

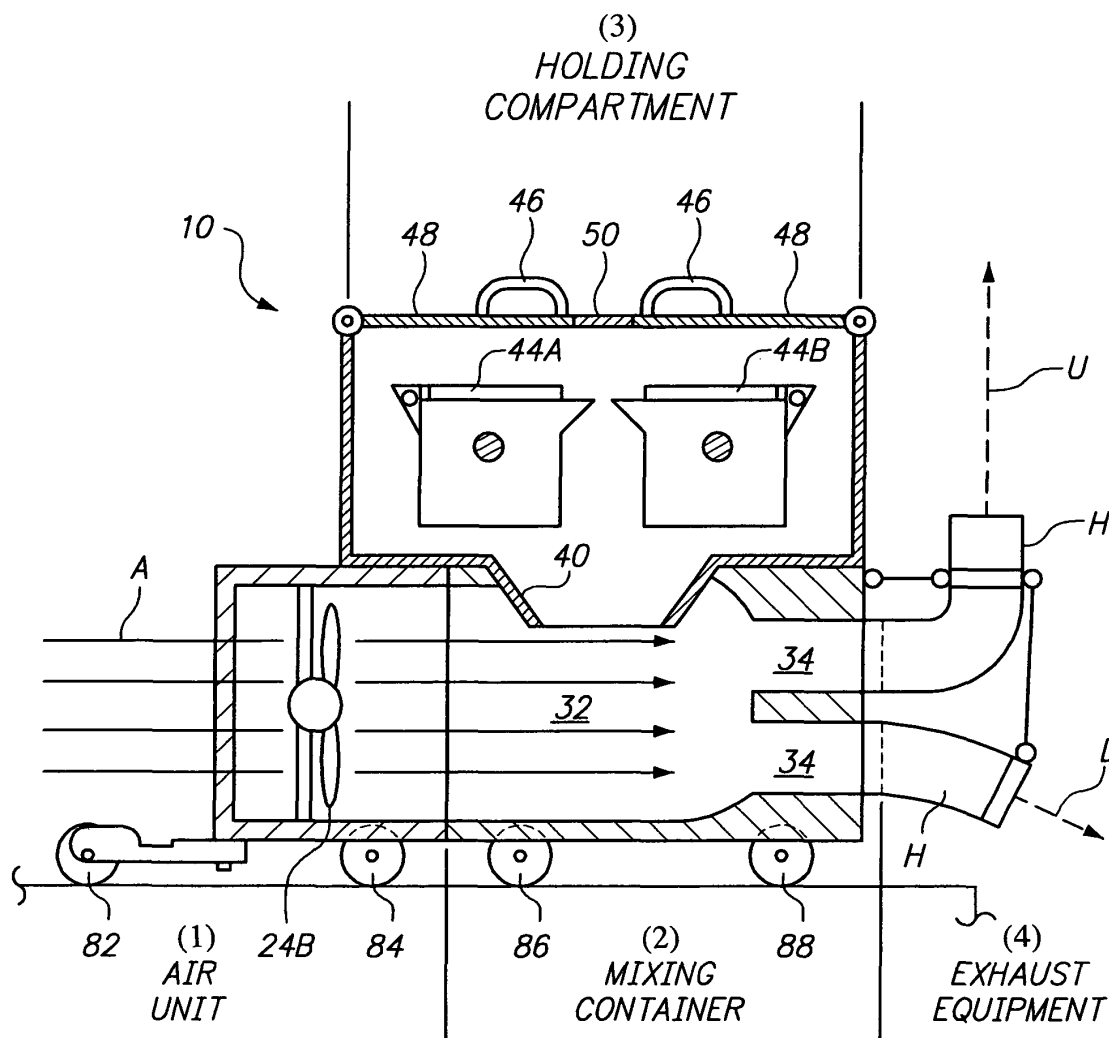
11 Documents

Publication numbers	Title	Current assignees
US20150159984 A1	Portable smoke screen delivery system	LEWIS NATHANIAL HENRY
US5941314 A	Portable battery-powered smoke ventilator fan and emergency lighting assemblies	SUPER VACUUM MANUFACTURING
CN206922297U U	Box intelligent substation of bottom slidable automatic fire extinguishing	PEOPLE ELE APPLIANCE SHANGHAI
US20070135779 A1	Removable manifold for a medical/surgical waste collection system, the manifold including tabs for alignment of the manifold	STRYKER
WO200882427 A1	Apparatus and method for using tetrazine-based energetic material	HALKEY ROBERTS
CN201600039U U	Electric stove bidirectional migration discharging fume tube synchronizer	WUXI DOGFANG ENVIRONMENTAL ENGINEERING DESIGN INSTITUTE
US5188299 A	Apparatus and method for recycling asphalt materials	RAP PROCESS MACHINERY
KR20070076412 A	Battery operated device	PANASONIC
CN104969723 A	Mowing machine with side-cutting large-width grass gathering function and automatic-locking logarithmic spiral brake	NINGBO DAYE GARDEN MACHINERY
JP2013004708 A	Heat radiation structure and heat radiation material	SGK
CA2597068 A1	Hydrogen and oxygen gases, produced on-demand by electrolysis, as a partial hybrid fuel source for internal combustion engines	HYTRONX TECHNOLOGIES

Family 1/11 - FAMPAT - ©Questel

Title

(US9568285)

Portable smoke screen delivery system**Images****Publication data including kind & date**[US20150159984](#)

A1 2015-06-11

US20150159984

[US9568285](#)

B2 2017-02-14

US9568285

**Abstract**

(US9568285)

This invention is about the art, science and technology of **smoke** screening. The three "areas of importance" are sea, land and air uses. During World War II military strategy was forever changed by the numerous offensive and defensive advantages created by the first ever effective large area **smoke** screen. **Smoke** screens were also used extensively during the Vietnam War. In wars since the Vietnam War there have been several military disasters—totally or partially—for not using **smoke** screens, it has been reported. This invention will eliminate leaking tanks, plugged up **exhaust** nozzles, loose control valves, inaccurate gauges and regulators found in earlier and present **smoke** screen delivery systems. No new technology is required.

Inventors

LEWIS NATHANIAL HENRY

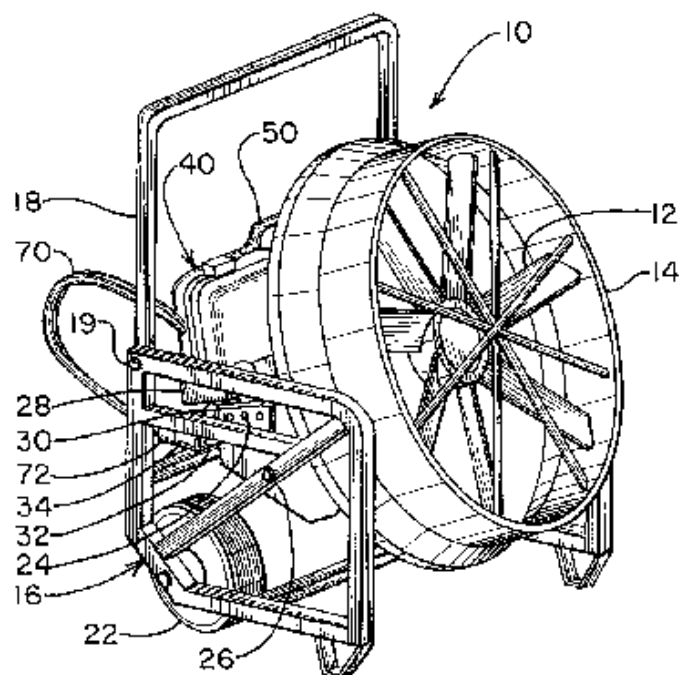
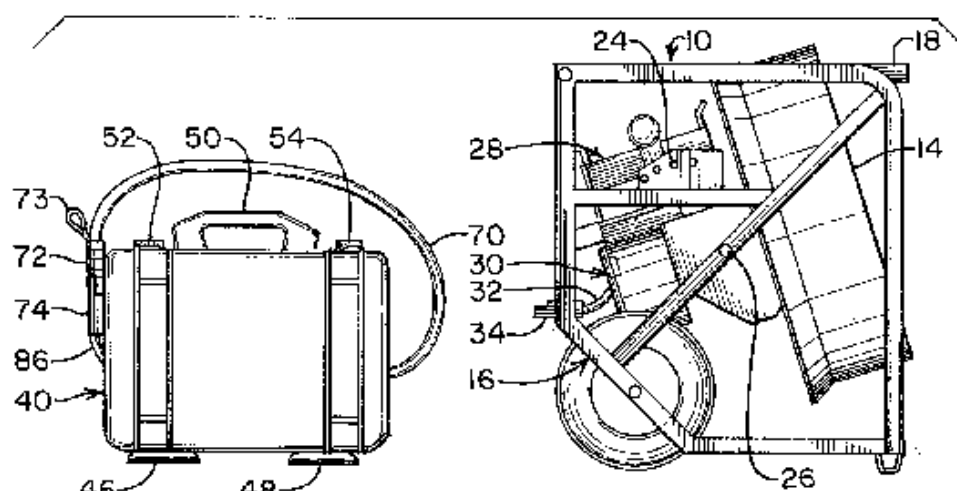
Family 2/11 - FAMPAT - ©Questel

Title

(US5941314)

Portable battery-powered smoke ventilator fan and emergency lighting assemblies

Images

FIG. 1FIG. 2

Publication data including kind & date

US5941314

A 1999-08-24 US5941314



Abstract

(US5941314)

A pressure ventilator of a type carried by firefighters and rescue workers to a burning building to provide either positive or negative pressure ventilation is characterized by a modular structure in which one module comprises a fan and electric motor unit mounted together in a frame on wheels with a handle and another module comprises a battery pack, motor controller, circuits, and connectable electric cables mounted together in a carrying case. The ventilator module has a

carrying structure for mounting and holding the battery module, and the battery module has enough capacity to drive the fan in the ventilator module for at least twenty minutes without falling below a minimum voltage threshold. The **motor** controller in the battery module compares actual voltage to the threshold and disconnects the batteries from the **motor** in the ventilator unit when the actual voltage falls below the threshold. Convenient cable mountings and connectors, parallel circuit connectors, and optional flood light with mountings and mating cable connectors are also provided.

Inventors

WEINMEISTER ROGER E

WEINMEISTER DON E

Latest standardized assignees - inventors removed

SUPER VACUUM MANUFACTURING

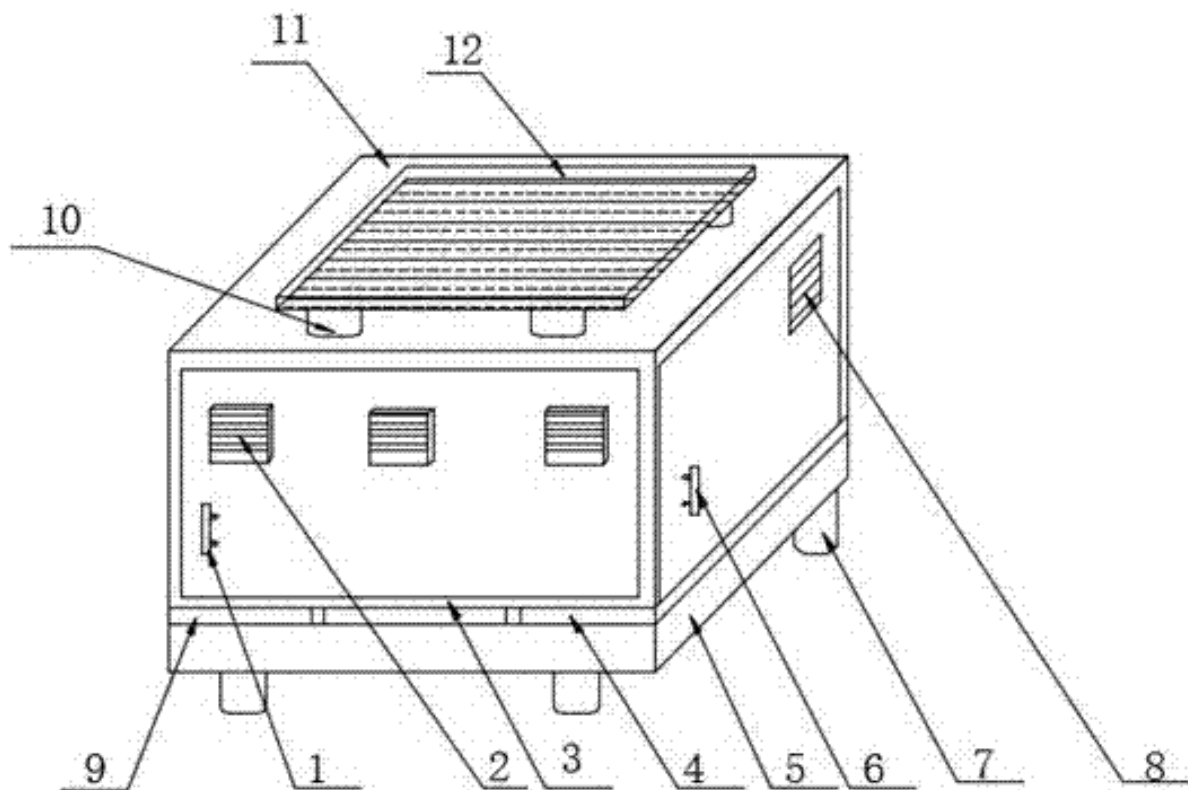
Family 3/11 - FAMPAT - ©Questel

Title

(CN206922297U)

Box intelligent substation of bottom slidable automatic **fire** extinguishing

Images



Publication data including kind & date

[CN206922297](#)

U

2018-01-23

CN206922297U



Abstract

(CN206922297U)

The utility model discloses a box intelligent substation of bottom slidable automatic **fire** extinguishing, including transformer substation's support column, the air discharge fan, the solar cell panelsupport column, the roof, solar cell panel, the battery, a servo **motor**, the control panel, first baffle, first slider, transformer substation's bottom plate, the second slider, the second baffle, **smoke** transducer, automatic sprinkler, a weighing sensor and a temperature sensor, supporting shaft, the low - pressure chamber, the power converter room, the hyperbaric chamber, the 2nd servo **motor**, first hob, a liquid crystal display screen, control button and PLC controller, this box -type substation, through seted up three shutter and an air discharge fan at box -type substation box body, coolingand ventilating's mesh has been reached, install temperature sensor and **smoke** transducer, the real time monitoring controller room of being convenient for, vary voltage room and hyperbaric chamber, set up solar cell panel and battery, can provide the power for box internal **motor**, and reduces

consumption of energy sources, the bottom plate is **portable**, and thus the cabinet is easy to maintain.

Inventors

LIU JUN

Latest standardized assignees - inventors removed

PEOPLE ELE APPLIANCE SHANGHAI

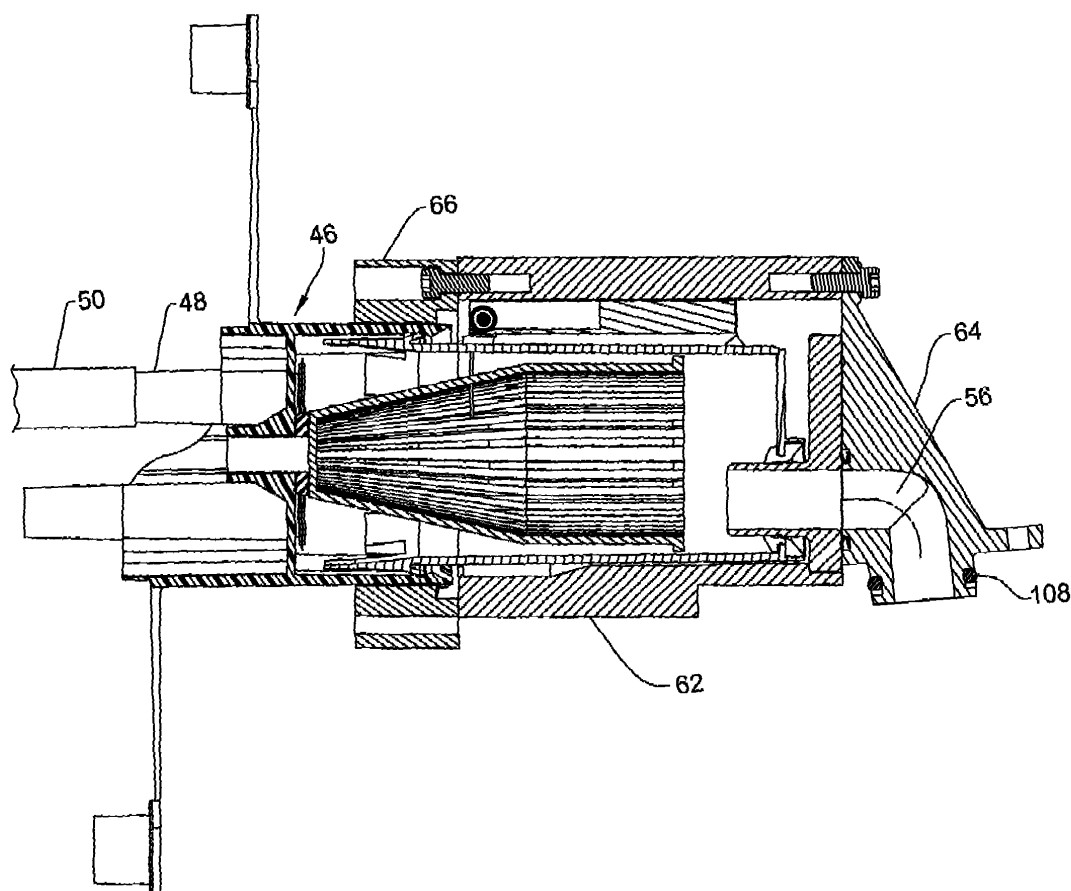
Family 4/11 - FAMPAT - ©Questel

Title

(EP3243535)

Removable manifold for a medical/surgical waste collection system, the manifold including tabs for alignment of the manifold

Images



Publication data including kind & date

US20070135779	A1	2007-06-14	US20070135779
US20070135778	A1	2007-06-14	US20070135778
CA2930748	A1	2007-06-21	CA2930748
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ES2637226	T3	2017-10-11	ES2637226				
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CA2930748	C	2017-12-05	CA2930748				
US20180221804	A1	2018-08-09	US20180221804				
US20180243487	A1	2018-08-30	US20180243487				

Abstract

(EP3243535)

A manifold for connection to a medical/surgical waste collection unit having a manifold receiver and a valve unit positioned to be engaged by a manifold drive member is described. A manifold housing is dimensioned to fit and rotate in the waste collection unit receiver. When in the waste collection unit receiver, the housing rotates around an axis extending distally from its proximal end base. The manifold drive member is adapted to engage an actuating member of the valve unit and is

located off center to the axis of the housing so as to rotate with the housing and, thereby, selectively open/close the valve unit. Two tabs extend outwardly from the housing and subtend different arcs so that said tabs, when in registration with complementary slots internal to the waste collection unit receiver, align said manifold drive member with the valve actuating member.

Inventors

MURRAY SEAN A

HERSHBERGER DAVID

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REASONER STEPHEN J

ISHAM STEPHEN P

Latest standardized assignees - inventors removed

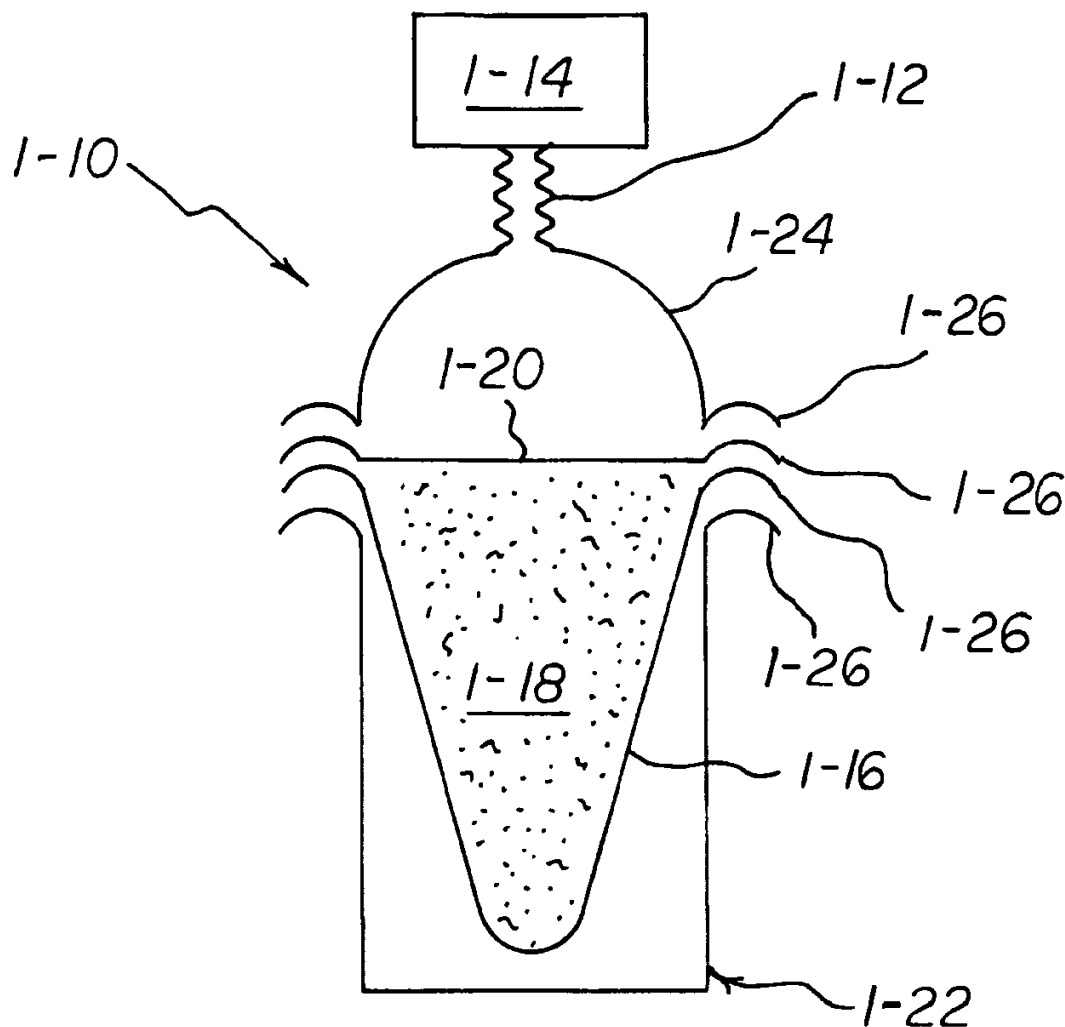
STRYKER

Family 5/11 - FAMPAT - ©Questel

Title

(EP1993977)

Apparatus and method for using tetrazine-based energetic material

Images**Publication data including kind & date**

WO2008082427	A1	2008-07-10	WO200882427
CA2642760	A1	2008-07-10	CA2642760
AU2007339414	A1	2008-07-10	AU2007339414



EP1993977	A1	2008-11-26	EP1993977				
JP2009526649	A	2009-07-23	JP2009526649				
US20090301601	A1	2009-12-10	US20090301601				
EP1993977	A4	2010-01-20	EP1993977				

Abstract

(EP1993977)

The present invention comprises apparatus and methods employing a gas produced from a tetrazine-based energetic material such as that known as " BTATz" containing 3;6-BtS(1 H- 1,2,3,4-Tetrazol-5-y1amino)1-,2,4,5-tetrazine 3;6-BtS(1 H- 1,2,3,4-Tetrazol-5-y1amino)1-,2,4,5-tetrazine or salts thereof.The tetrazinebased energetic material is ignited through the use of a percussion cap, a piezoelectric crystal or a battery-supplied **electric** spark or by encapsulating it in a container that is then exposed to a burning **flame**.The gas produced upon ignition is employed a propellant such as to inflate life rafts, life vests, emergency evacuation slides, tires, air bags and other inflatable devices.The gas produced upon ignition is alternatively employed to power an engine and many other applications such as a **fire** suppressant.

Inventors

ENERSON JON R

LUCIUS JOHN D

BATTAT DAVID

MACKAL GLENN

BATTAT EMILE

Latest standardized assignees - inventors removed

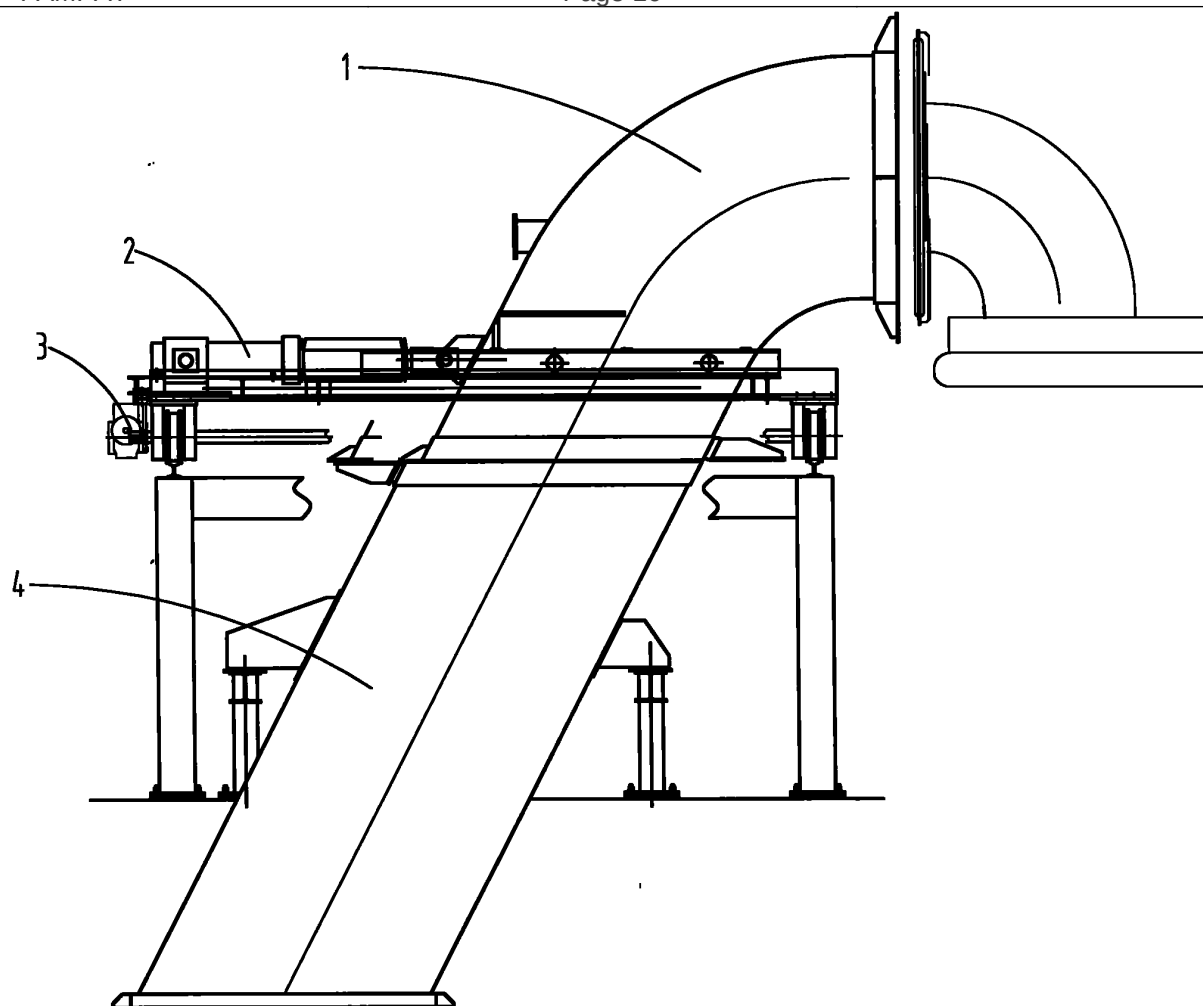
HALKEY ROBERTS

Family 6/11 - FAMPAT - ©Questel

Title

(CN201600039U)

Electric stove bidirectional migration discharging fume tube synchronizer**Images**

**Publication data including kind & date**

CN201600039

U

2010-10-06

CN201600039U

**Abstract**

(CN201600039U)

This utility model one kind of **electric** stove bidirectional migration discharging fume tube synchronizer, it including the discharging fume tube and servo speed reducer, cylinder, movable stand and motion guide rail, states the discharging fume tube is composed of the motion section discharging fume tube and fixed platoon flue header, states the movable stand and follows the movable stand including the making way movable stand, states moves the guide rail including making way to move the guide rail and following moves the guide rail, the cylinder with establishing, in making way to move the motion section discharging fume tube on guide rail to connect, servo speed reducer with establishing, in following moves the followed movable stand on guide rail to connect. This utility model discharging fume tube the motion direction realizes the migration with the cylinder in making way **electric** stove bung four, brings the discharging fume tube to follow the **electric** stove four hole migrations with the servo **motor**-driven in the **electric** stove bung four preferential motions' directions, achieves with the goals of **electric** stove four synchronization migrations, thus may, in does not affect in the situation that the bung opens more platoons the **electric** stove haze.

Inventors

YU TIANJIAN

GUO HUI

Latest standardized assignees - inventors removed

WUXI DOGFANG ENVIRONMENTAL ENGINEERING DESIGN INSTITUTE

Family 7/11 - FAMPAT - ©Questel

Title

(EP-536974)

Apparatus and method for recycling asphalt materials

Images**Publication data including kind & date**

US5188299	A	1993-02-23	US5188299
CA2080051	A1	1993-04-08	CA2080051
EP0536974	A2	1993-04-14	EP-536974
EP0536974	A3	1993-05-05	EP-536974
JPH05255912	A	1993-10-05	JP05255912
US5294062	A	1994-03-15	US5294062
EP0536974	B1	1997-07-30	EP-536974
DE69221249	D1	1997-09-04	DE69221249
DE69221249	T2	1998-02-19	DE69221249
CA2080051	C	2003-02-18	CA2080051

**Abstract**

(EP-536974)

Apparatus and method for processing asphalt material to be recycled by introducing used asphalt material from the field in relatively large pieces, as received from the field, into one end (16) of a cage-like array (52) of tubular breaker members (50) while simultaneously heating the tubular breaker members (50) from the other end (18) of the cage-like array and rotating the cage-like array about a tilted central axis of rotation to tumble the material within the cage-like array and reduce the size of the pieces of material to a desired aggregate size within a mass of material moving toward the other end of the cage-like array, the tubular breaker members being spaced apart circumferentially such that only the desired aggregate-sized pieces in the mass of material pass radially out of the cage-like array for delivery and reuse.

Inventors

HENDRICKSON ARTHUR N

HANLON LAWRENCE C

ANDERSON RUSSELL W

Latest standardized assignees - inventors removed

RAP PROCESS MACHINERY

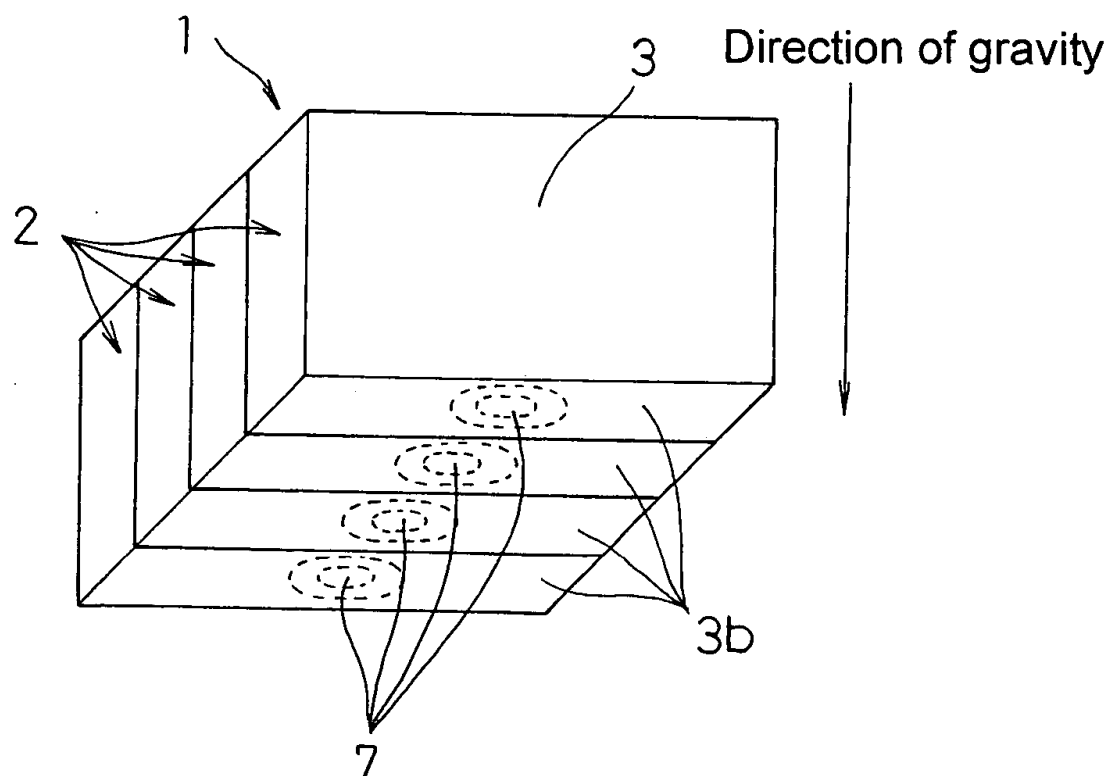
Family 8/11 - FAMPAT - ©Questel

Title

(US20070184337)

Battery operated device

Images



Publication data including kind & date

KR20070076412	A	2007-07-24	KR20070076412
CN101005128	A	2007-07-25	CN101005128
JP2007194001	A	2007-08-02	JP2007194001
US20070184337	A1	2007-08-09	US20070184337



Abstract

(US20070184337)

A battery operated device is equipped with one or more batteries each including a positive electrode, a negative electrode, a separator, and an electrolyte in a battery case. In this battery operated device, the battery has a gas vent that is opened due to an increase in pressure inside the battery case, and is configured to dispose the gas vent at a lower position thereof when installed in the battery operated device. Therefore, the battery function is ceased due to actuation of the gas vent.

Inventors

NAGAYAMA MASATOSHI

HATANAKA TSUYOSHI

FUJITA HIDEAKI

Latest standardized assignees - inventors removed

PANASONIC

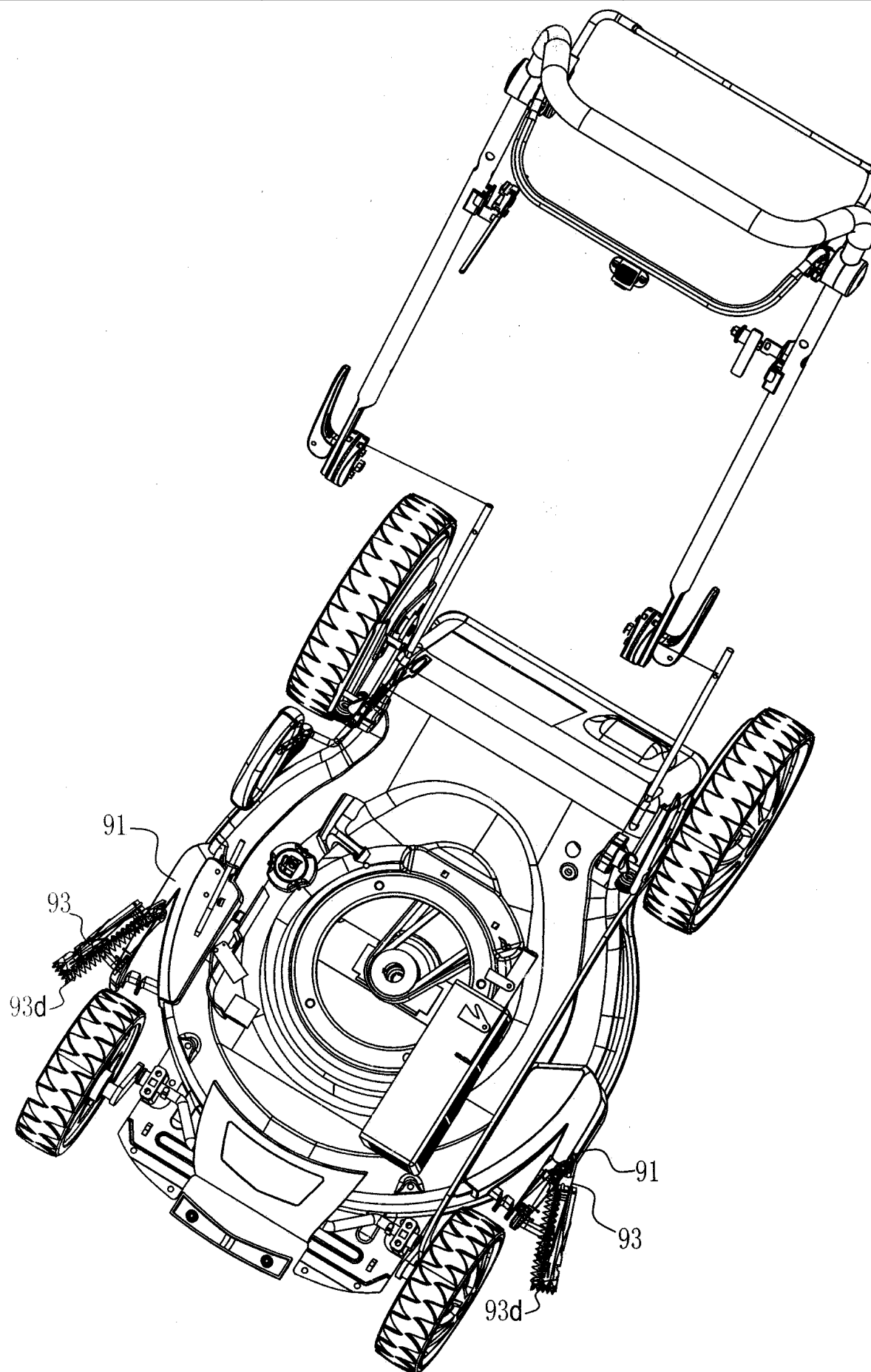
Family 9/11 - FAMPAT - ©Questel

Title

(CN104969723)

Mowing machine with side-cutting large-width grass gathering function and automatic-locking logarithmic spiral brake

Images



Publication data including kind & date

[CN104969723](#)

A 2015-10-14 CN104969723



Abstract

(CN104969723)

The invention relates to a mowing machine with a side-cutting large-width grass gathering function and an automatic-locking logarithmic spiral brake. The side-cutting large-width grass gathering function means that the mowing machine comprises a side-cutting device arranged on the two sides of the front wheels and on the edge of the cutting range of the mowing machine, such that the grass can be covered. The side-cutting device is composed of a side-cutting body (91), a side-cutting torsion spring (92), a side-cutting movable arm (93) and side-cutting trimming teeth (93d). A rotation shaft and the side-cutting torsion spring (92) are arranged on the side-cutting body (91). A side-cutting rotation sleeve (93c) is arranged on the side-cutting movable arm (93). The side-cutting rotation sleeve (93c) is movably arranged on the rotation shaft, and the side-cutting torsion spring (92) enters an assembly fixing position, such that the side-cutting movable arm (93) can be opened with a certain angle when mowing is carried out. The side-cutting movable arm (93) is also provided with the side-cutting trimming teeth (93d). The plan-view shape of the unilateral side-blade of the teeth of the side-cutting trimming teeth (93d) is a section of a logarithmic spiral with a constant pressure angle characteristic. The side-cutting trimming teeth has an arched back and a self-grinding function, such that slashing cutting and sliding cutting can be facilitated. Therefore, grass gathering and trimming are both facilitated.

Inventors

SU KE

YE XIAOBO

HU JINGRONG

XIAO XIAN GANG

ZHAO ZHIJIE

Latest standardized assignees - inventors removed

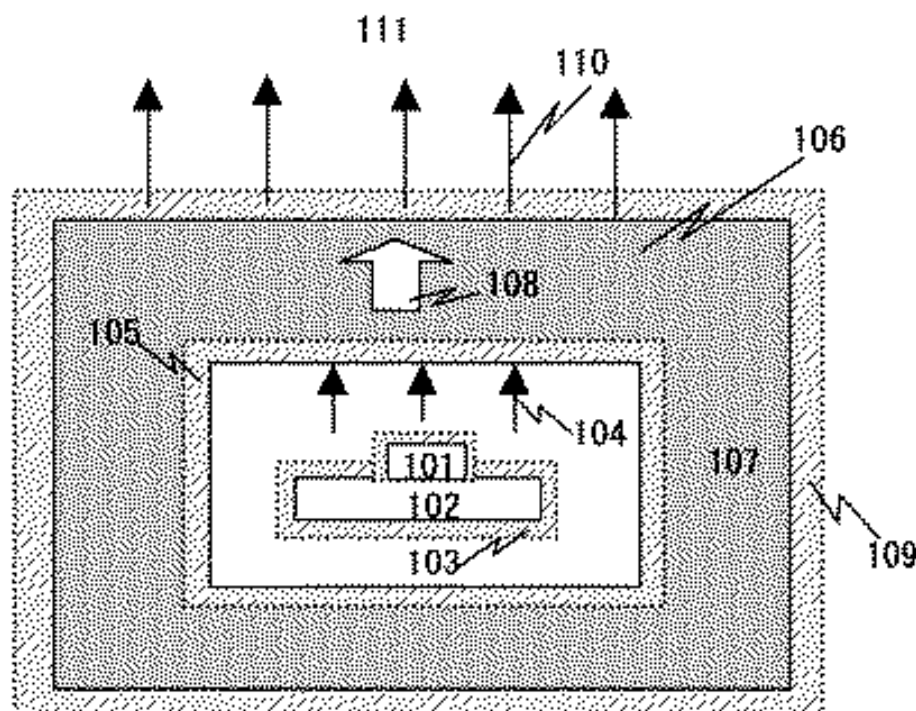
NINGBO DAYE GARDEN MACHINERY

Family 10/11 - FAMPAT - ©Questel

Title

(JP2013004708)

Heat radiation structure and heat radiation material

Images

JP2013004708

A 2013-01-07 JP2013004708

Abstract

(JP2013004708)

PROBLEM TO BE SOLVED: To provide a heat radiation material using silicon carbide powder as an insulating heat radiation filler, whose heat conductivity is 170 W/mk and whose thermal emissivity is 0.85 or more, but which is low in volume resistivity and is semiconductive, with a high specific resistance layer disposed on its surface, and an applied product thereof. **SOLUTION:** A high specific resistance layer is disposed on the surface of silicon carbide particles which have high heat conductivity and high thermal emissivity, but exhibit semiconductive specific resistance, so that when the silicon carbide particles are turned into a substance having insulating properties and then filled in resin, their insulating quality is retained, allowing their heat conductivity and thermal emissivity to increase even when the silicon carbide particles contact each other.

Inventors

SUZUKI KENICHI

SUZUKI EREMIYA

SUZUKI YOSHIHANE

Latest standardized assignees - inventors removed

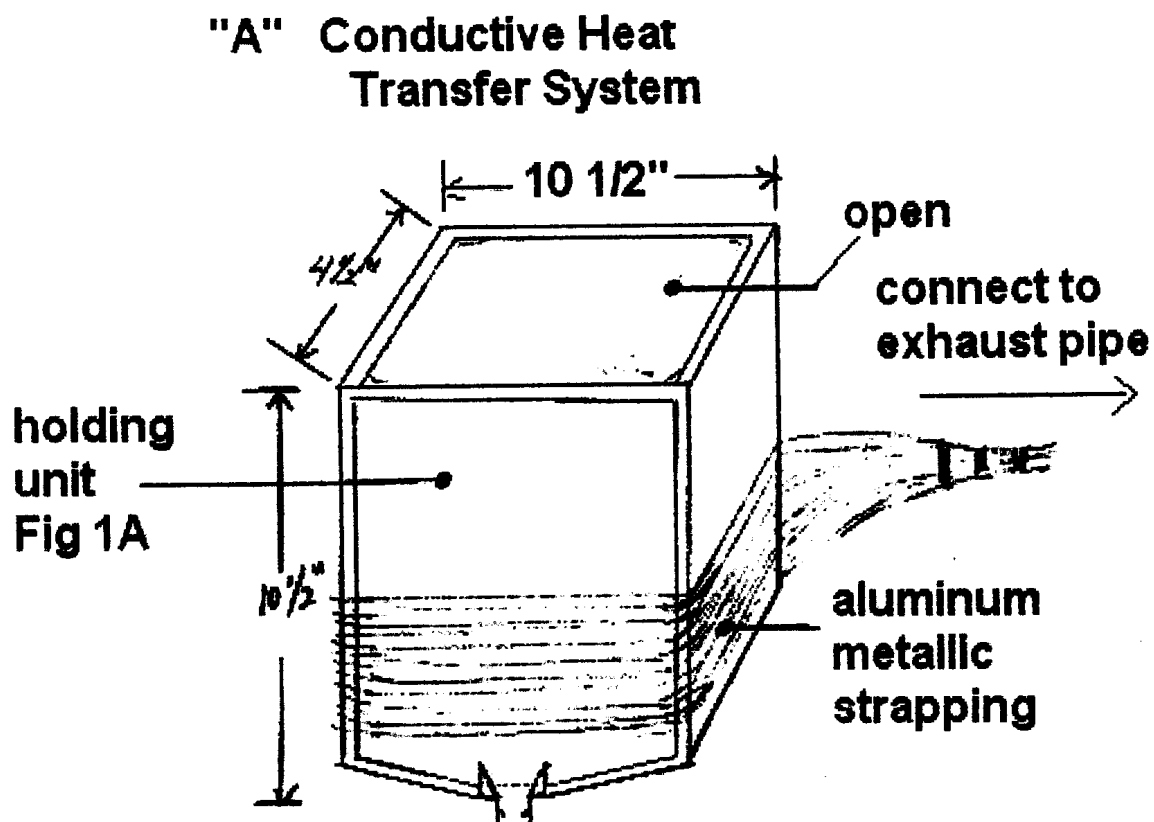
SGK

Family 11/11 - FAMPAT - ©Questel

Title

(EP2171249)

Hydrogen and oxygen gases, produced on-demand by electrolysis, as a partial hybrid fuel source for internal combustion engines

Images

**strapping -
option: connect to engine manifold**

Publication data including kind & date

CA2597068	A1	2008-12-19	CA2597068				
WO2008154721	A1	2008-12-24	WO2008154721				
EP2171249	A1	2010-04-07	EP2171249				
CN101779031	A	2010-07-14	CN101779031				
US20100181190	A1	2010-07-22	US20100181190				
EP2171249	A4	2013-01-02	EP2171249				

Abstract

(EP2171249)

A process encompassing hydrogen and oxygen gases as a partial fuel source when utilized together with a fossil-based fuel to power conventional internal combustion engines. Hydrogen and oxygen gases are produced by electrolysis in an electrolyser unit(s), on-demand and on-board a vehicle, or in stationary applications, eliminating the need of highly-pressurized hydrogen storage tanks. When said gases are introduced into the combustion chamber of the engine, via the air intake assembly, they increase the efficiency of the combustion burn by enriching the air to fuel ratio, resulting in a reduction of the fossil-based fuels required for optimum engine performance, said gases effectively becoming a partial hybrid fuel source. The process includes scalability for all size and types of installations, cold-weather applications and longer operating capabilities. As an additional benefit, in direct correlation, this process reduces carbon dioxide emissions, and, in varying quantities, other greenhouse gas emissions.

Inventors

ROMANIUK PETER J

Latest standardized assignees - inventors removed

HYTRONX TECHNOLOGIES