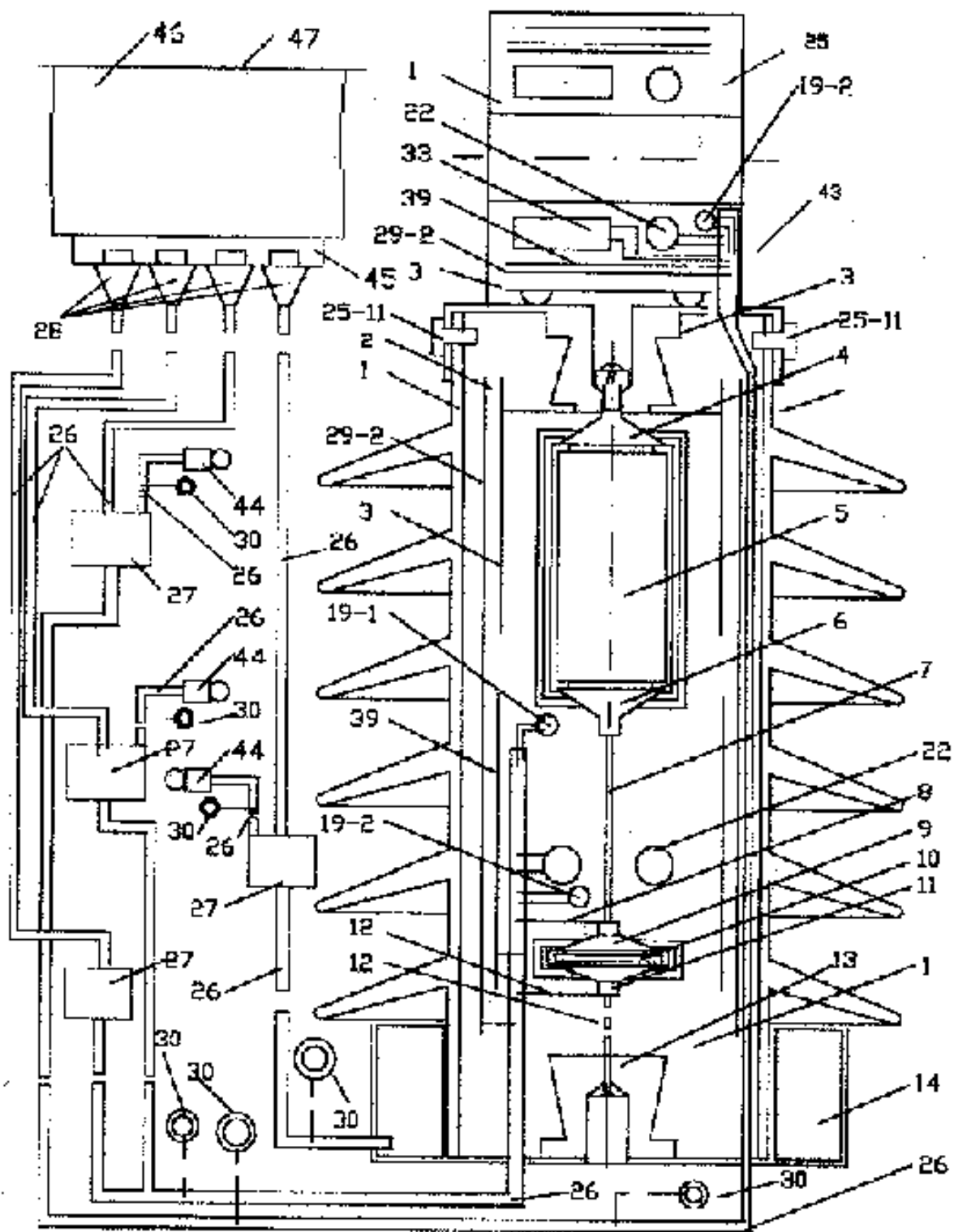
Family 18/20 - FAMPAT - ©Questel

Title

(CN2546851U)

Compound type sensor

Images



Publication numbers with kind code & date

[CN2546851](#) Y 2003-04-23 CN2546851U



Abstract

(CN2546851)

The utility model relates to a composite sensing device which is composed of one or more composite sensors and an electronic controller, the composite sensor can transfer more than one complete wave information among voltage, current and frequency and has rapid response, wide application range, small size, and is convenient for upgrading old products, and is easy to be combined into a multifunctional electromechanical integration service-free product with work condition monitoring, and also can support online monitoring and perform the predicted service, and can meet the requirements of electronic computer full process digital processing technique and flexible AC electricity transportation technique, thereby improving the transportation capacity and intelligent control level of electric power network and communication network.

Inventors

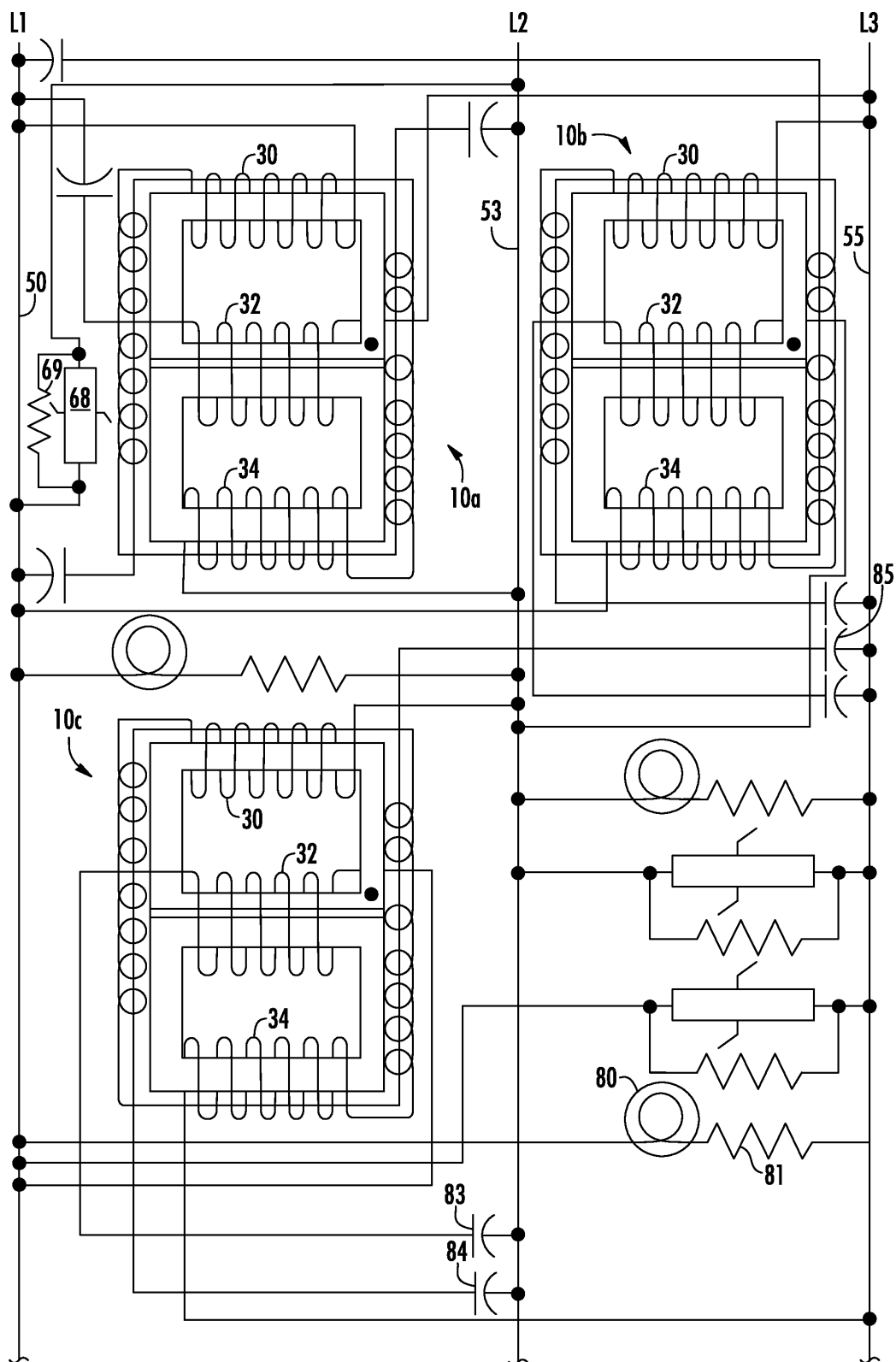
LIU JINSHENG

Family 19/20 - FAMPAT - ©Questel

Title

(EP2668658)

Ac power conditioning circuit

Images

Publication numbers with kind code & date

TR201904175	T4	2019-04-22	TR201904175				
EP2668658	B1	2019-03-06	EP2668658				
KR101816957	B1	2018-01-09	KR101816957				
EP2668658	A4	2017-10-18	EP2668658				
BR112013014716	A2	2017-09-26	BR112013014716				
CA2817720	C	2017-09-12	CA2817720				
BR112013014716	A1	2017-06-27	BR112013014716				
HK1187146	A1	2017-04-07	HK1187146				
IL226657	B	2016-11-30	IL-226657				
CN103282981	B	2016-05-25	CN103282981B				
AU2011356733	B2	2016-04-14	AU2011356733				
JP5788998	B2	2015-08-07	JP5788998				
RU2547145	C2	2015-04-10	RU2547145				
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IN4457/DELNP/2013	A	2014-11-21	IN2013DN04457				
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US8791782	B2	2014-07-29	US8791782				
JP2014505372	A	2014-02-27	JP2014505372				
US20130342942	A1	2013-12-26	US20130342942				
KR20130140742	A	2013-12-24	KR20130140742				
EP2668658	A1	2013-12-04	EP2668658				
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MX2013008399	A	2013-09-13	MX2013008399				
CN103282981	A	2013-09-04	CN103282981				
SG190302	A1	2013-06-28	SG-190302				
AU2011356733	A1	2013-06-06	AU2011356733				
CA2817720	A1	2012-08-02	CA2817720				
US20120194313	A1	2012-08-02	US20120194313				
WO2012/102691	A1	2012-08-02	WO2012102691				

Abstract

(EP2668658)

A multi-coil choke for an AC power conditioner includes a magnetic core having first, second and third parallel legs. A first coil wrapped around the first leg terminates in first and second leads at respective ends. A second coil wrapped around the second leg terminates in first and second leads at respective ends. A third coil wrapped around the third leg terminates in first and second leads at respective ends. A fourth coil is formed from a proximal portion of the second lead of said first coil. The fourth coil is wrapped around a distal portion of the second lead of the third coil. A fifth coil is formed from a proximal portion of the second lead of the third coil. The fifth coil is wrapped around a distal portion of the second lead of the first coil. AC power conditioners using one or more such chokes are also disclosed.

Inventors

WOHLFORTH E BRIAN

Latest standardized assignees - inventors removed

USES

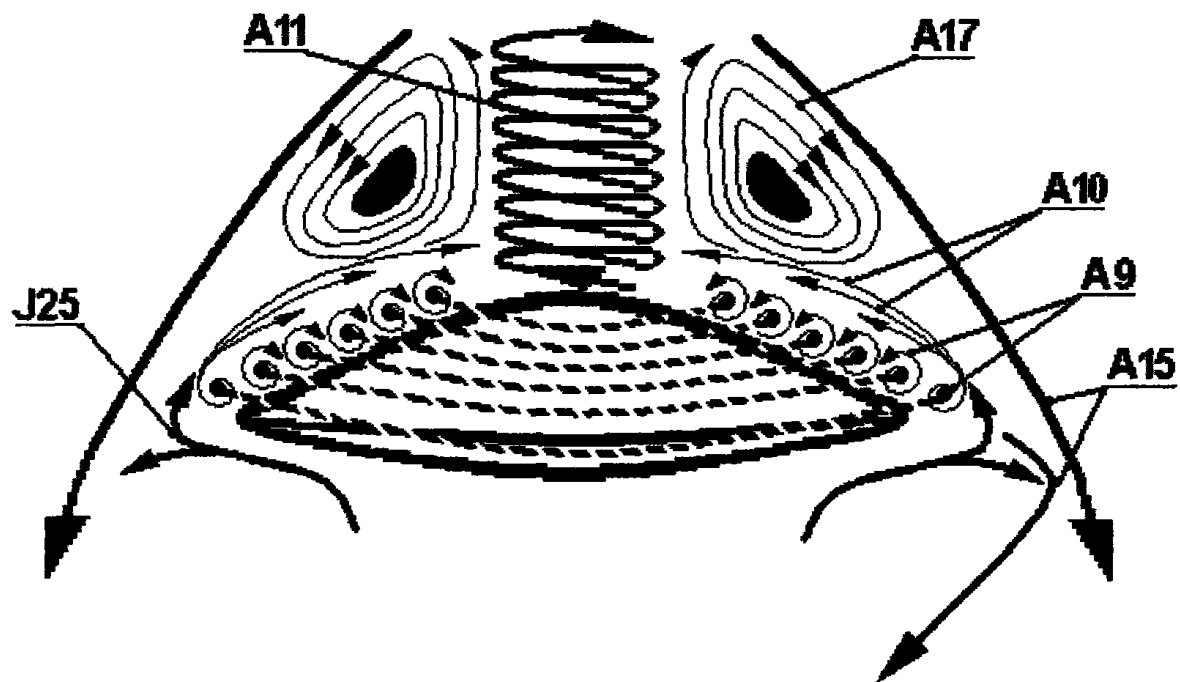
Family 20/20 - FAMPAT - ©Questel

Title

(CN101301931)

Method and apparatus for manufacturing compound vortex and compound vortex aircraft

Images



Publication numbers with kind code & date

[CN101301931](#)

A

2008-11-12

CN101301931



Abstract

(CN101301931)

The invention discloses a compound vortex generating method and generating equipment and a compound vortex aerial craft, belonging to the aerospace field. The compound vortex is a novel aerodynamics lifting vortex type. Firstly, a solid vortex is generated, and then is sequentially transformed into a plane vortex and a center vortex so as to obtain the three-in-one compound vortex which appears as 'a vortex complex formed by smoke rings, typhoon and tornado'; then the up-rushing flow of a center vortex tube is restrained by a special device or a magnetic field into a carrying-plane flow flowing downwards to form a vortex down washing, and then a special despinning device or the magnetic field is adopted to despin the vortex so as to naturally form a fantastic vortex ring (an annular separated vortex) among the plane vortex, center vortex tube and the vortex down-washing. The low pressure area can be a main lifting area of a heli-aerial-craft; and three kinds of heli-aerial-crafts, including flying cars, jet helicopters and flying disks, completely expose the mystery of 'UFO' recorded in the history of earth and propose a universal supreme fighter.

Inventors

QUAN LI