

Search history

Search 1: FT=(air* and conditioner* and peltier* and solar panel*) (Results 92)

1) Family number: 5262017 (US4658597A)

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Title: SOLAR POWERED AUTOMOBILE COOLING SYSTEM

Abstract: An automobile cooling system where electrical energy derived from solar cells are used to drive the pump and fan of a vehicle mounted evaporative cooling system. Automatic control of the system is provided by a thermostatic switch located within the vehicle.

Classifications:

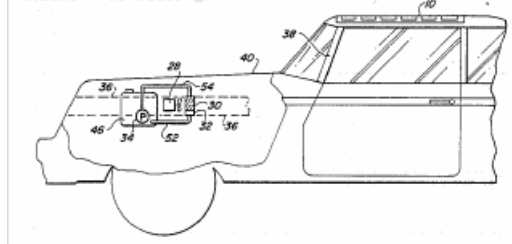
International (ipc 8-9): B60H1/00 F25B27/00 (Advanced/Invention);
B60H1/00 F25B27/00 (Core/Invention)

International (ipc 1-7): B60H1/32 F25B27/00 H01L35/12
CPC: Y10S136/291 Y10S454/90 F25B27/002 B60H1/00428
Y02T10/88

European: B60H1/00J1 F25B27/00B

US: 136/236.1 136/291 454/157 454/900 62/171 62/235.1 62/236
62/244 62/310

PatBase - US4658597_A



Family:

Publication number	Publication date	Application number	Application date
US4658597 A	19870421	US19850751540	19850703

Priority:

US19850751540 19850703

Probable Assignee:

SHUM SHU

Assignee(s): (std):

SHUM SHU

Inventor(s): (std):

SHUM SHU

2) Family number: 41909018 (US2008135224A)

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Title: ACTIVE FLUID AND AIR HEAT EXCHANGER AND METHOD

Abstract: The present invention relates to a modular apparatus and methods for active heat exchange involving continuous atomization of chilled or heated fluid droplets, droplets projection, and formation of fluid film on a large surface for reciprocal two way heat transfer with circulating air. A closed, pleated, corrugated, thin-wall, heat conductive chamber (1) provides the large surface for formation of fluid film and separation between fluid and air offering short and rapid heat conductive path between fluid and air. An axial blower (11) integrated with the heat exchanger module provides re-circulation of air where the heat exchanger module (28) is situated. The modular heat exchanger (28) or multiple of which is integrated with other components such as a refrigeration unit (37), a heating element (25), and a central fluid reservoir (23) in which fluid is pre-chilled or preheated in the application of air conditioning and heating. The fluid is conveyed by small bore tubes to individual modules by a pump (26) then returns to the central reservoir (23) for re-chill or reheat in a close loop fluid flow configuration. A stepping motor (7 c) controlled valve (7 B) regulated amount of fluid is processed by the heat exchanger. Energy is actively saved by control of heat exchange rate.

Classifications:

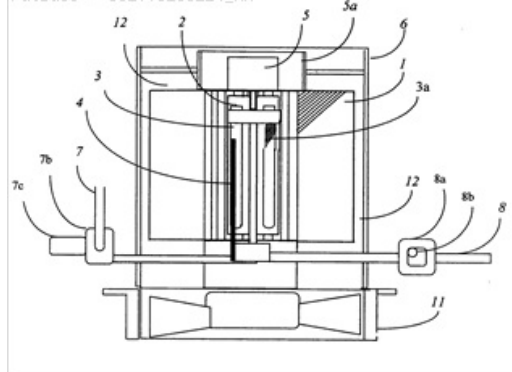
International (ipc 8-9): F24F11/02 F24F11/04 F24F3/14 F24H3/02
F25B29/00 F25B39/02 (Advanced/Invention);
F24F11/02 F24F11/04 F24F3/12 F24H3/02 F25B29/00
F25B39/02 (Core/Invention)

CPC: F24F6/043 F24F5/0035 F24F7/007

European: F24F5/00C7 F24F6/04B F24F7/007 Y02B30/14
Y02B30/54D

US: 165/121 165/121S 165/247 165/60 165/60S 62/515 62/515S

PatBase - US2008135224_AA



Family:

Publication number	Publication date	Application number	Application date
US2008135224 AA	20080612	US20060337883	20060124
US2009120630 AA	20090514	US20080336325	20081216

Priority:

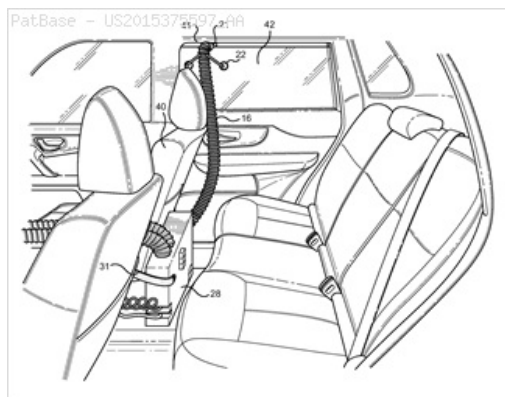
US20060337883 20060124 US20080336325 20081216

Probable Assignee: PUN JOHN YENKAI**Assignee(s):** (std): PUN JOHN Y ; PUN JOHN YENKAI**Inventor(s):** (std): PUN JOHN Y ; PUN JOHN YENKAI**Inventor(s):** PUN JOHN**Agent(s):** BEYER WEAVER LLP; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP**3) Family number: 61267043** (US2015375597A)

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Title: PORTABLE AIR CONDITIONING DEVICE FOR VEHICLES

Abstract: Disclosed is a portable air conditioning device for vehicles. The device includes a plurality of air duct hoses and an exhaust hose that is connected to a housing member that encloses a thermoelectric cooling module capable of producing heated or cooled air, and a fan with a fan speed control switch. The air duct hoses supply cool air to the interior of a vehicle while the exhaust hose releases heat to the outdoors. The device may be internally powered via a battery or externally powered via a power adaptor or outlet. The device may be conveniently placed inside of a vehicle and secured in place via a strap system disposed thereon. In this way, the device may be ideally used with existing vehicles lacking an operable air conditioning and/or heating system. Additionally, the device may be used to supplement an operable air conditioning system for a vehicle.

Classifications:**International (IPC 8-9):** B60H1/00 F24F5/00 (Advanced/Invention)**CPC:** B60H1/00478 F24F5/0042**US:** 62/3.61**Family:**

Publication number	Publication date	Application number	Application date
US2015375597 AA	20151231	US20150755357	20150630

Priority:

US20140018789P 20140630 US20150755357 20150630

Probable Assignee: CALLAHAN SHEA P**Assignee(s):** (std): CALLAHAN SHEA P**Inventor(s):** (std): CALLAHAN SHEA P**4) Family number: 50199043** (CA2752633A)

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Title: ELECTRET HIGH POWER: BATTERY / GENERATOR, SAFETY LIGHT, REFRIGERATOR, WATER DISTILLER, INSECT CATCHER

Abstract: This invention makes it possible to directly convert Heat Energy to Output Electric Energy and or to cool gases without compression. The cooling is determined if the container is open or closed. Solar Ponds or warm materials eg metal surfaces, can become the source of directly converted heat energy to electrical energy for insect control or for storage etc.. This invention involves the Sciences of Chemistry, Static Electricity and Electricity at the Ionic, Molecular and Free Electrons Atomic Level. The Description Section is divided into four main sections because this invention wants to clearly distinguish and to compare the differences of how electric charges can be made to flow when exposed to strong static charges Fig 1, Fig 7 and references to The Ideal Gas Law. The Output could be refrigeration cooling and or electricity generation. A High Permanently Charged Electret is one of the components. This invention when operating as an Electret Refrigerator uses non conductive electric, non heat, non static electric transfer insulated containers 1. a First "Input Cooling " 2. a Second "Controller Power Charging Capacitive Function [with optional cooling] " 3. a Third "Electron Carbon Particle Reservoir" or a Ground. The "Electron Carbon Particle Reservoir" is housed in a partially insulated Metal Box which can dissipate heat energy from the Energized Electrons where Kinetic is converted to Heat Energy. Heat Energy is expelled to the Ambient Air outside of the Refrigerator, Fig 1, alternatively to a battery or to a Ground. The refrigeration section must be continuously supplied with low energy Free Electrons, Fig 1, Fig 7. The reader should review the References of "The Induction of Charges" and "The Ideal Gas Law" because this invention is designed to transfer High Energized Charges Free Electrons than to transfer heated heavier ions as is done in the gas refrigerators or by the Peltier Effect Thermo-Electric Chips, Fig 11. This invention only consumed energy by alternatively moving an Insulation Dielectric which cannot be attracted or repelled by any static charges. NOTE: The invention does not compress a refrigeration gas nor depend on the heat energy transfer by ion carriers as is done by Peltier Effect Chips. The Highly Energized Charged Free Electrons are moved to transfer the Equivalent Heat Energy as Kinetic Energy. This invention makes it possible to directly convert Heat Energy to Output Electric Energy. Peltier Effect Cooling / Heating Chips consume much energy to move heavy heated ions. Peltier chips cannot be rated as efficient compared to other heat pumps because these can consume more energy than it extracted. The voltage ratings of PE are very low and continuously consume energy. Peltier Effects operates as a cargo carrier of energy than as a heat pump. Peltier Chips also have a limited temperature cooling or heating range. This invention uses Permanently Charged Particles which can have 100's or 1000's of permanent stored volts to cause the attraction of charges and indirectly later in a cycle, permits by its absence that these same induced charges to repel themselves to an Output. It operates analogous as an electro-magnet which attracts rolling metal balls toward a cliff and as soon as the rolling metal balls reach the cliff edge the electro-magnet is den-energized so that the metal steel balls under their rolling momentum are thrown off the edge of the cliff toward the ground. This invention uses an Insulation Dielectric Gate which cannot be Polarized to move alternatively out of the way so that the Charged Electret attracts free charges into a Metal Plate and then return in front of the Electret so it blocks the effect

of this permanent static field Electret. Then the crowded Energized Free Electrons fall to an Electrical Reservoir or to a Ground. Refer to how an electrician can be electrocuted or be shielded by his non electric conductive gloves or electrical tape. This invention uses Switches and Diodes with respect to charge sign polarity to act as gates which permit the attraction and then the repulsion. The Description Reference Section has copied articles and drawings on "The induction of Charges". This invention does not remove the charged Electret Plate but rather blocks the field effects. The Insulation Dielectric is much lighter in weight and is not able to be polarized. The result is that low energy cause high energy movement and then it can be rated by the use of mathematical efficiency ratios. The invention does not operate as a continuous Series Electronic Circuit as referenced with power supplies that power Thermo-Electric Peltier Effect Chips. This invention operates as a production conveyor which Pulls-In or Attracts Free Electrons which become Highly Energized. Then a Second Section conveyor is triggered to have these Energized Free Electrons Push-Out Expel or Self-Repel themselves to an Output Reservoir or to the charging of a battery etc.. As the refrigeration section keeps losing energy by the cycling of Low to Highly Energized Free Electrons, then the Refrigerator Air or Gas becomes cooler and cooler. A First Cooling Metal Plate is housed in the First "Input Cooling " Container. The Kinetic Energy of the collisions of the refrigerator "Air or Gas" is absorbed onto the Surface of the First Cooling Metal Plate. The First Cooling Metal Plate is connected by an electric conductive wire to a First-Second Diode and then to a Second Metal Plate. The Second Metal Plate is housed in the Second "Controller Power Charging Capacitive Function" Container. The Second "Controller Power Charging Capacitive Function " Container is a type of Capacitive Electron Vacuum Collector. The Second Metal Plate alternatively draws in Highly Energized Free Electrons through the First-Second Diode which came from the First Cooling Metal Plate. Afterward, these Energized Electrons which are now on the Second Metal Plate will be expelled by their own repulsion to the Output which is the Electron Carbon Particle Reservoir or Grounding if grounding is used. This repulsion occurs because 1. the Dielectric now is returned between the Positively Permanently Charged Electret and the Second Metal Plate 2. The First-Second Diode blocks reverse electron flow to the First Metal Plate 3. The Output Switch is closed 4. The Output Diode only permits Highly Energized Electrons to go to the Carbon Reservoir. Note that the charge on the Electrets must be much larger than any free electron charges in the Electron Carbon Reservoir or any Grounding if grounding is used. More Steps are explained in the Description Paragraphs and Drawing Figures. This invention can be scaled from low to very high cooling and the direct conversion of heat energy to electrical energy. Efficiencies are much greater than moving gases or ion carriers.

Classifications:

International (IPC 8-9): H02N99/00 (Advanced/Invention)

CPC: H02N99/00

European: H02N99/00

PatBase - CA2752633_AA 00150000 0011-09-20

Application number / Numéro de demande: 2752633

Figure: 1-2-3-4-5-6-7-8-9
10-11-12-13-14

Page: 1-107 conclusion

Unacceptable item received with this application
(Requiert original documents in File Prep. Section on the 10th floor)

Documents reçus avec cette demande ne pouvant être bûlâys
(Commander les documents originaux dans la section de la préparation des dossiers au 10^{ème} étage)

Family:

Publication number	Publication date	Application number	Application date
CA2752633 AA	20111128	CA20112752633	20110919

Priority:

CA20112752633 20110919

Probable Assignee:

HILLIAM KENNETH G

Assignee(s): (std):

HILLIAM KENNETH G

Inventor(s): (std):

HILLIAM KENNETH G

Agent(s):

NA

5) Family number: 49809048 (US2013200063A) © PatBase

Title: CONTAINER WITH THERMAL MANAGEMENT

Abstract: A thermal storage device (1) for storing and maintaining a body (5), such as liquid, at a constant storage temperature different to a temperature external (1') to such device, comprises: a container (4) for containing this body at the constant storage temperature; and a thermal source (3) for compensating heat transfer resulting from a thermal gradient between the external temperature and the constant storage temperature. The thermal source comprises a mass (31) for accumulating thermal energy and for transferring heat from or to the container to compensate said heat transfer resulting from the thermal gradient and maintain the body at the constant storage temperature.

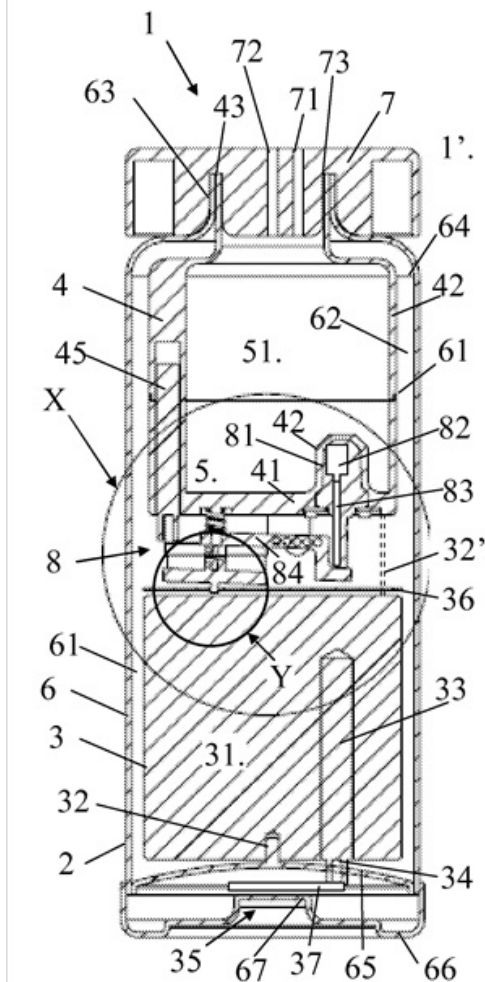
Classifications:

International (IPC 8-9): A23L2/00 A47J A47J31/00 A47J31/44 A47J39/00 A47J41/00 A47J41/02 B60L11/18 B65D81/18 C08J5/12 C09J7/00 C09J7/02 F24C15/34 F25B21/00 F25B21/02 F25D11/00 F25D3/00 H02J7/00 H05B3/02 (Advanced/Invention); B65D25/20 (Advanced/Non-invention); A47J (Subclass/Invention)

CPC: A23L2/00 A47J41/0044 H05B3/02 Y02A40/965

European: A47J41/00E1

US: 219/439

**Family:**

Publication number	Publication date	Application number	Application date
AU2011244406 AA	20111027	AU20110244406	20110418
AU2011244406 BB	20160728	AU20110244406	20110418
CA2795827 AA	20111027	CA20112795827	20110418
CN102858213 A	20130102	CN201180019693	20110418
CN102858213 B	20151125	CN201180019693	20110418
DE602011025178 D1	20160519	DE201160025178T	20110418
EP2560527 A2	20130227	EP20110718310	20110418
EP2727503 A1	20140507	EP20140153183	20110418
EP2727503 B1	20160406	EP20140153183	20110418
HK1180561 A1	20131025	HK20130107934	20130708
IL222395 A0	20121231	IL20110222395	20110418
IN08523DN2012 A	20140321	IN2012DN08523	20120928
JP2013529940 T2	20130725	JP20130505425T	20110418
JP5911473 B2	20160427	JP20130505425T	20110418
KR20130065659 A	20130619	KR20127030404	20110418
MX2012011468 A1	20121121	MX20120011468	20110418
RU2012149190 A	20140527	RU20120149190	20110418
RU2560350 C2	20150820	RU20120149190	20110418
SG184337 A1	20121129	SG20120072302	20110418
US2013200063 AA	20130808	US20110642238	20110418
WO11131595 A2	20111027	WO2011EP56070	20110418
WO11131595 A3	20111215	WO2011EP56070	20110418
ZA201208680 A	20140430	ZA20120008680	20121119

Priority:

EP20100160459 20100420 EP20110718310 20110418 WO2011EP56070 20110418
 EP20140153183 20110418

Probable Assignee: NESTEC SA

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Assignee(s): NESTEC S A

Inventor(s): (std): COOKE CHARLES BRIAN DURLER ; JARISCH CHRISTIAN ; PERENTES ALEXANDRE ; PALMER TIMOTHY JOHN ; ENGELBRECHT PIROW ; ZHARISH KRISTIAN ; KUK CHARL Z BRAJAN DERLER ; PERANTE ALEKSANDR ; EHNGEL BREKHT PAJROU ; PALMER TIMOTI DZHON ; PERENTES ALEXANDER

Inventor(s): ENGELBRECHT PIROW MELBOURN ROYSTON ; PALMER TIMOTHY JOHN CAMBS ; COOKE CHARLES

Agent(s): BRIAN DURLER HERTS ; TIMOTHY JOHN PALMER ; CHRISTIAN JARISCH ; CHARLES BRIAN DURLER COOKE ; ALEXANDRE PERENTES ; PIROW ENGELBRECHT
SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERRAIS LLP; MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; Gundel Isabelle; SCHNYDER FRANK SIMON; ZHONGZI IP; SIVIER DAMIEN

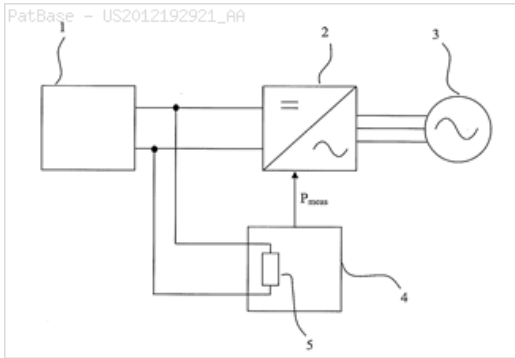
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6) Family number: 51605073 (US2012192921A)
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Title: METHOD AND AN ARRANGEMENT IN CONNECTION WITH A SOLAR ENERGY SYSTEM

Abstract: An arrangement and a method are provided in connection with a solar energy system. The arrangement includes solar panels and a converter for converting the DC voltage from the solar panels. The converter is arranged inside a container or a similar closed structure. The arrangement includes means for producing heat from the energy produced by the solar panels. The means are arranged inside the container or a similar closed structure and are electrically connectable to the solar panels.

Classifications:
International (IPC 8-9): H01L31/02 H01L31/042 H01L31/058 H02N6/00 H02S40/00 H02S40/32 H02S40/40 H05B3/00 H05K7/20 (Advanced/Invention); H02J3/38 (Advanced/Non-invention)
CPC: H02S40/40 H02S40/32 H01L31/02021 H02J3/383 H02S40/00 Y02E10/563 Y10T307/50
European: H05K7/20S90
US: 1/1 136/248 307/43



Family:

Publication number	Publication date	Application number	Application date
CN102625491 A	20120801	CN201210014831	20120117
CN102625491 B	20150805	CN201210014831	20120117
DE602011007523 D1	20140724	DE201160007523T	20110131
EP2482626 A1	20120801	EP20110152686	20110131
EP2482626 B1	20140611	EP20110152686	20110131
US2012192921 AA	20120802	US20120350219	20120113
US2015091381 AA	20150402	US20140564376	20141209
US9374034 BB	20160621	US20140564376	20141209

Priority:
EP20110152686 20110131 US20120350219 20120113 US20140564376 20141209

Probable Assignee: ABB OY

Assignee(s): (std): ABB TECHNOLOGY AG ; KOIVULUOMA TIMO ; KOISTINEN VESA ; TIITTANEN JUKKA ; ABB OY

Assignee(s): ABB SCHWEIZ AG

Inventor(s): (std): TIMO KOIVULUOMA ; VESA KOISTINEN ; JUKKA TIITTANEN ; KOISTINEN VESA ; KOIVULUOMA TIMO ; TIITTANEN JUKKA

Agent(s): PARTA ARI PETRI; KOLSTER OY AB; TAFT STETTINIUS AND HOLLISTER LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

7) Family number: 44030080 (DE102008024793A1)
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Title: POWER SUPPLY SYSTEM FOR VEHICLE, HAS FUEL CELL SYSTEM OPERATING TEMPERING SYSTEM FOR TEMPERATURE-SENSITIVE BATTERY, WHERE TEMPERATURE-SENSITIVE BATTERY IS TAMPERED DEPENDING ON OPERATING TEMPERATURE OF TEMPERATURE-SENSITIVE BATTERY

Abstract: The system has a fuel cell system (20) operating a tempering system (24) for a temperature-sensitive battery (18) e.g. lithium ion batteries. An additional battery (22) is provided for starting the fuel cell system. The temperature-sensitive battery is tampered depending on an operating temperature of the temperature-sensitive battery. The additional battery is tempered by an additional tempering system (26) depending on an operating temperature of the additional battery in a starting phase of the fuel cell system. An independent claim is also included for a method for tempering a temperature-sensitive battery of a power supply system.

Classifications:
International (IPC 8-9): H01M10/50 H01M16/00 H01M8/04 (Advanced/Invention); H01M10/42 H01M16/00 H01M8/04 (Core/Invention)
CPC: H01M8/0432 H01M16/006 H01M10/613 H01M10/615 H01M10/625 H01M10/63 H01M10/65 H01M10/6572 H01M10/66
European: H01M10/50C2 H01M10/50C4 H01M10/50D4 H01M10/50F H01M10/50K H01M10/50K14D H01M10/50M H01M16/00F2 H01M8/04H4B Y02E60/12 Y02E60/50

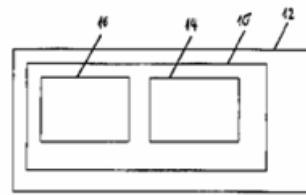


Fig. 1

13/18

Family:

Publication number	Publication date	Application number	Application date
DE102008024793 A1	20091126	DE200810024793	20080523

Priority:

DE200810024793 20080523

Probable Assignee: ENERDAY GMBH

Assignee(s): (std): ENERDAY GMBH

Inventor(s): (std): PFALZGRAF MANFRED ; KHELIFA NOUREDDINE

8) Family number: 41770092 (US2008098750A)

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Title: THERMOELECTRIC COOLING/HEATING DEVICE

Abstract: A device for heating or cooling air, has a housing with an inlet and an outlet, as well as an inlet plenum and an outlet plenum for passing air through the housing. A heat sink defines a plurality of air passages between the inlet and outlet and fans in the housing move air through the inlet plenum, across the passages, into the outlet plenum. A plurality of Peltier modules in the housing each have one surface in heat transfer contact with the heat sink and an opposite surface in contact with a heat transfer circuit such as a flow or water in pipes, for cooling or heating the opposite surfaces. A purely relay-based, or PWM-based power circuit is connected to the modules for powering the modules and fans to cool or heat the heat sink.

Classifications:

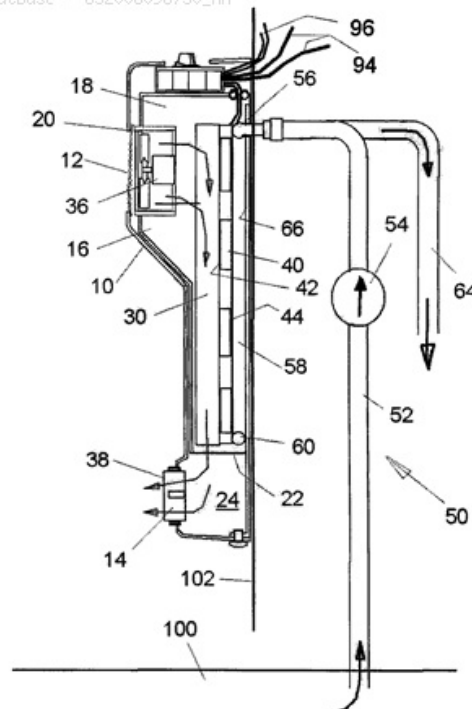
International (IPC 8-9): F25B21/02 (Advanced/Invention);
F25B21/02 (Core/Invention)

CPC: F24H4/04 F25B21/04 F25B2321/0211 F25B2321/0212
F25B2321/025

European: F24H4/04 F25B21/04 R25B321/0211 R25B321/0212
R25B321/025

US: 62/3.3 62/3.300P 62/3.7 62/3.700S 62/33

PatBase - US2008098750_AA



Family:

Publication number	Publication date	Application number	Application date
US2008098750 AA	20080501	US20060553655	20061027

Priority:

US20060553655 20061027

Probable Assignee: ACI IND TECHNOLOGIES LLC**Assignee(s):** (std): BUSIER MARK J**Assignee(s):** ACI IND ; ACI IND TECHNOLOGIES LLC**Inventor(s):** (std): BUSIER MARK J**Agent(s):** NOTARO AND MICHALOS**9) Family number: 40843094 (US2007272290A)**

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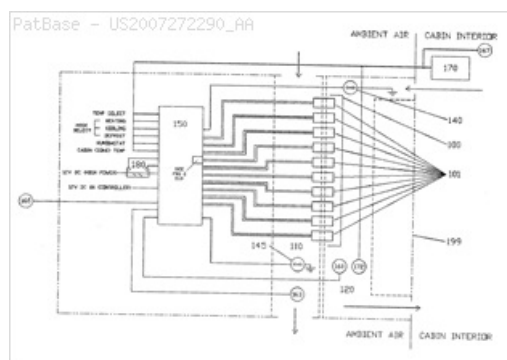
Title: REGULATING VEHICLE CABIN ENVIRONMENT AND GENERATING SUPPLEMENTAL ELECTRICAL CURRENT FROM WASTE HEAT

Abstract: A method and system for environmental control and supplementary power generation in conventional and hybrid vehicle applications is presented. A thermoelectric heat pump function regulates vehicular interior temperature environments and uses the waste heat from a vehicles engine to power thermocouples and generate supplemental electrical current to power electrical devices. Thermocouples are used to gauge changes in temperature. The Peltier Effect is used to provide both primary cabin environmental control and supplementary power generation for motorized vehicle applications. Thermoelectric generators can be used for both primary internal climate control and supplementary power generation in the vehicular environment. Thermoelectric heat pumps' special characteristics are used to provide (a) primary cabin environment control including cooling, heating, dehumidifying, defrosting, pre-heating/pre-cooling and (b) supplemental DC power generation functions for conventional fossil fueled and/or biomass-fueled vehicles as well as emerging hybrid or all electric vehicle applications.

Classifications:**International (IPC 8-9):** H01L35/28 H01L35/30

H01L35/34 (Advanced/Invention);

H01L35/00 H01L35/28 (Core/Invention)

CPC: H01L35/30 B60H1/004 B60H1/00478 F02G5/00 F02G2260/00 Y02T10/166**European:** B60H1/00H4B B60H1/00L F02G5/00 H01L35/30 R02G260/00**US:** 136/201 136/203 136/203S 136/205 136/205S**Family:**

Publication number	Publication date	Application number	Application date
US2007272290 AA	20071129	US20070753187	20070524

Priority:

US20060802905P 20060524 US20070753187 20070524

Probable Assignee: STATE OF FRANKLIN INNOVATIONS LLC**Assignee(s):** (std): EASON MARTIN P ; HEMPHILL WILLIAM K ; SIMS JOSEPH P**Assignee(s):** STATE OF FRANKLIN INNOVATIONS LLC**Inventor(s):** (std): SIMS JOSEPH P ; HEMPHILL WILLIAM K ; EASON MARTIN P**Inventor(s):** EASON MARTIN ; HEMPHILL WILLIAM ; SIMS JOSEPH ; SIMS JOSEPH PAUL**Agent(s):** DINSMORE AND SHOHL LLP**10) Family number: 8379099 (US4292579A)**

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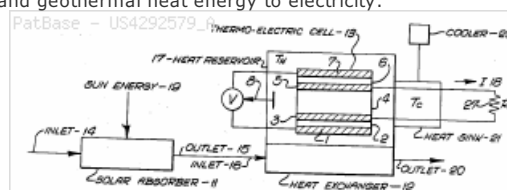
Title: THERMOELECTRIC GENERATOR

Abstract: Apparatus and method for a thermoelectric generator which converts heat directly from a heat source into electrical energy. This is done by applying an external electromotive force (emf) across a heated semiconductor to produce the drifting of electrons and thereby producing a current in the semiconductor which can be used in a load. Operation is possible at maximum power, maximum efficiency near unity, or at high combined power and efficiency. When used separately or in combination with a concentrating lens or combination of a heat absorber and heat exchanger there is provided a system for converting the sun's energy to electricity. When used in combination with a heat absorber and heat exchanger there is provided a system for converting fossil, nuclear, and geothermal heat energy to electricity.

Classifications:**International (IPC 8-9):** H01L35/00 H01L35/30

H02N11/00 (Advanced/Invention);

H01L35/00 H01L35/28 H02N11/00 (Core/Invention)

International (IPC 1-7): H01L35/28 H02N3/00**CPC:** H01L35/00 H01L35/30**European:** H01L35/00 H01L35/30 H02N11/00B**US:** 136/203 310/306 322/2R**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

US19770834452 19770919 US19780953550 19781023

Probable Assignee: ADVANCED MICRO DEVICES INC**Assignee(s):** (std): CONSTANT JAMES N**Assignee(s):** ADVANCED MICRO DEVICES INC ; BROWN VOLNEY V ; BROWN VOLNEY V JR MAGISTRATE ; CONSTANT ARGEREY ; CONSTANT ARGEREY 1603 DANBURY DRIVE CLAREMONT CA 91711**Inventor(s):** (std): CONSTANT JAMES N**11) Family number: 66860106 (US2017252256A)**

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Title: TACTILE WARNING PANEL APPARATUS AND SYSTEM WITH SMART TECHNOLOGY

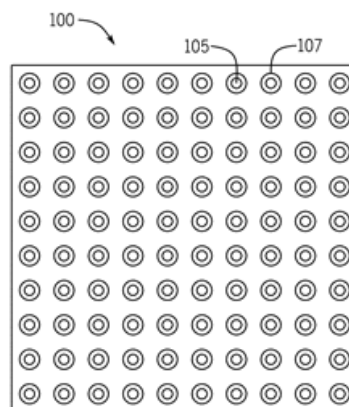
Abstract: The present invention relates to tactile warning panels, and in particular to tactile warning panels that are designed and built with multifunction/multipurpose capabilities that serve the visually impaired and enable the deployment of smart city technology by integrating tactile warning systems and subsurface enclosures that can withstand pressures of five (5) tons up to and exceeding sixty (60) tons and incorporate small cells, beacons, sensors, Fog Computing, electric energy generation, rechargeable power supplies, wireless M2M communication and a plethora of other smart city technologies.

Classifications:

International (IPC 8-9): A61H3/06 E01C5/00 E01C5/06 E01C5/16 E01C5/20 E01C5/22 G08B6/00 G09B21/00 H02G9/06 H02G9/10 (Advanced/Invention)

CPC: A61H3/061 E01C5/001 A61H2003/063 G08B6/00 E01C5/06 E01C5/16 E01C5/20 E01C5/22 A61H2201/0207 A61H2201/0214 A61H2201/501 A61H2201/5058 A61H2201/5061 A61H2201/5082 A61H2201/5092 A61H2201/5097 G09B21/004 H02G9/06 H02G9/10

PatBase - US2017252256_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2017228359 AA	20181011	AU20170228359	20170228
EP3423022 A1	20190109	EP20170760630	20170228
US2017252256 AA	20170907	US20170445438	20170228
US2018014994 AA	20180118	US20170717514	20170927
US2018028393 AA	20180201	US20170717511	20170927
US2018028394 AA	20180201	US20170717519	20170927
US2019046391 AA	20190214	US20180160545	20181015
US9789025 BB	20171017	US20170445438	20170228
US9949886 BB	20180424	US20170717514	20170927
US10098805 BB	20181016	US20170717511	20170927
US10098806 BB	20181016	US20170717519	20170927
WO17151643 A1	20170908	WO2017US19988	20170228

Priority:

US20160301864P 20160301 US20170445438 20170228 WO2017US19988 20170228
 US20170717514 20170927 US20170717511 20170927 US20170717519 20170927
 US20180160545 20181015

Probable Assignee: BRANDBUMPS LLC**Assignee(s):** (std): BRANDBUMPS LLC ; BRANDSBUMPS LLC**Inventor(s):** (std): RICE JAMES CYRUS ; HENSHUE CHRISTOPHER GARY ; HENSHUE GARY LAVERNE**Agent(s):** SPRUSON AND FERGUSON; ALGEMEEN OCTROOI EN MERKENBUREAU BV; CASIMIR JONES SC; CASMIR JONES SC; JONES J MITCHELL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 55663125 (US2014021798A)

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Title: WIRELESS ENERGY TRANSFER WITH REPEATER RESONATORS

Abstract: Described herein are systems for wireless energy transfer distribution over a defined area. Energy may be distributed over the area via a plurality of repeater, source, and device resonators. The resonators within the area may be

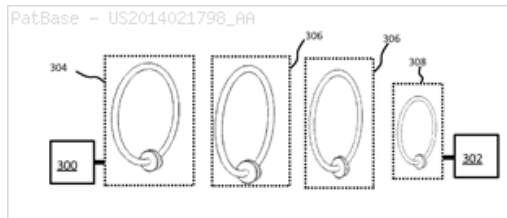
tunable and the distribution of energy or magnetic fields within the area may be configured depending on device position and power needs.

Classifications:

International (IPC 8-9): G01R19/165 H02J17/00 (Advanced/Invention)

CPC: H01F38/14 H02J50/50 H02J7/025 H02J50/12 H02J50/40
H02J50/60 H02J50/70 H02J50/80 H02J5/005

US: 307/104 324/76.11



Family:

Publication number	Publication date	Application number	Application date
US2014021798 AA	20140123	US20130944693	20130717

Priority:

US20120672423P 20120717 US20130944693 20130717

Probable Assignee: WITRICITY CORP

Assignee(s): (std): WITRICITY CORP

Inventor(s): (std): HALL KATHERINE L ; KURS ANDRE B ; KESLER MORRIS P ; MCCAULEY ALEXANDER P ; VERGHESE SIMON ; KULIKOWSKI KONRAD J

13) Family number: 60956126 (US2017104426A)

© PatBase

Title: ELECTRICAL POWER GENERATION SYSTEMS AND METHODS REGARDING SAME

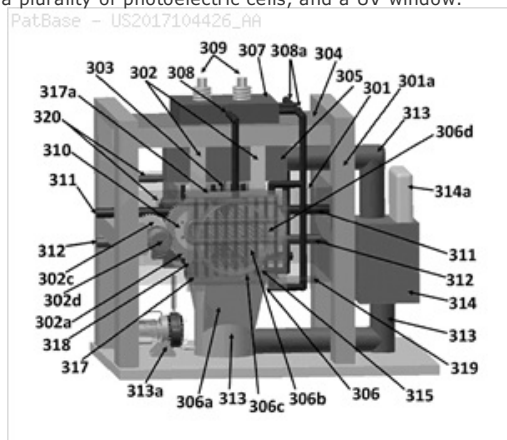
Abstract: A solid or liquid fuel to plasma to electricity power source that provides at least; one of electrical and thermal power comprising (i) at least one reaction cell for the catalysis of atomic hydrogen to form hydridinos, (ii) a chemical fuel mixture comprising at least two components chosen from: a source of H₂O catalyst or H₂O catalyst; a source of atomic hydrogen or atomic hydrogen; reactants to form the source of H₂O catalyst or H₂O catalyst and a source of atomic hydrogen or atomic hydrogen; one or more reactants to initiate the catalysis of atomic hydrogen; and a material to cause the fuel to be highly conductive, (iii) a fuel injection system such as a railgun shot injector, (iv) at least one set of electrodes that confine the fuel and an electrical power source that provides repetitive short bursts of low-voltage, high-current electrical energy to initiate rapid kinetics of the hydridino reaction and an energy gain due to forming hydridinos to form a brilliant-light emitting plasma, (v) a product recovery system such as at least one of an augmented plasma railgun recovery system and a gravity recovery system (vi) a fuel pelletizer or shot maker comprising a source of hydrogen and a source of H₂O, a dropper and a water bath to form fuel pellets or shot, and an agitator to feed shot into the injector, and (vii) a power converter capable of converting the high-power light output of the cell into electricity such as a concentrated solar power device comprising a plurality of ultraviolet (UV) photoelectric cells or a plurality of photoelectric cells, and a UV window.

Classifications:

International (IPC 8-9): B22F9/08 C25B1/04 C25B13/04 G21B G21B1/15 G21B1/21 G21B3/00 G21G5/00 G21G7/00 H01L31/0304 H01L31/0725 H01L31/0735 H02N3/00 H02S10/10 H02S10/30 H02S10/40 H02S40/22 H02S40/32 H02S40/38 H02S40/42 H02S40/44 H05H1/24 H05H1/48 (Advanced/Invention); G21B (Subclass/Invention)

CPC: G21B1/15 Y02E30/16 Y02E30/18 H05H2240/00 H02S10/40 H05H1/24 H01L31/0725 H01L31/0735 H02S40/32 H02S40/38 H02S40/22 H02S40/42 C25B1/04 H05H2277/13 H05H1/46 H05H2001/466 Y02E60/366 Y02E70/10 Y02P20/129 Y02P20/134 B22F2009/0888 B22F2009/0896 H01L31/0547 H01L31/0549 H02S10/10 H02S40/425 H02S40/44 H02S10/30 Y02E10/52 Y02E10/544 Y02E10/60 H05H1/48 G21B3/00 C25B13/04

US: 310/306



Family:

Publication number	Publication date	Application number	Application date
AU2015266760 AA	20170112	AU20150266760	20150529
AU2016260177 AA	20171207	AU20160260177	20160108
BR112016027844 A2	20170822	BR20161127844	20150529
BR112017024055 A2	20180724	BR20171124055	20160108
CA2948640 AA	20161109	CA20152948640	20150529
CA2985328 AA	20171107	CA20162985328	20160108
CN1070777893 A	20170818	CN201580040818	20150529
CN107710331 A	20180216	CN201680037525	20160108
EA201692463 A1	20171031	EA20160092463	20150529
EA201792477 A1	20180629	EA20170092477	20160108
EP3149745 A1	20170405	EP20150731756	20150529
EP3295460 A1	20180321	EP20160793102	20160108
EP3295460 A4	20190501	EP20160793102	20160108
HK1242041 A1	20180615	HK20180101182	20180125
HK1250837 A1	20190111	HK20180110223	20180809
ID201800544 A	20180119	ID2016P0008044	20150529
ID201806392 A	20180629	ID2017PID08669	20160108
IL249224 A0	20170228	IL20150249224	20150529
IL255495 A0	20180131	IL20160255495	20160108
IN201617040352 A	20170331	IN201617040352	20161125
IN201717042676 A	20180316	IN201717042676	20171128

JP2017527091 T2	20170914	JP20170515023T	20150529
JP2018524557 T2	20180830	JP20170558527T	20160108
KR20170013357 A	20170206	KR20167037020	20150529
KR20180016397 A	20180214	KR20177035406	20160108
MX2016015386 A1	20180126	MX20160015386	20150529
MX2017014305 A1	20180815	MX20170014305	20160108
SG11201609924R A1	20161229	SG20161109924	20150529
TW201601444 A	20160101	TW20150117578	20150529
TW201712691 A	20170401	TW20160100629	20160108
US2017104426 AA	20170413	US20150314196	20150529
US2018159459 AA	20180607	US20160572898	20160108
WO15184252 A1	20151203	WO2015US33165	20150529
WO15184252 A9	20160324	WO2015US33165	20150529
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WO16182605 A1	20161117	WO2016US12620	20160108
ZA201707925 A	20181128	ZA20170007925	20171122

Priority:

US20030469913	20030905	US20040494571	20040506	US20140004883P	20140529
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US20140023586P	20140711	US20140026698P	20140720	US20140037152P	20140814
US20140041026P	20140822	US20140058844P	20141002	US20140068592P	20141024
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US20140092230P	20141215	US20150113211P	20150206	US20150141079P	20150331
US20150149501P	20150417	US20150159230P	20150509	US20150165340P	20150522
WO2015US33165	20150529	US20150314196	20150529	US20150172169P	20150607
US20150173911P	20150610	US20150182421P	20150619	US20150191204P	20150710
US20150196751P	20150724	US20150200672P	20150804	US20150208205P	20150821
US20150217411P	20150911	US20150220582P	20150918	US20150237375P	20151005
US20150254104P	20151111	US20150257617P	20151119	US20150263395P	20151204
US20150268963P	20151217	WO2016US12620	20160108	US20160572898	20160108

Probable Assignee: BRILLIANT LIGHT POWER INC

Assignee(s): (std): BLACKLIGHT POWER INC ; BRILLIANT LIGHT POWER INC ; MILLS RANDELL LEE

Assignee(s): MILLS RANDELL L

Inventor(s): (std): MILLS RANDELL L ; RANDELL L MILLS ; RANDELL LEE MILLS ; MILLS RANDELL LEE

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; UEXKUELL AND STOLBERG; SANYOU INT INTELLECTUAL PROPERTY AGENCY HONG KONG LTD; ADOLF MARTUA PANGGABEAN MAROLITA SETIATI; MAROLITA SETIATI; SWEET MARK D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

14) Family number: 23507129 (US2004177742A)

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Title: DEVICE FOR STRINGED INSTRUMENTS

Abstract: A device (10) for a stringed instrument comprising at least one moveable support having a top surface which is adapted to abut a string between its fixed ends and is able to be moved to abut the string at a different position to thereby create a sound of a different frequency when the string is vibrated. Also disclosed are: a method for controlling polarisation of electromagnetic radiation; a device for receiving and transferring visible light comprising an array of coupled lenses separated by barrier means; a method of searching data on the Internet; a system for compressing data and a method of modelling data particularly spoken sound (compressing data by modelling part of the data and adding additional information to create the original or near original data); a device for processing data; the protection of vehicles involved in accidents; the precise movement of objects by a magnetic field within a body.

Classifications:

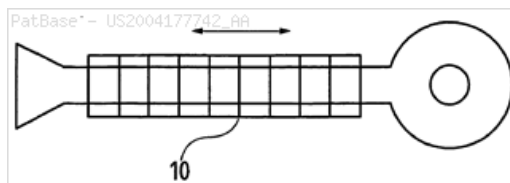
International (IPC 8-9): B60R19/18 B60R19/28 B64G4/00 E21C51/00 F25J1/00 G10D3/06 G10D3/08 G10H3/18 H01M4/88 H03M7/30 (Advanced/Invention); B60R19/18 B60R19/24 B64G4/00 E21C51/00 F25J1/00 G10D3/00 G10H3/00 H01M4/88 H03M7/30 (Core/Invention)

International (IPC 1-7): A61L31/14 B60R19/26 B60R19/28 B60R19/32 B64G4/00 E21C51/00 F25J1/00 G02B27/22 G06F1/00 G06F15/00 G06F17/30 G10D1/00 G10D3/04 G10D3/06 G10D3/12 G10D3/14 G10L13/00 H01M4/88 H01Q15/24 H03C7/04 H03M7/30 H04L9/00

IPC: B60R19/18 B60R19/28 B60R2019/1893 G10D3/06 G10D3/08 G10H3/18 H03M7/30 B64G4/00

European: B60R19/18 B60R19/28 B64G4/00 G10D3/06 G10D3/08 G10H3/18 H03M7/30 L60R19/18P

US: 502/101 84/314 84/314R



Family:

Publication number	Publication date	Application number	Application date
AU100002 A0	20020411	AU2002PS01000	20020311
AU115002 A0	20020418	AU2002PS01150	20020318
AU2000002342 A0	20010125	AU2000PR02342	20001228
AU2001002494 A0	20010201	AU2001PR02494	20010111
AU2001003732 A0	20010412	AU2001PR03732	20010315
AU2001004612 A0	20010524	AU2001PR04612	20010426
AU2001007133 A0	20010913	AU2001PR07133	20010821
AU2001007793 A0	20011011	AU2001PR07793	20010920
AU2001008533 A0	20011129	AU2001PR08533	20011029
AU2001008956 A0	20011213	AU2001PR08956	20011119
AU2002001000 A0	20020411	AU2002PS01000	20020311
AU2002001150 A0	20020418	AU2002PS01150	20020318
AU2002002172 A0	20020606	AU2002PS02172	20020507

AU2002009903 A0	20020131	AU2002PR09903	20020110
AU2002215710 AA	20020716	AU20020215710	20011224
AU2002951004 A0	20020912	AU20020951004	20020827
AU217202 A0	20020606	AU2002PS02172	20020507
AU234200 A0	20010125	AU2000PR02342	20001228
AU249401 A0	20010201	AU2001PR02494	20010111
AU373201 A0	20010412	AU2001PR03732	20010315
AU461201 A0	20010524	AU2001PR04612	20010426
AU713301 A0	20010913	AU2001PR07133	20010821
AU779301 A0	20011011	AU2001PR07793	20010920
AU853301 A0	20011129	AU2001PR08533	20011029
AU895601 A0	20011213	AU2001PR08956	20011119
AU990302 A0	20020131	AU2002PR09903	20020110
GB200318278 A0	20030910	GB20030018278	20030728
US2004177742 AA	20040916	US20030451468	20031104
US2004242405 AA	20041202	US20040489638	20040316
WO02054378 A1	20020711	WO2001AU01661	20011224
WO03025344 A1	20030327	WO2002AU01274	20020918
WO03025344 C2	20030508	WO2002AU01274	20020918

Priority:

AU2000PR02342	20001228	AU2001PR02494	20010111	AU2001PR03732	20010315
AU2001PR04612	20010426	AU2001PR07133	20010821	AU2001PR07582	20010911
AU2001PR07629	20010913	AU2001PR07793	20010920	AU2001PR08533	20011029
AU2001PR08956	20011119	AU2001PR09447	20011212	WO2001AU01661	20011224
AU2002PR09903	20020110	AU2002PS01000	20020311	AU2002PS01150	20020318
AU2002PS02172	20020507	AU20020951004	20020827	WO2002AU01274	20020918

Probable Assignee: ORME G M

Assignee(s): (std): ORME G ; ORME G M ; ORME GREGORY ; ORME GREGORY M ; ORME GREGORY MICHAEL

Inventor(s): (std): ORME GREGORY MICHAEL ; ORME GREGORY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

15) Family number: 56429186 (US2015291868A)

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Title: NANOSTRUCTURED PHASE CHANGE MATERIALS FOR SOLID STATE THERMAL MANAGEMENT

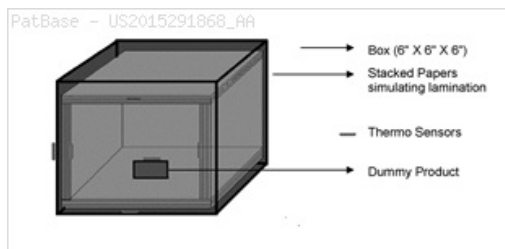
Abstract: Nanostructured phase change materials (PCMs) which are heterogeneous materials having at least two phases, at least one of the phases having at least one of its dimensions in the nanoscale, and comprising a first agent that undergoes an endothermic phase transition at a desired temperature and a second agent that assists in maintaining a nanostructure, are provided. There are also provided methods for manufacturing such PCMs, and applications thereof for providing thermoregulatory coatings and articles containing such coatings for use in a wide range of applications, such as cooling textiles, wipes, packaging, films, walls and building materials.

Classifications:

International (IPC 8-9): A41D A41D13/005 A41D31/00 B82Y30/00 C08J5/00 C08L C08L101/12 C09D C09D5/26 C09K C09K5/00 C09K5/02 C09K5/06 C09K5/14 F28D20/00 F28D20/02 F28F F28F13/18 F28F21/06 (Advanced/Invention)

CPC: C09K5/02 C09D5/26 B82Y30/00 C08J5/005 C09K5/14 F28D20/0056 F28D20/023 F28D20/025 F28D20/0004 F28F13/18 F28F21/067 F28F2245/00 F28F2245/06 F28F2255/20 Y02E60/142 Y02E60/145

US: 252/73 252/74 252/77 428/454 428/507 428/523 442/59



Family:

Publication number	Publication date	Application number	Application date
EP2917299 A1	20150916	EP20130852600	20131112
EP2917299 A4	20160629	EP20130852600	20131112
US2015291868 AA	20151015	US20130441835	20131112
US2019092992 AA	20190328	US20180970295	20180503
US9963627 BB	20180508	US20130441835	20131112
WO14071528 A1	20140515	WO2013CA50860	20131112
ZA201504150 A	20160428	ZA20150004150	20150609

Priority:

US20120724460P	20121109	US20130781790P	20130314	US20130441835	20131112
WO2013CA50860	20131112	US20150441835	20150508	US20180970295	20180503

Probable Assignee: BIOASTRA TECHNOLOGIES INC

Assignee(s): (std): BIOASTRA TECH INC ; BIOASTRA TECHNOLOGIES INC

Inventor(s): (std): RAJAGOPALAN SUMITRA ; FABRA PRIETO GIOVANNI ALEXANDER

Agent(s): HOEIBERG A S ; BCF LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ENERGY CONVERSION SYSTEM FOR SUPPLYING E.G. ELECTRICAL ENERGY, TO E.G. CONSUMER IN RESIDENTIAL BUILDING, HAS PELTIER CONVERTER RECEIVING ELECTRICAL ENERGY FROM BATTERY AND/OR ANOTHER PELTIER CONVERTER AND DELIVERING HEAT ENERGY TO CONSUMER

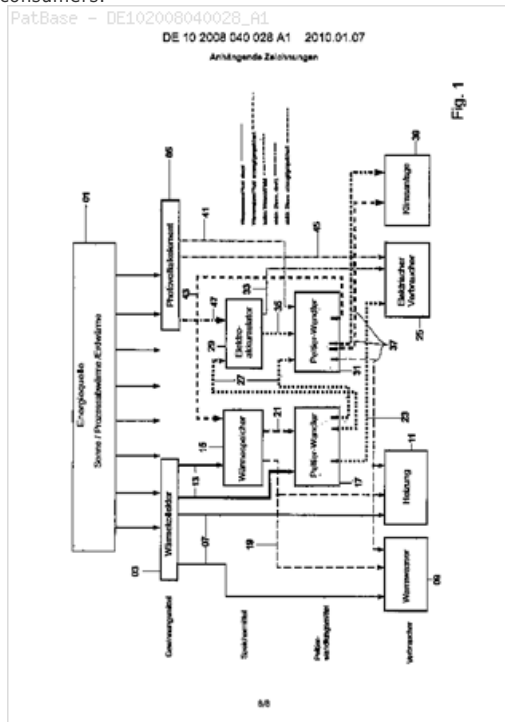
Abstract: The system has a heat collector (3) and a photovoltaic element (5) providing electrical energy and heat energy. A latent heat storage (15) and an electric battery (29) store the provided heat energy and/or the electrical energy. A Peltier converter (17) receives heat from the accumulator and delivers the electrical energy to an electrical consumer (25). A Peltier converter (31) receives the electrical energy from the battery and/or the Peltier converter (17) and delivers the heat energy to a consumer e.g. water heater (9), heater (11) and air-conditioning system (39). An independent claim is also included for a method for extracting, converting, storing and providing energy to consumers.

Classifications:

International (IPC 8-9): F24D19/10 F24J2/40 (Advanced/Invention); F24D19/00 F24J2/40 (Core/Invention)

CPC: Y02A30/272 F24H7/00 F24D3/08 F24D11/003 F24D11/005 F24D2200/02 F24D2200/11 F24D2200/14 F24D2200/16 F24F5/0042 F24F5/0046 F24F5/0096 F24F2005/0067 F24H2240/08 Y02B10/20 Y02B10/24 Y02B10/40 Y02B10/70

European: F24D11/00C2 F24D11/00C4 F24D3/08 F24F5/00D F24F5/00F F24F5/00T F24H7/00 R24D200/02 R24D200/11 R24D200/14 R24D200/16 R24F5/00F9A R24H240/08 Y02B10/20 Y02B10/24 Y02B10/40 Y02B10/70



Family:

Publication number	Publication date	Application number	Application date
DE102008040028 A1	20100107	DE200810040028	20080630

Priority:

DE200810040028 20080630

Probable Assignee: FOERDERTECHNIK AND MASCHB THUM E

Assignee(s): (std): FOERDERTECHNIK AND MASCHB THUM E

Assignee(s): FOERDERTECHNIK AND MASCHINENBAU THUM E K ; FOERDERTECHNIK AND MASCHINENBAU THUM EK

Inventor(s): (std): KROEHNERT JUERGEN ; MAUERSBERGER DIETMAR

17) Family number: 70565199 (WO18137905A1)

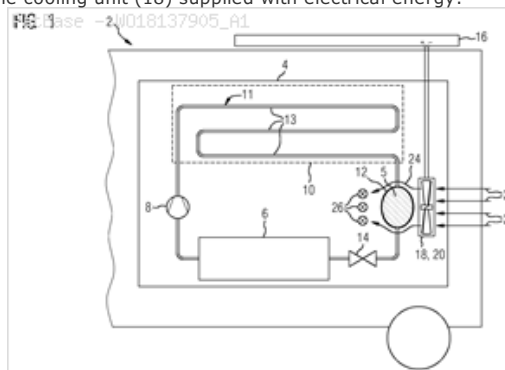
Title: METHOD FOR MAINTAINING AN OPERATIONAL STATE OF AN AIR CONDITIONER OF A VEHICLE AND VEHICLE

Abstract: The invention relates to a method for maintaining an operational state of an air conditioner (4) of a vehicle (2), wherein the air conditioner (4) can be operated with a refrigerant (5). In order to maintain an operational state of the air conditioner, the vehicle (2) comprises a solar module (16), the air conditioner (4) comprises a cooling unit (18) and, in the non-operational mode of the vehicle (2), the solar module (16) at least periodically supplies the cooling unit (18) with electrical energy, and heat is dissipated from the refrigerant (5) by the cooling unit (18) supplied with electrical energy.

Classifications:

International (IPC 8-9): B60H1/00 B60H1/32 F24F11/89 F25B27/00 (Advanced/Invention)

CPC: B60H1/00428 B60H1/00778 F25B9/008 F25B27/005 Y02T10/88



Family:

Publication number	Publication date	Application number	Application date
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WO18137905 A1	20180802	WO2018EP50192	20180104

Priority:

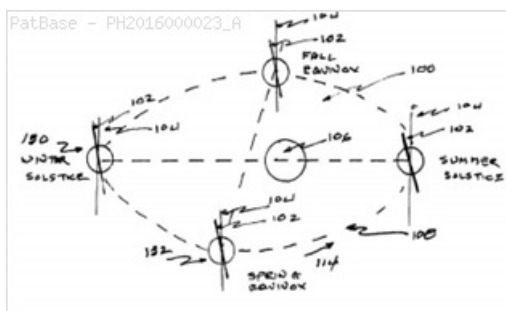
DE201710201085 20170124

Probable Assignee: SIEMENS AG**Assignee(s):** (std): SIEMENS AG**Inventor(s):** (std): VREYDAL DANIEL**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**18) Family number: 66435222** (PH2016000023A)

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Title: A NEW SOLAR COLLECTOR TOPOLOGY

Abstract: The following is a patent application that maximizes the energy absorbing capacity and efficiency of a parabolic trough solar collector with the objective of presenting a economical system topology competitive to the solar cell collector. The collector is designed to maximize the solar energy absorption by minimizing the radiation and to a lesser degree conductive losses which are significant loss contributors. The parabolic trough by its nature is favorable to one axis control. The invention proposes a distributed type of control for the individual troughs. The collector has the advantage that the collected solar energy is transported to another equipment to convert it to a more convenient form such as mechanical, electrical or heat storage. It is therefore amenable to being adopted to other means of energy conversion or use that and others that might be developed in the future such as the high efficiency Stirling engines. The embodiment of the idea is designed to be economically viable to developing countries where tooling and other high technology equipments are not needed to be amortized.

Classifications:**International (IPC 8-9):** A61F2/00 H01L35/00 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
PH2016000023 A	20170724	PH20160000023	20160114

Priority:

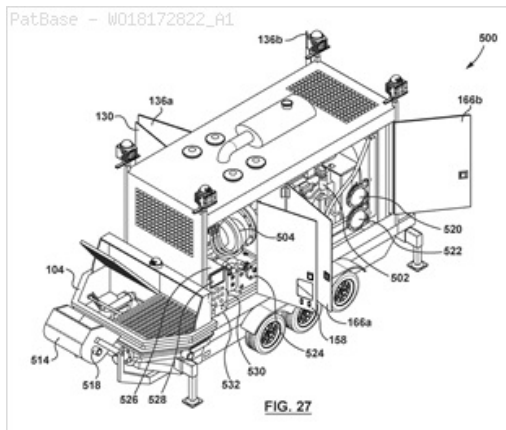
PH20160000023 20160114

Probable Assignee: DELA CRUZ MOISES A**Assignee(s):** (std): DELA CRUZ MOISES A**Assignee(s):** DR ROVEN T YOLO ; BINAG CHRISTINE A**Inventor(s):** (std): DELA CRUZ MOISES A**Inventor(s):** DR LIZAH B DORAO**Agent(s):** DR LIZAH B DORAO; NONE**19) Family number: 71311227** (W018172822A1)

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Title: CONCRETE PUMPING SYSTEM

Abstract: The present specification provides a system for pumping a concrete mixture, the system comprising: a base and a hopper secured to the base and configured to receive the concrete mixture. The hopper comprises an inlet opening configured for receiving the concrete mixture into the hopper and six outlet openings. The system further comprises first and second connector tubes each movably mounted to the hopper and moveable between a first position and a second position. The system further comprises, for each of the first, second, third, and fourth outlet openings: a respective pumping tube; a respective piston slideably received in the respective pumping tube; a respective actuator coupled to the respective piston; and a respective sensor.

Classifications:**International (IPC 8-9):** B60P3/16 E04G21/02 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
WO18172822 A1	20180927	WO2017IB51696	20170323

Priority:

WO2017IB51696 20170323

Probable Assignee: SCHWENZER FRANCOIS WILLIAM**Assignee(s):** (std): SCHWENZER FRANCOIS WILLIAM**Inventor(s):** (std): SCHWENZER FRANCOIS WILLIAM**Agent(s):** PERRY AND CURRIER**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**20) Family number: 31921237 (US2005103615A)**

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Title: ATMOSPHERIC WATER COLLECTION DEVICE

Abstract: The present invention is directed at a solar powered heat exchange system preferably used to drive a water collection device, which condenses water vapour in atmospheric air to water. The device comprises means for drawing the atmospheric air into the device; means for condensing the moisture vapour in the atmospheric air into water; and means for collecting the water.

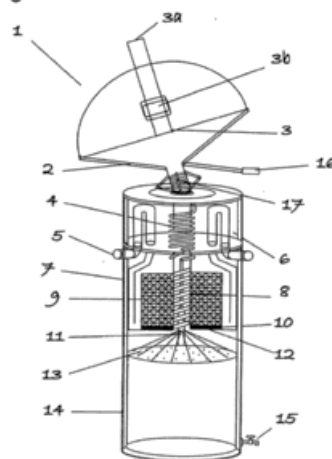
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B01D5/00 F24J2/06 (Core/Invention)

International (IPC 1-7): B67D5/00**CPC:** F24S20/20 B01D5/0072 B01D5/0006 B01D5/0039 B01D5/0081 Y02E10/41**European:** B01D5/00B10 B01D5/00F12 B01D5/00H14 B01D5/00K10 F24J2/07 Y02E10/41**US:** 203/10 62/235.1 62/236 62/271 62/272 62/285 62/291 62/291P 62/419 62/476 62/92 62/93

PatBase - US2005103615_AA

Patent Application Publication May 19, 2005 Sheet 1 of 8 US 2005/0103615 A1

Figure 1**Family:**

Publication number	Publication date	Application number	Application date
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US8196422 BB	20120612	US20100826448	20100629

Priority:

US20030510155P 20031014

US20040963646 20041014

US20100826448 20100629

Probable Assignee: FREEDOM WATER CO LTD**Assignee(s):** (std): RITCHEY JONATHAN G**Assignee(s):** FREEDOM WATER CO LTD**Inventor(s):** (std): RITCHEY JONATHAN G**Inventor(s):** RITCHEY JONATHAN**Agent(s):** BORDEN LADNER GERVAIS LLP; FASKEN MARTINEAU DUMOULIN LLP; SUSAN M**21) Family number: 44432240 (US2010044102A)**

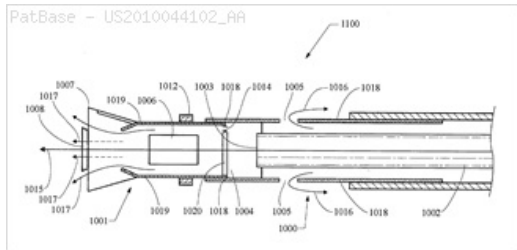
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Title: METHODS AND APPARATUS FOR REMOVAL AND CONTROL OF MATERIAL IN LASER DRILLING OF A BOREHOLE

Abstract: There is provided a system, apparatus and methods for removal of material for the path of a laser beam during laser drilling of a borehole and for removal of displaced borehole material from the borehole during laser drilling. In particular, there are provided paths, dynamics and parameters of fluid flows, and apparatus for obtaining such, for use in conjunction with a laser bottom hole assembly.

Classifications:**International (IPC 8-9):** A61K48/00 B01J19/12 B08B7/00 B08B9/02 B08B9/023 B08B9/027 B08B9/043 B08B9/055 B23K26/00

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Priority:

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Probable Assignee: FORO ENERGY INC

Assignee(s): (std): ELY JOHN ; MOXLEY JOEL F ; LAND MARK S ; KOBLICK YESHAYA ; FORO ENERGY INC ; GRUBB DARYL L ; GRAY WILLIAM C ; MCKAY RYAN P ; KOLACHALAM SHARATH K ; MAKKI SIAMAK ; JONES ALBERTUS REBECCA ; FRAZE JASON D ; LINYAEV EUGENE J ; MARSHALL SCOTT A ; MESNARD DAVID R ; HAVLINEK KENNETH L ; FORO EHNERDZHI INK ; KOLACHALAM SHARATH ; KELLERMANN FRED C ; LINYAEV EUGENCE J ; KOLACHALAM SHARATH K ; FORO ENERGY ; FORO ENERGY INC STAR ; CHEVRON USA INC ; CLARK PHILIP V ; FAIRCLOTH BRIAN O ; FAIRCLOTH BRIAN O ; DE WITT RONALD A ; DEWITT RON A ; DEWITT RONALD A ; DEUTCH PAUL D ; FORD ENERGY INC ; FAIRDOTH BRIAN O ; RINZLER CHARLES C ; ZEDIKER MARK S ; UNDERWOOD LANCE D ; SCHROIT SAM N ; NORTON RYAN J ; VOLKMAR JOHN F ; YEARWOOD JOHN ; ZIMMERMAN TOM ; NEHLSSEN JAMES P ; WOLFE DANIEL L ; ALLEN ERIK C ; BAILEY ANDYLE G ; BERGERON HENRY A

Assignee(s): CHEVRON U S A INC ; ELY JOHN L ; DEUTSCH PAUL D ; ENERGY UNITED STATES DEPARTMENT OF ; FORO ENERGY INC LITTLETON

Inventor(s): (std): FAIRCLOTH BRIAN O ; RINZLER CHARLES C ; ZEDIKER MARK S ; MOXLEY JOEL F ; LAND MARK S ; KOBLICK YESHAYA ; FAIRCLOTH BRIAN O ; MARK S LAND ; MARK S ZEDIKER ; JOEL F MOXLEY ; CHARLES C RINZLER ; BRIAN O FAIRCLOTH ; YESHAYA KOBLICK ; DE WITT RONALD A ; DEWITT RON A ; UNDERWOOD LANCE D ; GRUBB DARYL L ; SCHROIT SAM N ; DEWITT RONALD A ; GRAY WILLIAM C ; DEUTCH PAUL D ; MCKAY RYAN P ; KOLACHALAM SHARATH K ; ALLEN ERIK C ; MAKKI SIAMAK ; NORTON RYAN J ; MESNARD DAVID R ; VOLKMAR JOHN F ; NEHLSSEN JAMES P ; MARSHALL SCOTT A ; LINYAEV EUGENE J ; ANDYLE G BAILEY ; DANIEL L WOLFE ; PAUL D DEUTCH ; BAILEY ANDYLE G ; WOLFE DANIEL L ; BERGERON HENRY A ; CLARK PHILIP V ; KUZNETSOV ANDREY ; LEE IAN ; SHARATH K KOLACHALAM ; DARYL L GRUBB ; GRUBB DARYL ; ELY JOHN ; KOLACHALAM SHARATH ; LEHND MARK S ; MOKSLI DZHOEL F ; RINZLER CHARL Z K ; KOBLIK JESHAJA ; FEHRKLOT BRAJAN O ; YEARWOOD JOHN ; KELLERMANN FRED C ; ELY JOHN L ; ZIMMERMAN TOM ; FAIRDOTH BRIAN O ; JONES ALBERTUS REBECCA ; FAIRCLOTH BRIAN ; LINYAEV EUGENCE J ; HAVLINEK KENNETH L ; FRAZE JASON D ; KOLACHALAM SHARATH K

Inventor(s): ERIK C ALLEN ; BRIAN OFAIRCLOTH ; CHARLES CRINZLER ; JOEL FMOXLEY ; MARK SZEDIKER ; ZEDIKER MARK S CASTLE ROCK ; FAIRCLOTH BRIAN O EVERGREEN ; KOLACHALAM SHARATH K SUGAR LAND ; GRUBB DARYL L HOUSTON ; DEUTSCH PAUL D

Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; BUNGARTZ KLAUS PETER; BUNGARTZ CHRISTOPHERSEN PARTNERSCHAFT MBB PATENTANWALTE; TERSTEEGEN FELIX; BUNGARTZ CHRISTOPHERSEN PARTNERSCHAFT MBB PATENTANWALTE; SABA AND CO TMP; SAUD M A SHAWWAF LAW OFFICE; ITOH SHIGERU; BRINKS HOFER GILSON AND LIONE; FORO ENERGY/BHGL; FORO ENERGY BHGL; GLEN; GLEN P; STEPTOE AND JOHNSON LLP; STEPTOE AND JOHNSON; BRIAN; STEPTOE AND JOHNSON LLC; BELVIS LAW LLC; BELVIS GLEN P; FREEMAN JOHN C; BELVIS GLEN P ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU

22) Family number: 43056252 (US2009077992A)

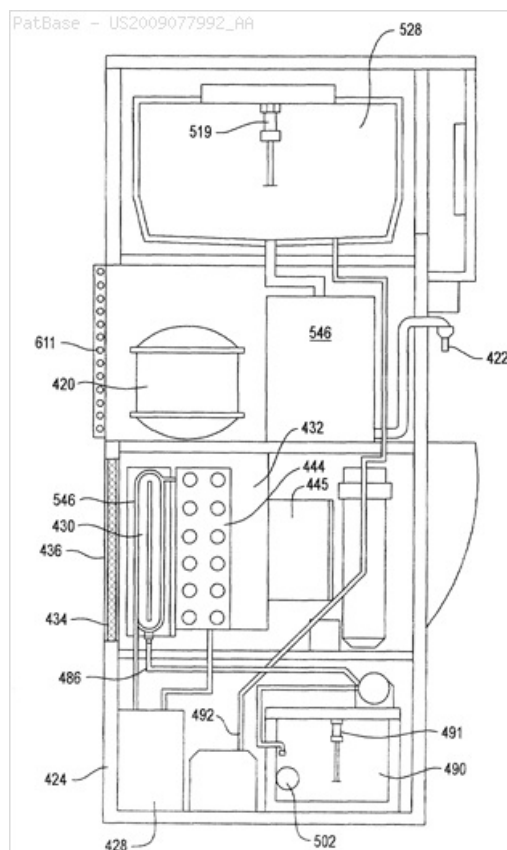
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Title: WATER PRODUCING METHOD AND APPARATUS

Abstract: A water producing system adapted to condense water from the air and collected in a storage tank where the water is purified and bacteria is killed. One form of killing the bacteria is utilizing a circulation line with a filter system to remove the ozone before the water is dispensed. A circulation line is to prevent dead legs in the system which can lead to bacteria production.

Classifications:**International (IPC 8-9):** F25D21/14 (Advanced/Invention);

F25D21/14 (Core/Invention)

CPC: B01D1/02 B01D5/0015 B01D5/006 B01D5/009 C02F1/041
C02F1/18 C02F1/283 C02F1/32 C02F1/444 C02F1/78 C02F9/005**European:** B01D1/02 B01D5/00B16 B01D5/00H10 B01D5/00K16
C02F1/04C C02F1/18 C02F9/00B M02F1/28D M02F1/32 M02F1/44D
M02F1/78**US:** 62/291 62/291P**Family:**

Publication number	Publication date	Application number	Application date
US2009077992 AA	20090326	US20070860458	20070924

Priority:

US20070860458 20070924

Probable Assignee:

ANDERSON RAE RAY T

Assignee(s): (std):

ANDERSON RAE RAY T ; WHITE KEITH R

Inventor(s): (std):

WHITE KEITH R ; ANDERSON RAE RAY T

Inventor(s):

ANDERSON RAE (RAY) T

Agent(s):

HUGHES LAW FIRM PLLC

23) Family number: 6713259 (GB2241378A)

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Title: Portable electronic air-conditioner

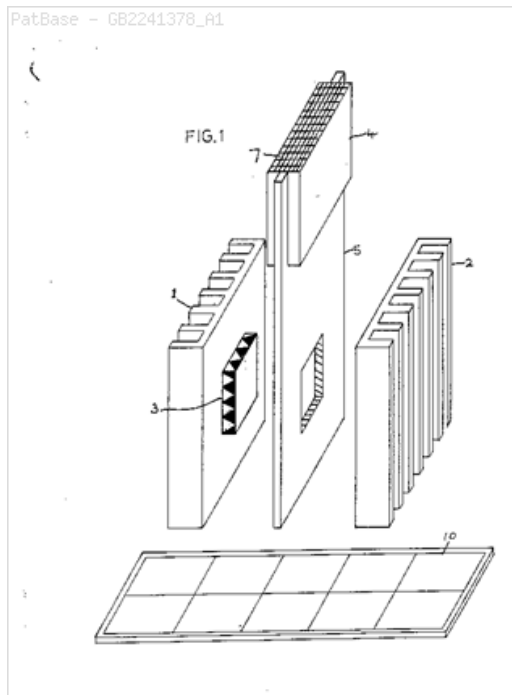
Abstract: A portable air-conditioner using an electronic heat pump 3, eg a Peltier effect device, designed to run on solar or battery power and suitable for use in vehicles and similar confined spaces or carried as a personal comfort device. The air-conditioner can be left to operate unattended for long periods. The air-conditioner may be constructed with heat sinks 1, 2 and a fan 4 all contained in a casing with one or more electronic heat pumps 3, and may be powered by a solar panel or automobile accumulator. The casing may be fitted to a vehicle window frame using an attachment (11, Fig 3).

Classifications:**International (IPC 8-9):** B60H1/00 F24F5/00 F25B21/02

H01L35/00 (Advanced/Invention);

B60H1/00 F24F5/00 F25B21/02 H01L35/00 (Core/Invention)

International (IPC 1-7): F25B21/02 H01L35/00**CPC:** B60H1/00478 F24F5/0042 F25B21/02 H01L35/00**European:** B60H1/00L F24F5/00D F25B21/02 H01L35/00

**Family:**

Publication number	Publication date	Application number	Application date
GB2241378 A1	19910828	GB19900004349	19900227
GB9004349 A0	19900425	GB19900004349	19900227

Priority:

GB19900004349 19900227

Probable Assignee:

FORSYTH ROBERT

Assignee(s): (std):

FORSYTH ROBERT

Assignee(s):

ROBERT FORSYTH

Inventor(s): (std):

FORSYTH ROBERT

Inventor(s):

ROBERT FORSYTH

24) Family number: 73333260 (IN201741029463A)

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Title: A NOVEL PORTABLE SOLAR PELTIER COOLER SYSTEM

Abstract: The present invention relates to thermoelectric cooler and in particular to refrigerator and Peltier cooler. The present invention aims to build a portable solar cooler that generates cool air. The purpose of the present invention is to provide a portable cooler which can be used with both the solar and grid power. The present invention also intends to be used both as indoor space cooling and outdoor cooling for food preservation.

Classifications:**International (IPC 8-9):** G01R21/00 H01M10/50 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
IN201741029463 A	20190222	IN201741029463	20170821

Priority:

IN201741029463 20170821

Probable Assignee: M JAGABAR SHATIK**Assignee(s):** K SARAVANAN ; K VIJAYAKUMAR ; M JAGABAR SHATIK**Inventor(s):** K SARAVANAN ; K VIJAYAKUMAR ; M JAGABAR SATHIK**25) Family number: 43523265** (KR20090078765A)

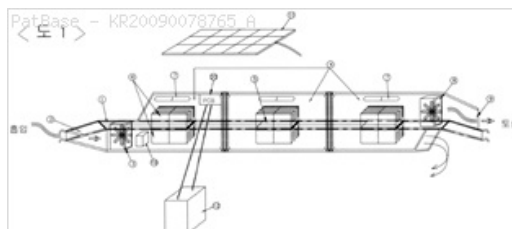
© PatBase

Title: AIR CONDITIONING DEVICE FOR VEHICLE USING SOLAR CELL AND PELTIER MODULES

Abstract: An air conditioning device for vehicle using a solar cell and a thermoelectric element is provided to lower the interior temperature by inhaling cold exterior air instead of discharging the interior air of high temperature and humidity, thereby reducing the fuel consumption. An air inlet port(2) is formed on one side of an air-conditioner body(1) of square pipe structure. A suction fan motor(3) and an air cleaner(10), that are blower units, are mounted on the inner side of the air inlet port. A plurality of chambers(4) are installed on the inner side of the suction fan motor. A thermoelectric element(5) is inserted in the central part of each chamber. A heat sink(6) is installed on the top and bottom of the thermoelectric element, with sponge interposed. An interior air inlet(7) is formed on the top of each chamber. An air outlet(9) is formed on the other side of the air-conditioner body. A discharge fan motor(8) is mounted on the inner side of the air outlet. A solar panel(11) of a solar cell is installed on the top of the air-conditioner body. A battery(12) is connected to an automatic control device(20) on one side within the body which is the lower part of the solar panel.

Classifications:**International (IPC 8-9):** B60H1/00 B60H1/24

B60H1/32 (Advanced/Invention);
B60H1/00 B60H1/24 B60H1/32 (Core/Invention)
CPC: Y02T10/88
European: Y02T10/88



Family:

Publication number	Publication date	Application number	Application date
KR20090078765 A	20090720	KR20090052621	20090611

Priority:

KR20090052621 20090611

Probable Assignee:

KIM IL RYONG

Assignee(s): (std):

KIM IL RYONG

Inventor(s): (std):

BAE BYUNG AM

26) Family number: 51042290 (US2012103425A)

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Title: FLOW METER WITH IMPROVED THERMAL STABILITY AND METHODS OF USE

Abstract: Devices and methods for controlling flow to a processing chamber are disclosed. The devices comprise a flow meter, an inlet tube in fluid communication with the flow meter, an outlet tube in fluid communication with the outlet of the flow meter, and thermal insulation encompassing at least a portion of the flow meter, at least a portion of the inlet tube and at least a portion of the outlet tube.

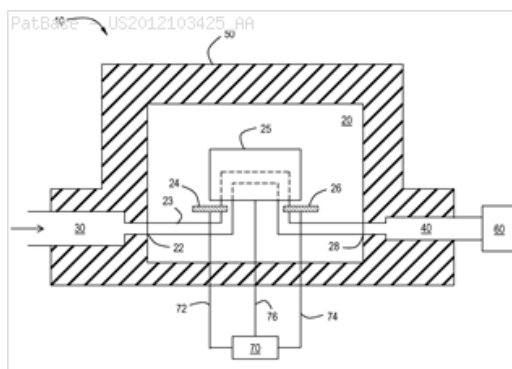
Classifications:

International (IPC 8-9): F15D1/00 G01F1/684 G05D7/00 H01L21/02 H01L21/205 H01L21/3065 (Advanced/Invention)

CPC: G01F15/10 G01F15/14 G01F1/68 G01F1/688 H01L21/67017 Y10T137/0324 Y10T137/8158

European: G01F1/68 G01F1/688 T01L21/67S2D

US: 137/2 137/2P 137/551 137/551S



Family:

Publication number	Publication date	Application number	Application date
CN103270577 A	20130828	CN201180061495	20110726
KR20140009203 A	20140122	KR20137013085	20110726
TW201219757 A	20120516	TW20110126649	20110727
US2012103425 AA	20120503	US20110189953	20110725
WO12057886 A1	20120503	WO2011US45299	20110726

Priority:

US20100408009P 20101029

US20110189953 20110725

WO2011US45299 20110726

Probable Assignee:

Assignee(s): (std): APPLIED MATERIALS INC ; DEMARS DENNIS L ; YUDOVSKY JOSEPH

Inventor(s): (std): DEMARS DENNIS L ; YUDOVSKY JOSEPH

Agent(s): BLANKMAN JEFFREY I

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

27) Family number: 41952302 (US2008152482A)

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Title: SOLAR POWERED FAN

Abstract: A solar powered personal fan with a much broader spectrum of both portable and fixed operating applications whereas prior art is application specific. This device also provides a plurality of fixed and portable power supplies. A solar panel, rechargeable battery pack or home charger can all be used as a power supply to operate the present invention.

Classifications:

International (IPC 8-9): F04B35/04 F04B53/00 F04D3/00

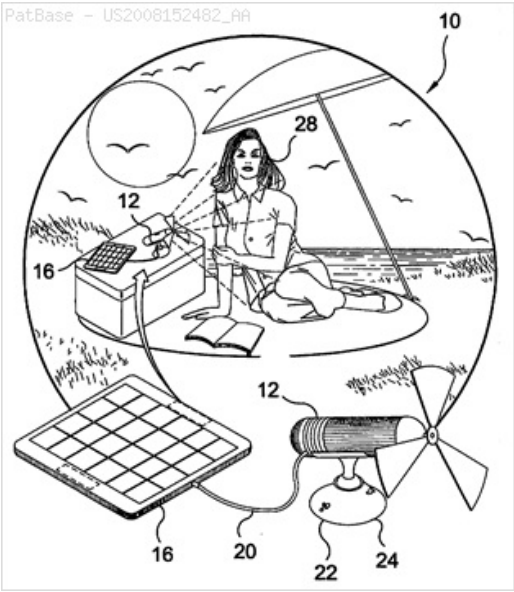
H01L31/042 (Advanced/Invention);

F04D3/00 H01L31/042 (Core/Invention)

CPC: Y02B10/24 F24F7/007 F04B17/006 F04D25/06 F04D25/084 F24F2005/0067 Y02A30/272

European: F04B17/00S F04D25/06 F04D25/08C F24F7/007 R24F5/00F9A

US: 415/121.3 415/121.300P 417/234 417/411 417/423.1



Family:

Publication number	Publication date	Application number	Application date
US2008152482 AA	20080626	US20060616004	20061225
US7866958 BB	20110111	US20060616004	20061225

Priority:

US20060616004 20061225

Probable Assignee: PATEL AMISH
Assignee(s): (std): PATEL AMISH
Inventor(s): (std): PATEL AMISH
Agent(s): MICHAEL I KROLL; MICHAEL I

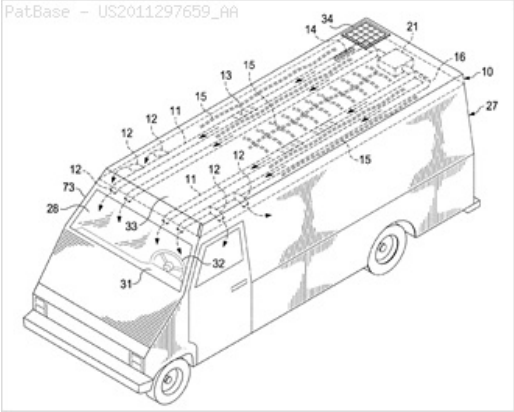
28) Family number: 50072324 (US2011297659A) © PatBase

Title: MULTI PURPOSE HEATING AND COOLING SAFETY DEVICE

Abstract: A heating and cooling device is disclosed. The device has an outer covering, and a plurality of heating and cooling coils within the covering. A plurality of flexible air flow chambers inside the covering provide air flow over the heating and cooling coils, and a plurality of vents exit the outer covering from the plurality of air conduits

Classifications:

International (IPC 8-9): B60H1/00 B60H1/22 B60L1/02 F24H3/04 F24H3/08 H05B1/00 H05B3/00 H05B3/06 H05B3/34 (Advanced/Invention); A61F7/00 A61F7/08 A61G5/10 A61G7/057 (Advanced/Non-invention) CPC: B60H1/00564 A61F7/0053 A61F7/08 A61F2007/0071 A61F2007/0075 A61F2007/0084 A61F2007/0086 A61F2007/0094 A61G7/057 A61G2210/70 A61G2210/90 B60H1/2225 B60H2001/00235 B60H2001/229 F24H3/0429 F24H3/081 H05B3/342 A61G5/1045 B60H1/245 European: B60H1/00S2A B60H1/22B3 F24H3/04B6 F24H3/08B L60H1/00A3J L60H1/22Z7 US: 219/201 219/202 219/212 219/520 219/529



Family:

Publication number	Publication date	Application number	Application date
US2011297659 AA	20111208	US20110151773	20110602
US9040876 BB	20150526	US20110151773	20110602

Priority:

US20100350657P 20100602 US20110151773 20110602

Probable Assignee: CUDNEY BIXLER NANCY
Assignee(s): (std): BIXLER DICK ; BIXLER NANCY ; CUDNEY BIXLER NANCY
Inventor(s): (std): BIXLER DICK ; BIXLER NANCY ; CUDNEY BIXLER NANCY
Agent(s): FELLERS SNIDER BLANKENSHIP BAILEY AND TIPPENS PC; DAVID G

29) Family number: 65759346 (US2017146287A) © PatBase

Title: DEPLOYABLE TEMPERATURE CONTROLLED SHED WITH REMOTE MANAGEMENT

Abstract: A cold-shed may be deployed in areas with little or no electrical infrastructure in order to provide a cold storage area for perishable goods including agricultural, dairy products, medicines, vaccines, etc. A wireless communication device may be installed in the cold-shed to allow remote management, access control, and monitoring of the cold-shed devices, including cooling units, solar power cells, batteries, power conditioners, and a variety of sensors to determine internal and external temperatures, door positions, and other information. A mobile device configured to communicate with the wireless communication device may receive information and updates via cellular networks or text messaging. The mobile device may also be used to change temperature settings, lock and unlock doors, conduct inventory management and auditing, and make other changes. The corresponding application allows an owner to manage and monitor many cold-sheds from a single mobile device.

Classifications:

International (IPC 8-9): F24F1/00 F24F11/053 F24F11/76 F24F3/00 F25B27/00 F25D13/00 F25D13/04 F25D29/00 G05D23/275

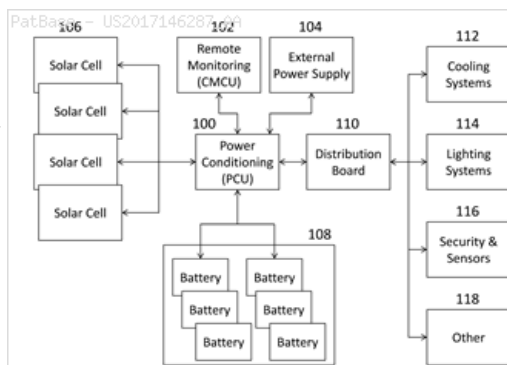
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H02S20/32 (Advanced/Invention)

CPC: F25D29/00 G08B17/06 G08B21/182 G06Q10/087 G07C9/00134

H02S20/32 F25D13/00 F25D13/04 F25D29/008 G05B2219/37431

F25D2700/12 F25D2700/02 F25B27/002 G07C9/00896 Y02A40/966



Family:

Publication number	Publication date	Application number	Application date
IN201817017144 A	20180810	IN201817017144	20180507
US2017146287 AA	20170525	US20160203380	20160706
US10222119 BB	20190305	US20160203380	20160706
WO17087160 A1	20170526	WO2016US59855	20161101
WO17087160 A8	20180621	WO2016US59855	20161101

Priority:

US20150257936P 20151120 US20160203380 20160706 WO2016US59855 20161101

Probable Assignee: REZAYAT MOHSEN

Assignee(s): (std): REZAYAT MOHASEN ; REZAYAT MOHSEN

Inventor(s): (std): REZAYAT MOHSEN ; REZAYAT MOHASEN

Agent(s): FROST BROWN TODD LLC ; GASTRIGHT DOUGLAS A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

30) Family number: 34392359 (US2007084496A)

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Title: SOLID STATE POWER SUPPLY AND COOLING APPARATUS FOR A LIGHT VEHICLE

Abstract: An apparatus and method for generating electrical current for a light mounted vehicle such as a motorcycle with thermoelectric modules. The invention includes apparel incorporating thermoelectric modules that cool or warm the body of a user.

Classifications:

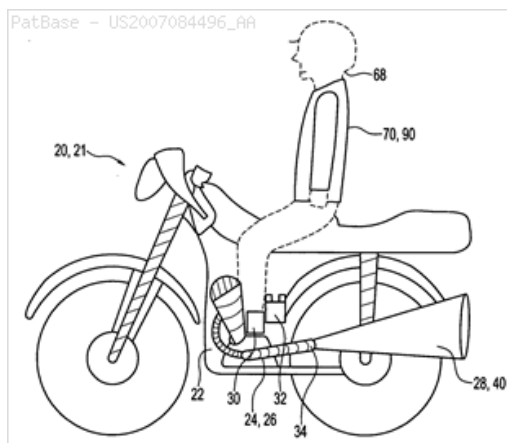
International (IPC 8-9): H01L35/28 H01L35/34 (Advanced/Invention);

H01L35/00 H01L35/28 (Core/Invention)

CPC: H01L35/00

European: H01L35/00

US: 136/201 136/204



Family:

Publication number	Publication date	Application number	Application date
US2007084496 AA	20070419	US20060580555	20061013

Priority:

US2005072817P 20051018 US20060580555 20061013

Probable Assignee: EDEY BRUCE A

Assignee(s): (std): EDEY BRUCE A

Inventor(s): (std): EDEY BRUCE A

Inventor(s): EDEY BRUCE ALAN ; EDEY BRUCE

31) Family number: 28626375 (US2003075223A)

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Title: DISCHARGE VALVES FOR AIRBAGS AND AIRBAGS INCLUDING THE SAME

Abstract: Discharge valve for an airbag including a fixed member adapted to be arranged in connection with or associated with the airbag and having a pattern of openings and a movable member having a pattern of openings substantially identical to the pattern of openings of the fixed member. The movable member is movable relative to and alongside the fixed member to vary the correspondence between the openings on the movable member and the openings in the fixed member to thereby vary valve openings defined by the fixed member and the movable member. Variation in the valve openings results in control and/or regulation of the outflow of gas from the airbag through the discharge valve. The members may be plates, cylinders or cones.

Classifications:

International (IPC 8-9): B60C11/24 B60C23/00 B60C23/04 B60K28/00 B60K28/02 B60K28/14 B60L1/00 B60N2/02 B60N2/28 B60Q1/00 B60R21/01 B60R21/0136 B60R21/015 B60R21/016 B60R21/16 B60R21/20 B60R21/205 B60R21/213 B60R21/23 B60R21/232 B60R21/233 B60R21/235 B60R21/239 B60R21/26 B60R21/276 B60R21/30 B60R21/33 B60R22/00 B60R25/10 B62D1/11 E05F15/00 G01G19/10 G01G19/52 G01H11/00 G01M17/00 G01M17/02 G05D27/00 G06F17/00 G06F19/00 G06F7/00 G06K9/00 G07C5/00 G07C5/08 G08B21/00 G08C19/00 G09G5/00 H01H13/70 H01L43/06 H02B1/24 H03K17/97 H03K17/975 H04Q5/22 (Advanced/Invention); B60R21/00 B60R21/01 B60R21/013 B60R21/0132 B60R21/0134 B60R21/21 (Advanced/Non-invention); B60C23/00 B60K28/00 B60K28/10 B60L1/00 B60N2/02 B60R21/01 B60R21/015 B60R21/16 B60R21/20 B60R21/23 B60R21/26 B60R21/33 B60R22/00 B60R25/10 E05F15/00 G01G19/00 G01G19/52 G01H11/00 G01M17/00 G01M17/02 G05D27/00 G06F17/00 G06F19/00 G06F7/00 G06K9/00 G08B21/00 G08C19/00 G09G5/00 H01H13/70 H02B1/00 H03K17/94 (Core/Invention); B60R21/01 (Core/Non-invention)

International (IPC 1-7): F16K3/00

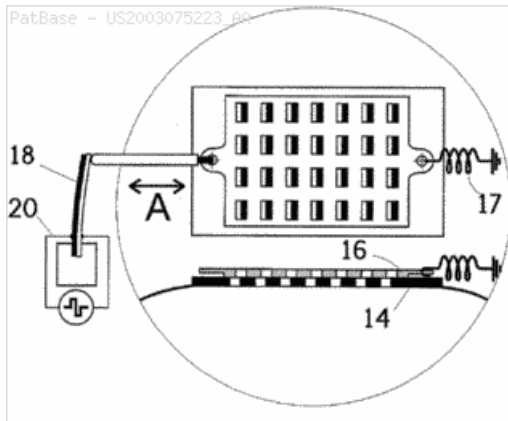
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European: B60C23/04C B60C23/04C3 B60C23/04C6B B60C23/04C6D B60J10/00 B60K28/06D B60N2/00C B60N2/015 B60N2/02B4 B60N2/02B6 B60N2/02B6B B60N2/02B6C B60N2/02B6W B60N2/02C B60N2/06S B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C2C B60N2/48C3C B60N2/48W B60N2/66 B60Q1/14C1 B60Q1/14C1B B60R16/037 B60R19/48D B60R21/013 B60R21/0132 B60R21/0136 B60R21/015 B60R21/16B6 B60R21/20 B60R21/203F B60R21/205 B60R21/206 B60R21/20G2 B60R21/214 B60R21/232 B60R21/233 B60R21/2338 B60R21/235 B60R21/239 B60R21/264 B60R21/276 B60R21/28 B60R21/30 B60R21/33 B60R22/20 B60R25/20R B60R25/24 B60R25/25 B60W40/08 B60W50/02A B62D21/15 E05F15/00B1 E05F15/00B6B E05F15/00B6B2 G01D5/00 G01F23/00G1A G01F23/20 G01F23/296D G01F23/296F G01G19/414A G01G23/37W G01S15/52B G01S15/87 G01S15/88 G01S17/88 G01S7/41D G01S7/48A G01S7/539 G06F17/50C G06F17/50V G06K9/00H G06K9/00H1 G06K9/00V7 G07C5/00T G07C5/08D G07C5/08R2 G08B21/04 H01H35/14E H04Q9/00 L60N2/02B6S L60Q300/410 L60Q300/420 L60R1/12C L60R1/12G L60R19/48D L60R21/00A1 L60R21/00A2 L60R21/00A4 L60R21/00C L60R21/01 L60R21/0132 L60R21/0132V L60R21/0132W L60R21/0134 L60R21/0136 L60R21/013B L60R21/013R L60R21/015G2 L60R21/015G6 L60R21/015G6B L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8E L60R21/015G9 L60R21/015J L60R21/015N L60R21/01H3Y L60R21/01L5A L60R21/01L5A1 L60R21/01L5A3 L60R21/01L7A L60R21/01N3 L60R21/01P1 L60R21/01P1B L60R21/203 L60R21/203F L60R21/206 L60R21/21 L60R21/214 L60R21/2165S L60R21/231C L60R21/231M L60R21/231N L60R21/231P L60R21/231W L60R21/232 L60R21/233 L60R21/2338B L60R21/233A L60R21/233F L60R21/233H L60R21/233M L60R21/235M1C L60R21/235M3 L60R21/235M5 L60R21/235P L60R21/235P6 L60R21/235S4 L60R21/235S6 L60R21/235M L60R21/239L L60R21/263L3 L60R21/26V L60R21/276 L60R21/276L L60R22/20B L60R22/20R L60R22/28L L60R22/46L L60R22/48B1 L60R22/48B2 L60R22/48B5 L60R22/48B7 L60R325/10B L60R325/20B L60W40/08D L60W40/08E L60W40/08P L60W40/08S L60W420/52 L60W420/54 L60W50/14B L60W50/14D L60W540/24 P05F15/00B6B5R P05Y900/550 S01S13/04 S01S15/04 S01S15/06 S01S17/89 S07C5/08R4C S10K210/1282 S10K210/3219 T03K217/960A2

US: 137/625.3 137/625.31 177/136 177/144 177/208 177/254 180/268 180/268S 180/271 180/273 180/274 180/282 200/1.00RS 200/1R 200/600 280/728.1 280/728.100P 280/729 280/729P 280/729S 280/730.1 280/730.2 280/730.200P 280/730.200S 280/731 280/731P 280/732 280/732S 280/734 280/735 280/735P 280/738 280/739 280/739S 280/740 280/740S 280/742 280/742S 280/743.1 280/743.100S 280/777 280/801.1 280/801.100S 297/217.3 307/10.1 307/10.100S 307/116 307/116P 324/200 324/207.2 340/10.33 340/10.42 340/13.24 340/13.240S 340/4.62 340/4.620P 340/425.5 340/426.13 340/426.130P 340/436 340/436S 340/438 340/444 340/447 340/447P 340/459 340/475 340/572.1 340/572.4 340/575 340/665 340/665S 340/667 340/825.72 345/8 345/8P 382/100 382/100P 382/103 382/104 382/104P 382/151 382/154 382/181 701/1 701/1P 701/1S 701/29 701/29.1 701/29.100P 701/29P 701/29S 701/31.4 701/31.400S 701/31.5 701/31.9 701/31.900P 701/33.7 701/33.700P 701/34.4 701/36 701/36P 701/45 701/45P 701/45S 701/48 701/48P 702/173 710/100 710/34 710/36 714/25 714/25S 73/146 73/146.2 73/146.5 73/146P 73/514.28 73/862.392 73/862.473

Family:

Publication number	Publication date	Application number	Application date
US2003075223 AA	20030424	US20020278721	20021023
US2006097494 AA	20060511	US20040974919	20041027
US2006202452 AA	20060914	US20060418517	20060504



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US20060502039	20060810	US20060464288	20060814	US20060506084	20060817
US20060470061	20060905	US20060470715	20060907	US20060538934	20061002
US20060538934	20061005	US20060539826	20061009	US20060558314	20061109
US20060558996	20061113	US20060560569	20061116	US20060561618	20061120
US20060561442	20061120	US20060565020	20061130	US20060614121	20061221
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US20070832870	20070802	US20070833052	20070802	US20070839622	20070816
US20070841056	20070820	US20070851167	20070906	US20070926422	20071029

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): AUTOMOTIVE TECH INT ; BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Assignee(s): AMERICAN VEHICULAR SCIENCES LLC ; ATI 2 ; ATI 295 ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INTIONAL

Inventor(s): (std): BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C ; DU VALL WILBUR E ; KHVASTUKHIN MYKHAILO ; MORIN JEFFREY L ; CHEN TIE QI ; SANDERS DECEASED THOMAS ; SANDERS SYLVIA ; SANDERS THOMAS

Inventor(s): JOHNSON WENDELL ; DUVALL WILBUR ; MORIN JEFFREY ; BREED DAVID

Agent(s): BRIAN ROFFE ESQ; ROFFE BRIAN; BRIAN

32) Family number: 59616375 (IN03329MU2014A)

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Title: SOLAR MULTIPURPOSE HANDCART FOR HAWKERS

Abstract: Refrigerated storage, which is believed to be best method for storing the fruits and vegetables in fresh form, is not available in rural or remote locations or even while portable condition where grid electricity is almost not available. So, without having a conventional energy source at these areas, the present invention design and fabricate a solar PV powered refrigeration system to attain favorable conditions for vegetables. As farming is a main occupation in many countries and preserving their vegetables for longer time in fresh condition is also a challenge to farmers and also to street hawkers. This invention is made to contribute in the field of refrigeration and heating at same time which runs on photovoltaic solar panel in result a cooled box and a hot box for preserving food, vegetables, fish, meat, cold drinks etc. also the released heat is used for keeping a hot box hot. In hot box a hawker can preserve his hot products ready to sale at any time while on hawking this is extra earning business for a vegetable hawker. As solar energy is used here, so no need to pay the electricity bill, also minimum maintenance and better results; otherwise which is not bearable to street vegetable seller. Following invention is described in detail with the help of Figure 1 of sheet 1 showing solar multipurpose handcart for hawkers and Figure 2 of sheet 2 showing the front side view of the handcart.

Classifications:

International (IPC 8-9): B60L8/00 B62B3/00 F25D11/00 H02S30/20 (Advanced/Invention)

CPC: Y02A40/966

Family:

Publication number	Publication date	Application number	Application date
IN01222MU2014 A	20151113	IN2014MU01222	20140329
IN03329MU2014 A	20150626	IN2014MU03329	20141017

Priority:

IN2014MU01222 20140329 IN2014MU03329 20141017

Probable Assignee: BASAVRAJ SHANTARAM KOTHAVALA DR

Assignee(s): (std): BASAVRAJ SHANTARAM KOTHAVALA DR ; MR YOGESH SANJAY KUTE

Assignee(s): YOGESH SANJAY KUTE ; DR BASAVRAJ SHANTARAM KOTHAVALA ; BASAVRAJ SHANTARAM KOTHAVALA

Inventor(s): (std): BASAVRAJ SHANTARAM KOTHAVALA DR ; MR YOGESH SANJAY KUTE

Inventor(s): YOGESH SANJAY KUTE ; DR BASAVRAJ SHANTARAM KOTHAVALA ; BASAVRAJ SHANTARAM KOTHAVALA

33) Family number: 33357405 (US2005131607A)

© PatBase

Title: METHOD AND ARRANGEMENT FOR OBTAINING INFORMATION ABOUT VEHICLE OCCUPANTS

Abstract: Arrangement and method for obtaining information about a vehicle occupant in a compartment of the vehicle in which a light source is mounted in the vehicle, structured light is projected into an area of interest in the compartment, rays of light forming the structured light originating from the light source, reflected light is detected at an image sensor at a position different than the position from which the structured light is projected, and the reflected light is analyzed relative to the projected structured light to obtain information about the area of interest. The structured light is designed to appear as if it comes from a source of light (virtual or actual) which is at a position different than the position of the image sensor.

Classifications:

International (IPC 8-9): B60N2/00 B60N2/02 B60N2/28 B60Q1/14

B60R21/01 B60R21/015 G01S15/87 G01S15/88 G01S17/88

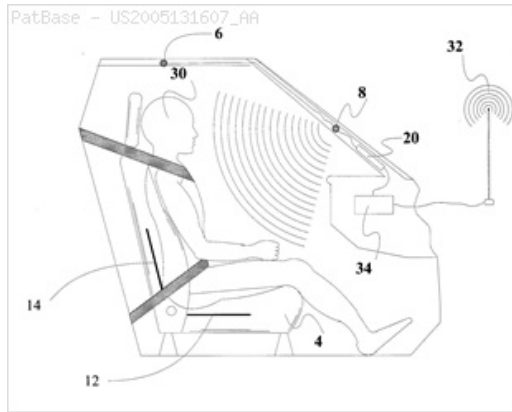
G06K9/00 G06M7/00 (Advanced/Invention);

B60R21/0134 B60R21/015 B60R22/20 (Advanced/Non-invention);

G06M7/00 (Core/Invention)

International (IPC 1-7): G06F7/00

CPC: B60N2002/0272 B60N2/0232 B60N2/0244 B60N2/0276
B60N2/28 B60N2/2806 B60N2/2863 B60N2002/0268 B60R21/013
B60R21/0134 B60R25/25 B60R25/252 B60R25/255 B60R25/257
B60R2022/208 G06K9/00362 B60R21/01534 B60R21/01536
B60R21/01538 B60N2/002 G01S7/417 G01S7/4802 G01S7/539
G01S13/04 G01S15/04 G01S15/06 G01S15/87 G01S15/88
G01S17/88 G01S17/89 G06K9/00624 G06K9/00832 B60R21/0152
European: B60N2/00C B60N2/02B4 B60N2/02B6 B60N2/02B6W
B60N2/28 B60N2/28B2 B60N2/28P4 B60Q1/14C1B B60R21/013
B60R21/015 B60R25/25 B60R25/25B B60R25/25D B60R25/25F
G01S15/87 G01S15/88 G01S17/88 G01S7/41D G01S7/48A
G01S7/539 G06K9/00H G06K9/00V G06K9/00V7 L60N2/02B6S
L60Q300/410 L60Q300/420 L60R21/0134 L60R21/015G6D
L60R21/015G6F L60R21/015G6H L60R21/01H3Y L60R22/20R
S01S13/04 S01S15/04 S01S15/06 S01S17/89
US: 250/221 250/221P 250/578.1 348/243 367/137 382/103 701/45
701/45P



Family:

Publication number	Publication date	Application number	Application date
US2005131607 AA	20050616	US20050025501	20050103
US2006208169 AA	20060921	US20040931288	20040831
US7983817 BB	20110719	US20050025501	20050103

Priority:

US19920878571	19920505	US19930040978	19930331	US19940239978	19940509
US19950474783	19950607	US19950476077	19950607	US19950474786	19950607
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US19970905877	19970804	US19970905876	19970804	US19970919823	19970828
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US19980193209	19981117	US19980200614	19981130	US19980114507P	19981231
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US20020303364	20021125	US20030341554	20030113	US20030356202	20030131
US20030365129	20030212	US20030413426	20030414	US20030457238	20030609
US20030613453	20030703	US20030502565P	20030912	US20040534926P	20040108
US20040805903	20040322	US20040931288	20040831	US20040940881	20040913
US20050025501	20050103				

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): AUTOMOTIVE TECH INT ; BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Assignee(s): AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIOAL INC ; AMERICAN VEHICULAR SCIENCES LLC

Inventor(s): (std): JOHNSON WENDELL C ; DUVALL WILBUR E ; BREED DAVID S

Inventor(s): BREED DAVID ; DUVALL WILBUR ; JOHNSON WENDELL

Agent(s): BRIAN ROFFE ESQ; BRIAN

34) Family number: 54153415 (WO13092394A2)

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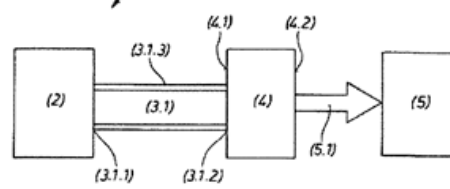
Title: DEVICE FOR DIRECTLY GENERATING ELECTRICAL ENERGY FROM THERMAL ENERGY

Abstract: The invention relates to a device (1) as per figure 1 for directly generating electrical energy from thermal energy, comprising at least one source of thermal energy (2), at least one heat pipe (3.1), at least one thermoelectric element (4), and at least one heat-dissipating device (5), wherein the heat pipe (3.1) is in thermally conductive contact with the source of thermal energy (2) at one end (3.1.1) of the heat pipe and is in electrically insulating, thermally conductive contact with the hot side (4.1) of the thermoelectric element (4) at the other end (3.1.2) of the heat pipe, and wherein the cold side (4.2) of the thermoelectric element (4) opposite the hot side (4.1) is in electrically insulating, thermally conductive contact (5.1) with the heat-dissipating device (5). The invention further relates to a method for directly generating electrical energy from thermal energy.

Classifications:

International (IPC 8-9): F24D15/02 F24J2/00 F24J2/05 F24S20/00
H01L35/30 (Advanced/Invention)

CPC: H01L35/30 F28D15/0275 F28F2013/006 F28F2265/24

Fig.1**Family:**

Publication number	Publication date	Application number	Application date
DE102011056877 A1	20130627	DE201110056877	20111222
DE102011056877 B4	20180329	DE201110056877	20111222
WO13092394 A2	20130627	WO2012EP75443	20121213
WO13092394 A3	20130822	WO2012EP75443	20121213

Priority:

DE201110056877 20111222

Probable Assignee: WIND PLUS SONNE GMBH**Assignee(s):** (std): WIND PLUS SONNE GMBH**Inventor(s):** (std): HOUWMAN EVERT ; LUTHE GREGOR ; LUTHE GREGOR DR ; STAHL TOBIAS**Agent(s):** MUENCH VOLKER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

35) Family number: 32438426 (US2002023579A)

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Title: High speed electric watercraft

Abstract: High speed electric watercraft of various configurations are provided that utilize at least one submerged enclosed hull containing an electric motor and at least one other parallel float positioned higher than the enclosed hull to provide buoyancy for a platform that can carry one or more individuals above a water surface. The watercraft optionally include features of (1) a rounded front end on the platform, (2) a platform length that is shorter than the float for stability against tipping, (3) entryways that do not require stepping over a vessel hull, (4) dimensions fore and aft that minimize spray onto the rear of the platform, (5) shock absorbers to provide a smoother ride, and (6) adjustable struts that connect floats with the platform to allow control of the platform height above the water surface. These and other features are made possible by a fast electric design that avoids certain problems of vessel type watercraft.

Classifications:

International (IPC 8-9): B63B1/10 B63B1/12 B63B1/14 B63B43/04 B63B43/18 B63H1/18 B63H1/28 B63H20/36 B63H21/17 B63H21/22 B63H5/16 G01S15/04 G01S15/87 G01S15/88 G01S7/521 H03K17/945 (Advanced/Invention); B63B1/10 B63B39/00 B63H23/24 (Advanced/Non-invention); B63B43/00 B63H1/00 B63H20/00 B63H21/00 B63H5/00 G01S15/00 G01S7/521 H03K17/94 (Core/Invention); B63H23/00 (Core/Non-invention)

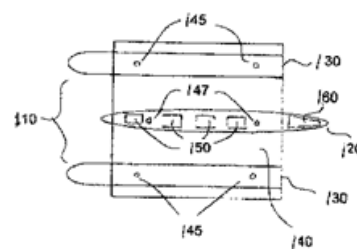
International (IPC 1-7): B60L11/02 B63B1/00 B63B1/10 B63B1/12 B63B35/73 B63B43/04 B63H21/17 B63H21/22 G08B23/00 H02P5/46

CPC: B63B1/107 B63B1/12 B63B43/04 B63H21/17 Y02T70/5209 Y02T90/46 B63B1/125 B63B1/14 B63B39/005 B63H21/22 B63H23/30 H03K17/945 B63H23/32 B63B2209/18 B60L3/0061 B60L15/20 B60L2200/32 B60L2240/12 B60L2240/421 B60L2240/423 B60L2240/545 B60L2240/547 B60L2240/549 B60L2260/167 B63H1/18 B63B43/18 B63H1/28 B63H5/165 B63H20/36 B63H23/24 G01S7/521 G01S15/04 G01S15/87 G01S15/88 Y02T10/645 Y02T10/705 Y02T10/72 Y02T10/7275 Y02T90/34 Y02T10/646 B60L50/51 B60L58/10 B60L58/25 B60L58/26 B60L58/30 B60L58/32 B60L58/33

European: B63B1/10C B63B1/12 B63B1/12M B63B1/14 B63B43/04 B63B43/18 B63H1/18 B63H1/28 B63H20/36 B63H21/17 B63H21/22 B63H23/30 B63H23/32 B63H5/16G G01S15/04 G01S15/87 G01S15/88 G01S7/521 H03K17/945 L63B1/10C L63B39/00V L63H23/24 Y02T70/52B Y02T90/46

US: 114/121 114/283 114/61.1 114/61.100P 114/61.12 114/61.120P 114/61.13 114/61.14 318/109 318/109P 340/979 340/984 340/995.27 440/1 440/2 440/49 440/6 440/63 440/6P 440/6S 440/71 440/76

Patent Application Publication Feb. 28, 2002 Sheet 1 of 15 US 2002/0023579 A1

Figure 1**Family:**

Publication number	Publication date	Application number	Application date
AU200017596 A1	20000824	AU20000017596	20000218
AU200017596 A5	20000824	AU20000017596	20000218
CA2298957 AA	20000818	CA20002298957	20000215
DE10007497 A1	20001123	DE20001007497	20000218

DE10132093 A1	20020620	DE20011032093	20010502
GB200003489 A0	20000405	GB20000003489	20000216
GB2346841 A1	20000823	GB20000003489	20000216
GB2346841 B2	20030326	GB20000003489	20000216
JP2001354186 A2	20011225	JP20000105636	20000218
US2002023579 AA	20020228	US20010877196	20010611
US2002088387 AA	20020711	US20010927640	20010813
US2002185046 AA	20021212	US20020164567	20020610
US2003060094 AA	20030327	US20020164566	20020610
US2004090195 AA	20040513	US20030620618	20030717
US6073569 A	20000613	US19990252038	19990218
US6273015 BA	20010814	US20000561972	20000501
US6532884 BB	20030318	US20010877196	20010611
US6571722 BB	20030603	US20010927640	20010813
US6659815 BB	20031209	US20020164566	20020610
US6676460 BA	20040113	US20020187830	20020703
US6882289 BB	20050419	US20020164567	20020610
US6969287 BA	20051129	US20040754608	20040112
US7335071 BA	20080226	US20050287381	20051128

Priority:

US19980076002P 19980226	US19990252038 19990218	CA20002298957 20000215
US20000561972 20000501	US20000254786P 20001213	US20010296754P 20010611
US20010877196 20010611	US20010302647P 20010705	US20010927640 20010813
US20010323723P 20010921	US20010349375P 20011222	US20020349375P 20020122
US20020164566 20020610	US20020164567 20020610	US20020187830 20020703
US20020396084P 20020717	US20020431200P 20021206	US20020433591P 20021216
US20030445249P 20030206	US20030474957P 20030603	US20030620618 20030717
US20030724240 20031201	US20040754608 20040112	US20050287381 20051128

Probable Assignee: MARUTA ELECTRIC BOATWORKS LLC

Assignee(s): (std): MARUTA ELECTRIC BOATWORKS ; MARUTA ELECTRIC BOATWORKS L L ; MARUTA ELECTRIC BOATWORKS LLC ; PEEK JOSEPH TIMOTHY ; MOTSENBOCKER KAYO ; MOTSENBOCKER MARVIN ANDREW ; HINKELMANN KLAUS ; MOTSENBOCKER MARVIN ; MARUYAMA KAYO ; MOTSENBOCKER MARVIN A ; PROFITT JAMES ARTHUR

Assignee(s): MARVIN MOTSENBOCKER ; MOTSENBOCKER MARVIN MOTSENBOCKER KAYO ; KAYO MOTSENBOCKER ; MURATA ELECTRIC BOATWORKS LLC ; MARUTA ELECTRIC BOATWORKS L L C

Inventor(s): (std): MOTSENBOCKER MARVIN ; MOTSENBOCKER KAYO ; PROFITT JAMES ARTHUR ; PEEK JOSEPH TIMOTHY ; MOTSENBOCKER MARVIN ANDREW ; MOTSENBOCKER MARVIN A

Inventor(s): MARVIN ANDREW MOTSENBOCKER ; KAYO MOTSENBOCKER ; MARVIN MOTSENBOCKER

Agent(s): PAT DONOGHUE

36) Family number: 48000429 (CA2670255A)

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Title: SOLAR POWERED FAN

Abstract: A solar powered personal fan with a much broader spectrum of both portable and fixed operating applications whereas prior art is application specific. This device also provides a plurality of fixed and portable power supplies. A solar panel, rechargeable battery pack or home charger can all be used as a power supply to operate the present invention.

Classifications:

International (ipc 8-9): F04D25/06 F04D25/08 H01L31/042 H02S99/00 (Advanced/Invention)

CPC: F04D25/084 H02S10/40 H02S40/00 Y02E10/50

European: F04D25/08C H01L31/042 Y02E10/50

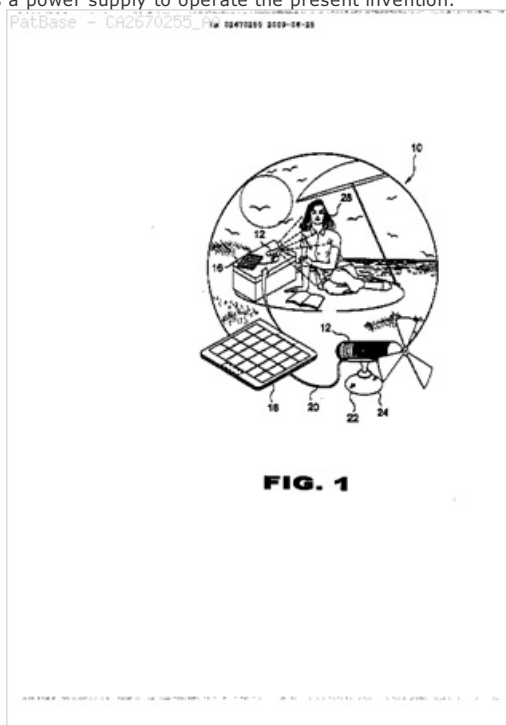


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
CA2670255 AA	20101225	CA20092670255	20090625

Priority:

CA20092670255 20090625

Probable Assignee:

PATEL AMISH

Assignee(s): (std):

PATEL AMISH

Inventor(s): (std):

PATEL AMISH

Agent(s):

OSLER HOSKIN AND HARCOURT LLP

37) Family number: 69030447 (IN201641032696A)

© PatBase

Title: WATER CONDENSATION USING TEC

Abstract: An efficient way to extract water from humid air without the use of condensation techniques involving environmentally hazardous refrigerants such as CFC. Being a method that utilizes electricity for conversion, the same can be coupled to a environmentally safe method of generating electricity such as Solar power for reducing harm over the environment. The basic principle behind the peltier element is, there are two different semi-conductors which form a junction. When a supply is given to the peltier element the two different semi-conductors exhibit their properties (i.e) one side gets heated and the other side gets cooled. When the supply is given the heat flows from one side of the element to the other side causing a dual-effect. The supply given to the peltier element is 12v, 5a. The dimensions of the peltier is 4x4 cm.

Classifications:**International (IPC 8-9):** H01L31/00 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
IN201641032696 A	20180330	IN201641032696	20160926

Priority:

IN201641032696 20160926

Probable Assignee: GANESH SUBRAMAINYAN**Assignee(s):**

GANESH SUBRAMAINYAN ; M P CHITRA ; N MOHAMMED BURHANUDDIN DADNI ; SARAVANAN M S ; T JAYANTHY

Inventor(s):

GANESH SUBRAMAINYAN ; M P CHITRA ; N MOHAMMED BURHANUDDIN DADNI ; SARAVANAN M S ; T JAYANTHY

38) Family number: 59784457 (US2015202417A)

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Title: DEVICES AND METHODS FOR TRANSDERMAL DRUG DELIVERY

Abstract: Provided are devices for therapeutic interaction with an Abreu brain thermal tunnel (ABTT) terminus. Such devices are configured to provide one or more drugs to an ABTT terminus, and may provide heat to or remove heat from the ABTT terminus while providing the one or more drugs.

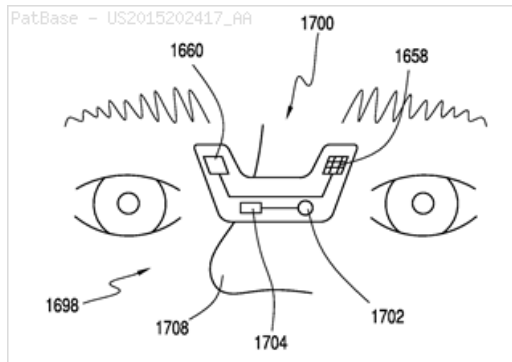
Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/01 A61F A61F7/00 A61F7/02 A61F7/08 A61F7/10 A61F7/12 A61M35/00 A61M37/00 A61M5/44 A61N1/28 A61N1/30 (Advanced/Invention); A61B5/01 A61K9/70 (Advanced/Non-invention)

CPC: A61M2205/3368 A61F2007/0004 A61F2007/0007 A61F2007/0096 A61F2007/0059 A61F2007/0063 A61M35/00 A61B5/01 A61F2007/0003 A61F2007/0052 A61F2007/026 A61F2007/0261 A61M2210/0618 A61F7/02 A61F2007/0006 A61F2007/0054 A61F2007/0071 A61F2007/0075 A61F2007/0076 A61F2007/0093 A61F2007/0094 A61F2007/0228 A61F2007/108

US: 604/291 607/104 607/109 607/110

PatBase - US2015202417_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2015204588 AA	20160721	AU20150204588	20150110
AU2015209304 AA	20160721	AU20150209304	20150122
CA2936235 AA	20160707	CA20152936235	20150110
CA2936247 AA	20160707	CA20152936247	20150122
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CN106163463 A	20161123	CN201580015550	20150122
EP3091894 A1	20161116	EP20150734985	20150110
EP3091894 A4	20170920	EP20150734985	20150110
EP3096721 A2	20161130	EP20150739914	20150122
EP3096721 A4	20171018	EP20150739914	20150122
HK1230056 A1	20171201	HK20170103993	20170419
HK1230062 A1	20171201	HK20170103991	20170419
IN201647026478 A	20160831	IN201647026478	20160803
IN201647027836 A	20161007	IN201647027836	20160816
JP2017503604 T2	20170202	JP20160548010T	20150122
JP2017505657 T2	20170223	JP20160545988T	20150110
US2015202417 AA	20150723	US20150603353	20150122
US2015209174 AA	20150730	US20150594122	20150110
US10238847 BB	20190326	US20150603353	20150122
US10251776 BB	20190409	US20150594122	20150110

WO15106180 A1	20150716	WO2015US10938	20150110
WO15106180 A4	20150903	WO2015US10938	20150110
WO15112776 A2	20150730	WO2015US12546	20150122
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WO15112776 A4	20151015	WO2015US12546	20150122

Priority:

US20140926159P 20140110 US20140930262P 20140122 US20150594122 20150110
WO2015US10938 20150110 US20150603353 20150122 WO2015US12546 20150122

Probable Assignee: GEELUX HOLDINGS LTD

Assignee(s): (std): ABREU MARCIO ; ABREU MARCIO MARC ; GEELUX HOLDING LTD ; GEELUX HOLDINGS LTD

Inventor(s): (std): ABREU MARCIO MARC

Agent(s): FB RICE; FB RICE PTY LTD; MOFFAT AND CO; PFENNING MEINIG AND PARTNER MBB; NTD PATENT AND TRADE MARK AGENCY LTD; NISHIJIMA TAKAKI; OHTSUKA FUMIAKI; SUDA HIROYUKI; KONDO NAOIKI; UESUGI HIROSHI; DESHIMARU TAKESHI; STUDEBAKER AND BRACKETT PC; SCHERER JONATHAN L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

39) Family number: 52413468 (US2012298676A)

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Title: CONTAINERS,ETC WITH OR WITHOUT MULTI-PRODUCTS AND/OR MULTI-PD'S ARE NOT

Abstract: Pocket department (PD) etc in etc: sports container beverage and food containers etc products etc. Which said PD etc can also cool and heat etc holds etc products etc like power bars etc from melting etc and can combine drinks etc and food etc. Furthermore invention shows also backward and forward products etc and MULTI PDS and MULTI PRODUCTS etc or not and shows with or without products etc and shows companies and customers rights etc and define display PD etc as PD and can be in any product etc not just food and drinks containers and PD etc can be also place in the housing casing the body of any products etc and product etc can be within product etc and invention shows same contents etc. Invention for plants pets humans etc and use each others PDS products materials parts etc.

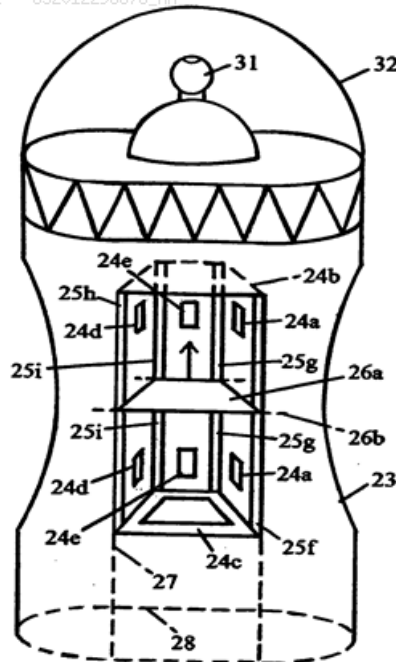
Classifications:

International (IPC 8-9): B23P17/00 B65D25/04 (Advanced/Invention)

CPC: B65D1/04 B65D51/28 B65D81/3216 B65D47/06 Y10T29/49

US: 220/500 220/592.21 29/592

PatBase - US2012298676 A4



Family:

Publication number	Publication date	Application number	Application date
US2012298676 AA	20121129	US20120462706	20120502

Priority:

US20110457636P 20110503 US20120462706 20120502

Probable Assignee:

COOKS KRISTOFFER

Assignee(s): (std):

COOKS KRISTOFFER

Inventor(s): (std):

COOKS KRISTOFFER

40) Family number: 43764476 (WO09114905A1)

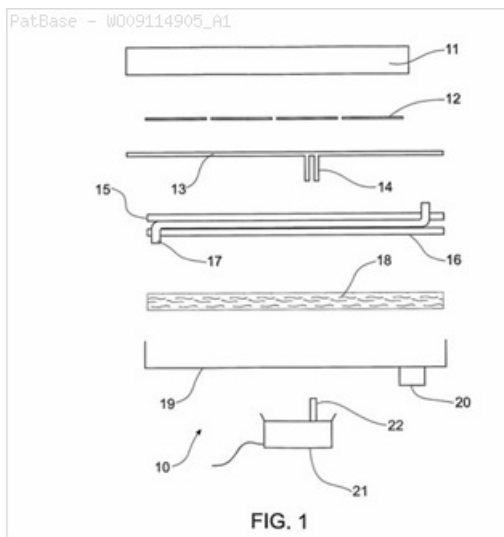
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Title: TILE UNIT

Abstract: A tile unit comprising a support frame having an upper surface area and a lens assembly substantially covering the upper surface area of the support frame. One or more photovoltaic cells are located beneath the lens assembly to convert solar energy passing through the lens assembly into electrical energy. A thermal assembly, comprising a heat transport system, is located adjacent the one or more photovoltaic cells. The heat transport system contains a fluid to capture thermal energy and transport it external the support frame.

Classifications:

International (IPC 8-9): E04D13/18 F24J2/04 F24J2/08 F24J2/52
H01L31/058 (Advanced/Invention);
E04D13/18 F24J2/00 F24J2/04 F24J2/06 H01L31/058 (Core/Invention)
CPC: H02S20/25 Y02B10/12 Y02B10/20 Y02B10/70 Y02E10/44
Y02E10/52 Y02E10/60 H01L31/0543 H02S40/44 F24S20/69
F24S23/30
European: F24J2/04B14 F24J2/08 H01L31/048B2 H01L31/052B
H01L31/058 Y02B10/12 Y02B10/20 Y02B10/70 Y02E10/44 Y02E10/52
Y02E10/60

**Family:**

Publication number	Publication date	Application number	Application date
AU2009225948 AA	20090924	AU20090225948	20090318
WO09114905 A1	20090924	WO2009AU00321	20090318

Priority:

AU20080901311 20080318 AU20090225948 20090318 WO2009AU00321 20090318

Probable Assignee: SOTEK AUSTRALIA PTY LTD

Assignee(s): (std): BLACH TOMAS ; SOTEK AUSTRALIA PTY LTD

Inventor(s): (std): BLACH TOMAS

Inventor(s): TOMAS BLACH

Agent(s): FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

41) Family number: 54513488 (US2013201316A)

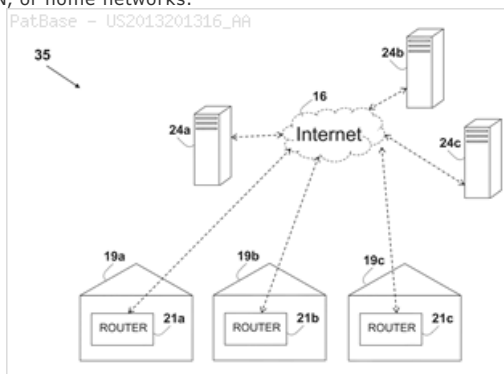
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Title: SYSTEM AND METHOD FOR SERVER BASED CONTROL

Abstract: A system and method in a building or vehicle for an actuator operation in response to a sensor according to a control logic, the system comprising a router or a gateway communicating with a device associated with the sensor and a device associated with the actuator over in-building or in-vehicle networks, and an external Internet-connected control server associated with the control logic implementing a PID closed linear control loop and communicating with the router over external network for controlling the in-building or in-vehicle phenomenon. The sensor may be a microphone or a camera, and the system may include voice or image processing as part of the control logic. A redundancy is used by using multiple sensors or actuators, or by using multiple data paths over the building or vehicle internal or external communication. The networks may be wired or wireless, and may be BAN, PAN, LAN, WAN, or home networks.

Classifications:

International (IPC 8-9): H04L29/08 (Advanced/Invention);
B60K31/00 B60K31/18 G01C21/00 G07C5/00
G08G1/00 (Advanced/Non-invention)
CPC: H04L67/12 B60K31/00 B60K31/18 B60Y2200/11 B60Y2200/12
B60Y2200/126 B60Y2200/13 B60Y2200/30 B60Y2200/40
B60Y2200/50 B60Y2200/90 G01C21/00 G06Q2240/00 G07C5/008
G08G1/00 Y04S40/18
US: 348/143 348/77 370/276 700/22 700/28 701/2 701/31.4 701/48
709/218

**Family:**

Publication number	Publication date	Application number	Application date
US2013201316 AA	20130808	US20130733634	20130103
US2017078400 AA	20170316	US20160361434	20161127
US2017331899 AA	20171116	US20170657163	20170723
US2018034912 AA	20180201	US20170716881	20170927
US2018124181 AA	20180503	US20170832787	20171206
US2018278693 AA	20180927	US20180992219	20180530
US2018278694 AA	20180927	US20180992221	20180530
US2018343304 AA	20181129	US20180053836	20180803
US2018375940 AA	20181227	US20180053834	20180803

US2019098090 AA	20190328	US20180198803	20181122
US2019109904 AA	20190411	US20180198804	20181122

Priority:

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US20180992219	20180530	US20180992221	20180530	US20180053836	20180803
US20180053834	20180803	US20180198803	20181122	US20180198804	20181122

Probable Assignee:

MAY PATENTS LTD

Assignee(s): (std):

MAY PATENTS LTD

Inventor(s): (std):

BINDER YEHUDA ; MAYTAL BENJAMIN

42) Family number: 31957524 (US2001002451A)

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Title: METHOD AND APPARATUS FOR CONTROLLING A VEHICULAR COMPONENT

Abstract: Control system and method for controlling a part of the vehicle in which sensor systems are mounted at different locations on the vehicle, each sensor system providing a measurement related to a state of the sensor system or a measurement related to a state of the mounting location. A processor coupled to the sensor systems diagnoses the state of the vehicle based on the measurements of the sensor system, e.g., by the application of a pattern recognition technique. The processor controls the part based at least in part on the diagnosed state of the vehicle. At least one of the sensor systems may be a high dynamic range accelerometer or a sensor selected from a group consisting of a single axis acceleration sensor, a double axis acceleration sensor, a triaxial acceleration sensor and a gyroscope, and may optionally include an RFID response unit.

Classifications:

International (ipc 8-9): B60C11/24 B60C19/00 B60C23/04 B60C23/06 B60J10/00 B60J7/057 B60K28/16 B60N2/00 B60N2/015 B60N2/02 B60N2/06 B60N2/28 B60N2/48 B60N2/66 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/20 E05F15/00 G01F23/00 G01F23/20 G01F23/296 G01G19/414 G01N11/00 G01N29/02 G01N33/00 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/02 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06F3/023 G06K9/00 G07C5/00 G07C5/08 G08B13/14 G08B29/18 G08C19/00 H01Q1/32 (Advanced/Invention); B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/203 B60R21/215 B60R21/231 B60R21/26 B60R21/276 B60R22/28 B60R22/46 B60R22/48 G01S13/04 G01S15/06 G01S17/89 (Advanced/Non-invention); B60C11/24 B60C19/00 B60C23/02 B60C23/06 B60J10/00 B60J7/04 B60N2/00 B60N2/005 B60N2/02 B60N2/06 B60N2/26 B60N2/48 B60N2/64 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/18 E05F15/00 G01F23/00 G01F23/296 G01G19/40 G01N11/00 G01N29/02 G01N33/00 G01S15/00 G01S17/00 G01S7/02 G01S7/48 G01S7/539 G06F3/023 G06K9/00 G07C5/00 G08B13/14 G08B29/00 G08C19/00 H01Q1/32 (Core/Invention); B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/23 B60R21/26 B60R22/00 B60R22/28 B60R22/46 G01S13/00 (Core/Non-invention)

International (ipc 1-7): G06F11/00 G06F7/00 G08C19/00

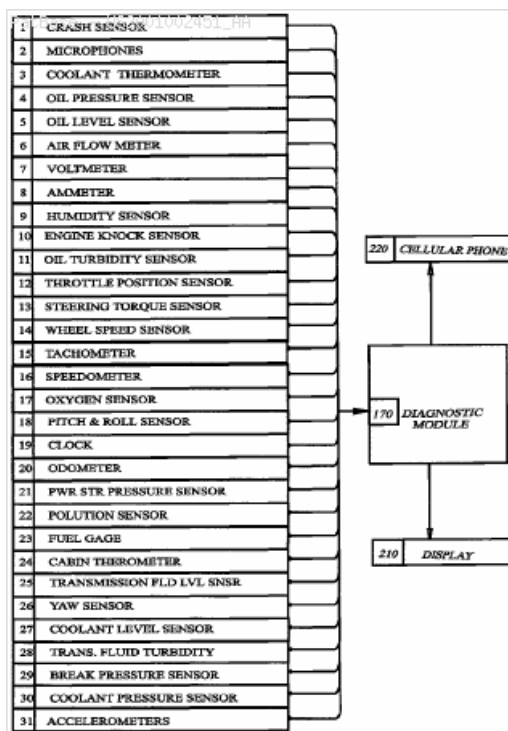
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European: B60C11/24 B60C19/00 B60J10/00 B60J7/057 B60N2/00C B60N2/015 B60N2/02B4 B60N2/02B6 B60N2/02B6B B60N2/02B6C B60N2/02B6W B60N2/06S B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C2C B60N2/48C3C B60N2/48W B60N2/66 B60Q1/14C1B B60R16/02B8 B60R16/037 B60R21/013 B60R21/0136 B60R21/015 B60R22/20 B60R25/25 B60R25/25B B60R25/25D B60R25/25F E05F15/00B6B E05F15/00B6B2 G01F23/00G1A G01F23/296D G01G19/414A G01N35/00G3L G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/02D G01S17/88 G01S7/41D G01S7/48A G01S7/539 G06F3/023A5 G06F3/023M G06F3/023M8 G06F3/023P G06F3/02A5 G06K9/00H G06K9/00V G06K9/00V7 G07C5/00T G07C5/08D G08B13/14D G08B13/24B5T G08B13/24B7D G08B21/02A26 G08B29/18A G08G1/20B H01Q1/32L10 L60G400/62 L60G401/12 L60N2/02B6S L60Q300/410 L60Q300/420 L60R1/12C L60R1/12G L60R21/00C L60R21/0132 L60R21/0134 L60R21/013R L60R21/015G2 L60R21/015G6 L60R21/015G6B L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8C L60R21/015G8E L60R21/015G9 L60R21/015J L60R21/01H3Y L60R21/01L6A L60R21/203 L60R21/2165S L60R21/231M L60R21/26V L60R21/276 L60R21/276L L60R22/20B L60R22/20R L60R22/28L L60R22/46L L60R22/48B2 P05F15/00B6B5R P05Y900/516 P05Y900/542 P05Y900/550 S01N291/028F S01N291/028H S01N291/028T S01S13/04 S01S15/04 S01S15/06 S01S15/88 S01S17/89 S07B15/06B S07C5/08R2 S10K210/1282 S10K210/3219

US: 180/197 280/735 280/735S 307/9.1 340/12.25 340/13.31 340/13.310P 340/5.61 340/5.64 340/5.7 340/5.71 340/5.710S 340/7.29 340/825.22 340/825.37 340/825.69 340/825.72 455/42 455/420S 455/556.2 701/1 701/29 701/29.7 701/30.6 701/31.4 701/32.1 701/32.3 701/32.4 701/33.1 701/34 701/34.4 701/36 701/36P 701/39 701/468 701/500 73/53.01 73/53.010S 73/61.41 73/61.410P 73/625 73/625S

Family:

Publication number	Publication date	Application number	Application date
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US2003176959 AA	20030918	US20020330938	20021227
US2005046584 AA	20050303	US20040940881	20040913
US2006180371 AA	20060817	US20060278188	20060331



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Priority:

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Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): AUTOMOTIVE TECH INT ; BREED DAVID S ; INTELLIGENT TECH INT INC

Assignee(s): AMERICAN VEHICULAR SCIENCES LLC ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC ; INTELLIGENT TECHNOLOGIES INT INC ; INTELLIGENT TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INTIONAL

Inventor(s): (std): BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Inventor(s): BREED DAVID ; JOHNSON WENDELL ; DUVALL WILBUR

Agent(s): BRIAN ROFFE ESQ; BRIAN

43) Family number: 72726528 (IN201721023030A)

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Title: SPACE COOLING AND HEATING SYSTEM WORKS ON PELTIER EFFECT USING SOLAR ENERGY

Abstract: A system for cooling and heating car space using solar energy works on peltier effect. In this system the sunlight is absorb by solar panel as a source of energy and it converts into electrical energy. This electric energy stores in Battery. According to peltier effect there are two junctions. One is place inside the vehicle indoor space and another place outside the vehicle, when current supply is ON by using switch the one junction is heated and another one get cools and if the current direction is reverse then effect will be reverse. The fan is provided for force circulation of air. So according to environmental conditions (i.e. warm and cold atmosphere) current direction is decided. In warm atmosphere, when current is supply then junction inside the car space is get cool and fan circulates the cold air inside the car and hot junction dissipates the heat outside the car. In cold atmosphere, current direction is reverse, the effect are vice versa. Thus said system provides the better comfort according to atmospheric conditions.

Classifications:

International (IPC 8-9): H02S10/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201721023030 A	20190104	IN201721023030	20170630

Priority:

IN201721023030 20170630

Probable Assignee: AKSHAY AMSIDDAPPA KOLGIRI

Assignee(s): AKSHAY AMSIDDAPPA KOLGIRI ; DEEPAK GORAKSHANATH HOLE ; SHUBHAM SANJAY YADAV

Inventor(s): AKSHAY AMSIDDAPPA KOLGIRI ; DEEPAK GORAKSHANATH HOLE ; SHUBHAM SANJAY YADAV

44) Family number: 60562528 (US2015296599A)

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Title: MODULAR COORDINATED LIGHTING SYSTEM

Abstract: A modular coordinated lighting system comprising one or more wireless lighting devices that can communicate

over a network and coordinate their operation to provide illumination to an area is provided. Wireless control present in one wireless lighting device can be used to propagate the wireless control of that wireless lighting device to an entire of group of lights in a lighting system. In this manner, a user can easily install wireless lighting devices that work in coordination to illuminate an area as if they are one lighting device. A networked wireless lighting device may also be configured through the user input method to operate different groups of wireless lighting modules such that lighting groups may be created. Multiple lighting groups allow a user to configure lighting provided by the modular coordinated lighting system based on their preference.

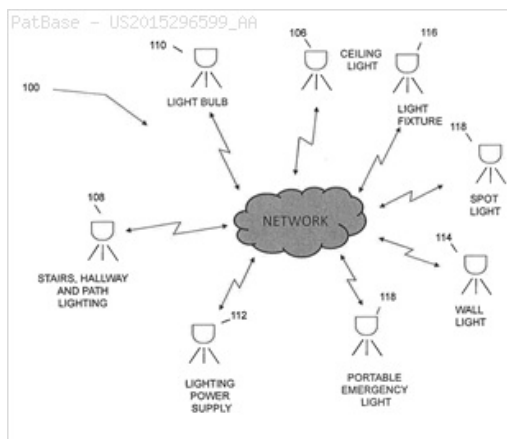
Classifications:

International (IPC 8-9): H05B33/08 H05B37/02 (Advanced/Invention)

CPC: H05B37/0272 H05B37/0218 H05B37/0281 H05B37/0227

Y02B20/42 Y02B20/46

US: 315/153 315/297



Family:

Publication number	Publication date	Application number	Application date
US2015296599 AA	20151015	US20150682511	20150409
US10085327 BB	20180925	US20150682511	20150409
US10321547 BA	20190611	US20180047383	20180727

Priority:

US20140978391P 20140411 US20150682511 20150409 US20180047383 20180727

Probable Assignee: WIRELESS ENVIRONMENT LLC

Assignee(s): (std): LEVINE DAVID B ; WIRELESS ENVIRONMENT LLC ; RECKER MICHAEL V ; WIRELESS ENV LLC ; A9 COM INC

Assignee(s): A9COM INC ; AMAZON TECHNOLOGIES INC

Inventor(s): (std): RECKER MICHAEL V ; LEVINE DAVID B

Agent(s): LEE AND HAYES PLLC; LEE AND HAYES PC

45) Family number: 56585536 (EP2738384A2)

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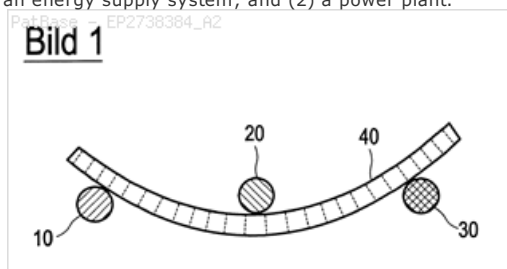
Title: ENERGY SUPPLY SYSTEM SYSTEME D'ALIMENTATION EN

Abstract: The gas storage has main portion that is arranged under water and/or operated when water pressure acts on the surface of the gas storage. The gas storage is configured such that the water pressure is formed on the surface of the gas reservoir to compensate for the gas pressure inside of the gas reservoir. The gas storage is arranged in water depth of specific value. Independent claims are included for the following: (1) an energy supply system; and (2) a power plant.

Classifications:

International (IPC 8-9): F03G7/04 H02J15/00 (Advanced/Invention)

CPC: F03G7/04 H02J15/006 Y02E60/15



Family:

Publication number	Publication date	Application number	Application date
EP2738384 A2	20140604	EP20130075060	20130904

Priority:

DE201210017866 20120905 DE201210019266 20120921 DE201310000542 20130107
DE201310005330 20130320

Probable Assignee: DREZNJAK IVAN

Assignee(s): (std): DREZNJAK IVAN

Inventor(s): (std): DREZNJAK IVAN

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

46) Family number: 43126545 (US2009092284A)

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Title: LIGHT MODULATION TECHNIQUES FOR IMAGING OBJECTS IN OR AROUND A VEHICLE

Abstract: Method and system for obtaining information about an object in a compartment in a vehicle includes directing

illumination into the compartment, spatial or temporally modulating the illumination, receiving light reflected from an object in the compartment, and analyzing the reflected light to obtain information about the object. The compartment may be a passenger compartment of an automobile, the trunk of an automobile or the interior of a trailer of a truck. The illumination may be directed from a light source and the reflected light received at a receiver spaced apart from the light source. Analysis of the reflected light may therefore entail applying a triangulation calculation to enable a determination of a distance between the light source and illuminated point on the object. The same method and system can be adapted for monitoring the environment around the vehicle.

Classifications:

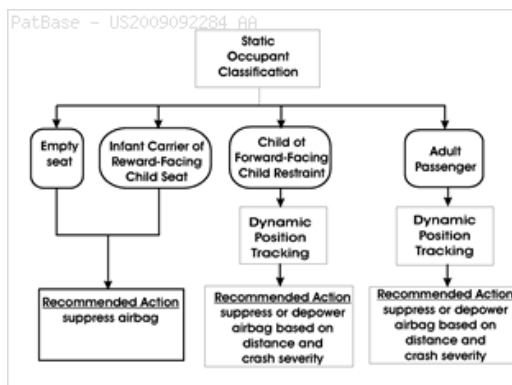
International (IPC 8-9): G06K9/00 (Advanced/Invention);

G06K9/00 (Core/Invention)

CPC: B60N2002/0272 B60N2/002 B60N2002/0268 B60Q1/143 B60Q2300/41 B60Q2300/42 B60R16/037 B60R21/013 B60R21/0134 B60R21/0136 B60R25/25 B60R25/252 B60R25/255 B60R25/257 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/01315 E05Y2900/516 E05Y2900/55 G01S7/417 G01S7/4802 G01S7/4814 G01S7/4817 G01S7/539 G01S13/04 G01S15/04 G01S15/06 G01S15/87 G01S15/88 G01S17/88 G01S17/89 G06K9/00362 G10K2210/1282 G10K2210/3219 B60R21/01516 B60R21/01534 B60R21/01536 B60R21/01538 B60R21/01542 B60R21/01548 B60R21/01552 B60R21/01554 B60R21/0152 B60R21/01544 E05F15/43 E05F15/431 E05F2015/433 G06K9/00832 B60J10/00 B60R21/0153 G01S17/48

European: B60J10/00 B60N2/00C B60Q1/14C1B B60R16/037 B60R21/013 B60R21/015 B60R25/25 B60R25/25B B60R25/25D B60R25/25F E05F15/00B6B E05F15/00B6B2 G01G19/414A G01S15/87 G01S15/88 G01S17/48 G01S17/88 G01S7/41D G01S7/481C G01S7/48A G01S7/539 G06K9/00H G06K9/00V7 L60N2/02B6S L60Q300/410 L60Q300/420 L60R1/12C L60R1/12G L60R21/00C L60R21/0132 L60R21/0134 L60R21/0136 L60R21/013R L60R21/015G2 L60R21/015G6 L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8E L60R21/015G9 L60R21/015G9 L60R21/01H3Y P05F15/00B6B5R P05Y900/516 P05Y900/550 S01S13/04 S01S15/04 S01S15/06 S01S17/89 S01S7/481E S10K210/1282 S10K210/3219

US: 382/100 382/103 382/103P



Family:

Publication number	Publication date	Application number	Application date
US2009092284 AA	20090409	US20070943633	20071121
US7738678 BB	20100615	US20070943633	20071121

Priority:

US19950474786 19950607	US19980200614 19981130	US19980114507P 19981231
US19990389947 19990903	US19990476255 19991230	US20010765559 20010119
US20010838919 20010420	US20010925043 20010808	US20020116808 20020405
US20020302105 20021122	US20030413426 20030414	US20030733957 20031211
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US20050025501 20050103	US20060455497 20060619	US20060502039 20060810
US20060538934 20061005	US20060558314 20061109	US20060558996 20061113
US20060614121 20061221	US20070839622 20070816	US20070841056 20070820
US20070943633 20071121		

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): AUTOMOTIVE TECH INT

Assignee(s): AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AMERICAN VEHICULAR SCIENCES LLC

Inventor(s): (std): JOHNSON WENDELL C ; DUVALL WILBUR E ; BREED DAVID S

Agent(s): BRIAN ROFFE ESQ; BRIAN

47) Family number: 29435569 (US6039390A)

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Title: CHROMOGENIC WINDOW ASSEMBLY CONSTRUCTION AND OTHER CHROMOGENIC DEVICES

Abstract: A chromogenic window panel assembly, and a chromogenic skylight each includes an outer panel and a chromogenic member having an optical property which varies according to an applied signal. A chromogenic light pipe includes a light harvesting member and a chromogenic member having an optical property which varies according to an applied signal. A chromogenic vehicle sunroof, a chromogenic aircraft window assembly, and a chromogenic window assembly each includes a panel having a particular panel contour corresponding to a surface contour and a chromogenic panel having an optical property which varies according to an applied signal. A chromogenic block includes two panels and a chromogenic panel having an optical property which varies according to an applied signal.

Classifications:

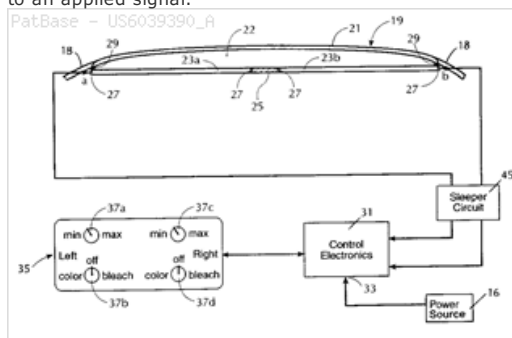
International (IPC 8-9): B60J3/04 E06B9/24 G02F1/01 G02F1/13 G02F1/133 G02F1/153 G02F1/163 (Advanced/Invention); G02F1/01 G02F1/153 G02F1/163 (Advanced/Non-invention); B60J3/00 E06B9/24 G02F1/13 (Core/Invention); G02F1/01 (Core/Non-invention)

International (IPC 1-7): B60J1/20 B60J3/04 E06B3/66 E06B9/24 G01J3/50 G02F1/1335 G02F1/15 G02F1/153 G02F1/17

CPC: B32B17/10467 B32B17/10513 B32B17/10036 Y02T10/90 B60J3/04 E06B9/24 E06B2009/2464 G02F1/011 G02F1/13318 G02F1/133308 G02F1/133382 G02F1/153 G02F1/163

European: B32B17/10C4 B60J3/04 E06B9/24 G02F1/1333E G02F1/133D2 P06B9/24F S02F1/01C S02F1/1333V S02F1/133D2 S02F1/153 S02F1/163 Y02T10/88

US: 244/129.3 250/205 250/226 296/211 296/215 349/16 359/241 359/265 359/275 52/171.3 52/204.5 52/786.1



Family:

Publication number	Publication date	Application number	Application date
AU199741533 A1	19980306	AU19970041533	19970820
EP0923754 A1	19990623	EP19970939446	19970820
US6039390 A	20000321	US19970914876	19970820
US6493128 BA	20021210	US20000493263	20000128

US6528782 BA	20030304	US20000595315	20000616
WO9808137 A1	19980226	WO1997US14558	19970820

Priority:

US19960699940 19960820 US19970914876 19970820 WO1997US14558 19970820
US20000493263 20000128 US20000595315 20000616

Probable Assignee: SCHOTT DONNELLY LLC SMART GLASS SOLUTIONS

Assignee(s): (std): DONNELLY CORP ; SCHOTT DONNELLY LLC

Assignee(s): SCHOTT DONNELLY LLC SMART GLASS SOLUTIONS

Inventor(s): (std): TONAZZI JUAN CARLOS LOPEZ ; LECOMPTE ROBERT STEVEN ; BAERTLEIN CARL ; AGRAWAL ANOOP ; FISCHER DOUGLAS ALAN ; BAERTELIN CARL ; ZHANG RAYMOND ; LECOMPTE BOB ; HANSEN STEPHAN

Inventor(s): JUAN CARLOS LOPEZ TONAZZI ; ROBERT STEVEN LECOMPTE ; CARL BAERTLEIN ; ANOOP AGRAWAL ; DOUGLAS ALAN FISCHER

Agent(s): E F WELLINGTON AND CO

Designated states: AT AU BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

48) Family number: 61539572 (US2016025362A)

© PatBase

Title: SYSTEM FOR CONTROLLING AMBIENT CONDITIONS WITHIN A GIVEN AREA WITH AUTOMATED FLUID REGISTER

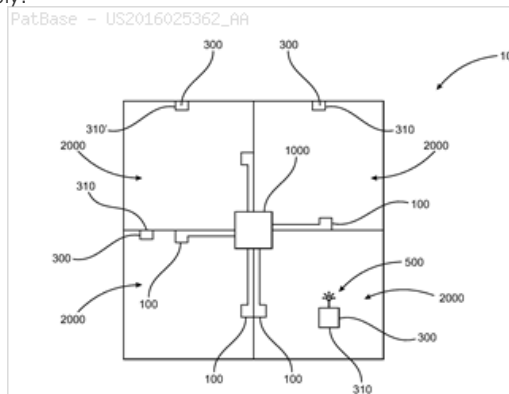
Abstract: A system for controlling temperature within a given area or room by regulating the inflow of heated or cooled air thereto. At least one vent communicates with the area and is positionable in either an open orientation or a closed orientation, thereby respectively facilitating or restricting the flow of conditioned air into the area. A control assembly is operatively associated with the one vent and structured to control its disposition between the open and closed orientations. A temperature sensor is disposed within the area and determines "temperature data" therein. In turn the temperature data is determinative of positioning the vent in either the open or closed orientations. Wireless communication facilities may be associated with the temperature sensor and the control assembly to transmit, by wireless communication, the determined temperature data from the temperature sensor to the control assembly.

Classifications:

International (IPC 8-9): F24F11/00 (Advanced/Invention)

CPC: F24F13/1426 F24F11/70 F24F11/30 F24F11/74 F24F2110/10

US: 236/49.3



Family:

Publication number	Publication date	Application number	Application date
CA2860042 AA	20160128	CA20142860042	20140818
US2016025362 AA	20160128	US20140444195	20140728

Priority:

US20140444195 20140728

Probable Assignee: MARTINDALE DANIEL

Assignee(s): (std): MARTINDALE DANIEL ; MARTINDALE DANIEL DARRELL WALDIE

Inventor(s): (std): MARTINDALE DANIEL ; MARTINDALE DANIEL DARRELL WALDIE

Agent(s): OKIMAW RICHARD D

49) Family number: 65615574 (IN02983DE2014A)

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Title: GREEN ENERGY BASED AIR-CONDITIONER

Abstract: The present invention provides an energy efficient air conditioner system without a compressor system. The air conditioner system comprises low pressure mist chamber for creating mist to produce cooling effect which is attached with thermocouple. The energy efficient air conditioner system uses solar power. All the chambers are embedded in a system which supplies cool and dry air.

Classifications:

International (IPC 8-9): B29D (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN02983DE2014 A	20160831	IN2014DE02983	20141020

Priority:

IN2014DE02983 20141020

Probable Assignee: AMITY UNIV

Assignee(s): AMITY UNIV

Inventor(s): ADITYA PRATAP SINGH ; AK JAIRATH ; BHUPESH KUMAR SINGH ; HARSHVARDHAN JOSHI ; SAKET KUMAR

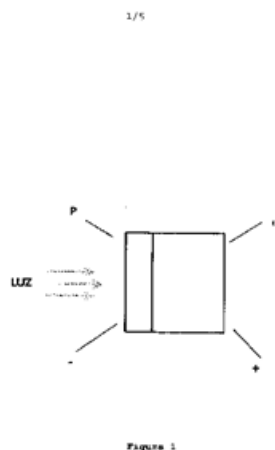
Title: SISTEMA CLIMATIZADOR PARA VEICULOS UTILIZANDO ENERGIA SOLAR CLIMATE CONTROL SYSTEM FOR VEHICLES USING SOLAR ENERGY (Machine translation)

Abstract: Source: BRPI1105326A [PT] 1 Resumo da Patente de Invencao para: "SISTEMA CLIMATIZADOR PARA VEICULOS UTILIZANDO ENERGIA SOLAR". A presente invencao se refere a um sistema de climatizacao para veiculos quando estes ficam expostos ao sol, utilizando como fonte de energia a luz solar e tambem a instalacao de uma tomada de 127 Volts no interior do veiculo para alimentacao de cargas de baixa potencia. O sistema e composto por uma placa fotovoltaica fixada na parte superior externa do veiculo para captacao da luz solar convertendo-a em energia eletrica atraves das celulas fotovoltaicas que serao armazenadas em uma bateria propria para esse fim, sendo esta carga regulada por um controlador na -rcra s **Machine translation:** 1 Summary of the Invention Patent for: "CLIMATE CONTROL SYSTEM FOR VEHICLES USING SOLAR ENERGY" The present invention relates to an air conditioning system for vehicles when they are exposed to sun, using as energy source the sun, and also the installation of an outlet of 127 volts inside the vehicle for feeding of low power loads. The system and comprises a photovoltaic plate fixed to the upper outer part of the vehicle to capture sunlight converting it into electrical energy by photovoltaic cells that will be stored in an own battery for this purpose, and this load controlled by a controller in -rcra s

Classifications:

International (IPC 8-9): B60H1/32 F25B27/00 (Advanced/Invention)

PatBase - BRPI1105326_A2



Family:

Publication number	Publication date	Application number	Application date
BRPI1105326 A2	20150728	BR2011PI05326	20111222

Priority:

BR2011PI05326 20111222

Probable Assignee: SERVICO NAC DE APRENDIZAGEM IND DEPARTAMENTO REGIONAL DE SAO PAULO SENAI SP

Assignee(s): (std): SERVICO NAC DE APRENDIZAGEM IND DEPARTAMENTO REGIONAL DE SAO PAULO SENAI SP

Assignee(s): SERVICO NACIONAL DE APRENDIZAGEM INDUSTRIAL DEPARTAMENTO REGIONAL DE SAO PAULO SENAI SP

Inventor(s): (std): FREITAS CARINA APARECIDA MORELLI DE ; WOLBER WELLINTON LUIS

Inventor(s): CARINA APARECIDA MORELLI DE FREITAS ; WELLINTON LUIS WOLBER

Title: VEHICULAR BODY PANEL ENERGY GENERATOR SYSTEM

Abstract: A vehicular body panel energy generator system is disclosed. An illustrative embodiment of the system includes a vehicle body and a plurality of body panels forming the vehicle body. At least one of the body panels comprises a vehicular solar panel. A method of generating and utilizing electrical power in a vehicle is also disclosed.

Classifications:

International (IPC 8-9): B60K16/00 B60L11/14 B60L50/16 B60L8/00 B60R16/03 B60R16/04 B62D25/00 B62D25/06 B62D25/10

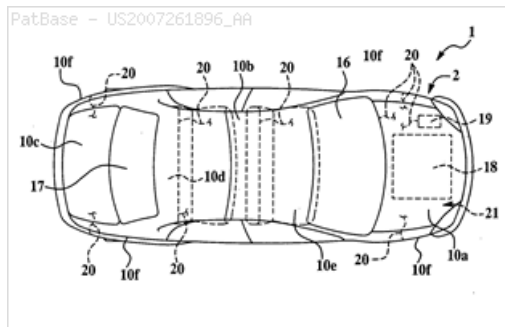
H01L31/042 (Advanced/Invention);

B60K16/00 B60L8/00 B60R16/03 B60R16/04 B62D25/00 B62D25/06 B62D25/10 H01L31/042 (Core/Invention)

CPC: B60L8/00 B60L11/14 B60L8/003 B60L2270/12 Y02T10/7077 Y02T10/7083 Y02T10/90 Y02T10/70 B60L50/16

European: B60L11/14 B60L8/00B L60L270/12 Y02T10/70J2 Y02T10/70J2B Y02T10/90

US: 180/2.2 180/2.200P

**Family:**

Publication number	Publication date	Application number	Application date
CN101070059 A	20071114	CN200710107446	20070511
CN101070059 B	20110831	CN200710107446	20070511
DE102007021989 A1	20071122	DE200710021989	20070510
GB200708987 A0	20070620	GB20070008987	20070510
GB2437946 A1	20071114	GB20070008987	20070510
JP2007331745 A2	20071227	JP20070125369	20070510
JP5242944 B2	20130724	JP20070125369	20070510
US2007261896 AA	20071115	US20060433372	20060511
US8997901 BB	20150407	US20060433372	20060511

Priority:

US20060433372 20060511

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC**Assignee(s):** (std): FORD GLOBAL TECH LLC ; FORD GLOBAL TECHNOLOGIES INC ; MILLER RONALD ; MACNEILLE PERRY ; SHAFFER ARIC ; PATTERSON JOSEPH**Assignee(s):** FORD MOTOR CO ; FORD GLOBAL TECHNOLOGIES LLC**Inventor(s):** (std): SHAFFER ARIC DAVID ; PATTERSON JOSEPH ; MILLER RONALD HUGH ; MACNEILLE PERRY ROBINSON ; SHAFFER ARIC ; MILLER RONALD ; MACNEILLE PERRY ; JOSEPH PATTERSON ; RONALD MILLER ; PERRY MACNEILLE ; ARIC SHAFFER ; PERRY SHAFFER ARIC PATTERSON J**Inventor(s):** ARIC DAVID SHAFFER ; SHAFFER ARIC PATTERSON JOSEPH MILLER RONALD MACNEILLE PERRY ; SHAFFER ARIC PATTERSON JOSEPH MILLER RONALD...**Agent(s):** TUNG AND ASSOCIATES; DAVID**52) Family number: 71792599 (WO18203170A1)**

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Title: NEURAL NETWORK, POWER STORAGE SYSTEM, VEHICLE, AND ELECTRONIC DEVICE

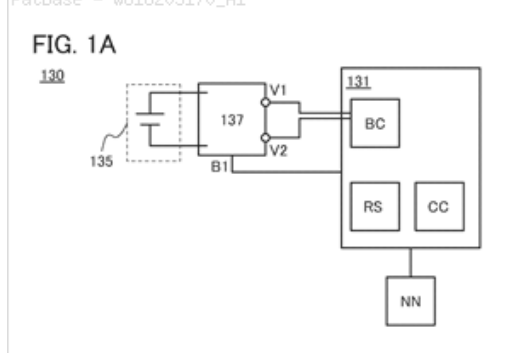
Abstract: A power storage system with excellent characteristics is provided. A power storage system with a high degree of safety is provided. A power storage system with less deterioration is provided. A storage battery with excellent characteristics is provided. The power storage system includes a neural network and a storage battery. The neural network includes an input layer, an output layer, and one or more hidden layers between the input layer and the output layer. The predetermined hidden layer is connected to the previous hidden layer or the previous input layer by a predetermined weight coefficient, and connected to the next hidden layer or the next output layer by a predetermined weight coefficient. In the storage battery, voltage and time at which the voltage is obtained are measured as one of sets of data. The sets of data measured at different times are input to the input layer and the operational condition of the storage battery is changed in accordance with a signal output from the output layer.

Classifications:

International (IPC 8-9): G01R31/36 G06N3/02 G06N3/04 G06N3/063 H01L21/8234 H01L21/8242 H01L27/06 H01L27/088 H01L27/108 H01L29/786 H01M10/44 H01M10/48 H01M2/10 H02J7/00 H02J7/10 (Advanced/Invention)

CPC: H01M10/486 H02J7/00 H02J7/0013 H02J7/0019 H02J2007/005

PatBase - WO18203170_A1

**Family:**

Publication number	Publication date	Application number	Application date
JP2019023853 A2	20190214	JP20180086225	20180427
JP2019023995 A2	20190214	JP20180114340	20180615
TW201843904 A	20181216	TW20180114571	20180427
WO18203170 A1	20181108	WO20181852744	20180420

Priority:

JP20170092024 20170503 JP20170124077 20170626 JP20170151306 20170804
 JP20180086225 20180427 JP20180114340 20180615

Probable Assignee: SEMICONDUCTOR ENERGY LAB CO LTD**Assignee(s):** (std): SEMICONDUCTOR ENERGY LAB ; SEMICONDUCTOR ENERGY LAB CO LTD ; SEMICONDUCTOR ENERGY LABORATORY CO LTD

Assignee(s): SEMICONDUCTOR ENERGY LABORATORY CO

Inventor(s): (std): KURIKI KAZUTAKA ; TAJIMA RYOTA ; TOYOTAKA KOUHEI ; SHISHIDO HIDEAKI ; ISA TOSHIYUKI ; KURIKI KAZUKI ; TOYOTAKA KOHEI

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

53) Family number: 65974606 (BR102015027433A)

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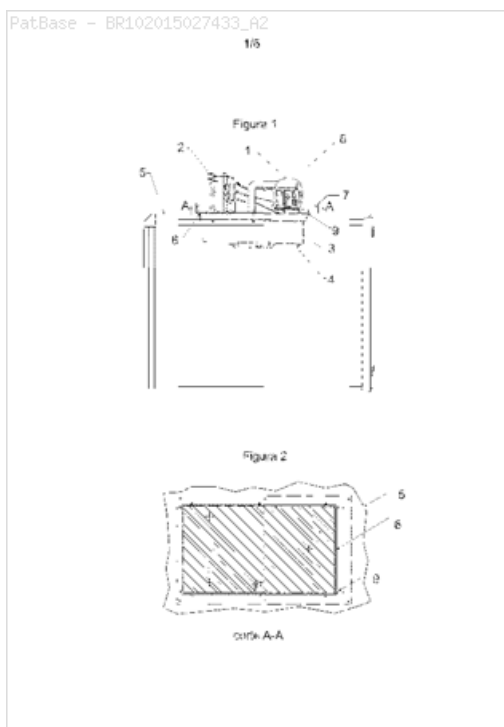
Title: UNIDADE INTERCAMBIÁVEL COM SISTEMA DE REFRIGERAÇÃO COMPLETO APLICADO EM CORRENTE CONTÍNUA E SISTEMA DE ACOPLAMENTO DA REFERIDA UNIDADE INTERCAMBIÁVEL EM CAMARAS Interchangeable unit with complete cooling system applied in continuous current and coupling system of the aforementioned interchangeable unit in Camaras (Machine translation)

Abstract: Source: BR102015027433A [PT] Resumo UNIDADE INTERCAMBIÁVEL COM SISTEMA DE REFRIGERAÇÃO COMPLETO APLICADO EM CORRENTE CONTÍNUA E SISTEMA DE ACOPLAMENTO DA REFERIDA UNIDADE INTERCAMBIÁVEL EM CAMARAS O pedido de patente em questão diz respeito a uma unidade intercambiável alimentada por fonte de alimentação mantida por bateria DC - estacionária e recarregável e/ou energia solar em 12, 24 e 48 VDC e seu sistema de acoplamento em camaras, cuja unidade (8) compreende um compressor hermetico (reciproco ou rotativo) - DC de velocidade variável (1), com subsistemas de condensação (2) e de evaporação (3) e um elemento de saída (4) drenagem em uma unidade de refrigeração intercambiável (8) para ser acoplada em camara móvel ou estacionária (5), provida de meios de conexão com a referida unidade (8). **Machine translation:** Summary interchangeable unit with complete cooling system applied in continuous current and coupling system of the aforementioned interchangeable unit in Camaras the patent application in the question refers to an interchangeable unit Alimentada per power supply maintained by DC-parking and rechargeable and/or solar power in 12, 24 and 48 VDC and its coupling system in Camaras, whose unit (8) comprises a hermetic compressor (reciprocal or rotary)-DC of Speed variable (1), with condensation subsystems (2) and evaporation (3) and an output element (4) drain on an interchangeable refrigeration unit (8) to be attached to a mobile chamber or parking (5), means of connection with the aforementioned unit (8).

Classifications:

International (IPC 8-9): F25B21/00 F25D11/00 (Advanced/Invention)

CPC: Y02B30/66



Family:

Publication number	Publication date	Application number	Application date
BR102015027433 A2	20170502	BR20151027433	20151029

Priority:

BR20151027433 20151029

Probable Assignee: TECUMSEH DO BRASIL LTDA

Assignee(s): (std): TECUMSEH DO BRASIL LTDA

Inventor(s): (std): SATOSHI TOKASHIKI

54) Family number: 46177615 (US2011269388A)

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Title: COOLING DEVICE

Abstract: A device for realizing a cooling effect in a space comprises: a housing with a heat-conducting wall, which housing bounds a chamber through which air can flow; an air inlet which connects to the chamber and to said place, -an air outlet connecting to the chamber; air transport means for transporting air from the air inlet via the chamber to the air outlet; and moistening means for moistening the inner surface of the wall; this such that air supplied by the air transport means is introduced into the chamber via the air inlet, passes along the moistened inner surface of the wall in the chamber and is discharged from the chamber via the air outlet, whereby the water present on the inner surface of the heat-conducting wall evaporates and is entrained by the air flowing by, and the wall is cooled.

Classifications:**International (IPC 8-9):** B60H1/32 B64D13/00

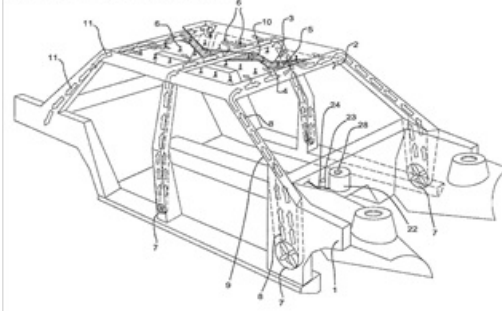
F24F5/00 (Advanced/Invention);

B60H1/00 (Advanced/Non-invention);

B60H1/32 F24F5/00 (Core/Invention)

CPC: F24F5/0035 B60H1/3202 B60H2001/00235 F24F5/0089 F24F5/0092**European:** B60H1/32B F24F5/00C7 F24F5/00R F24F5/00R1 L60H1/00A3J Y02B30/54D**US:** 454/76 454/76P

PatBase - US2011269388_AA

**Family:**

Publication number	Publication date	Application number	Application date
EP2379949 A2	20111026	EP20100701571	20100118
NL2004107 A1	20100720	NL20102004107	20100118
NL2004107 C	20101110	NL20102004107	20100118
NL2004107 C2	20101110	NL20102004107	20100118
US2011269388 AA	20111103	US20100144573	20100118
US9829207 BB	20171128	US20100144573	20100118
WO10082828 A2	20100722	WO2010NL50025	20100118
WO10082828 A3	20101007	WO2010NL50025	20100118

Priority:

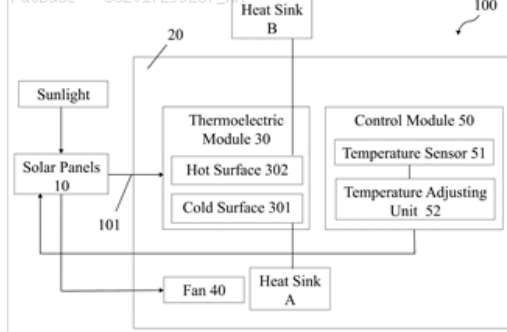
NL20092002424 20090118 NL20102004107 20100118 WO2010NL50025 20100118

Probable Assignee: LUX ET LIBERTAS BV**Assignee(s):** (std): LUX ET LIBERTAS B V ; LUX ET LIBERTAS BV ; MEULENBELT MATTHIJS DIRK**Inventor(s):** (std): MEULENBELT MATTHIJS DIRK**Inventor(s):** LUX ET LIBERTAS B V ; LUX ET LIBERTAS BV**Agent(s):** T JONG BASTIAAN JACOB; WEBB LAW FIRM; SCHUMANN BERNARD HERMAN JOHAN**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**55) Family number: 67232624 (US2017299237A)**

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Title: SOLAR-POWERED SYSTEM**Abstract:** A solar-powered system that can be used in a predetermined space includes a plurality of solar panels to convert the sunlight into electrical energy; a thermoelectric device electrically connected with the solar panels to provide a hot surface and a cold surface; and a control module to control the temperature in the predetermined space. The solar-powered system is configured to cool down or heat up the temperature in the predetermined space. In one embodiment, the thermoelectric module is a Peltier device.**Classifications:****International (IPC 8-9):** F25B21/04 F25B27/00 H01L35/30 H02S40/42 H02S40/44 (Advanced/Invention)**CPC:** H02S40/425 H02S40/44 F25B21/02 H01L35/30

PatBase - US2017299237_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2017299237 AA	20171019	US20170402948	20170110

Priority:

US20160323707P 20160417 US20170402948 20170110

Probable Assignee: HUANG ANDREW XIANYI**Assignee(s):** (std): HUANG ANDREW XIANYI**Inventor(s):** (std): HUANG ANDREW XIANYI**56) Family number: 28440634 (US2004237541A)**

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Title: NON-MECHANICAL BLOWER

Abstract: The present invention relates to a non-mechanical blower for use in heating the interior of a motor vehicle, and more particularly, to the use of thermoelectric devices used in tandem to replace conventional electromechanical blower devices.

Classifications:

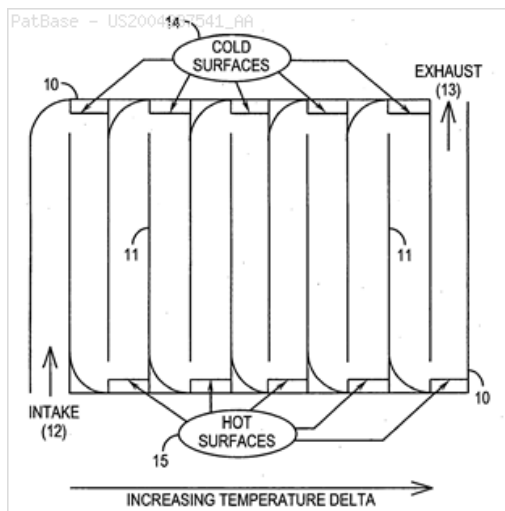
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International (IPC 1-7): B60H1/00 B60H3/00 F04D33/00 F04F11/00 F24F1/00 F25B21/02 F25B25/02

CPC: B60H1/00457 F04D33/00 F04F99/00 F24F5/0042

European: B60H1/00K F04D33/00 F04F99/00 F24F5/00D

US: 62/3.61 62/3.610P 62/3.7 62/3.700S



Family:

Publication number	Publication date	Application number	Application date
AU2002334609 AA	20030407	AU20020334609	20020919
EP1438537 A2	20040721	EP20020799597	20020919
EP1438537 A4	20050413	EP20020799597	20020919
US2004237541 AA	20041202	US20040806069	20040322
WO03027575 A2	20030403	WO2002US29820	20020919
WO03027575 A3	20040304	WO2002US29820	20020919

Priority:

US20010323855P 20010921

WO2002US29820 20020919

US20040806069 20040322

Probable Assignee: COLLINS AND AIKMAN AUTOMOTIVE CO INC

Assignee(s): (std): COLLINS AND AIKMAN AUTOMOTIVE ; COLLINS AND AIKMAN AUTOMOTIVE CO ; MURPHY JAMES J

Assignee(s): COLLINS AND AIKMAN AUTOMOTIVE CO INC ; COLLINS AND AIKMAN AUTOMOTIVE COMPANY INC

Inventor(s): (std): MURPHY JAMES J

Inventor(s): JAMES J MURPHY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

57) Family number: 14738640 (US6080927A)

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Title: SOLAR CONCENTRATOR FOR HEAT AND ELECTRICITY

Abstract: PCT No. PCT/NZ95/00084 Sec. 371 Date Feb. 28, 1997 Sec. 102(e) Date Feb. 28, 1997 PCT Filed Sep. 14, 1995 PCT Pub. No. WO96/08683 PCT Pub. Date Mar. 21, 1996A solar concentrator for producing usable power as heat and/or electricity uses a self-steering heliostat 1502 to concentrate solar radiation 1509 onto an absorbing surface such as, or including, a solar cell array 1511 capable of absorbing power from the radiation, meanwhile removing heat (such as from long-wave infra-red radiation or resistive losses) from the surface with fluid heat transfer means 1503, 1504, then making effective use of that low-grade heat. Thus the solar cell array is kept relatively cool and a larger proportion of the solar energy incident on the reflector unit is used. The invention uses electricity 1506 from the solar cells to move a transporting fluid through a heat exchanger 1504. Excess electricity may be available for local storage or use 1510, or feeding 1512 to the power distribution grid. Applications include warming swimming pools 1501, heating hot-water supplies using excess electricity, or warming, lighting and ventilating open spaces.

Classifications:

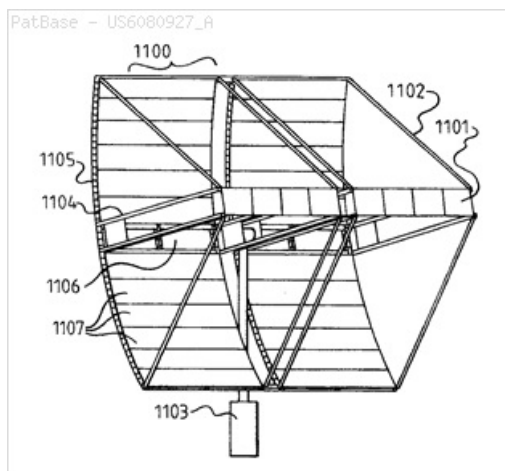
International (IPC 8-9): F03G6/06 F24J2/07 F24J2/10 F24J2/12 F24J2/24 F24J2/30 F24J2/54 H01L31/024 H01L31/052 H01L31/054 H01L31/058 H02S40/44 (Advanced/Invention); F03G6/00 F24J2/00 F24J2/04 F24J2/06 H01L31/024 H01L31/052 H01L31/058 (Core/Invention)

International (IPC 1-7): F03G6/06 F24J2/10 F24J2/24 F24J2/30 H01L31/024 H01L31/052 H01L31/058

CPC: Y02E10/41 Y02E10/42 Y02E10/46 Y02E10/47 Y02E10/52 Y02E10/60 H01L31/0547 H01L31/0521 F24S20/20 F24S23/71 F24S23/80 F24S30/40 H02S40/44

European: F24J2/07 F24J2/10B F24J2/12 F24J2/54 H01L31/052 H01L31/052B H01L31/058 Y02E10/41 Y02E10/42 Y02E10/46 Y02E10/47 Y02E10/52 Y02E10/60

US: 126/562 126/573 126/615 126/643 126/646 126/657 126/663 126/684 126/696 136/246 136/248 310/67R 60/531 60/641.11 60/641.15



Family:

Publication number	Publication date	Application number	Application date
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AU199534873 A1	19960329	AU19950034873	19950914
AU706605 B2	19990617	AU19950034873	19950914
NZ292641 A	19971219	NZ19950292641	19950914
US6080927 A	20000627	US19970793440	19970228
WO9608683 A1	19960321	WO1995NZ00084	19950914

Priority:

NZ19940264460 19940915 NZ19950292641 19950914 WO1995NZ00084 19950914

Probable Assignee: JOHNSON COLIN FRANCIS

Assignee(s): (std): COLIN FRANCIS JOHNSON ; JOHNSON COLIN FRANCIS

Inventor(s): (std): JOHNSON COLIN FRANCIS

Inventor(s): COLIN FRANCIS JOHNSON

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD

Designated states: AM AT AU BB BE BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

58) Family number: 65808643 (EP3173702A1)

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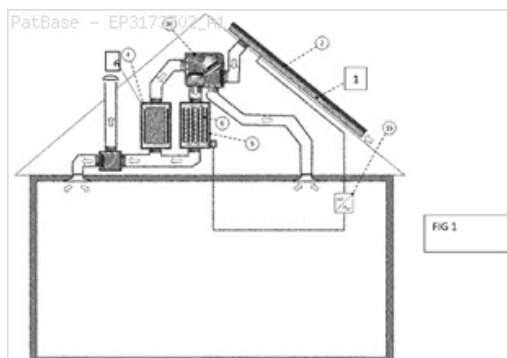
Title: METHOD FOR OPERATING A PHOTOVOLTAIC FACILITY AND PHOTOVOLTAIC FACILITY PROCEDE D'EXPLOITATION D'UNE INSTALLATION DE PANNEAUX PHOTOVOLTAIQUES

Abstract: Source: EP3173702A1 [FR] L'invention a pour objet une installation comprenant: - des panneaux (2) photovoltaïques produisant du courant électrique et de la chaleur, -des moyens (30) de distribution de l'air chauffe par les panneaux photovoltaïques et - des moyens (4,5) pour stocker de l'énergie produite par les panneaux photovoltaïques, cette installation étant caractérisée en ce qu'elle comprend: - des premiers moyens (4) de stockage de la chaleur alimentés exclusivement par un flux d'air provenant des panneaux photovoltaïques et -des seconds moyens (5) de stockage d'énergie électrique sous forme thermique distinct des premiers moyens opérant à une température différente des premiers moyens de stockage, ces seconds moyens de stockage comprenant un équipement électrique pour transformer le courant électrique produit par les panneaux photovoltaïques en énergie thermique. **Machine translation:** The purpose of the invention is an installation comprising:-Panels (2) photovoltaic producing electric current and heat,-means (30) of distribution of air heats by the panels photovoltaic and-means (4.5) to store energy produced by the panels photovoltaic, this installation is characterized in that it includes:-The first means (4) of storage of the heat exclusively supplied by a flow of air from the photovoltaic panels and-the second means (5) of storage of electric energy In separate thermal form of the first means of operation at a different temperature from the first means of storage, these second means of storage including an electrical equipment to transform the electric current produced by the panels photovoltaic in thermal energy.

Classifications:

International (IPC 8-9): F24D11/00 F24D5/00 F24F5/00 F24H7/04 F24J2/00 F24S20/00 F25B21/02 F28D20/02 (Advanced/Invention)

CPC: F24D5/005 F24D11/007 F24D2200/02 F24D2200/08 F24D2220/10 F24H7/0416 F24H2250/06 F28D20/02 F24F5/0096 F24F2005/0067 Y02B10/20 Y02E60/145 F28D2020/0008 F24S10/50 F24S60/00 F24S2080/05 F28D20/021 Y02E10/44 Y02E70/30 H02S40/44



Family:

Publication number	Publication date	Application number	Application date
EP3173702 A1	20170531	EP20160198649	20161114
FR3044076 A1	20170526	FR20150061113	20151119
FR3044077 A1	20170526	FR20150061114	20151119

Priority:

FR20150061113 20151119 FR20150061114 20151119

Probable Assignee: SYSTOVI

Assignee(s): (std): SYSTOVI

Inventor(s): (std): BENABDELKARIM MOHAMED ; JANOT PASCAL

Inventor(s): MOHAMED BENABDELKARIM ; PASCAL JANOT

Agent(s): TOURNEL JEAN LOUIS; CABINET DAVID TOURNEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

59) Family number: 31576666 (US2008186205A)

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Title: WIRELESS SENSING AND COMMUNICATIONS SYSTEM OF ROADWAYS

Abstract: Driving condition monitoring system for a vehicle on a roadway includes stationary mounting structures arranged proximate the roadway, and sensors located in the mounting structures in a vicinity of the roadway and apart from the roadway. The sensors generate information about the roadway or an environment around the roadway. An arrangement on the vehicle or associated with the sensors initiates a transmission of the information generated by each sensor to the vehicle when the vehicle is proximate the sensor.

Classifications:

International (IPC 8-9): B60C23/02 B65D25/00 G01C21/26 G01C21/34 G01C21/36 G01F23/28 G01F23/296 G01M17/02

G01S21/26 G05D1/02 G05D13/02 G05D27/00 G06F17/30 G06F19/00
G06K9/00 G08G1/00 G08G1/048 G08G1/0967 G08G1/137
G08G1/16 (Advanced/Invention);
B60C23/02 B65D25/00 G01C21/26 G01F23/296 G01M17/02
G05D13/00 G05D27/00 G06F17/30 G06F19/00 G06K9/00 G08C15/00
G08G1/00 G08G1/048 G08G1/123 H01F10/00 H01L43/08 H04B7/15
H04B7/26 H04L12/28 H04L12/56 (Core/Invention)

CPC: B60N2002/0272 B60C11/246 B60C19/00 B60C23/007
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S11B5/39C1H2 S11B5/39W

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Family:

Publication number	Publication date	Application number	Application date
US2008186205 AA	20080807	US20080062099	20080403
US2008215202 AA	20080904	US20080061916	20080403
US2008215231 AA	20080904	US20080059456	20080331
US2008216567 AA	20080911	US20070928763	20071030
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Priority:

US19950476077	19950607	US19950550217	19951030	US19950571247	19951212
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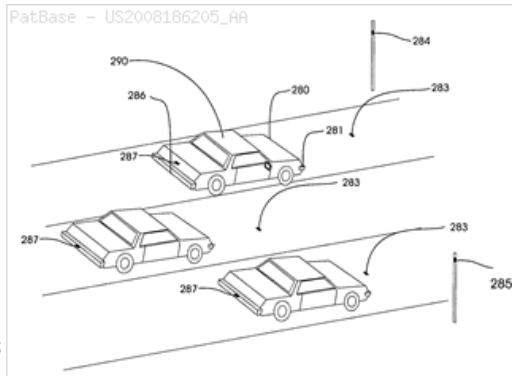
Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): AMERICAN VEHICULAR SCIENCES LLC ; AUTOMOTIVE TECH INT ; INTELLIGENT TECH INT INC ; BREED DAVID S

Assignee(s): ALPS ELECTRIC CO ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; FUJITSU LIMITED ; INTELLIGENT TECHNOLOGIES INT INC ; INTELLIGENT TECHNOLOGIES INT ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC

Inventor(s): (std): BREED DAVID S ; JOHNSON WENDELL C ; DUVALL WILBUR E

Agent(s): BRIAN ROFFE ESQ; BRIAN; MCANDREWS HELD AND MALLOY LTD



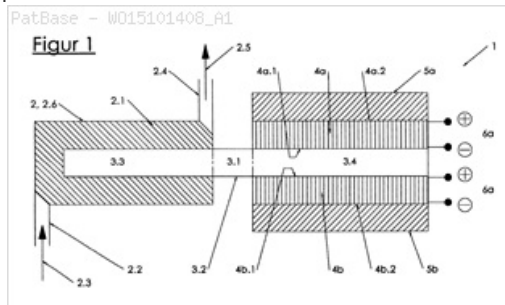
Title: DEVICE AND METHOD FOR DIRECTLY CONVERTING THERMAL ENERGY INTO ELECTRICAL ENERGY

Abstract: The invention relates to a device (1) according to figure 1 for directly converting thermal energy into electrical energy, comprising a device (2) for flameless catalytic oxidation of hydrocarbons, a heat pipe (3), a thermoelectric element (4), which is connected to an electrical connection (6), and a heat sink (5), wherein the region (3.3) of the heat pipe (3) that absorbs thermal energy is in thermally conductive, electrically insulating contact with the device (2), and the region (3.4) of said heat pipe that emits thermal energy is in thermally conductive, electrically insulating contact with the hot side (4.1) of the thermoelectric element (4), and wherein the cold side (4.2), which is opposite the hot side (4.1), of the thermoelectric element (4) is in thermally conductive, electrically insulating contact with the heat sink (5). The invention further relates to a method for generating electrical energy directly from thermal energy.

Classifications:

International (IPC 8-9): F01N3/28 F01N5/02 F23C10/01 F23C13/08 F28D15/00 F28D15/02 H01L35/02 H01L35/30 H02N11/00 (Advanced/Invention)

CPC: F28D15/0275 F23C10/01 F23C13/08 F23M2900/13002 F23M2900/13003 H01L35/30 Y02E20/342



Family:

Publication number	Publication date	Application number	Application date
DE102013022190 A1	20150702	DE201310022190	20131231
WO15101408 A1	20150709	WO2014EP03452	20141220

Priority:

DE201310022190 20131231

Probable Assignee: REILING DAAN

Assignee(s): (std): REILING DAAN ; SIEBELDER ORTWIN GERRIT ; SLIJKHUIS ADDO

Inventor(s): (std): SLIJKHUIS ADDO ; SIEBELDER ORTWIN GERRIT ; REILING DAAN

Agent(s): MUENCH VOLKER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD AND APPARATUS FOR THERMAL CONTROL ON LEAD ACID BATTERY

Abstract: Manages the temperature of the battery so as to keep the batteries in optimum working conditions to prevent the deterioration of the battery life due to temperature by way of using peltier (thermo electric) cooling or heating. This cooling or heating is provided directly to the battery plates through the battery terminal eliminating the need of cooling the whole battery through the battery cabinet which is far less thermally conductive than the terminals. The device will operate automatically based on the temperature requirement preferably through solar power or grid power in absence of solar power if required. The device shall operate to minimize human intervention and keep the battery temperature at optimum level to maximize the battery life and overall performance.

Classifications:

International (IPC 8-9): B60K11/00 H02J7/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201621018926 A	20160715	IN201621018926	20160602

Priority:

IN201621018926 20160602

Probable Assignee: SUNEET HASMUKHLAL DOSHI

Assignee(s): SUNEET HASMUKHLAL DOSHI

Inventor(s): SUNEET HASMUKHLAL DOSHI

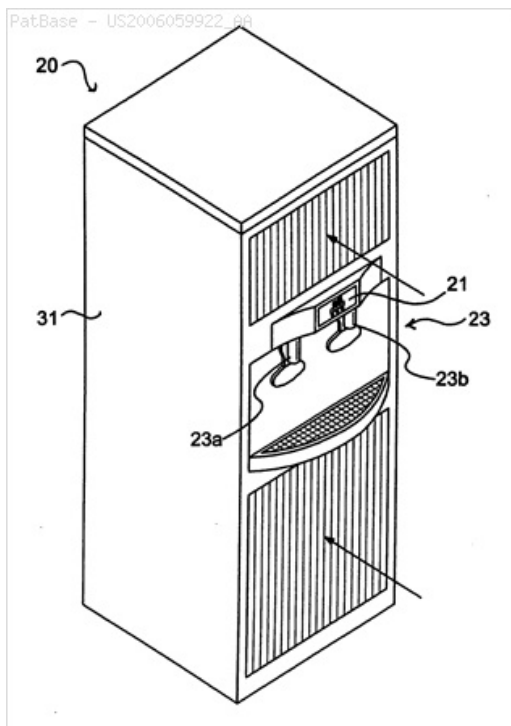
Title: WATER PRODUCING METHOD AND APPARATUS

Abstract: A water producing system adapted to condense water from the air and collected in a storage tank where the water is purified and bacteria is killed. One form of killing the bacteria is utilizing an ozone injection system with a filter system to remove the ozone before the water is dispensed. In one form, a dual fluid circuit is utilized where an operating fluid dumps heat to a second circuit such as a refrigeration cycle and the cooled operating fluid lowers the temperature of a water condensation member.

Classifications:

International (IPC 8-9): B67D5/62 B67D7/80 F25B21/00 F25D11/00 F25D17/04 F25D17/06 F25D21/00 (Advanced/Invention);

B67D7/80 F25D11/00 F25D17/04 F25D17/06 (Advanced/Non-invention);
B67D7/80 F25B21/00 F25D17/00 (Core/Invention)
International (IPC 1-7): F25D17/06
CPC: Y02B30/52 C02F9/005 B01D5/0039 B01D5/0072 B01D5/0084
B01D5/009 C02F1/04 C02F1/283 C02F1/32 C02F1/444 C02F1/78
C02F9/00 C02F2209/02 Y02W10/37
European: B01D5/00F12 B01D5/00H14 B01D5/00K12 B01D5/00K16
C02F9/00B M02F1/04 M02F1/28D M02F1/32 M02F1/44D M02F1/78
M02F209/02 M02F9/00 Y02B30/12B
US: 202/158 202/158S 62/272 62/3.4 62/3.400P 62/317 62/317S
62/389 62/389S 62/92 62/93 62/93P



Family:

Publication number	Publication date	Application number	Application date
AU2005282371 AA	20060316	AU20050282371	20050906
AU2005282371 BB	20110512	AU20050282371	20050906
BRPI0514848 A	20080624	BR2005PI14848	20050906
CA2580623 AA	20070307	CA20052580623	20050906
CN101084405 A	20071205	CN200580037832	20050906
EP1794517 A2	20070613	EP20050806635	20050906
EP1794517 A4	20110518	EP20050806635	20050906
IN00314MN2007 A	20070713	IN2007MN00314	20070302
IN239424 B	20100326	IN2007MN00314	20070302
KR20070047366 A	20070504	KR20077007084	20070328
MX2007002621 A1	20070507	MX20070002621	20050906
US2006059922 AA	20060323	US20050221075	20050906
US2008022694 AA	20080131	US20070833491	20070803
US7272947 BB	20070925	US20050221075	20050906
US7886557 BB	20110215	US20070833491	20070803
WO06029249 A2	20060316	WO2005US31948	20050906
WO06029249 A3	20070503	WO2005US31948	20050906

Priority:

US20040607369 20040903 US20040607369P 20040903 US20050211075 20050906
US20050221075 20050906 WO2005US31948 20050906 US20070833491 20070803

Probable Assignee: AWG INT INC

Assignee(s): (std): WHITE KEITH ; WHITE KEITH R ; EVEREST INTERNATIONAL LTD ; EVEREST INT LTD ; EVEREST
INTERNAT LTD ; EVEREST WATER LTD ; ANDERSON RAE ; ANDERSON RAE RAY ; ANDERSON RAE T

Assignee(s): AWG INT INC ; AMBIENT WATER INC ; EVEREST INT ; AWG INTERNATIONAL INC ; DMPG LLC

Inventor(s): (std): ANDERSON RAE RAY ; WHITE KEITH ; ANDERSON RAE T ; WHITE KEITH R ; ANDERSON RAE ;
ANDERSON RAE RAY T

Inventor(s): RAE ; RAE RAY ANDERSON ; KEITH WHITE ; RAE ANDERSON

Agent(s): GRIFFITH HACK; PHILLIPS ORMONDE FITZPATRICK; UREN JOHN RUSSELL; HUGHES LAW FIRM PLLC;
MICHAEL F

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ
DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE
KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO
NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US
UZ VC VN YU ZA ZM ZW

63) Family number: 65338692 (US2018274806A)

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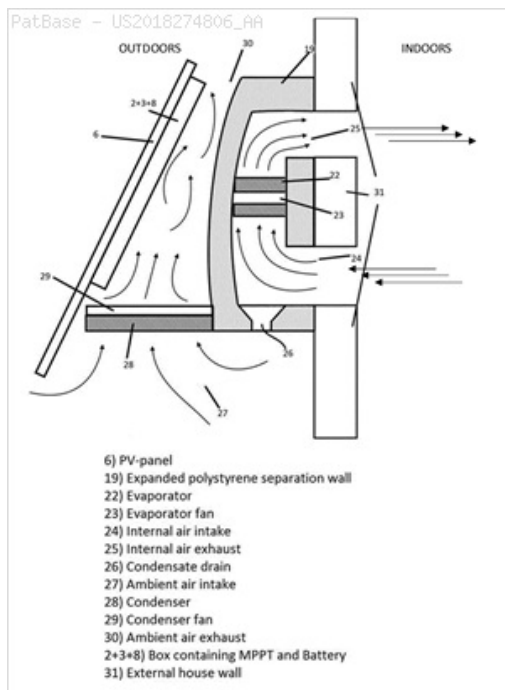
Title: SOLAR AIRCOOLER

Abstract: The present invention relates to a compact, fully integrated solar powered airconditioning (A/C) device for
recycling and cooling the air inside buildings, which device comprises a photovoltaic (PV) solar cell, a Maximum Power Point
Tracking (MPPT) Charge Controller, a battery unit and a vapor compression air cooling device.

Classifications:

International (IPC 8-9): F24F5/00 H02J3/38 H02S20/22 H02S30/10
H02S40/34 H02S40/38 H02S40/42 (Advanced/Invention)

CPC: H02S40/425 Y02B10/24 H02S20/26 H02S40/30 Y02A30/272
Y02B10/10 F24F5/0046 H02S20/22 H02S30/10 F16M1/00 H02S40/38
H02S40/42 H02J3/385 H02S40/34 F24F5/001 F24F2005/0067
Y02B10/14 Y02B10/20



Family:

Publication number	Publication date	Application number	Application date
CN108431512 A	20180821	CN201680064389	20160921
EP3150932 A1	20170405	EP20150187555	20150930
EP3356740 A1	20180808	EP20160779007	20160921
IN201827012962 A	20181116	IN201827012962	20180405
US2018274806 AA	20180927	US20160765009	20160921
WO17055148 A1	20170406	WO2016EP72360	20160921

Priority:

EP20150187555 20150930 WO2016EP72360 20160921

Probable Assignee: ARNDT PAUL RIIS

Assignee(s): (std): ARNDT PAUL RIIS

Inventor(s): (std): ARNDT PAUL RIIS

Agent(s): AWAPATENT A S; AWA DENMARK A S

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT HW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

64) Family number: 70711700 (WO18145852A1)

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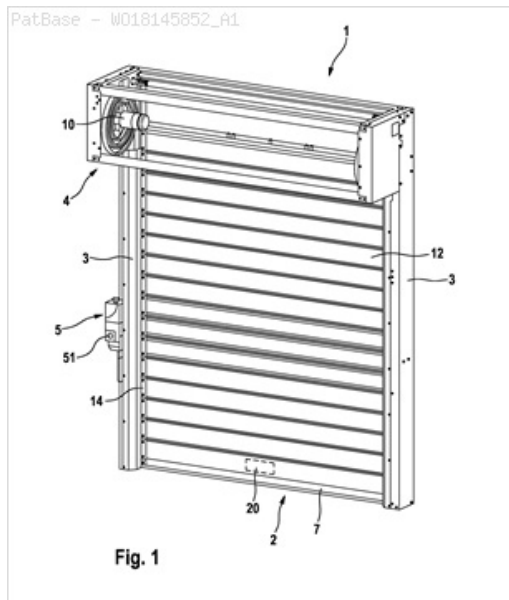
Title: DOOR WITH AN INTELLIGENT DOOR LEAF WHICH HAS AN ELECTRICALLY AUTONOMOUS DOOR LEAF DEVICE, AND METHOD FOR SAME

Abstract: The invention relates to a door (1), in particular a high-speed industry door, comprising an intelligent door leaf (2). The door has a door leaf which is guided in lateral guides (3) and covers a door opening and which has a first and a second face. The door also has a drive device (4) for moving the door leaf between an open and a closed position, a door controller (5) for actuating the drive device, and an electrically autonomous door leaf device (20) which is arranged in the door leaf. The door controller additionally has a first communication unit. The door leaf device also has at least one sensor unit for detecting at least one physical variable, an energy converter which converts non-electric energy into electric energy, a second communication unit, and at least one actuator unit, said first and second communication unit communicating with each other wirelessly.

Classifications:

International (IPC 8-9): E05F15/77 E06B9/13 E06B9/68 E06B9/88 (Advanced/Invention)

CPC: E06B9/13 E05F15/77 E06B2009/6836 E06B2009/6845 E05Y2400/66



Family:

Publication number	Publication date	Application number	Application date
DE102017102599 A1	20180809	DE201710102599	20170209
WO18145852 A1	20180816	WO2018EP50683	20180111

Priority:

DE201710102599 20170209

Probable Assignee: EFAFLEX TOR U SICHERHEITSSYSTEME GMBH AND CO KG

Assignee(s): (std): EFAFLEX TOR U SICHERHEITSSYSTEME GMBH AND CO KG

Inventor(s): (std): EICHSTETTER KARL

Agent(s): KUHNEN AND WACKER PATENT U RECHTSANWALTSBUERO PARTG MBB

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

65) Family number: 73433714 (WO19043446A1)

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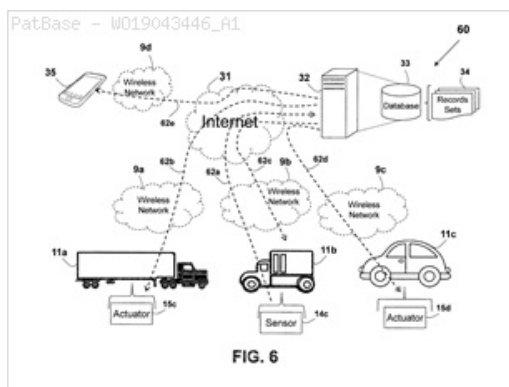
Title: A METHOD AND APPARATUS FOR COLLECTING AND USING SENSOR DATA FROM A VEHICLE

Abstract: A road hazard, such as a traffic collision, traffic regulation violation, road surface damage, or any other traffic obstruction, is detected by a sensor in a vehicle. The sensor data is sent periodically, or upon detecting the anomaly, to a server over the Internet via a first wireless network, together with a vehicle identifier (Vehicle Identification Number (VIN) or the license plate number) and its GNSS or GPS geographic location. The server analyzes the sensor data, and in response sends a notification message to a client device, such as a smartphone, or to a group of vehicles in close vicinity to the first vehicle, via a wireless network over the Internet. The received message may be used by each of the vehicles in the group for controlling, limiting, activating, or otherwise affecting an actuator operation, or may be used for notifying the driver using a dashboard display.

Classifications:

International (IPC 8-9): G08G1/00 G08G1/16 (Advanced/Invention)

CPC: G05D1/0287 G07C5/008 G08G1/164 G08G1/205



Family:

Publication number	Publication date	Application number	Application date
WO19043446 A1	20190307	WO2018IB00804	20180725

Priority:

US20170553936P 20170904

Probable Assignee: NNG SOFTWARE DEV AND COMMERCIAL LLC

Assignee(s): (std): NNG SOFTWARE DEV AND COMMERCIAL LLC

Assignee(s): NNG SOFTWARE DEVELOPING AND COMMERCIAL LLC

Inventor(s): (std): KERECSEN TAMAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

66) Family number: 55321718 (US2013327077A)

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Title: OPTIMUM USE OF SOLAR ELECTRICITY

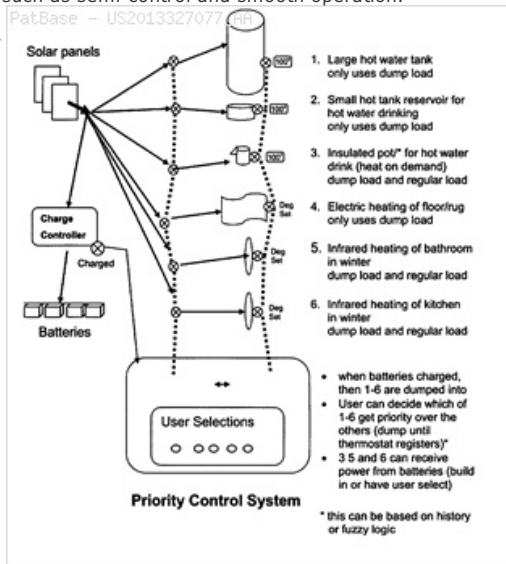
Abstract: Solar electric energy is optimally used by varying one or more connected loads to achieve a maximum output power voltage. Entire appliances may be switched on or off, or modulated, as in the case for example of a heat pump compressor circuit or electric water heater. Variations of this theme are used to prioritize appliance usage for overall improved convenience and efficiency. Solar electric appliances such as refrigerators, freezers, air dryers and water pumps are described. This and other electric sources may be used to power electric garden tools. Electric distribution tools and methods are described as well as electric garden tillers with features such as semi-control and smooth operation.

Classifications:

International (IPC 8-9): F25B27/00 G05F1/67 H01M10/42 H01M10/44 H02J1/00 H02J7/35 (Advanced/Invention); H02J7/35 (Advanced/Non-invention)

CPC: H02J1/00 F25B27/005 H02J7/35 Y10T307/352

US: 1/1 136/244 307/24 62/324.1



Family:

Publication number	Publication date	Application number	Application date
JP2013242866 A2	20131205	JP20130094796	20130427
JP6266896 B2	20180124	JP20130094796	20130427
US2013327077 AA	20131212	US20130869945	20130424
US9455572 BB	20160927	US20130869945	20130424

Priority:

US20120639144P 20120427 US20130869945 20130424

Probable Assignee: MOTSENBOCKER MARVIN A

Assignee(s): (std): MOTSENBOCKER MARVIN ; MOTSENBOCKER MARVIN A

Inventor(s): (std): MOTSENBOCKER MARVIN A ; MOTSENBOCKER MARVIN

67) Family number: 48342743 (US2011043165A)

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Title: METHOD FOR CHARGING A PLUG-IN ELECTRIC VEHICLE

Abstract: A system and method for charging a plug-in electric vehicle with an external power source, even when the overall power requested by the plug-in electric vehicle exceeds the overall power available from the external power source. In an exemplary embodiment, a method determines the overall power requested by one or more vehicle systems, and then compares that to the overall available power from the external power source. If the overall requested power exceeds the overall available power, then the power from the external power source is allocated or apportioned to the different vehicle systems according to an allocation process that may consider factors like predetermined priorities and current vehicle conditions.

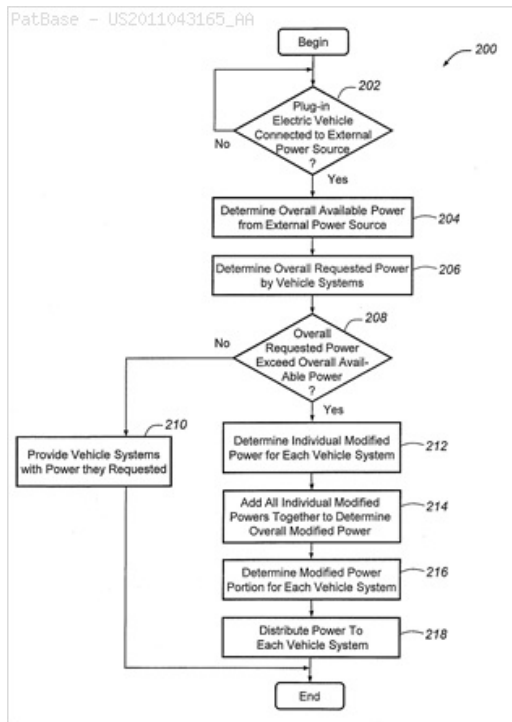
Classifications:

International (IPC 8-9): B60L11/18 H02J7/00 (Advanced/Invention); B60W10/24 H02J3/14 (Advanced/Non-invention)

CPC: Y02E60/721 Y02T10/7005 Y02T10/7066 Y02T10/7241 Y02T90/121 Y02T90/127 Y02T90/128 Y02T90/14 Y02T90/163 Y02T90/169 Y04S10/126 Y04S30/14 H02J7/042 B60L1/003 B60L1/04 B60L2210/30 B60L2240/34 B60L2240/525 B60L2240/545 Y10T307/414 Y02T10/7072 B60L53/00 B60L53/14 B60L53/63 B60L53/65 B60L58/20 B60L58/26

European: B60L1/00B B60L1/04 B60L11/18L4 B60L11/18L7J6 B60L11/18L7J8 B60L11/18M32 B60L11/18M34D H02J7/04C L60L210/30 L60L240/34 L60L240/525 L60L240/545

US: 180/65.1 180/65.100S 180/65.29 307/32 320/109 320/109P 903/907 903/907S

**Family:**

Publication number	Publication date	Application number	Application date
DE102010034105 A1	20110407	DE201010034105	20100812
US2011043165 AA	20110224	US20090544585	20090820
US8760115 BB	20140624	US20090544585	20090820

Priority:

US20090544585 20090820

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC**Assignee(s):** (std): KINSER CHRISTOPHER A ; ST JOHN DON K ; GM GLOBAL TECH OPERATIONS INC**Assignee(s):** GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; UAW RETIREE MEDICAL BENEFITS TRUST ; UNITED STATES DEPARTMENT OF TREASURY ; WILMINGTON TRUST CO**Inventor(s):** (std): ST JOHN DON K ; KINSER CHRISTOPHER A ; JOHN DON K ST**Agent(s):** GENERAL MOTORS C O REISING ETHINGTON PC CORP; REISING ETHINGTON PC; LIONEL D**68) Family number: 43461745** (DE102007061562A1)

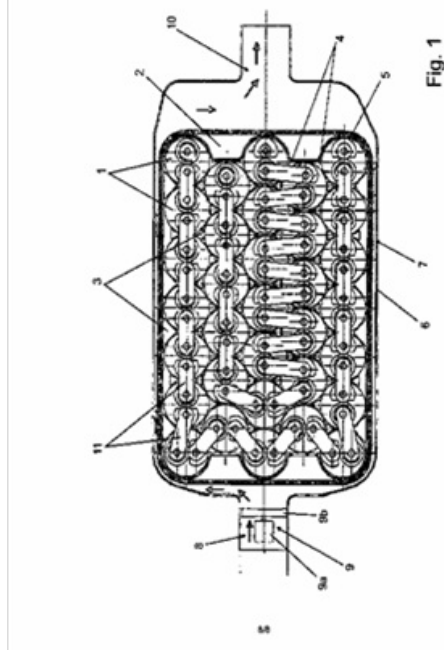
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Title: ELECTRICAL ENERGY STORAGE DEVICE E.G. DRIVE BATTERY, FOR MOTOR VEHICLE I.E. HYBRID VEHICLE, HAS BLOWER PROVIDED FOR AIR FLOW TO PARTS OF DEVICE, AND COOLING BODY I.E. EVAPORATOR, STAYING IN THERMAL CONTACT WITH STORAGE CELL**Abstract:** The device has a cooling body (2) i.e. evaporator, staying in thermal contact with a rechargeable storage cell (1) i.e. lithium-ion-battery, where the cooling body is passed for heat exchange of fluids. A blower (9) is provided for air flow to parts of the device. The blower is activated in a parked condition of a motor vehicle. A housing has a flushing channel (7) through which the air flow takes place. The channel is partially arranged between an outer wall (6) of the housing and a wall (5) of blocks of the storage cell arranged in the housing, where the walls exhibit thermal insulation. An independent claim is also included for a method for cooling an electrical energy storage device.**Classifications:****International (IPC 8-9):** B60R16/02 H01M10/50

H05K7/20 (Advanced/Invention);

B60R16/02 H01M10/42 H05K7/20 (Core/Invention)

CPC: H01M10/613 H01M10/625 H01M10/643 H01M10/6563 H01M10/6566**European:** H01M10/50C2 H01M10/50D4 H01M10/50H2 H01M10/50K12B4 H01M10/50K12B6 Y02E60/12

**Family:**

Publication number	Publication date	Application number	Application date
DE102007061562 A1	20090702	DE200710061562	20071218

Priority:

DE200710061562 20071218

Probable Assignee: BEHR GMBH AND CO KG**Assignee(s):** (std): BEHR GMBH AND CO KG ; DAIMLER AG**Inventor(s):** (std): ISERMEYER TOBIAS ; WARTHMAN WOLFGANG ; GREGOR MATTHIAS ; PFENDER CONRAD ; LAMM ARNOLD ; KAUFMANN RAINER ; SCHROETER DIRK ; MEINTSCHEL JENS ; DAMSOHN HERBERT**69) Family number: 56773758** (DE102013021773B4)

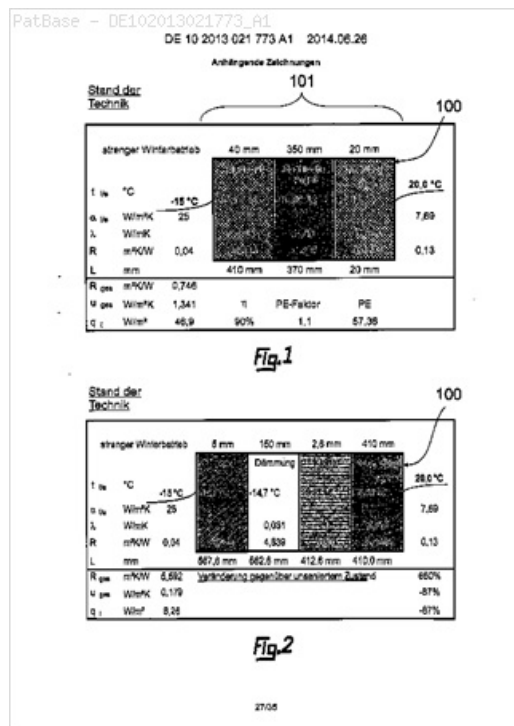
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Title: VERFAHREN UND VORRICHTUNG ZUM TEMPERIEREN EINES OBJEKTES GEGENUEBER SEINER UMGEBUNG

Abstract: Source: DE102013021773B4 [DE] Verfahren zur Senkung der einem Objekt (100) zuzufuehrenden Heiz- oder Kuehlenergie, mit folgenden Merkmalen:- zur Temperierung des Objektes (100) wird dieses moeglichst vollflaechig mit einer ersten thermischen Aktivierungsschicht (10), einer thermischen Daemmschicht (20) und einer zweiten thermischen Aktivierungsschicht (30) umgeben, so dass- im Heizfall, zur Temperierung des Inneren des Objektes (100) oberhalb der Umgebungstemperatur, die erste thermische Aktivierungsschicht (10) und die zweite thermische Aktivierungsschicht (30) thermisch interagieren, indem- bei positiver Temperaturdifferenz zwischen Objekt (100) und aeusserer Oberflaeche indirekt ueber eine Waermepumpe (40) zwischen der zweiten thermischen Aktivierungsschicht (30) auf der kalten Seite, und der ersten thermischen Aktivierungsschicht (10) auf der warmen Seite ein erforderlicher Waermestrom herbeigefuehrt wird, indem- durch Steuerung der warmen Seite der Waermepumpe (40) die erste thermische Aktivierungsschicht (10) in ihrer Temperatur- bei fehlenden zusaetzlichen Waermeverlusten oder -gewinnen vorzugsweise konstant auf der Temperatur ihrer nicht aktivierten Umgebung gehalten wird, so dass es zu keinem Waermestrom aus dem Objekt (100) kommen kann,- bei zusaetzlichen Waermeverlusten geringfuegig ueber der Temperatur ihrer nicht aktivierten Umgebung gehalten wird, so dass es zu einem erforderlichen Waermestrom in das Objekt (100) kommt,- bei zusaetzlichen Waermegewinnen geringfuegig unter der Temperatur ihrer nicht aktivierten Umgebung gehalten wird, so dass es zu einem erforderlichen Waermestrom aus dem Objekt (100) kommt,- durch Steuerung der kalten Seite der Waermepumpe (40) die zweite thermische Aktivierungsschicht (30) in ihrer Temperatur- bei fehlenden zusaetzlichen Waermeverlusten oder Waermegewinnen permanent an die Temperatur ihrer nicht aktivierten Umgebung angepasst wird, so dass es zu keinem Waermestrom aus dem Objekt (100) kommen kann,- fuer zusaetzliche Waermegewinne geringfuegig unter der Temperatur ihrer nicht aktivierten Umgebung, ueber oder unter der Umgebungstemperatur gehalten wird, so dass es bilanziell zu einem erforderlichen Waermestrom in das Objekt (100) kommt,- bei negativer Temperaturdifferenz zwischen Objekt (100) und aeusserer Oberflaeche fuer zusaetzliche Waermegewinne durch direkte thermische Interaktion zwischen der zweiten thermischen Aktivierungsschicht (30) und der ersten thermischen Aktivierungsschicht (10) ein erforderlicher Waermestrom in das Objekt (100) herbeigefuehrt wird,- fuer den Kuehlfall, zur Temperierung des Inneren des Objektes (100) unterhalb der Umgebungstemperatur, die erste thermische Aktivierungsschicht (10) und die zweite thermische Aktivierungsschicht (30) thermisch interagieren, indem- bei negativer Temperaturdifferenz zwischen Objekt (100) und aeusserer Oberflaeche indirekt ueber eine Waermepumpe (40) zwischen der ersten thermischen Aktivierungsschicht (10) auf der kalten Seite, und der zweiten thermischen Aktivierungsschicht (30) auf der warmen Seite ein erforderlicher Waermestrom herbeigefuehrt wird, indem- durch Steuerung der kalten Seite der Waermepumpe (40) die erste thermische Aktivierungsschicht (10) in ihrer Temperatur- bei fehlenden zusaetzlichen Waermeverlusten oder -gewinnen konstant auf der Temperatur ihrer nicht aktivierten Umgebung gehalten wird, so dass es zu keinem Waermestrom in das Objekt (100) kommen kann,- bei zusaetzlichen Waermeverlusten geringfuegig ueber der Temperatur ihrer nicht aktivierten Umgebung gehalten wird, so dass es zu einem erforderlichen Waermestrom in das Objekt (100) kommt,- bei zusaetzlichen Waermegewinnen geringfuegig unter der Temperatur ihrer nicht aktivierten Umgebung gehalten wird, so dass es zu einem erforderlichen Waermestrom aus dem Objekt (100) kommt,- durch Steuerung der warmen Seite der Waermepumpe (40) die zweite thermische Aktivierungsschicht (30) in ihrer Temperatur- mit und ohne zusaetzliche Waermegewinne geringfuegig ueber der Temperatur ihrer nicht aktivierten Umgebung, unter oder ueber der Umgebungstemperatur gehalten wird, so dass es zu einem erforderlichen Waermestrom aus dem Objekt (100) kommt,- bei zusaetzlichen Waermeverlusten geringfuegig unter der Temperatur ihrer nicht aktivierten Umgebung gehalten wird, so dass es zu einem erforderlichen Waermestrom in das Objekt (100) kommt,- bei positiver Temperaturdifferenz zwischen Objekt (100) und aeusserer Oberflaeche fuer zusaetzliche Waermeverluste durch direkte thermische Interaktion zwischen der ersten thermischen Aktivierungsschicht (10) und der zweiten thermischen Aktivierungsschicht (30) ein erforderlicher Waermestrom aus dem Objekt (100) herbeigefuehrt wird.

Classifications:

International (IPC 8-9): F24F5/00 F24J2/42
F24S90/00 (Advanced/Invention)
CPC: F24F2005/0082 Y02B10/20 E04B1/74 F24D3/147 F24D3/18
F24D19/1039 F24D2200/12 Y02E10/44 F24F5/001 F24S20/61
F24S20/66 F24S60/00 Y02B30/12 Y02B30/24



Family:

Publication number	Publication date	Application number	Application date
DE102013021773 A1	20140626	DE201310021773	20131221
DE102013021773 B4	20190529	DE201310021773	20131221

Priority:

DE201210025146 20121221 DE201310021773 20131221

Probable Assignee:

TRIESCH FRANK

Assignee(s): (std):

TRIESCH FRANK

Inventor(s): (std):

TRIESCH FRANK

70) Family number: 33121771 (US2006156738A)

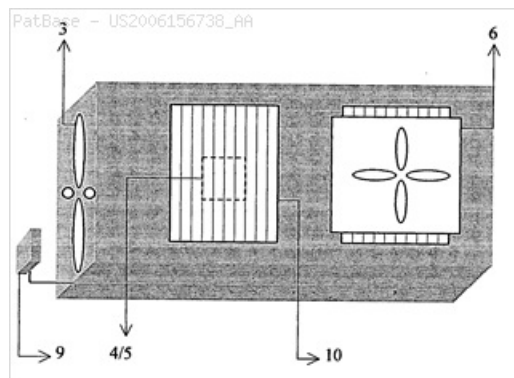
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Title: SOLAR-POWERED TEMPERATURE REGULATION SYSTEM FOR THE INTERIOR OF AN AUTOMOBILE/MOTOR VEHICLE

Abstract: A temperature regulation system, which can be used to cool the interior temperature of an automobile/motor vehicle, when it is parked under the sun, substantially below the external temperature, was designed and produced. The system was powered by solar cells, thus functioning without dissipating any energy from the vehicle's battery. The mechanical device of the system incorporated Peltier elements, heat sinks and fans, all controlled by a power supply in the form of a circuit board. When the automobile was switched on, the system could be further used as an automobile climate control unit, for heating or cooling, withdrawing the supplementary electricity from the battery, another feature controlled by the circuit board.

Classifications:

International (IPC 8-9): B60H1/32 B60R16/02 F25B21/02
F25B27/00 (Advanced/Invention);
B60H1/32 B60R16/02 F25B21/02 F25B27/00 (Core/Invention)
CPC: Y02T10/88 B60H1/00428 B60H1/00478
European: B60H1/00J1 B60H1/00L
US: 62/235.1 62/235.100 62/3.3 62/3.300 62/3.7 62/3.700



Family:

Publication number	Publication date	Application number	Application date
CA2492902 AA	20060714	CA20052492902	20050114
US2006156738 AA	20060720	US20060335924	20060106

Priority:

CA20052492902 20050114

Probable Assignee:

KHALIL MAGED

Assignee(s): (std):

KHALIL MAGED

Assignee(s):

MAERZ JOHANN

Inventor(s): (std):

KHALIL MAGED ; MAERZ JOHANN

71) Family number: 52068782 (US2012252676A)

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Title: EXTREMELY LOW RESISTANCE COMPOSITIONS AND METHODS FOR CREATING SAME

Abstract: The invention pertains to creating new extremely low resistance (ELR) materials, which may include high temperature superconducting (HTS) materials. In some implementations of the invention, an ELR material may be modified by depositing a layer of modifying material unto the ELR material to form a modified ELR material. The modified ELR material has improved operational characteristics over the ELR material alone. Such operational characteristics may include operating at increased temperatures or carrying additional electrical charge or other operational characteristics. In some implementations of the invention, the ELR material is a cuprate-perovskite, such as, but not limited to BSSCO. In some implementations of the invention, the modifying material is a conductive material that bonds easily to oxygen, such as, but not limited to, chromium.

Classifications:

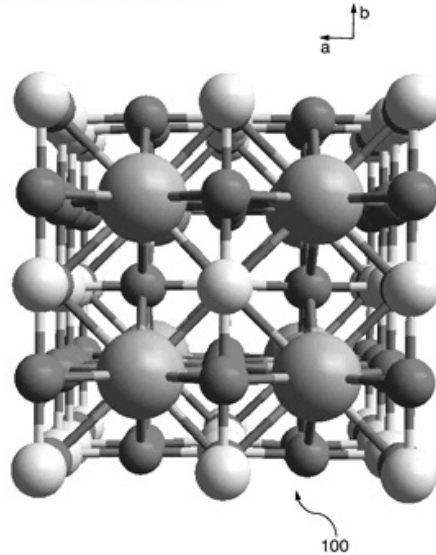
International (IPC 8-9): C04B35/45 F16C32/04 G01B7/16 G01D5/16 G01F1/34 G01F1/69 G01F23/22 G01H11/06 G01J1/42 G01K7/00 G01K7/16 G01L1/18 G01L21/12 G01L9/06 G01L9/14 G01N27/12 G01N27/22 G01N27/414 G01P15/08 G01P15/09 G01R33/035 G01R33/28 H01B12/00 H01B12/02 H01F36/00 H01F6/00 H01F6/06 H01L H01L21/822 H01L27/04 H01L39/00 H01L39/02 H01L39/12 H01L39/14 H01L39/16 H01L39/22 H01L39/24 H01M2/20 H02K3/02 H02K55/00 (Advanced/Invention); G01K G01L G01R H01L (Subclass/Invention)

CPC: G01K7/006 G01R33/0354 H01F6/06 H01L23/53285 H01L39/225 H02K55/00 H02K3/02 Y02E40/62 H01L2224/48091 H01L2224/48247 H01L2924/01015 H01L2924/01047 H01L39/126 H01L2924/30107 H01L2924/3011 H01L2924/3025 H01L39/2422 H01L2924/13091 H01L2924/1461 H01L2924/1305 G01L21/12 H01L2924/181 H01L39/2464 Y10T428/31678 H01L2924/10253 H01L2924/10329 H01L39/02 C04B35/45 H01B1/00 H01L39/128 H01L39/143

European: H01L39/12C H01L39/24J4

US: 1/1 252/500 427/62 428/457 428/471 428/702 505/100 505/121 505/150 505/236 505/237 505/470

PatBase - US2012252676_AA

**Family:**

Publication number	Publication date	Application number	Application date
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CA2868986 AA	20140929	CA20122868986	20120330
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JP2017175155 A2	20170928	JP20170103000	20170524
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RU2612847 C2	20170313	RU20130148124	20120330
US2012252676 AA	20121004	US20110076188	20110330
US2013196858 AA	20130801	US20130832051	20130315
US2014113828 AA	20140424	US20120008932	20120330
US2014329686 AA	20141106	US20140195392	20140303
US8404620 BB	20130326	US20110076188	20110330
US9431594 BB	20160830	US20140195392	20140303
WO12135683 A1	20121004	WO2012US31554	20120330

Priority:

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US20110569595P	20110330	US20110649645P	20110330	CN20120583855P	20120106
AU20120236227	20120330	JP20140502854T	20120330	CN201280044226	20120330
US20120008932	20120330	WO2012US31554	20120330	US20130832051	20130315
US20140195392	20140303	AU20150275326	20151223	JP20170103000	20170524

Probable Assignee: AMBATURE INC

Assignee(s): (std): AMBATURE LLC ; CALE TIMOTHY S ; GREENLAND PAUL ; COPPA BRIAN ; NORTH FORREST ; HANNA JOEL PATRICK ; GILBERT DOUGLAS J ; SHTEYN Y EUGENE ; NORTH FORREST J ; COPPA BRIAN J ; EMBACHER INK ; AMBATURE INC ; SMITH MICHAEL J ; SHTEYN YEVGENIY EUGENE

Assignee(s): AMBATURE INC5235 S. 39TH STREETPHOENIXAZ85040US ; AHRE INVESTMENTS LLC ET AL ; LANGER ENERGY INVESTMENTS LLC ET AL

Inventor(s): (std): NORTH FORREST ; GILBERT DOUGLAS J ; SHTEYN YEVGENIY EUGENE ; HANNA JOEL PATRICK ; GREENLAND PAUL ; COPPA BRIAN ; SMITH MICHAEL J ; CALE TIMOTHY S ; NORTH FORREST J ; COPPA BRIAN J ; SHTEYN Y EUGENE ; KOPPA BRAJAN ; SMIT MAJKL DZH ; SHTEJN EVGENIJ YUDZHIN ; KHANNA DZHOEL PATRIK ; GRINLEND POL ; GILBERT DUGLAS DZH ; NORT FORREST ; DOUGLAS J GILBERT ; YEVGENIY EUGENE SHTEYN ; MICHAEL J SMITH ; JOEL PATRICK HANNA ; PAUL GREENLAND ; BRIAN J COPPA ; FORREST J NORTH

Inventor(s): GREENLAND PAULUS ; NORTH FORRESTUS ; HANNA JOEL PATRICKUS ; COPPA BRIANUS ; GILBERT DOUGLAS JUS ; SHTEYN YEVGENIY EUGENEUS ; SMITH MICHAEL JUS ; GILBERT DOUGLAS ; HANNA JOEL ; SMITH MICHAEL ; SHTEYN YEVGENIY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; BECK SIMON ANTONY; REINHOLD COHN AND PARTNERS; TANI AND ABE PC; HAMADA HARUO; YURIDICHESKAYA GORODISSKIY I PARTNERY OOO FA; WOMBLE CARLYLE SANDRIDGE AND RICE LLP; TOERING PATENTS PLLC; TOERING RICK A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

72) Family number: 28845785 (US2003136134A)

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Title: FLUID AND AIR HEAT EXCHANGER AND METHOD

Abstract: The present invention relates to a modular apparatus and methods for active heat exchange involving continuous atomization of chilled or heated fluid droplets, droplets projection, and formation of fluid film on a large surface for reciprocal two way heat transfer with circulating air. A closed, pleated, corrugated, thin-wall, heat conductive chamber (1) provides the large surface for formation of fluid film and separation between fluid and air offering short and rapid heat conductive path between fluid and air. An axial blower (11) integrated with the heat exchanger module provides re-circulation of air where the heat exchanger module (28) is situated. The modular heat exchanger (28) or multiple of which is integrated with other components such as a refrigeration unit (37), a heating element (25), and a central fluid reservoir (23) in which fluid is pre-chilled or preheated in the application of air conditioning and heating. The fluid is conveyed by small bore tubes to individual modules by a pump (26) then returns to the central reservoir (23) for re-chill or reheat in a closed loop fluid flow configuration.

Classifications:

International (IPC 8-9): F24F5/00 F24F6/00 F28D5/00

F28D9/00 (Advanced/Invention);

F24F5/00 F24F6/00 F28D5/00 F28D9/00 (Core/Invention)

International (IPC 1-7): F24F6/00 F25D17/06

CPC: F24F6/00 F24F5/0035 F24F5/0042 F28D5/00 F28D9/0025

European: F24F5/00C7 F24F5/00D F24F6/00 F28D5/00 F28D9/00E

R24F5/00D Y02B30/14 Y02B30/54D

US: 165/228 165/228S 165/6 165/60 165/60S 62/91 62/91P

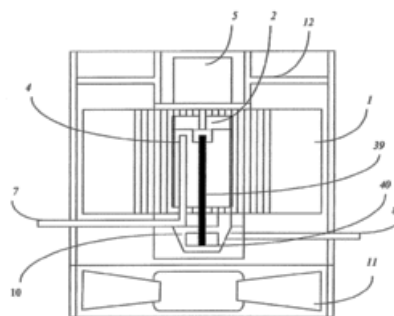


FIG. 1a

Family:

Publication number	Publication date	Application number	Application date
US2003136134 AA	20030724	US20020054609	20020118

Priority:

US20020054609 20020118

Probable Assignee:

PUN JOHN Y

Assignee(s):

PUN JOHN Y

Inventor(s): (std):

PUN JOHN Y

73) Family number: 28689793 (US2002198632A)

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Title: METHOD AND ARRANGEMENT FOR COMMUNICATING BETWEEN VEHICLES

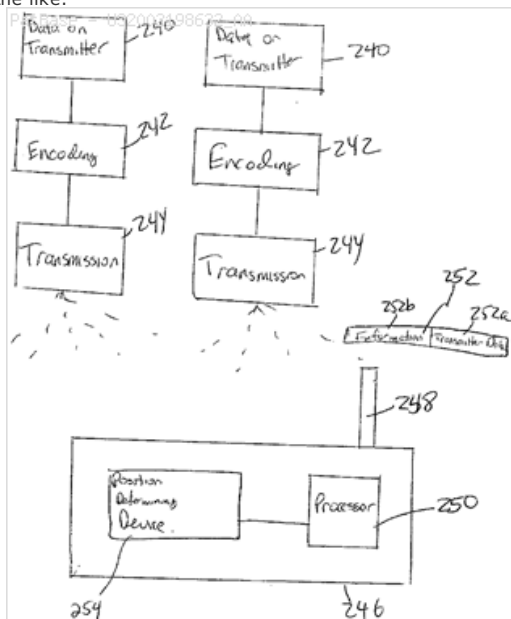
Abstract: Method for transferring information between a vehicle and a transmitter in which a unique pseudorandom noise signal is transmitted by the transmitter in a carrier-less fashion composed of frequencies within a pre-selected band. Information is encoded in the noise signal relating to an identification of the transmitter and a position of the transmitter and the vehicle is provided with a device for extracting the information from the noise signal. The code to use for encoding the noise signal may be selected based on the position of the transmitter so that analysis of the code, or a portion thereof, provides an indication of the position of the transmitter. Information about accidents, weather conditions, road conditions, map data and traffic control devices and about errors in a GPS signal can also be encoded in the noise signals. The transmitter may be at a fixed location or in another vehicle to thereby enable vehicle-to-vehicle communications for the purposes of collision avoidance, intelligent highway applications and the like.

Classifications:

International (IPC 8-9): B60N2/00 B60N2/28 B60Q1/00 B60R19/20 B60R19/42 B60R21/01 B60R21/16 B60R21/233 B60R21/33 B60R22/26 B60R22/32 B60W30/00 B60W30/04 B60W30/16 B60W30/18 B60W40/06 B60W50/00 G01C21/00 G01C21/16 G01C21/20 G01C21/26 G01C21/28 G01C23/00 G01S1/00 G01S13/00 G01S13/88 G01S13/93 G01S15/87 G01S15/88 G01S17/02 G01S17/88 G01S17/89 G01S19/07 G01S19/17 G01S19/41 G01S19/42 G01S19/48 G01S19/50 G01S5/14 G01S7/41 G01S7/48 G01W1/00 G01W1/02 G05D1/02 G06F17/00 G06F17/30 G06F17/40 G06F19/00 G06Q50/00 G08G1/00 G08G1/01 G08G1/09 G08G1/0962 G08G1/0965 G08G1/123 G08G1/133 G08G1/137 G08G1/16 G08G5/04 (Advanced/Invention); B60R21/00 B60R21/0132 B60R21/0134 B60R21/26 B60W10/06 B60W10/18 B60W10/20 B60W30/02 B60W30/14 B60W40/072 B60W40/076 B60W50/14 G01S19/41 G01S19/48 G01S7/487 G01S7/497 G01S7/539 (Advanced/Non-invention); B60N2/26 B60Q1/00 B60R21/16 B60W30/00 B60W40/06 G01C21/00 G01C21/20 G01C21/26 G01C21/28 G01S1/00 G01S13/00 G01S17/00 G01S19/00 G01S5/14 G01W1/00 G05D1/02 G06Q50/00 G08G1/01 G08G1/09 G08G1/0962 G08G1/123 G08G1/16 G08G5/00 (Core/Invention); B60W30/08 (Core/Non-invention)

International (IPC 1-7): B60Q1/00 B60R11/00 B60R11/04 G01C11/02 G01C21/26 G01C21/28 G01C21/30 G01C23/00 G01C7/04 G01S3/28 G01S5/12 G01S5/14 G05D1/02 G06F165/00 G06F17/00 G06F19/00 G06K9/62 G07C5/08 G08G1/0969 G08G1/16 G09B29/00

CPC: G01C21/12 G01C21/20 B60N2002/0272 B60N2/0232 B60N2/0248 B60N2/0276 B60N2002/0268 B60R1/088 B60R11/0241 B60R16/037 B60R21/21656 B60R21/276 B60R22/20 B60R25/04 B60R25/1004 B60R25/102 B60R25/252 B60R25/255 B60R25/257 B60R25/305 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/0048 B60R2021/01315 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/4825 B60R2325/304 E05Y2900/55 G01S13/04



G01S15/04 G01S15/06 G06K9/00369 G06K9/00832 G10K2210/1282 G10K2210/3219 G01S13/865 G01S13/867 B60W30/09 B60W40/04 B60W2050/143 B60W2550/30 G01S13/751 G01S17/936 G01S19/47 G01S2013/9367 G01S2205/006 B60W10/184 B60W30/095 B60W2050/046 B60W2050/048 B60W2420/40 B60W2420/403 B60W2420/52 B60W2550/12 B60W2550/20 B60W2550/306 G01C21/26 G01C21/30 G01S5/0072 G01S2205/002 G01C21/34 G01C21/3691 G01S17/93 G01W1/00 G01S2013/9325 B60N2/002 B60N2/28 B60N2/2806 B60R19/205 B60R19/42 B60R21/23138 B60R21/233 B60R22/26 B60R22/321 B60R2021/0006 B60R2021/23332 B60R2021/26058 B60W30/08 G01S7/417 G01S7/48 G01S7/4802 G01S7/487 G01S7/539 G01S13/88 G01S15/87 G01S15/88 G01S17/88 G01S19/51 G08G1/133 G01C21/3697 G01S19/14 B60T2201/022 G01S19/07 G01S19/48 B60R21/01516 B60R21/01534 B60R21/01536 B60R21/01538 B60R21/01542 B60R21/01548 B60R21/01552 B60R21/01554 B60R21/01556 G06K9/00805 B60R21/0152 B60R21/0153 B60R21/01544 E05F15/43 E05F15/431 E05F2015/433 G05D1/0234 G08G1/096783 B60R21/16 B60R25/25 B60R21/0134 B60R21/013 G01S17/107 B60N2/853 B60N2/888 G01S13/876 G06F16/29 G05D1/024 B60R21/0132 G05D1/0289 G05D1/0261 B60N2/2863 B60W10/06 B60W10/18 B60W10/20 B60W30/02 B60W30/04 B60W30/14 B60W30/16 B60W30/18154 B60W30/18172 B60W40/06 B60W40/072 B60W40/076 B60W50/00 B60W50/14 B60W2050/0071 B60W2050/0073 B60W2050/0078 B60W2550/402 G01C21/28 G01S13/931 G01S17/023 G01S17/89 G01S19/17 G01S19/41 G01S19/42 G01S19/50 G01S2007/4975 G01S2013/9321 G01S2013/9332 G01S2013/9339 G01S2013/9342 G01S2013/9346 G01S2013/935 G01S2013/9353 G01S2013/9357 G01S2013/936 G01S2013/9375 G01S2013/9378 G01S2013/9382 G05D1/0221 G05D1/0225 G05D1/0246 G05D1/0257 G05D1/027 G05D1/0274 G05D1/0278 G05D2201/0213 G08G1/161 G08G1/163 G08G1/164 G08G1/165 G08G1/166 G08G1/167 **European:** B60N2/00C B60N2/02B4 B60N2/02B6B B60N2/02B6W B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C3C B60N2/48W B60R1/08G5 B60R11/02G B60R16/037 B60R19/20C B60R19/42 B60R21/013 B60R21/015 B60R21/01C B60R21/16B2B B60R21/16B2L B60R21/231L B60R21/233 B60R22/20 B60R22/26 B60R22/32B B60R25/04 B60R25/102 B60R25/10C B60R25/25 B60R25/25B B60R25/25D B60R25/25F B60R25/30D B60W10/06 B60W10/18 B60W10/20 B60W30/04 B60W30/08 B60W30/095 B60W30/16 B60W30/18R11 B60W40/06 B60W50/00 E05F15/00B6B E05F15/00B6B2 G01C21/12 G01C21/20 G01C21/26 G01C21/28 G01C21/30 G01C21/34 G01C21/36T G01C21/36W G01S13/86 G01S13/88 G01S13/93C G01S15/87 G01S15/88 G01S17/02C G01S17/88 G01S17/89 G01S17/93 G01S17/93C G01S19/07 G01S19/14 G01S19/17 G01S19/41 G01S19/42 G01S19/47 G01S19/48 G01S19/50 G01S19/51 G01S5/00R3 G01S7/41D G01S7/48A G01S7/539 G01W1/00 G05D1/02E14M G05D1/02E16B G05D1/02E6V G06F17/30L G06K9/00H1 G06K9/00V6 G06K9/00V7 G08G1/0967C2 G08G1/133 G08G1/16 G08G1/16A G08G1/16A2 G08G1/16B L60N2/02B6S L60R1/12C L60R1/12G L60R21/00A2 L60R21/00C L60R21/00P2H L60R21/0132 L60R21/0134 L60R21/013R L60R21/015G2 L60R21/015G6 L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8E L60R21/015G9 L60R21/015J L60R21/015L L60R21/216S5 L60R21/231M L60R21/233H2 L60R21/26M L60R21/26V L60R21/276 L60R21/276L L60R22/20R L60R22/48B2 L60R325/30D L60T201/022 L60W10/06 L60W10/18 L60W10/184 L60W10/20 L60W30/02 L60W30/09 L60W30/095 L60W30/14 L60W30/16 L60W30/18S L60W40/04 L60W40/072 L60W40/076 L60W420/40 L60W420/40A L60W420/52 L60W50/00D4B L60W50/00D4D L60W50/00D6A2 L60W50/04B2 L60W50/04B2A L60W50/14 L60W50/14B L60W550/12 L60W550/20 L60W550/30 L60W550/30C L60W550/40A P05F15/00B6B5R P05Y900/550 S01S13/04 S01S13/75C S01S13/93C10 S01S13/93C11 S01S13/93C12 S01S13/93C13 S01S13/93C14 S01S13/93C16 S01S13/93C30C S01S13/93C6 S01S13/93C8 S01S13/93C9 S01S15/04 S01S15/06 S01S15/88 S01S17/88 S01S17/89 S01S19/41 S01S205/00R21 S01S205/00R22 S01S7/48 S01S7/487 S01S7/539 S05D1/02E10 S05D1/02E14B S05D1/02E3L S05D1/02E3V S05D201/0213 S10K210/1282 S10K210/3219 **US:** 1/1 1/P 213/36 280/735 280/735P 340/435 340/435P 340/435S 340/436 340/436S 340/438 340/438S 340/440 340/461 340/461S 340/557 340/601 340/870.07 340/901 340/901S 340/903 340/905 340/905P 340/961 340/961S 340/988 340/989 340/993 340/995.1 340/995.12 340/995.13 342/118 342/357.06 342/357.08 342/357.13 342/357.31 342/386 342/53 342/53P 342/54 342/54S 342/70 342/70S 342/71 342/72 701/1 701/117 701/117P 701/117S 701/1P 701/200 701/200P 701/200S 701/207 701/207P 701/207S 701/208 701/208P 701/210 701/213 701/213S 701/214 701/214S 701/215 701/216 701/221 701/223 701/29 701/29P 701/3 701/300 701/300P 701/301 701/301P 701/301S 701/36 701/36P 701/36S 701/38 701/3P 701/408 701/408P 701/414 701/45 701/451 701/45S 701/466 701/466S 701/467 701/469 701/469S 701/470 701/470S 701/472 701/472P 701/472S 701/48 701/482 701/482P 701/514 701/514P 701/516 701/517 701/517S 701/522 701/523 701/523S 701/532 701/70 701/70S 702/187 702/3 702/3P 705/1 705/1.1 705/1.100P 707/10 707/999.01 707/999.010S 707/E17.018 707/E17.018S 73/170.16 73/866.3

Family:

Publication number	Publication date	Application number	Application date
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DE10149206 A1	20030206	DE20011049206	20011002
GB200123688 A0	20011121	GB20010023688	20011002
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GB2373117 A1	20020911	GB20010023688	20011002
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US2005137786 AA	20050623	US20050028386	20050103
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US2007109111 AA	20070517	US20060562730	20061122
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WO0054008 A1	20000914	WO2000US06236	20000310

Priority:

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US20080031052	20080310				

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): BREED DAVID S ; DUVALL WILBUR E ; INTELLIGENT TECH INT INC ; JOHNSON WENDELL C ; KONOVALOV VLADYMYR MICHAILOVIC ; AUTOMOTIVE TECH INT ; INTELLIGENT TECHNOLOGIES INT L

Assignee(s): AMERICAN VEHICULAR SCIENCES LLC ; INTELLIGENT TECHNOLOGIES INT ; LUKIN KOSTYANTYN ALEXANDROVICH ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; INTELLIGENT TECHNOLOGIES INT INC ; KONOVALOV VLADYMYR MICHAILOVICH ; INTELLIGENT TECHNOLOGIES INT L INC

Inventor(s): (std): CASTELLI VITTORIO ; SEITZ WILLIAM E ; DUVALL WILBUR E ; BREED DAVID SCRANTON ; JOHNSON WENDELL C ; BREED DAVID S ; LUKIN KOSTYANTYN ALEXANDROVICH ; KONOVALOV VLADYMYR MICHAILOVIC ; LUKIN KOSTYANTYN A ; KONOVALOV VLADYMYR M

Inventor(s): DAVID S BREED ; WILLIAM E SEITZ ; VITTORIO CASTELLI ; WILBUR E DUVALL ; DAVID SCRANTON BREED ; WENDELL C JOHNSON ; BREED DAVID ; JOHNSON WENDELL ; DUVALL WILBUR ; LUKIN KOSTYANTYN ; KONOVALOV VLADYMYR ; KONOVALOV VLADYMYR MICHAILOVICH

Agent(s): BRIAN ROFFE ESQ; BRIAN; ROFFE BRIAN; MCANDREWS HELD AND MALLOY LTD

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

74) Family number: 59450795 (US2015162517A)

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Title: VOLTAGE GENERATION ACROSS TEMPERATURE DIFFERENTIALS THROUGH A FLEXIBLE THIN FILM THERMOELECTRIC DEVICE

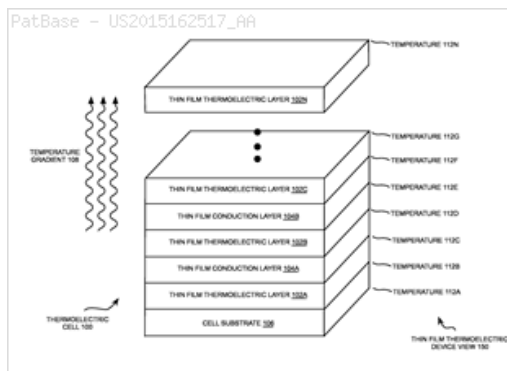
Abstract: A method and/or device of voltage generation across temperature differentials through a flexible thin film thermoelectric device is disclosed. A thin film thermoelectric layer is deposited onto a cell substrate. A thin film conduction layer is deposited above the thin film thermoelectric layer. The layered composite material is diced into thermoelectric cells. The thermoelectric cells are bonded to the electrically conductive pads of a top and bottom substrate, and are electrically connected in series. The resulting thin film thermoelectric device generates a voltage when exposed to a temperature gradient.

Classifications:

International (IPC 8-9): F24J2/04 F24S70/60 H01L31/052 H01L31/054 H01L35/08 H01L35/10 H01L35/30 H01L35/32 H01L35/34 H02S10/10 H02S10/30 H02S30/20 H02S40/44 (Advanced/Invention)

CPC: H01L35/32 H01L35/30 H01L31/0525 H01L35/34 H02S10/10 Y02E10/52 H01L35/08 H02S10/30 F24S70/60 H02S40/44 H01L31/0547 H01L31/00 H02S10/40 F24S10/742 F24S80/50 H01L35/10 H02S30/20

US: 136/201 136/205 136/211 438/54 438/55



Family:

Publication number	Publication date	Application number	Application date
US2015162517 AA	20150611	US20140564072	20141208
US2016336501 AA	20161117	US20150711810	20150514
US2016336503 AA	20161117	US20160059286	20160302

US2018090660 AA	20180329	US20170808902	20171110
US2018159013 AA	20180607	US20160368683	20161205
US2018159015 AA	20180607	US20180869017	20180111
US2018277732 AA	20180927	US20180995110	20180531
US2019103540 AA	20190404	US20180207076	20181130
US10141492 BB	20181127	US20150711810	20150514
US10290794 BB	20190514	US20160368683	20161205

Priority:

US20130912561P	20131206	US20140564072	20141208	US20150711810	20150514
US20160059286	20160302	US20160368683	20161205	US20170808902	20171110
US20180869017	20180111	US20180995110	20180531	US20180207076	20181130

Probable Assignee: NIMBUS MATERIALS INC

Assignee(s): (std): KASICHAINULA SRIDHAR ; NIMBUS MAT INC

Assignee(s): NIMBUS MATERIALS INC

Inventor(s): (std): KASICHAINULA SRIDHAR

Agent(s): LEGALFORCE RAPC WORLDWIDE

75) Family number: 61130831 (WO15188226A1)

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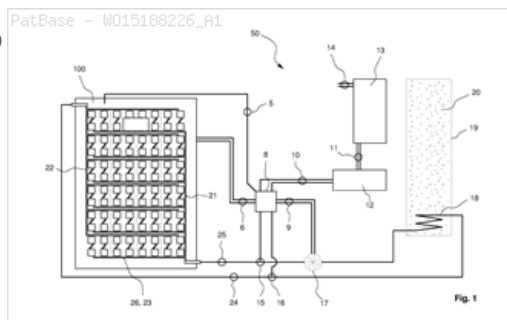
Title: SYSTEM AND APPARATUS FOR GENERATING ELECTRICITY

Abstract: An apparatus for generating electricity comprises a solar panel having a plurality of photovoltaic cells, a plurality of heat sink tiles and a heat exchanger. The heat sink tiles are disposed between the solar panel and the heat exchanger. The heat exchanger is connected to a circulation system which allows coolant fluid to flow through the heat exchanger. Each of the heat sink tiles having a first side in direct thermal contact with a respective one of the photovoltaic cells and an opposite second side in contact with the heat exchanger. The heat exchanger having a plurality of coolant chambers disposed adjacent to the heat sink tiles.

Classifications:

International (IPC 8-9): H01L21/00 H01L31/00 H01L33/00 H01L51/00 H02S10/30 (Advanced/Invention)

CPC: H01L51/42 H01L31/0521 H02S40/425 Y02E10/50



Family:

Publication number	Publication date	Application number	Application date
WO15188226 A1	20151217	WO2015AU50309	20150605

Priority:

AU20140902207	20140610	AU20150900139	20150119
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Probable Assignee: GEIGER TRADING GMBH

Assignee(s): (std): GEIGER TRADING GMBH ; WEBB MARIA ; WEBB ROGER

Inventor(s): (std): WEBB MARIA ; WEBB ROGER

Agent(s): PAPPAS IP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

76) Family number: 28332838 (US2003039173A)

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Title: METHODS FOR REDUCING RINGING OF ULTRASONIC TRANSDUCERS

Abstract: Methods for reducing ringing of dual-function ultrasonic air-coupled transducers in which at least one electrical passive circuit is applied to the transducer. The circuit may be either a linear circuit or a non-linear circuit. Different circuits can be applied to the transducer when the transducer is in a transmission mode than when the transducer is in a reception mode.

Classifications:

International (IPC 8-9): B06B1/02 B06C23/00 B06C23/04 B06H1/00 B06H1/32 B06J10/00 B06K28/00 B06K28/02 B06N2/00 B06N2/015 B06N2/02 B06N2/06 B06N2/28 B06N2/427 B06N2/48 B06N2/66 B06Q1/00 B06Q1/14 B06R1/00 B06R16/02 B06R16/037 B06R21/00 B06R21/01 B06R21/013 B06R21/015 B06R21/02 B06R21/04 B06R21/16 B06R21/18 B06R21/32 B06R22/00 B06R22/20 E05F15/00 F24F11/00 F24F7/00 G01C3/08 G01F23/00 G01F23/20 G01F23/296 G01G19/10 G01G19/414 G01J1/34 G01M17/00 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06F15/00 G06F17/00 G06F19/00 G06F7/00 G06F7/70 G06G7/00 G06G7/76 G06K7/00 G06K9/00 G06K9/62 G08B1/08 G08B13/14 G08B29/00 G08B29/18 G08C19/00 G09G5/00 H01J40/14 H04B1/00 H04B1/02 H04B3/00 H04N7/18 H04Q5/22 H04R3/00 H04R5/02 (Advanced/Invention); B60R1/12 B60R21/00 B60R21/013 B60R21/0132 B60R21/0134

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International (ipc 1-7): G01S15/00 H04B1/02

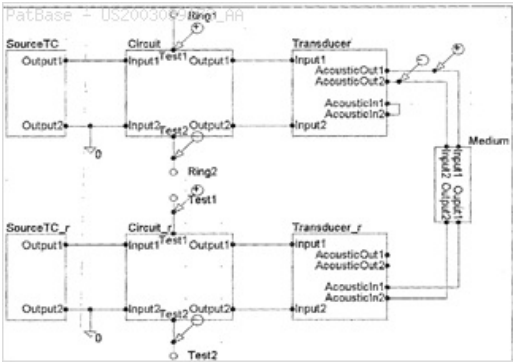
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US: 1/1 137/223S 137/224S 152/419S 165/203 165/237 177/136 177/144 177/208 180/197P 180/268 180/271 180/272
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): DUVALL WILBUR E ; BREED DAVID S ; AUTOMOTIVE TECH INT ; INTELLIGENT TECH INT INC ; JOHNSON WENDELL C

Assignee(s): YURCHENKO OLEKSANDR V ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTIONAL ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; INTELLIGENT TECHNOLOGIES INT INC ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC ; INTELLIGENT TECHNOLOGIES INT ; AMERICAN VEHICULAR SCIENCES LLC

Inventor(s): (std): YURCHENKO OLEKSANDR V ; JOHNSON WENDELL C ; DUVALL WILBUR E ; DAVIS STUART D ; BREED RYAN H ; PIIRAINEN RAY ; PATEL RASHIK ; MORIN JEFFREY L ; DU VALL WILBUR E ; CASTELLI VITTORIO ; BREED DAVID S

Inventor(s): DAVIS STUART ; BREED RYAN ; BREED DAVID ; JOHNSON WENDELL ; DUVALL WILBUR

Agent(s): BRIAN ROFFE ESQ; BRIAN; ROFFE BRIAN; BRIAN ROFFE

77) Family number: 63934845 (US2016330871A)

© PatBase

Title: COMPUTER SERVER HEAT REGULATION UTILIZING INTEGRATED PRECISION AIR FLOW

Abstract: Disclosed is system, method, and rack stand portion for the advantageous cooling of computer equipment 305. The rack stand 200 includes a hollow body 210, 212 that may be formed of cartridges 2416. Gas from an airflow source 5204 is guided into the rack stand body and then into a sealed case of the computer equipment. Air flow is then guided out of the computer equipment for recirculation, exhaust, or other purpose.

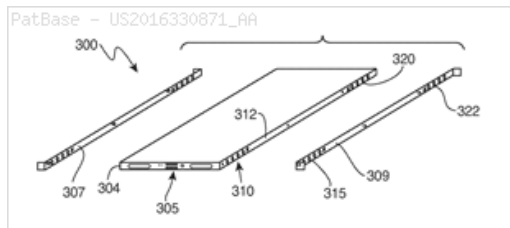
Classifications:

International (IPC 8-9): F16K27/00 F16K3/02 F16K3/03 G05D23/12 G06F1/16 G06F1/20 G5D23/12 H01L35/28 H05K7/14 H05K7/18 H05K7/20 (Advanced/Invention);

F16K27/00 F16K3/03 (Advanced/Non-invention)

CPC: F16K3/03 H05K7/20181 F16K3/0209 F16K27/00 H01L35/28 H05K7/20745 H05K7/20736 H05K7/20727 F16K27/003

US: 361/679.49



Family:

Publication number	Publication date	Application number	Application date
AU2016258218 AA	20171207	AU20160258218	20160509
AU2016258218 BB	20180405	AU20160258218	20160509
AU2017348339 AA	20190509	AU20170348339	20171027
CA2985180 AA	20171106	CA20162985180	20160509
CA3041328 AA	20190418	CA20173041328	20171027
CN107710894 A	20180216	CN201680034187	20160509
CN107710894 B	20190426	CN201680034187	20160509
EP3292745 A1	20180314	EP20160790237	20160509
EP3292745 A4	20190403	EP20160790237	20160509
JP2018520451 T2	20180726	JP20180510701T	20160509
KR101907340 B1	20181011	KR20177035419	20160509
KR20170142203 A	20171227	KR20177035419	20160509
KR20190053247 A	20190517	KR20197011323	20171027
US2016330871 AA	20161110	US20160144788	20160502
US2017318703 AA	20171102	US20170439631	20170222
US2017318704 AA	20171102	US20160338376	20161029
US2018014433 AA	20180111	US20170700075	20170908
US2018063997 AA	20180301	US20170792663	20171024
US9795063 BA	20171017	US20160338376	20161029
US9832912 BB	20171128	US20160144788	20160502
WO16179597 A1	20161110	WO2016US31516	20160509
WO18081547 A2	20180503	WO2017US58743	20171027
WO18081547 A3	20180607	WO2017US58743	20171027

Priority:

US20150158529P	20150507	US20160144788	20160502	WO2016US31516	20160509
US20160338376	20161029	US20170439631	20170222	US20170700075	20170908
US20170792663	20171024	WO2017US58743	20171027		

Probable Assignee: DHK STORAGE LLC

Assignee(s): (std): DHK STORAGE LLC

Assignee(s): KLEIN DAVID ; KLEIN DAVID HARRY

Inventor(s): (std): KLEIN DAVID ; KLEIN DAVID HARRY

Agent(s): PHILLIPS ORMONDE FITZPATRICK; CHRYSILIOU IP; BERESKIN AND PARR LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; AWAPATENT AB; AOKI ATSUSHI; DA VINCIS NOTEBOOK LLC; MAZANY NEVINS KRISTIN; YOUNG ANDREW F

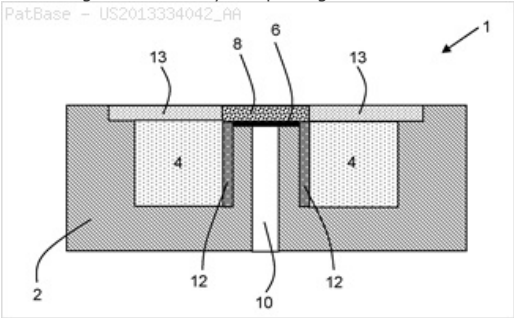
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

78) Family number: 48304856 (US2013334042A) © PatBase

Title: PATHOGEN SENSOR

Abstract: A pathogen sensor comprising a growth medium upon which and/or within which a pathogen may grow, the growth medium comprising nutrients which facilitate growth of the pathogen, wherein the pathogen sensor further comprises an electronic detection apparatus configured to detect an electrochemical change mediated by the pathogen.

Classifications:
International (IPC 8-9): C12N1/38 C12Q1/00 C12Q1/04
G01N27/27 (Advanced/Invention)
CPC: C12Q1/04 C12Q1/005
European: C12Q1/00B6 C12Q1/04
US: 204/403.01 204/403.14



Family:

Publication number	Publication date	Application number	Application date
AR084157 AA	20130424	AR2011P104541	20111205
AU2011340686 AA	20120614	AU20110340686	20111205
AU2016247201 AA	20161110	AU20160247201	20161021
BR112013013793 A2	20160913	BR20131113793	20111205
CA2818212 AA	20130516	CA20112818212	20111205
CN103237898 A	20130807	CN201180058648	20111205
CN103237898 B	20160330	CN201180058648	20111205
EP2649190 A1	20131016	EP20110804656	20111205
GB201020619 A0	20110119	GB20100020619	20101206
IN04238DN2013 A	20141121	IN2013DN04238	20130513
US2013334042 AA	20131219	US20110991088	20111205
WO12076431 A1	20120614	WO2011EP71686	20111205

Priority:

GB20100020619 20101206 AU20110340686 20111205 WO2011EP71686 20111205
AU20160247201 20161021

Probable Assignee: SYNGENTA AG

Assignee(s): (std): GRIEVE BRUCE DONALDSON ; PERFECT SARAH ; ROBINSON THOMAS HORSLEY ; SYNGENTA AG ; SYNGENTA LTD ; WEISS SOPHIE

Assignee(s): SYNGENTA LIMITED

Inventor(s): (std): GRIEVE BRUCE DONALDSON ; ROBINSON THOMAS HORSLEY ; WEISS SOPHIE ; PERFECT SARAH

Inventor(s): SARAH PERFECT ; BRUCE DONALDSON GRIEVE ; SOPHIE WEISS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; GOWLING LAFLEUR HENDERSON LLP; THWAITE JONATHAN SIMON; THWAITE JONATHAN

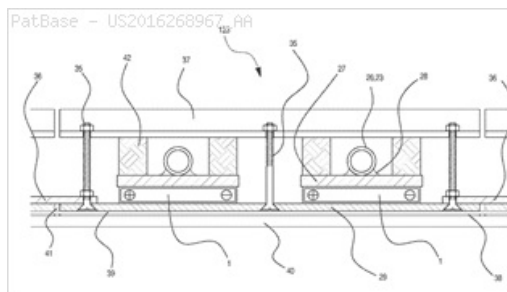
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

79) Family number: 58798864 (US2016268967A) © PatBase

Title: MODULAR UNIT FOR ATTACHMENT TO SOLAR PANEL

Abstract: A modular unit attached to a solar panel. The modular unit comprises a heat exchanger having an inlet manifold and an outlet manifold and a plurality of spaced apart galleries extending there between, a plurality of thermoelectric modules disposed between the galleries and a plurality of heat sink tiles, the thermoelectric modules bonded to the heat sink tiles and clamped into abutment with the galleries. In use the modular unit is attached to the solar panel by bonding said heat sink tiles to said solar panel.

Classifications:
International (IPC 8-9): F24J2/04 F24J2/24 H01L31/048 H01L31/052
H01L31/0525 H01L31/054 H01L35/30 H02S10/10 H02S40/42
H02S40/44 (Advanced/Invention)
CPC: Y02E10/44 Y02E10/52 Y02E10/60 H01L31/0547 H02S40/425
H01L31/0525 H02S40/44 H01L35/30 H02S10/10 F24S10/70
US: 136/206



Family:

Publication number	Publication date	Application number	Application date
CN105940512 A	20160914	CN201480050073	20140916
EP3047525 A1	20160727	EP20140845649	20140916
EP3047525 A4	20170621	EP20140845649	20140916
IN201627013283 A	20160826	IN201627013283	20160415
US2016268967 AA	20160915	US20140022271	20140916
WO15039184 A1	20150326	WO2014AU50232	20140916
WO15039185 A1	20150326	WO2014AU50233	20140916

Priority:

AU20130903565 20130917 AU20130904950 20131218 WO2014AU50233 20140916

Probable Assignee: GEIGER TRADING GMBH

Assignee(s): (std): GEIGER TRADING GMBH ; WEBB MARIA ; WEBB ROGER

Inventor(s): (std): WEBB MARIA ; WEBB ROGER

Agent(s): BROOKS NIGEL SAMUEL; PAPPAS IP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

80) Family number: 74357875 (WO19094700A1)

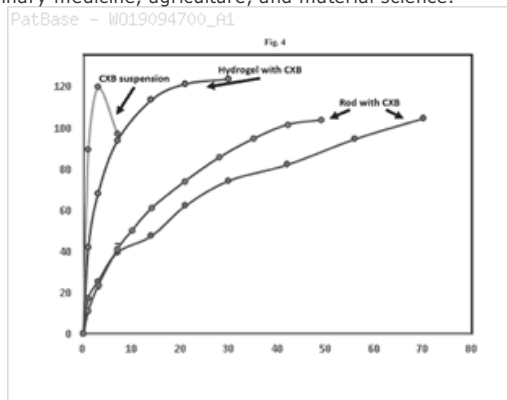
© PatBase

Title: SILK-BASED PRODUCTS AND METHODS OF USE

Abstract: Embodiments of the present disclosure include silk-based products and related methods of use in a variety of applications. Included are applications in the fields of medicine, veterinary medicine, agriculture, and material science.

Classifications:

International (IPC 8-9): A01K67/00 A01K67/033 A01K67/04 A61K47/00 A61K47/42 A61K9/00 C07K14/00 C07K14/435 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
WO19094700 A1	20190516	WO2018US59996	20181109
WO19094702 A1	20190516	WO2018US59998	20181109

Priority:

US20170584153P 20171110 US20180659209P 20180418 US20180659213P 20180418
US20180680386P 20180604 US20180680371P 20180604

Probable Assignee: COCOON BIOTECH INC

Assignee(s): (std): COCOON BIOTECH INC

Inventor(s): (std): DELISLE SCOTT ; EASTON LINDSEY ; SANTOS MICHAEL ; TWEED KENT AILIS ; PATTNI BHUSHAN S

Agent(s): WARD DONNA T ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

81) Family number: 31777881 (WO05028967A1)

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Title: THERMAL SHIELD FOR THE AIR-CONDITIONING OF BUILDINGS

Abstract: The invention relates to a thermal shield for the air-conditioning of buildings, comprising a body which is made from a flexible material. The structure of the aforementioned body contains two pairs of channels (2 and 2') at the ends thereof and one channel (3) at the centre of same. In addition, the sides of the upper face are equipped with flanges (4 and 4') and the opposite or lower face is provided with a series of multi-functional micro-etched fins which make use of air recycling and the recycling of selective liquids for thermoregulation of the semiconductors or for the application of adhesives, rough plastering work or other photovoltaic, ceramic or ornamental elements.

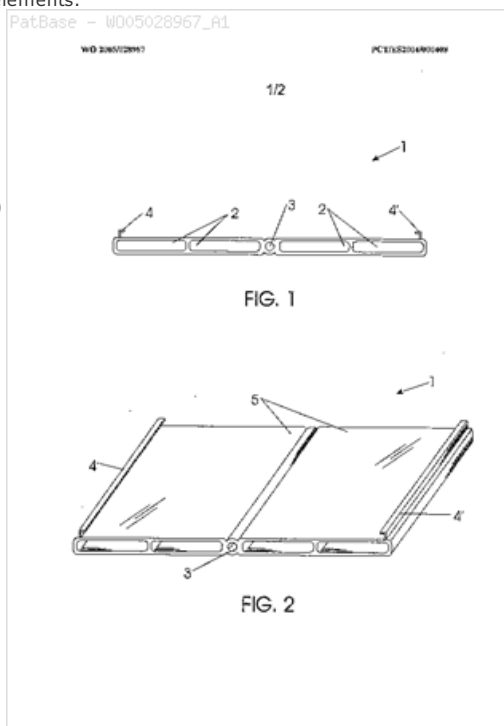
Classifications:

International (IPC 8-9): F24F13/02 F24F5/00 F24J2/00 H01L31/04 H01L31/058 (Advanced/Invention); F24F13/02 F24F5/00 F24J2/00 H01L31/04 H01L31/058 (Core/Invention)

International (IPC 1-7): F24J2/00 H01L31/04

CPC: H02S40/44 F24F13/0209 F24F5/00 F24F5/0075 F24F13/02 F24F13/0218 Y02B10/10 Y02B10/20 Y02B10/70 Y02B30/92 Y02E10/60 Y02A30/26

European: F24F13/02 F24F13/02A F24F13/02B F24F5/00 F24F5/00K H01L31/058 Y02B10/10 Y02B10/20 Y02B10/70 Y02B30/92 Y02E10/50 Y02E10/60



Family:

Publication number	Publication date	Application number	Application date
ES2242508 AA	20051101	ES20030002186	20030919
ES2242508 BA	20061101	ES20030002186	20030919
WO05028967 A1	20050331	WO2004ES00408	20040917

Priority:

ES20030002186 20030919

Probable Assignee: TRIMBOLI LONGUETTO ANTONINO A

Assignee(s): (std): TRIMBOLI LONGUETTO ANTONINO A ; TRIMBOLI LONGUETTO ANTONINO AD

Assignee(s): TRIMBOLI LONGUETTO ANTONINO ADRIAN ; TRIMBOLI LONGUETTO ANTONINO ADRIANO

Inventor(s): (std): TRIMBOLI LONGUETTO ANTONINO AD

Inventor(s): TRIMBOLI LONGUETTO ANTONINO ADRIAN ; TRIMBOLI LONGUETTO ANTONINO ADRIANO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

82) Family number: 66978897 (IN201721029340A)

© PatBase

Title: IOT BASED THERMOELECTRIC AIR CONDITIONING SYSTEMS FOR SMART CARS

Abstract: The proposed system is based on the application of Internet of Things (IoT) in making traveling experience more comfortable and less noisy for passengers while also help provide a smart air conditioning system that works without the use of CFC and HFC. It has the user friendly mobile app to control an automated pre-cooling unit which is based on thermoelectric effect.

Classifications:

International (IPC 8-9): F24F12/00 F24F5/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201721029340 A	20170915	IN201721029340	20170818

Priority:

IN201721029340 20170818

Probable Assignee:

SHIVAL ETHAPE

Assignee(s):

SHIVAL ETHAPE

Inventor(s):

SHIVAL ETHAPE

Title: GEOTHERMAL WATER HEATER

Abstract: The present invention relates to a geothermal water heater system, and methods of heating water for domestic uses utilizing geothermal energy. More specifically, the present invention provides a geothermal heat pump water heater system includes a hot water tank, a cold water tank and at least one water-to-water heat pump. As contemplated, the water-to-water heat pump includes one or more heat exchangers which control heat transfer from water drawn from an outside water source. The outside water source water is supplied to both the hot water tank and the cold water tanks whereupon heat exchangers which comprise a cold water side heat exchanger and a hot water side heat exchanger, allow water entering the cold water tank to be cooled and returned to the cold water tank while water entering the hot water tank is heated and returned to the hot water tank.

Classifications:

International (IPC 8-9): F24J3/08 F25B21/02 F25B27/00 F25B30/06 F28D15/00 (Advanced/Invention); F24J3/00 F25B21/02 F25B27/00 F25B30/00 F28D15/00 (Core/Invention)

CPC: Y02E10/10 F24D11/0221 F24D2200/11 F24D2200/12 F28D20/0039 Y02B10/20 Y02B10/24 Y02B10/40 Y02B10/70 Y02A30/272 F24T10/00 Y02B30/125

European: F24D11/02C2 R24D200/11 R24D200/12 R24J3/08 R28D20/00C2 Y02B10/20 Y02B10/24 Y02B10/40 Y02B10/70 Y02B30/12B2

US: 165/104.31 165/104.310S 165/45 165/45P 62/235.1 62/238.7 62/238.700S 62/260 62/260S 62/3.3 62/3.300S 622/351

PatBase - US2010230071_AA

Patent Application Publication Sep. 16, 2010 Sheet 1 of 8 US 2010/0230071 A1

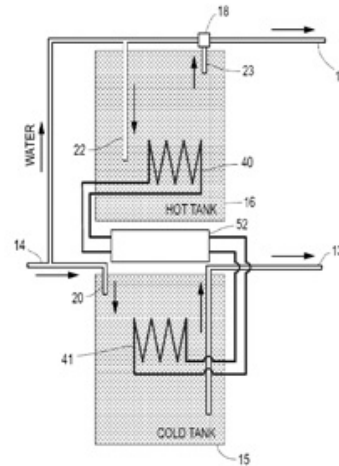


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US2010230071 AA	20100916	US20090540288	20090812
US7827814 BB	20101109	US20090540288	20090812

Priority:

US20090540288 20090812

Probable Assignee: SLATER HAL**Assignee(s): (std):** SLATER HAL**Inventor(s): (std):** SLATER HAL**Agent(s):** LAW OFFICE OF DAVID L ROMERO**Title:** SYSTEM AND METHOD FOR GEOTHERMAL HYBRID CLIMATE CONTROL

Abstract: The invention relates to a geothermal hybrid climate control system comprising a geothermal exchanger (1) with one or more tanks connected to a coil (2) or similar in an air circulation circuit of a cooler in which is also disposed a circuit (4) of refrigerant fluid from a main refrigeration exchanger (3). The method for controlling the climate of an installation during a demand time (tds) in which climate control with outdoor air (free cooling) is insufficient, comprises activating a refrigeration circuit with a geothermal exchanger (1) during a maximum set time, but allowing that time to be increased if the estimation of the temperature increase until the end of the demand time (tds) is lower than a pre-set operating temperature (To) plus a pre-defined margin.

Classifications:

International (IPC 8-9): F24F5/00 F24T10/10 F24T10/13 F25B27/00 H05K7/20 (Advanced/Invention)

CPC: F24F5/00 F24T10/13 F25B27/00 H05K7/20 F24F5/0046 F24T10/10 Y02B10/40 Y02E10/12 Y02E10/125

PatBase - WO18073466_A1

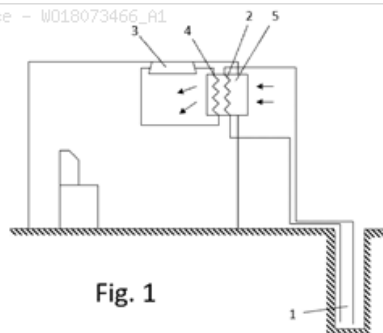


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
ES2671973 AA	20180611	ES20160031345	20161018
ES2671973 BA	20190402	ES20160031345	20161018
WO18073466 A1	20180426	WO2017ES70637	20170927

Priority:

ES20160031345 20161018

Probable Assignee: ARIAL PROYECTOS E INSTALACIONES ENERGETICAS S L**Assignee(s):** (std): ARIAL PROYECTOS E INSTALACIONES ENERGETICAS S L ; ES DE MONTAJES INDUSTRIALES S A SOC**Assignee(s):** ESPANOLA DE MONTAJES INDUSTRIALES SA SOC ; ARIAL PROYECTOS E INSTALACIONES ENERGETICAS SL**Inventor(s):** (std): ALVAREZ GONZALEZ VICTOR AITOR ; ALVAREZ GALLARDO OSCAR ; BONILLA JAIME MIGUEL ANGEL ; QUINONERO MARTINEZ BARTOLOME ; VEREA GIL DAVID**Inventor(s):** VICTOR AITOR ALVAREZ GONZALEZ ; OSCAR ALVAREZ GALLARDO ; MIGUEL ANGEL BONILLA JAIME ; BARTOLOME QUINONERO MARTINEZ ; DAVID VEREA GIL**Agent(s):** FERNANDEZ VEGA FERNANDEZ VEGA MARIA COVADONGA; FERNANDEZ VEGA FEIJOO MARIA C**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**85) Family number: 62922902 (US2017086281A)**

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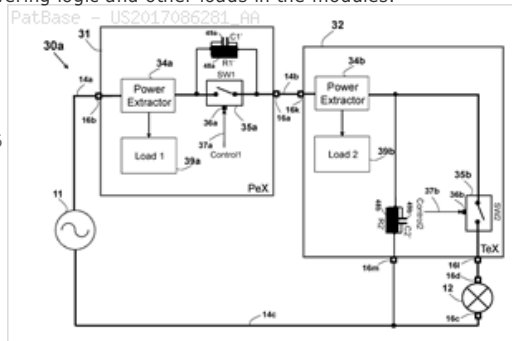
Title: METHOD AND APPARATUS FOR POWER EXTRACTION IN A PRE-EXISTING AC WIRING INFRASTRUCTURE

Abstract: A method and apparatus for extracting power in a switch location, and in a load location for use in a pre-existing infrastructure of switching AC power to a lamp (or other load) via a two terminal switch device. The switch is replaced with a module including a first controlled switch (such as a triac or relay) and a first impedance (such as a capacitor) connected in parallel, and another module including a second controlled switch (such as a triac or relay) and a second impedance (such as a capacitor) connected in parallel, is installed at the load location. In an 'off' state where the two controlled switches are in 'open' state, current is flowing via the impedances, but not through the load, so that power extractor circuits in the modules, connected in series to the impedances, extract low power for DC powering logic and other loads in the modules.

Classifications:

International (IPC 8-9): A01G31/02 A01G7/04 B01D61/14 C02F1/42 G08C17/02 G08C19/12 H02J3/14 H02J3/28 H05B37/02 H05B39/08 (Advanced/Invention); A01G25/16 A01G27/00 A01G31/00 A01G9/02 F21V23/04 G05B15/02 H02M1/00 H04W84/12 (Advanced/Non-invention)

CPC: H05B37/0227 H02J3/14 F21V23/04 H04W84/12 H02M2001/0006 H05B39/086 H05B39/088 A01G31/02 A01G2031/006 H05B37/0272 A01G7/045 A01G9/18 A01G9/246 A01G2009/248 C02F1/283 C02F1/42 C02F1/44 C02F1/4672 C02F1/78 C02F9/00 C02F2209/005 C02F2209/05 C02F2209/06 C02F2305/06 A01G7/04 A01G9/02 A01G25/16 A01G27/005 A01G31/00 B01D61/147 G05B15/02 A01G31/06

US: 315/283**Family:**

Publication number	Publication date	Application number	Application date
EP3243195 A2	20171115	EP20150876754	20151202
EP3243195 A4	20180822	EP20150876754	20151202
US2017086281 AA	20170323	US20160359797	20161123
US2017265287 AA	20170914	US20170600719	20170520
US2018092313 AA	20180405	US20170832789	20171206
US2018332787 AA	20181122	US20170600716	20170520
US9839103 BB	20171205	US20160359797	20161123
US9867263 BB	20180109	US20170600719	20170520
WO16110833 A2	20160714	WO20151L51172	20151202
WO16110833 A3	20160825	WO20151L51172	20151202

Priority:

US20150100078P 20150106 WO2015IL51172 20151202 US20160359797 20161123
US20170600719 20170520 US20170600716 20170520 US20170832789 20171206

Probable Assignee: CMOO SYSTEMS LTD**Assignee(s):** (std): CMOO SYSTEMS LTD ; CMOO SYSTEMS LTD ; LEO DANIEL MICHAEL**Inventor(s):** (std): AVRAHAM AVRAHAM ; LEO DANIEL MICHAEL**Agent(s):** BECKER KURIG STRAUS; MAY PATENTS LTD; MAY PATENTS LTD C O DORIT SHEM TOV; BINDER SHEM TOV DORIT**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**86) Family number: 73265914 (US2019056147A)**

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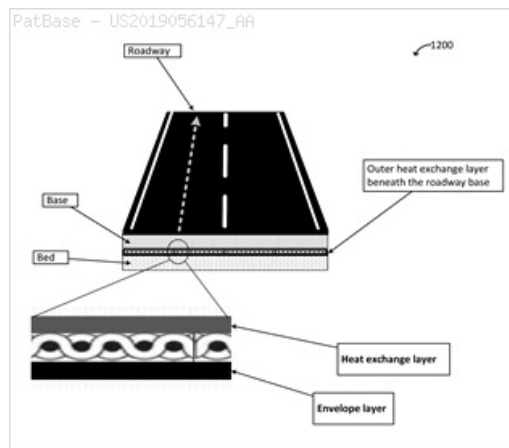
Title: THIN MULTI-CHANNEL HEAT EXCHANGER

Abstract: Technologies are disclosed herein for a thin heat exchanger through which coolant may be pumped. The heat exchanger may include an envelope and a heat conduction layer provided over the envelope. The envelope may include one or more channels formed therein. The channels formed between the envelope and the conduction layer may extend the length of the heat exchange layer and be configured to carry coolant therethrough. The heat exchange layer may include an inlet manifold on a first end and an outlet manifold on another end opposing the first end. The inlet manifold may allow the flow of coolant into the heat exchange layer and the outlet manifold may allow the removal of the coolant from the heat

exchange layer. Coolant flow may be controlled by a suction pump operating under computer control based at least in part on sensor data.

Classifications:

International (IPC 8-9): B23P15/26 F24S10/50 F24S70/30 F24S80/453 (Advanced/Invention)
CPC: F24S10/502 F24S80/453 F24S70/30 B23P15/26 F24S10/30 F24S10/80 F24S20/02 F24S20/20 F24S20/64 F24S20/66 F24S20/67 F24S40/60 F24S50/00 F24S80/10 F24S80/30 F24S90/00 F25B39/04 F28D20/0034 F28D21/0001 F28D21/0003 F28D21/0005 F28D2020/006 F28D2021/0043 F28F3/12 G06F1/20 H01L35/30 H01M10/613 H02S40/42
US: 126/646



Family:

Publication number	Publication date	Application number	Application date
US2019056147 AA	20190221	US20180914636	20180307

Priority:

US20170546286P 20170816 US20180914636 20180307

Probable Assignee: BRISEBOIS ART

Assignee(s): (std): BRISEBOIS ART

Inventor(s): (std): BRISEBOIS ART

87) Family number: 70859918 (WO18148796A1)

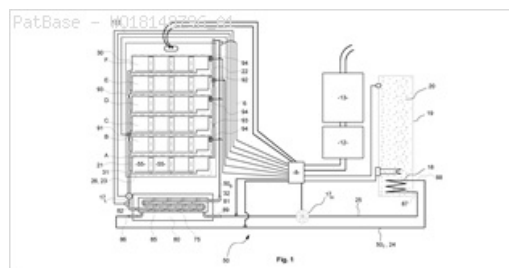
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Title: APPARATUS AND SYSTEM FOR GENERATING ELECTRICITY WITH INTERFACED HEAT EXCHANGE

Abstract: An apparatus for generating electricity comprises a solar panel having a plurality of photovoltaic cells, a plurality of heat sink tiles and a first heat exchanger in a first low pressure circulation system having a first low pressure pump for circulating a first coolant. The low pressure circulation system interfaces with an interface heat exchanger in order to transfer heat to second coolant in second circulation system having a third heat exchanger disposed in a water storage tank. A second pump circulates the second coolant. A plurality of valves in the first heat exchanger may be opened or closed to allow variability in the flow path.

Classifications:

International (IPC 8-9): H01L31/0525 H02S40/42 H02S40/44 (Advanced/Invention)
CPC: Y02E10/50 Y02E10/60 H01L31/0547 H02S40/42 H02S40/44



Family:

Publication number	Publication date	Application number	Application date
WO18148796 A1	20180823	WO2018AU50119	20180215

Priority:

AU20170900476 20170215

Probable Assignee: QINGDAO AUSTECH SOLAR TECH CO LTD

Assignee(s): (std): QINGDAO AUSTECH SOLAR TECH CO LTD

Assignee(s): QINGDAO AUSTECH SOLAR TECHNOLOGY CO LTD

Inventor(s): (std): WEBB ROGER CLYDE ; WEBB MARIA ANNA

Agent(s): PAPPAS IP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

88) Family number: 30458924 (US2004065101A)

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Title: VEHICLE CLIMATE CONTROL SYSTEM

Abstract: A climate control system for a passenger compartment of a vehicle is provided that includes a ventilation fan for facilitating movement of air out of the passenger compartment of the vehicle. The fan is selectively controlled by an electronic control unit, which receives a signal from a temperature sensor indicating that operation of the fan is needed. A plurality of thermoelectric devices are used to control the temperature of the ambient air in the passenger compartment. In addition, the vehicle seats are each equipped with at least one thermoelectric device to heat and cool each seat individually.

A retractable window cover may optionally be provided to reduce transmission of infrared light into the vehicle interior. The combination of the ventilation fan, the thermoelectric devices for each seat and for the ambient air, and the optional retractable window cover allows for the elimination of the vehicle's central air conditioning system.

Classifications:

International (IPC 8-9): B60H1/00 B60J1/20 (Advanced/Invention); B60H1/00 B60J1/20 (Core/Invention)

International (IPC 1-7): B60H1/32 F25B21/02 F25B9/00

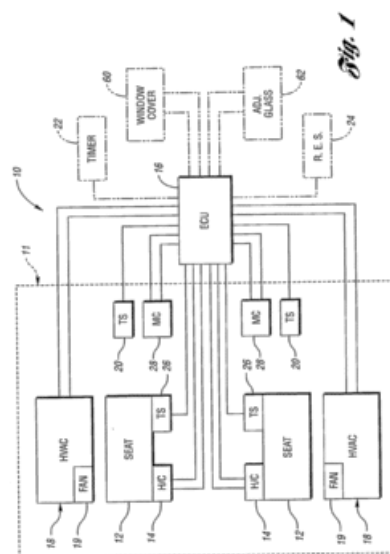
CPC: B60H1/0073 B60H1/00742 B60H1/00478 B60H1/00592 B60H1/00642 B60H1/00828 B60H2001/00192 B60J1/2016 B60J1/2019

European: B60H1/00L B60H1/00S4 B60H1/00Y B60H1/00Y5A B60H1/00Y6A1 B60J1/20B1C B60J1/20B1P L60H1/00A2W1

US: 62/244 62/244P 62/3.3 62/3.300S 62/6 62/6S

PatBase - US2004065101_AA

Patent Application Publication Apr. 8, 2004 Sheet 1 of 3 US 2004/0065101 A1



Family:

Publication number	Publication date	Application number	Application date
US2004065101 AA	20040408	US20020266972	20021008

Priority:

US20020266972 20021008

Probable Assignee: LEAR CORP

Assignee(s): (std): LEAR CORP

Inventor(s): (std): DEPUE TODD ; KRUPP ERIC ; PALAZZOLO JACK

89) Family number: 41553933 (US2008051957A)

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Title: IMAGE PROCESSING FOR VEHICULAR APPLICATIONS APPLYING IMAGE COMPARISONS

Abstract: Vehicle including a compartment receivable of an object and a system for tracking the object includes at least one imaging device each arranged to receive an image of a portion of the compartment containing the object and a control unit coupled to each imaging device and which controls the imaging device to obtain a first set of images without the object and at least one second image including the object. The control unit analyzes the second image(s) in consideration of the first set of images to derive information about the object. This information may be the type, size and/or position of the object or a part thereof. The information may be used to control vehicular components which have a variable use based on the type, size or position of the object or part thereof.

Classifications:

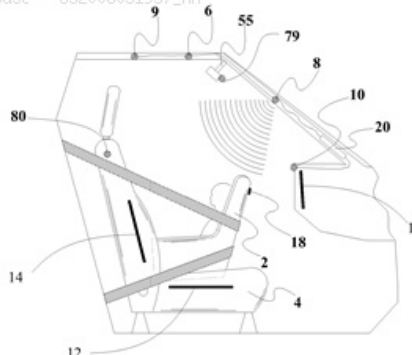
International (IPC 8-9): G06F7/00 G06K9/00 (Advanced/Invention); G06F7/00 G06K9/00 (Core/Invention)

CPC: B60R21/01552 B60R21/0152 B60R21/0153

European: B60R21/015 L60R21/015G6 L60R21/015G9

US: 382/100 382/104 701/36 701/36P

PatBase - US2008051957_AA



Family:

Publication number	Publication date	Application number	Application date
US2008051957 AA	20080228	US20070870472	20071011
US7676062 BB	20100309	US20070870472	20071011

Priority:

US20020234436 20020903

US20020302105 20021122

US20030413426 20030414

US20030733957 20031211

US20040895121 20040721

US20040931288 20040831

US20040940881 20040913

US20050025501 20050103

US20060455497 20060619

US20060502039 20060810 US20060538934 20061005 US20060558314 20061109
 US20060558996 20061113 US20060614121 20061221 US20070619863 20070104
 US20070841056 20070820 US20070870472 20071011

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): AUTOMOTIVE TECH INT

Assignee(s): AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AMERICAN VEHICULAR SCIENCES LLC

Inventor(s): (std): BREED DAVID S ; CHEN TIE QI

Inventor(s): BREED DAVID

Agent(s): BRIAN ROFFE ESQ; BRIAN

90) Family number: 61183943 (US2016313744A)

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Title: SYSTEM AND METHOD FOR PROVIDING AND MANAGING ELECTRICITY

Abstract: A system and method for providing power to and monitoring the energy usage includes at least one electrical control unit having an unmanned vehicle, at least one electrical control unit, a sensor enabled to monitor a given condition; a power source; a processor configured to be in communication with the at least one sensor and said power source, said processor further configured to manage communications with said management system; an unmanned vehicle releasably coupled to said electrical control unit, said processor being adapted to release said unmanned vehicle to enable the unmanned vehicle to separate from said electrical control unit, wherein said sensor is enabled to monitor at least one of the following: voltage, current, real power, apparent power, reactive power, frequency, total harmonic distortion, arc fault, plug loads, power factor, GFI, AFI, light, temperature, humidity, methane, carbon monoxide, motion, thermal, occupancy, radio frequency, audio, video, infrared, and combinations thereof and wherein said unmanned vehicle can travel to various locations.

Classifications:

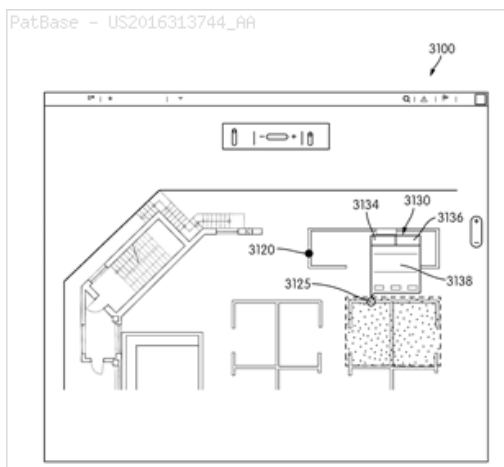
International (IPC 8-9): B64C19/00 B64C27/08 B64C39/02 B64D47/08 G05D1/00 G05D1/10 G06Q10/08 (Advanced/Invention)

CPC: B64C2201/027 B64C2201/06 G05D1/101 B64C27/08

B64C39/024 B64D47/08 G01R15/142 G01R19/2513 G01R22/063 H04Q9/00 H04Q2209/40 H04Q2209/43

US: 701/3

PatBase - US2016313744_AA



Family:

Publication number	Publication date	Application number	Application date
US2016313744 AA	20161027	US20150693600	20150422
WO15195202 A2	20151223	WO2015US27172	20150422
WO15195202 A3	20160407	WO2015US27172	20150422

Priority:

US20140982752P 20140422 US20150693600 20150422

Probable Assignee: N2 GLOBAL SOLUTIONS INC

Assignee(s): (std): AMELIO ALFONSO ; AMELIO PAUL ; KATZ DAVID ; N2 GLOBAL SOLUTIONS INC

Assignee(s): HILLCREST ACQUISITIONS 2015 LLC

Inventor(s): (std): AMELIO PAUL ; KATZ DAVID ; AMELIO ALFONSO

Agent(s): HEIDELBERGER LOUIS M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

91) Family number: 49050950 (EP2333855A1)

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Title: Energy recuperation for outside plant deployments

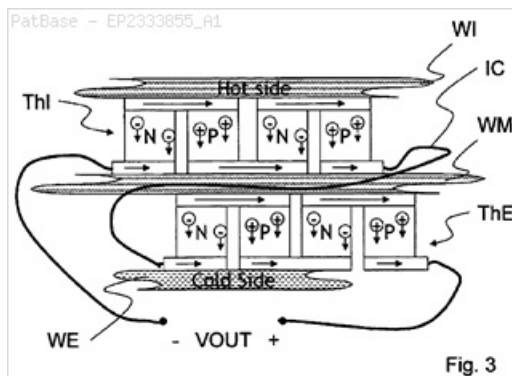
Abstract: An outside plant cabinet such as a telecommunication street cabinet housing telecommunication equipment dissipating heat, and of which at least one lateral wall is provided with series connected thermo-electric recuperation cells (ThR) operating according the Seebeck effect. The wall comprises an internal side (WI), an external side (WE) and, in a preferred embodiment, an intermediate side (WM), which all are heat conducting. The sides are in thermal contact with the thermo-electric recuperation cells, which generate electricity (VOUT-/+) derived from the temperature difference between these walls. The recuperated energy can be used to feed the internal equipment.

Classifications:

International (IPC 8-9): H01L35/32 H05K7/20 (Advanced/Invention)

CPC: H01L35/325 H05K7/20536

European: H01L35/32C H05K7/20R



Family:

Publication number	Publication date	Application number	Application date
EP2333855 A1	20110615	EP20090290932	20091211

Priority:

EP20090290932 20091211

Probable Assignee: ALCATEL LUCENT

Assignee(s): (std): ALCATEL LUCENT

Inventor(s): (std): CONTENT JURGEN ; PINTELTON JOHAN

Agent(s): NARMON GISELE MARIE THERESE

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

92) Family number: 72076987 (US2018342978A)

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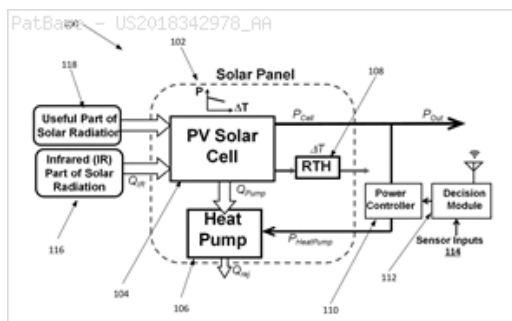
Title: METHOD AND APPARATUS FOR A SOLAR PANEL

Abstract: A system comprises a smart hybrid solar panel that employs a self-powered adaptive temperature control. Active temperature regulation may be implemented using a heat pump such as thermoelectric (TE) cooling modules and a switching circuit with variable duty cycle that periodically diverts the photovoltaic solar cell's output to the heat pump. A control system may algorithmically adjust the switching duty cycle to maximize the net power output of the panel based on a variety of sensory inputs and/or algorithms. The variety of sensory inputs may include weather forecast information, internal panel temperature, ambient air temperature, panel output voltage and current and humidity. The photovoltaic solar cells and heat pump are mechanically integrated.

Classifications:

International (IPC 8-9): H01L35/28 H02J3/14 H02J3/38 H02J3/46 H02S40/30 H02S40/42 (Advanced/Invention)

CPC: H02S40/42 H02S40/30 H02J3/14 H02J3/383 H02J3/46 H01L35/28



Family:

Publication number	Publication date	Application number	Application date
US2018342978 AA	20181129	US20170604306	20170524
US2018342979 AA	20181129	US20180890183	20180206

Priority:

US20170604306 20170524

US20180890183 20180206

Probable Assignee: JOARDAR TIASHA

Assignee(s): (std): JOARDAR TIASHA

Inventor(s): (std): JOARDAR TIASHA