

Search history

Search step	Result(s)	Query
3	8	1 AND ACTUATOR+
2	0	1 AND DAMP+
1	35	((VACUUM SWITCH OR VACUUM INTERRUPTOR)/AB/CLMS/DESC/ODES/OBJ/ICLM/TI/TX AND (CAPACITOR+)/TI/AB/CLMS/DESC/ODES/ICLM/TX AND (RECONNECT+)/TI/AB/TX)

8 Documents

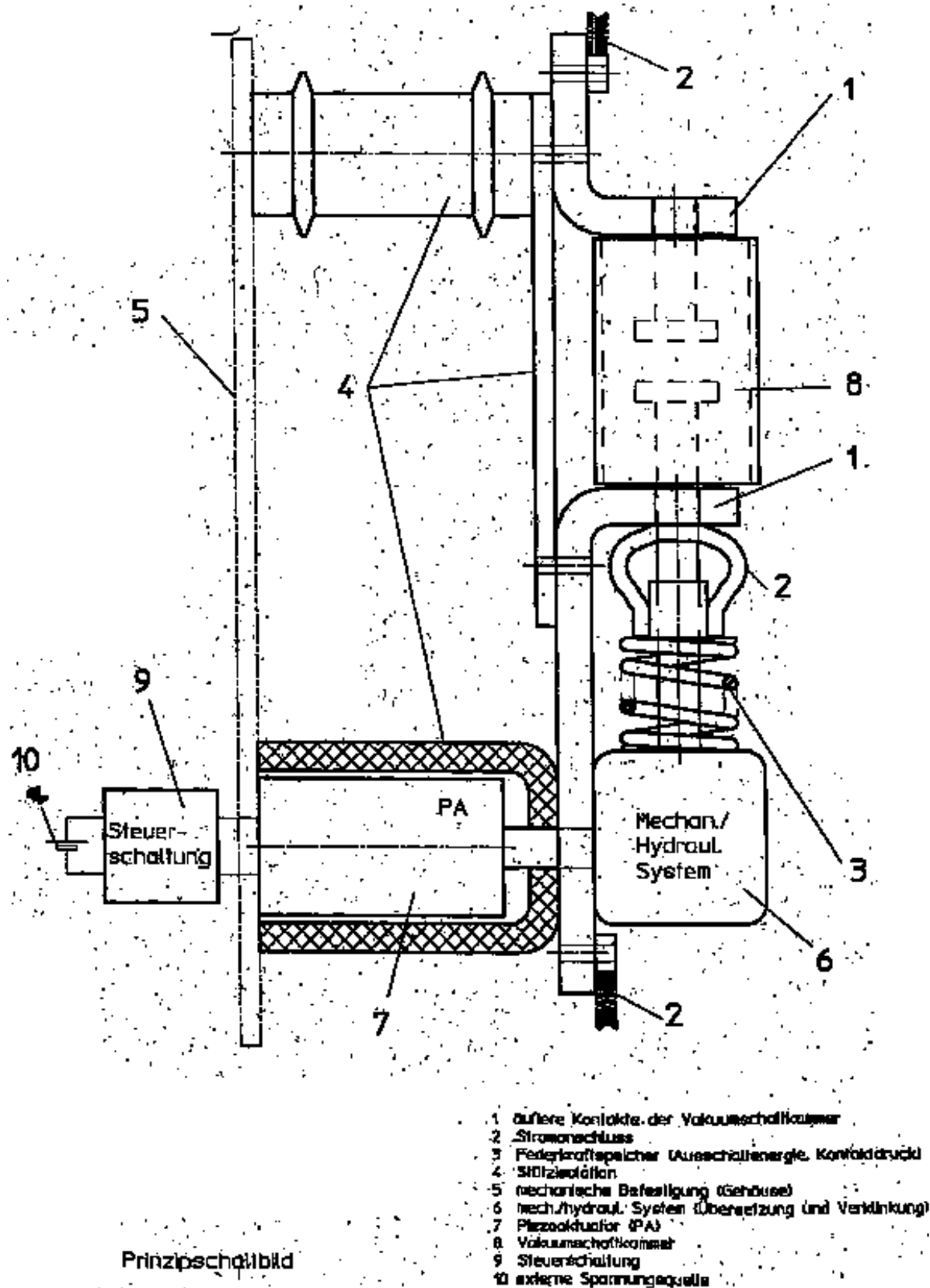
Publication numbers	Title	Current assignees
DE10017178 A1	Structure for operating vacuum switch chambers with a piezo actuator couples the piezo actuator to a mechanical/hydraulic system to pick up a movable contact drive in a vacuum switch chamber for switching off the switch chamber.	EISENSCHMIDT TORSTEN
EP-466048 A2	Fault-current interruption switch	SACHSENWERK
CA2893589 A1	A Method to determine the end-of-live of a vacuum interrupter	S & C ELECTRIC
CA3000541 A1	Intra-tank under-oil vacuum primary switches for medium voltage transformer applications	CARTIER INTERNATIONAL, ...
CA3011068 A1	Biopsy system	DEVICOR MEDICAL PRODUCTS
WO9936297 A1	Automated devices to control equipment and machines with remote control and accountability worldwide	KLINE & WALKER
US3790806 A	Remote engine starting system	LESSARD V
US20010056544 A1	Electronically controlled sealing, unsealing and/or bonding with metal strip or wire coated with liquefiable substance for redundant application and tamper detection	KLINE & WALKER

Family 1/8 - FAMPAT - ©Questel

Title

(DE10017178)

Structure for operating vacuum switch chambers with a piezo **actuator** couples the piezo **actuator** to a mechanical/hydraulic system to pick up a movable contact drive in a vacuum switch chamber for switching off the switch chamber.

Images

Abstract

(DE10017178)

Coupling a piezo **actuator** (7) to a mechanical/hydraulic system picks up the drive for a movable contact in a vacuum switch chamber (8) and stretches a reserve of spring force (3) for required contact pressure and for switching off the switch chamber. A voltage supply (10) provides the necessary energy. A control circuit (9) triggers the piezo **actuator** insulated inside or outside a gas or liquid insulator.

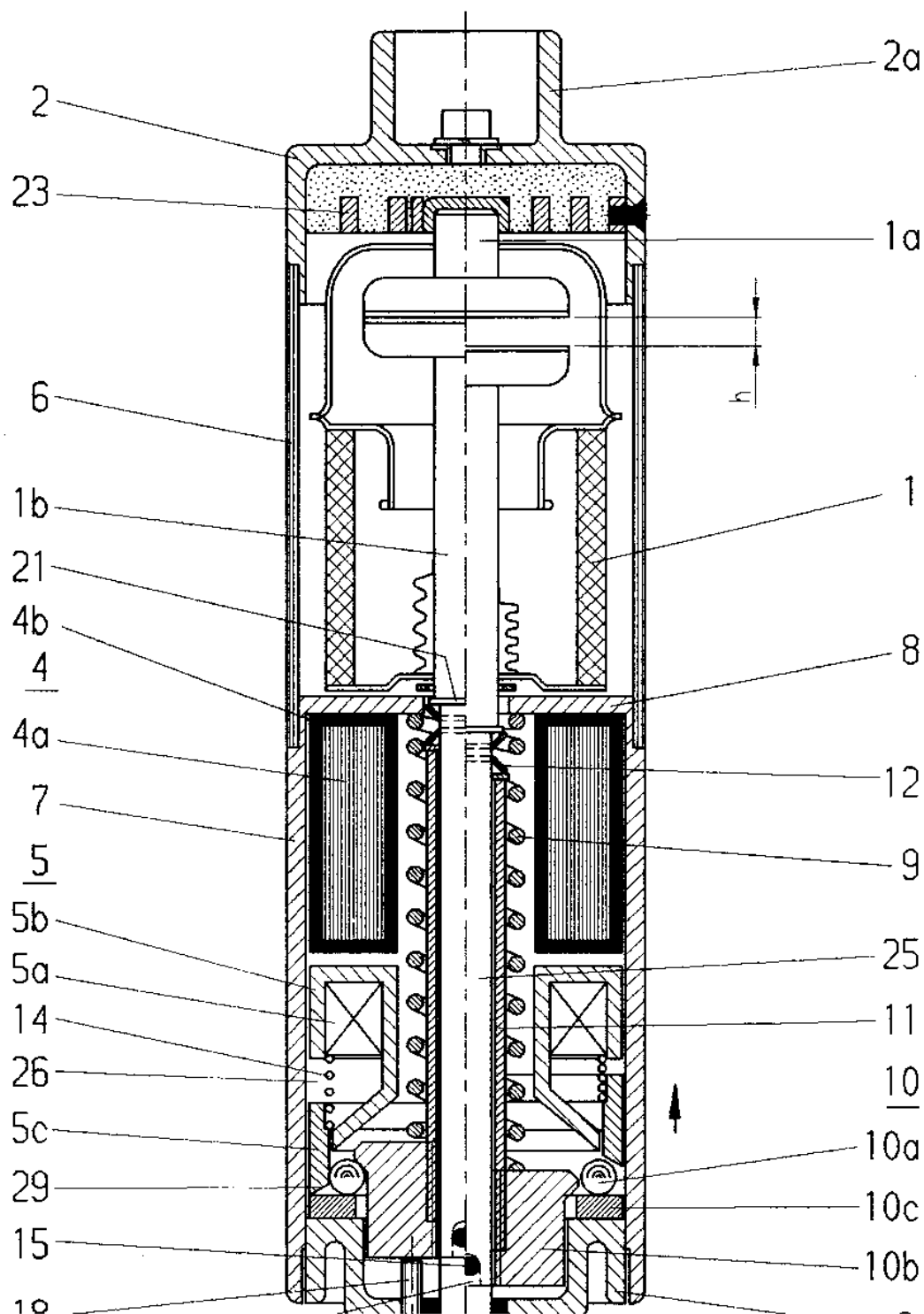
Family 2/8 - FAMPAT - ©Questel

Title

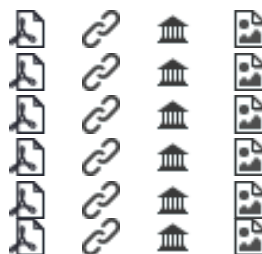
(EP-466048)

Fault-current interruption switch

Images


Publication data including kind & date

EP0466048	A2	1992-01-15	EP-466048
DE4021945	A1	1992-01-16	DE4021945
JPH04229918	A	1992-08-19	JP04229918
EP0466048	A3	1992-12-30	EP-466048
US5206616	A	1993-04-27	US5206616



EP0466048	B1	1996-10-09	EP-466048
DE59108251	D1	1996-11-14	DE59108251
DE4021945	C2	1999-12-30	DE4021945



Abstract

(EP-466048)

The fault-current interruption switch is preferably provided for transformer branches in ring cable switching installations. It represents a self-sufficient device, accommodated in a closed housing, having a vacuum switching chamber (1), a converter (4), a magnetic trip device (5), a switch-off spring (9) and an interlock (10) which can be released in the event of a disturbance. After each disturbance interruption, the vacuum switching chamber (1) can be switched on again via a screw spindle (18), and the switch-off spring (9) interlocked again. An extension (25) of the shaft of the moving switch contact (1b) transmits the switching movement to the exterior where it enables a switch position indicator or, via connecting means, the tripping of an associated isolating or load switch (32a). The secondary coil (4b) of the converter (4) and the ring coil (5a) of the magnetic trip device (5) are connected in series without using an external energy source. When a lower disturbance current level is reached, the induced secondary current is used to operate the magnetic trip device (5) and hence unlocks the interlock (10). The switch-off spring (9) then switches the vacuum switching chamber off. Once the disturbance has been remedied, the vacuum switching chamber (1) is switched on again via the screw spindle (18). Because the switching device according to the invention contains a vacuum switching chamber (1), it is able to interrupt an unlimited number of disturbances without having to gain access to the interior of the switching device. It can thus be installed inside the encapsulation of gas-insulated switching installations and is thus at the same high insulation level as the means of operation which are in the gas atmosphere. On the other hand, the housing of the switching device according to the invention can be designed in a gas-proof manner so that its internal functions are not affected by environment influences such as corrosion or humidity etc. when used in air-insulated installations. <IMAGE>

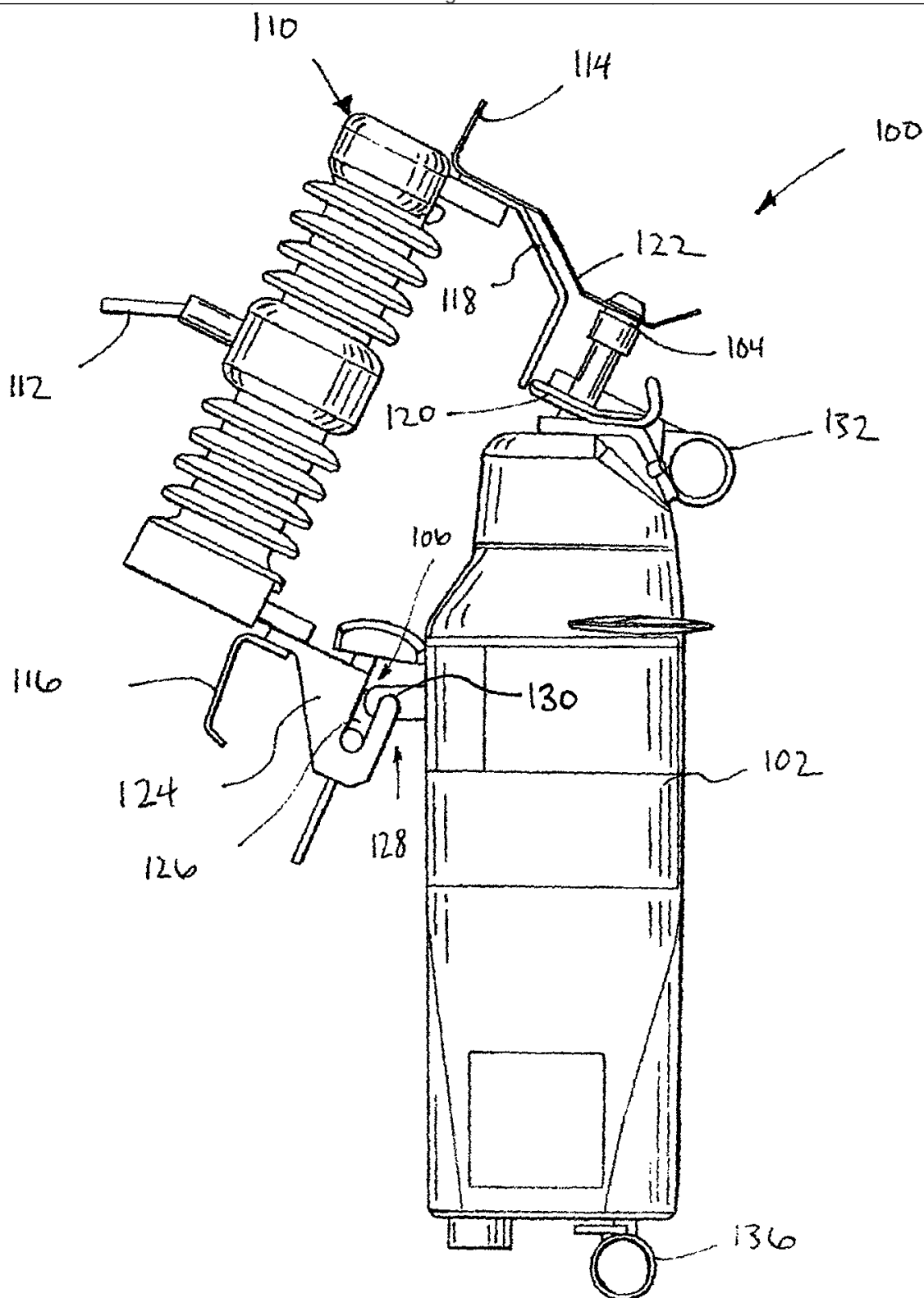
Family 3/8 - FAMPAT - ©Questel

Title

(EP2372741)

A Method to determine the end-of-live of a vacuum interrupter

Images



Publication data including kind & date

CA2893589	A1	2007-06-07	CA2893589
WO2007064489	A2	2007-06-07	WO200764489
CA2630689	A1	2007-06-07	CA2630689
AU2006320816	A1	2007-06-07	AU2006320816
WO2007064489	A3	2007-11-01	WO200764489
WO2007064489	A8	2008-08-07	WO200764489
EP1964143	A2	2008-09-03	EP1964143
KR20080081294	A	2008-09-09	KR20080081294
CN101317244	A	2008-12-03	CN101317244



US20080309437	A1	2008-12-18	US20080309437				
AU2006320816	B2	2011-04-07	AU2006320816				
BRPI0619363	A2	2011-09-27	BR200619363				
EP2372741	A1	2011-10-05	EP2372741				
KR101086529	B1	2011-11-23	KR101086529				
US20120166103	A1	2012-06-28	US20120166103				
CN101317244	B	2012-11-21	CN101317244B				
CN102820186	A	2012-12-12	CN102820186				
US8334738	B2	2012-12-18	US8334738				
EP2372741	B1	2014-01-29	EP2372741				
EP1964143	B1	2014-02-26	EP1964143				
US8824116	B2	2014-09-02	US8824116				
CA2630689	C	2015-10-13	CA2630689				
CN102820186	B	2016-12-07	CN102820186B				
CA2893589	C	2017-12-05	CA2893589				
BRPI0619363	B1	2018-05-22	BR200619363				

Abstract

(EP2372741)

A method to determine the end-of-life of a vacuum interrupter, the method comprising for each fault current detected, monitoring at least one parameter associated with the fault current to be interrupted or an operation of the vacuum interrupter to interrupt the fault current; using the at least one parameter to determine a single operation percent life consumed value for the vacuum interrupter, the single operation percent life consumed value being associated with interrupting the fault current; determining a cumulative percent life consumed for the vacuum interrupter, the cumulative percent life consumed being an accumulation of each of the single operation percent life consumed values corresponding to each of the detected fault currents.

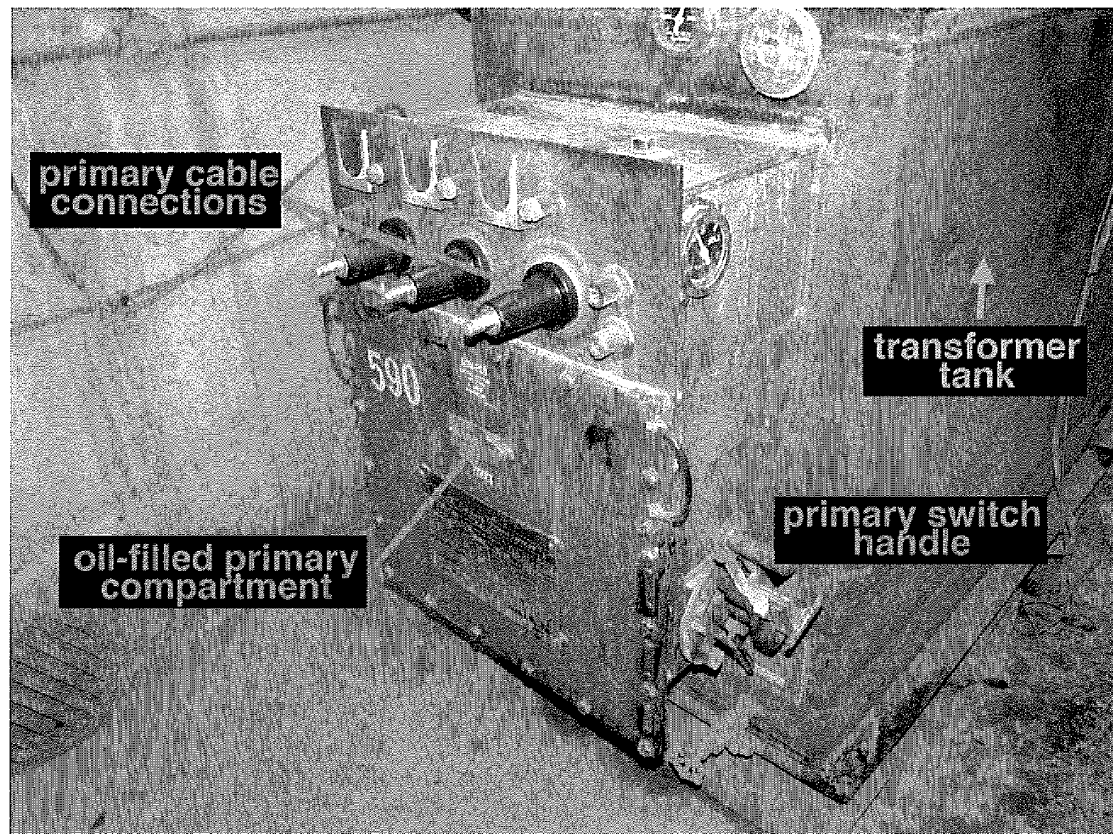
Family 4/8 - FAMPAT - ©Questel

Title

(US20180301279)

Intra-tank under-oil vacuum primary switches for medium voltage transformer applications

Images

**Publication data including kind & date**

CA3000541	A1	2018-10-12	CA3000541
US20180301279	A1	2018-10-18	US20180301279
MX2018004581	A	2018-11-09	MX2018004581

**Abstract**

(US20180301279)

A controllable primary switch for isolating a transformer from a power grid or network, wherein the controllable primary switch is mountable within and integral to the transformer and is electrically connected to high voltage feeder cables to allow the transformer to be disconnected from the power grid or network. The controllable primary switch includes one or more vacuum interrupters having first and second electrical switch contacts mounted inside the casing, **actuator** means for moving the second switch contact relative to the first switch contact in each of the one or more vacuum interrupters; and a handle connected to the **actuator** means, wherein said handle is capable of engaging the **actuator** means to move the second switch contact relative to the first switch contact.

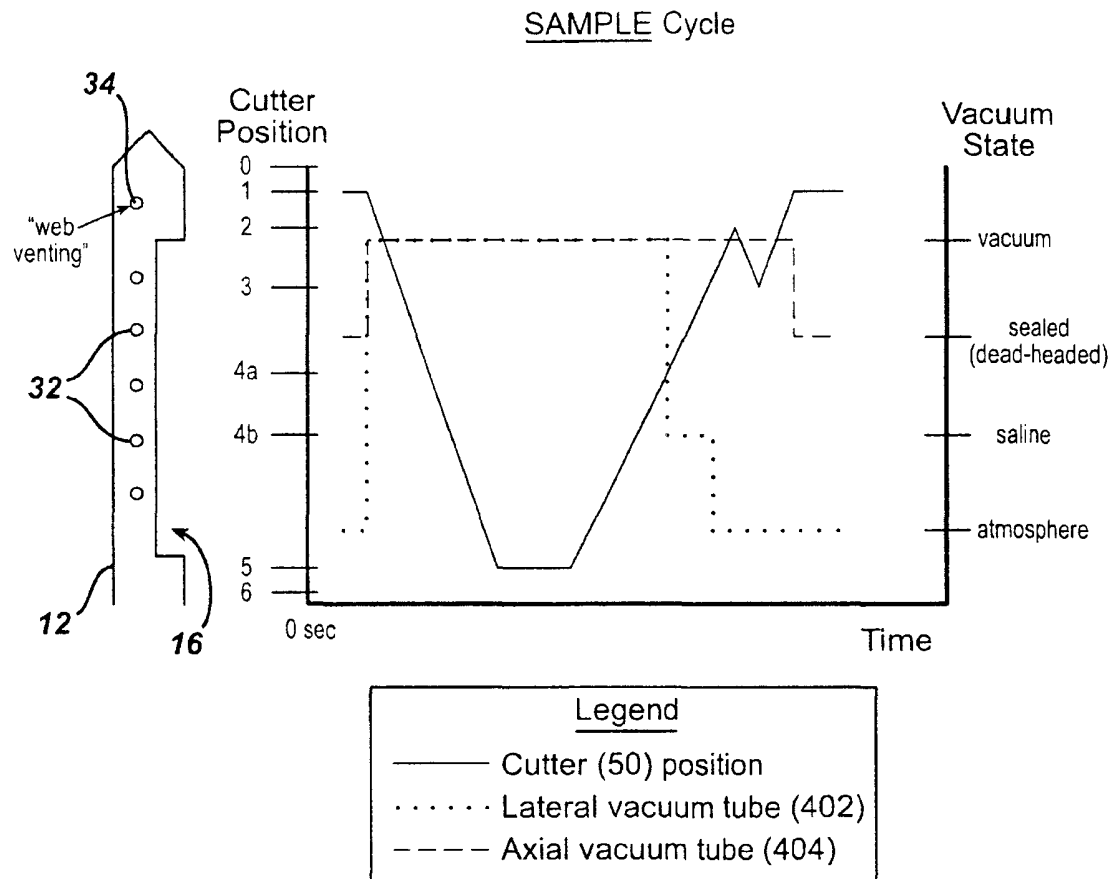
Family 5/8 - FAMPAT - ©Questel

Title

(EP3434195)

Biopsy system

Images



Publication data including kind & date

CA3011068	A1	2008-06-13	CA3011068
CA2614259	A1	2008-06-13	CA2614259
CA2614235	A1	2008-06-13	CA2614235
EP1932482	A1	2008-06-18	EP1932482
EP1932481	A1	2008-06-18	EP1932481
US20080146962	A1	2008-06-19	US20080146962
CA2969611	A1	2008-06-26	CA2969611
WO2008076712	A2	2008-06-26	WO200876712
CA2672664	A1	2008-06-26	CA2672664
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AU2007242953	A1	2008-07-03	AU2007242953
US20080195066	A1	2008-08-14	US20080195066
US20080200836	A1	2008-08-21	US20080200836
JP2008194451	A	2008-08-28	JP2008194451
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WO2008076712	A3	2008-12-31	WO200876712
CA2644357	A1	2009-05-20	CA2644357



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EP2062539	A1	2009-05-27	EP2062539				
EP2062538	A1	2009-05-27	EP2062538				
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AU2008246292	A1	2009-06-04	AU2008246292				
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IN2030/KOL/2008	A	2009-06-05	IN2008KO02030				
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IN2190/KOLNP/2009	A	2009-07-03	IN2009KN02190				
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BRPI0806161	A2	2009-11-17	BR200806161				
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US20180221003	A1	2018-08-09	US20180221003				
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EP2062539	B1	2018-10-10	EP2062539				
JP6457129	B2	2019-01-23	JP6457129				
EP3434195	A1	2019-01-30	EP3434195				
CA2614259	C	2019-02-12	CA2614259				
JP2019069179	A	2019-05-09	JP2019069179				

Abstract

(EP3434195)

A biopsy system is provided, which comprises a biopsy device with a probe, a needle, wherein the needle extends distally from the probe and defines a lateral aperture, a cutter, wherein the cutter is movable relative to the needle, a tissue sample holder, wherein the tissue sample holder is detachably coupled to a proximal end of the probe, a vacuum source, wherein the vacuum source is configured to apply vacuum to the cutter, and a cutter actuation assembly. The cutter assembly includes a sleeve secured to the cutter, a gear, and a nut member, wherein the sleeve includes a threaded section having external threading, wherein the gear is disposed coaxially about the sleeve and is operable to rotate the cutter via the sleeve, wherein the nut member includes internal threading positioned to engage the external threading of the sleeve such that the internal threading and external threading are operable to translate the cutter in response to rotation of the cutter. Therein, the cutter actuation assembly is configured, in a cutting cycle, to retract the cutter to a proximal position relative to the lateral aperture, advance the cutter to a distal position in order to cut tissue positioned in the lateral aperture, and oscillate the cutter proximally and distally after advancing to the distal position.

Family 6/8 - FAMPAT - ©Questel

Title

(EP1121245)

Automated devices to control equipment and machines with remote control and accountability worldwide

Images

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Fig 2A

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Executive	Judicial	Legislative	Independent	Boards, Commissions, and Committees	Quasi-Official
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Executive Branch

Executive Office of the President

White House Office

Office of the Vice President of the United States

Office of the First Lady

Council of Economic Advisers

Council on Environmental Quality

National Economic Council

National Security Council

Office of Administration

Office of Management and Budget

Office of National Drug Control Policy

Office of Science and Technology Policy

President's Council on Sustainable Development

President's Foreign Intelligence Advisory Board

United States Trade Representative

White House Office for Women's Initiatives and Outreach

Executive Agencies

Department of Agriculture

Farm and Foreign Agriculture Services

Farm Service Agency

Foreign Agricultural Service

Commodity Credit Corporation

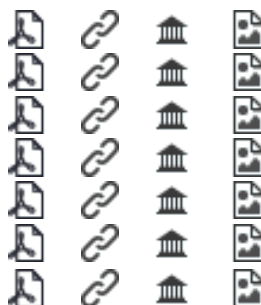
Risk Management

Food, Nutrition, and Consumer Services

Food and Nutrition Service

Publication data including kind & date

WO9936297	A1	1999-07-22	WO9936297
CA2318139	A1	1999-07-22	CA2318139
AU2322199	A	1999-08-02	AU9923221
WO9936297	B1	1999-10-07	WO9936297
WO9936297	A9	1999-11-11	WO9936297
WO9965681	A1	1999-12-23	WO9965681
CA2637877	A1	1999-12-23	CA2637877



US3790806

A 1974-02-05 US3790806

**Abstract**

(US3790806)

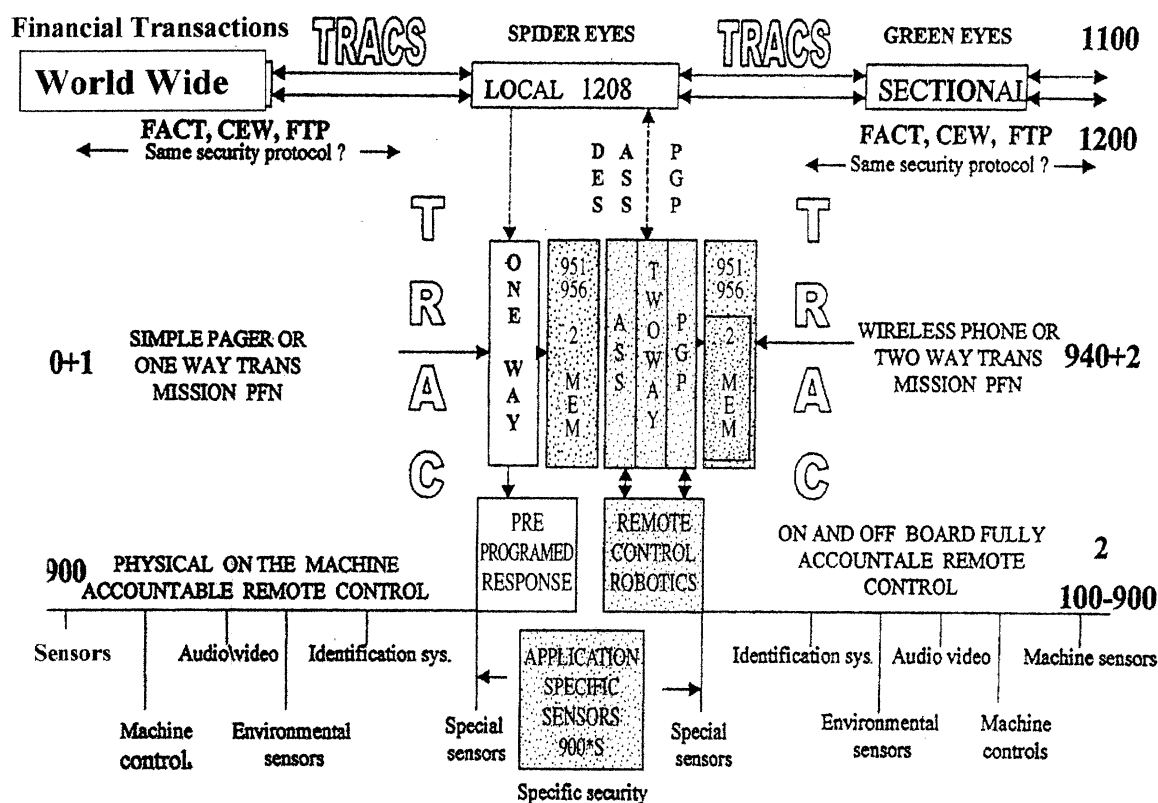
A remotely controlled automobile engine starting control system which includes a radio transmitter remotely located from a radio receiver and the control circuit, the actuation of the control circuit from the transmitter initiating the timing of two preselected periods, the first of which controls the actuation of the automobile ignition and engine cranking systems until such time as the engine is started and the second of which controlling the period which the engine will run after actuation of the radio transmitter. The system further includes various safety features to preclude theft of the automobile as a result of the engine running and a system for initiating the energization of the accessory circuitry to permit energization of, for example, the air conditioning or heating system.

Family 8/8 - FAMPAT - ©Questel

Title

(US7259357)

Electronically controlled sealing, unsealing and/or bonding with metal strip or wire coated with liquefiable substance for redundant application and tamper detection

Images**Publication data including kind & date**

US20010056544	A1	2001-12-27	US20010056544
US6647328	B2	2003-11-11	US6647328
US20040049324	A1	2004-03-11	US20040049324
US7259357	B2	2007-08-21	US7259357
US20080091309	A1	2008-04-17	US20080091309

**Abstract**

(US7259357)

The invention seals, unseals and/or bonds plastics, waxes and resins via a thermal metal strip or wire coated with liquefiable substances that melt to open or separate and cool to congeal, seal, vulcanize or bond together when the wire or strip is energized in a shorted state (to heat) or not energized (to cool). Electronic switch modalities and sealing

applications are optionally taught for security and tamper detection. In one modality, a unique signal is sent to the gate leg of a micro-processing chip (e.g. an SCR switch) where firmware recognizes the signal and permits current through a thermal wire. This innovation is optionally employed for Homeland Security.