

PatBase - Search results 08 September 2020

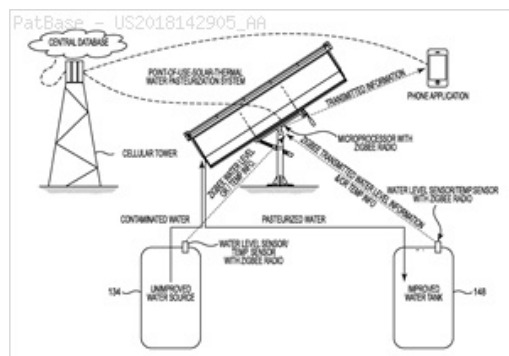
Search query (4): fn=(69818780^380 or 62525952^170 or 48066282^165 or 75510456^160 or 63846519^145 or 43754375^145 or 58286828^140 or 47304576^140 or 30230286^140 or 11338171^140 or 1549106^140 or 65428705^135 or 1549019^135 or 76161618^130 or 66054108^130 or 64591061^130 or 62458052^130 or 60544457^130 or 48495578^130 or 46563227^130 or 44240414^130 or 43615994^130 or 30610217^130 or 24711339^130 or 71242556^125 or 68076238^125 or 61842924^125 or 55662645^125 or 55317760^125 or 55003200^125 or 54711205^125 or 50475145^125 or 76264137^120 or 50957668^120 or 49556430^120 or 49044259^120 or 48326887^120 or 45887565^120 or 43056293^120 or 43037809^120 or 29377341^120 or 11320356^120 or 1887830^120 or 68878718^115 or 68333548^115 or 66076368^115 or 65424995^115 or 64905723^115 or 60460603^115 or 55543444^115 or 51935318^115 or 51931868^115 or 50845913^115 or 66715007^110 or 65005290^110 or 64978780^110 or 63939768^110 or 63939762^110 or 63939753^110 or 63863130^110 or 63857981^110 or 63395178^110 or 53672577^110 or 53000388^110 or 51227823^110 or 49958492^110 or 49514182^110 or 47543610^110 or 46843001^110 or 44921623^110 or 42409200^110 or 32472367^110 or 32383170^110 or 32018314^110 or 30831421^110 or 30026830^110 or 29081281^110 or 22075279^110 or 21709629^110 or 10956528^110 or 7514961^110 or 6007349^110 or 3554364^110 or 1099099^110 or 65274459^105 or 62232186^105 or 61906932^105 or 58901122^105 or 58243832^105 or 57801045^105 or 56780947^105 or 56395213^105 or 54705325^105 or 51793214^105 or 51340732^105 or 48746530^105 or 46713217^105 or 45945764^105 or 42970581^105 or 76994734^100)

Results: 100**1) Family number: 69818780** (US2018142905 AA)

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Title: DIGITAL FLUID HEATING SYSTEM

Abstract: A digital fluid heating system may include a solar collection system configured for focusing sunlight on a focal axis, an elongated flow element arranged and configured for transporting fluid along the solar collection system at the focal axis, and a flow-control assembly comprising a digitally controlled valve configured to control the flow of the fluid in the elongated flow element such that pathogens present in the fluid are substantially inactivated before the fluid exits the fluid heating system and at a maximized flow rate under the given energy providing conditions. The system may also include one or more digital controls and communication systems for remote and/or automatic control.

Classifications:**International (IPC 8-9):** C02F1/14 F24D17/00 F24D3/08 F24S20/20 F24S23/74**International (IPC 1-7):** C02F1/14**CPC:** C02F1/14 F24D17/0021 F24D3/082 F24S20/20 F24S2050/25 F24S23/74 F24S30/428 F24S30/452 F24S50/20 F24S50/40 F24S80/30 Y02A20/212 Y02B10/20 Y02B10/70 Y02E10/40 Y02E10/47 Y02W10/37**US:** 1/1 126/601**Family:**

Publication number	Publication date	Application number	Application date
BR112019009923 A2	20190917	BR20191109923	20171120
CN110177981 A	20190827	CN201780083752	20171120
CO20190006027 A2	20190731	CO20190006027	20190610
EP3542107 A1	20190925	EP20170809139	20171120
IN201937023440 A	20190809	IN201937023440	20190613
PE20191072 A1	20190816	PE20190001011	20171120
US2018142905 AA	20180524	US20170818052	20171120
WO18094330 A1	20180524	WO2017US62558	20171120
WO18094330 A9	20180802	WO2017US62558	20171120

Priority:

US20160423814P 20161118

WO2017US62558 20171120

US20170818052 20171120

Probable Assignee: WTS LLC**Assignee(s):** (std): WTS L L C**Assignee(s):** WTS有限公司**Inventor(s):** (std): ABRAHAM JOHN ; ANDREW GIKLING ; BRIAN PLOURDE ; DOUGLAS PLOURDE ; GIKLING ANDREW ; GIKLING ANDY ; JOHN ABRAHAM ; PAKONEN RICHARD ; PLOURDE BRIAN ; PLOURDE DOUGLAS ; RICHARD PAKONEN**Inventor(s):** A 戈科林 ; A·戈科林 ; B 普罗德 ; B·普罗德 ; D 普罗德 ; D·普罗德 ; J 阿伯拉翰 ; J·阿伯拉翰 ; R 帕科恩 ; R·帕科恩**Agent(s):** BARKER BRETTELL LLP ; KLEIN BRETT A ET AL ; 上海专利商标事务所有限公司 31100 ; 江漪**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 LT 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**2) Family number: 62525952** (US2016153681 AA)

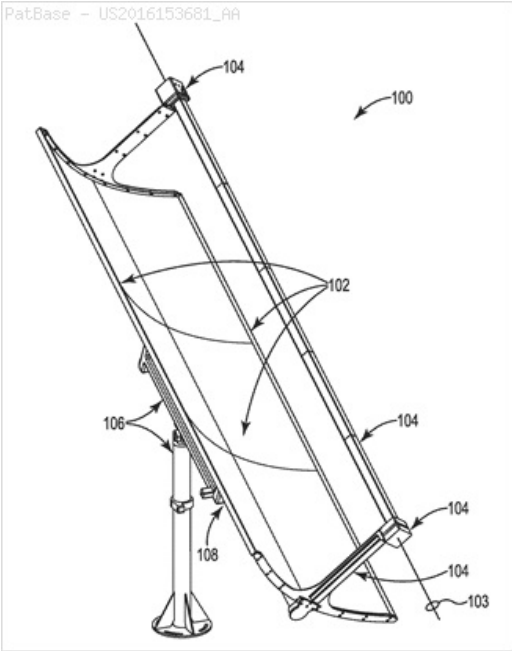
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Title: FLUID HEATING SYSTEM

Abstract: A fluid heating system may include a solar collection system configured for focusing sunlight on a focal axis, an elongated flow element arranged and configured for transporting fluid along the solar collection system at the focal axis, and a flow-control assembly comprising thermostatic valves configured to control the flow of the fluid in the elongated flow element such that pathogens present in the fluid are substantially inactivated before the fluid exits the fluid heating system. A method of operating a fluid heating system wherein the fluid heating system comprises a parabolic solar collector and a support structure may also be provided.

Classifications:

International (IPC 8-9): C02F1/02 F16K24/04 F24J2/07 F24J2/12 F24J2/14 F24J2/20 F24J2/38 F24J2/40 F24J2/54 F24S10/50 F24S20/20 F24S23/71 F24S23/74 F24S25/12 F24S30/45 F24S30/48 F24S50/20 F24S50/40 G01N25/00 G01N33/18 G01S19/01 G01S3/786 G05D23/185 G05D3/10 G05D3/12
CPC: F16K24/042 F24J2/38 F24J2/5417 F24S20/20 F24S23/74 F24S30/45 F24S40/40 F24S50/20 F24S50/40 F28F2265/20 G01S19/01 G01S3/7861 G05D23/1852 G05D3/105 G05D3/12 Y02E10/40 Y02E10/47 Y02W10/37 F24S30/428 G01N25/00 G01N33/1826
US: 1/1 126/586 126/600 126/601 126/690 137/202 236/101A 236/101B 250/203.4 374/45



Family:

Publication number	Publication date	Application number	Application date
CN107250687 A	20171013	CN201580075218	20151201
CN107429945 A	20171201	CN201580075224	20151201
CN107429945 B	20200703	CN201580075224	20151201
EP3227618 A1	20171011	EP20150808528	20151201
EP3227619 A1	20171011	EP20150816974	20151201
IN201737018676 A	20170825	IN201737018676	20170527
IN201737018679 A	20170825	IN201737018679	20170527
US10168412 BB	20190101	US20150954091	20151130
US10495720 BB	20191203	US20150954318	20151130
US2016153681 AA	20160602	US20150954292	20151130
US2016153920 AA	20160602	US20150954383	20151130
US2016154082 AA	20160602	US20150954091	20151130
US2016154412 AA	20160602	US20150954318	20151130
US2019107598 AA	20190411	US20180196251	20181120
WO16089875 A1	20160609	WO2015US63196	20151201
WO16089885 A1	20160609	WO2015US63208	20151201

Priority:

US20140085699P 20141201 US20150259748P 20151125 US20150954318 20151130
US20150954383 20151130 US20150954091 20151130 US20150954292 20151130
WO2015US63208 20151201 WO2015US63196 20151201 US20180196251 20181120

Probable Assignee: WTS LLC

Assignee(s): (std): ABRAHAM JOHN ; GIKLING ANDY ; NAUGHTON NOEL ; PAKONEN RICHARD ; PLOURDE BRIAN ; PLOURDE DOUGLAS ; WTS LLC
Assignee(s): WTS有限公司
Inventor(s): (std): ABRAHAM JOHN ; GIKLING ANDY ; NAUGHTON NOEL ; PAKONEN RICHARD ; PLOURDE BRIAN ; PLOURDE DOUGLAS
Inventor(s): A 戈科林 ; A·戈科林 ; B 普罗德 ; B·普罗德 ; D 普罗德 ; D·普罗德 ; J 阿伯拉翰 ; J·阿伯拉翰 ; N 诺顿 ; N·诺顿 ; R 帕科恩 ; R·帕科恩
Agent(s): KLEIN BRETT A ET AL; LAWRENCE JOHN; SCHWEGMAN LUNDBERG AND WOESSNER PA; WINTHROP AND WEINSTINE PA; 上海专利商标事务所有限公司 31100; 朱立鸣
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

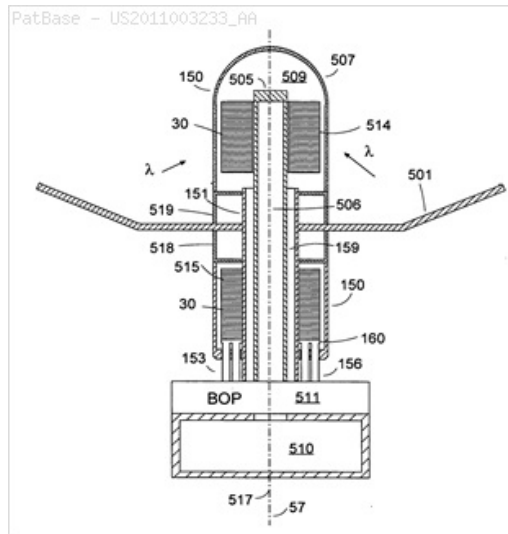
Abstract: A monolithic electrolytic assembly (MEA), as well as associated structures and processes operative in the general field of solid oxide electrolytic devices, is disclosed. The invention provides a reliable and durable interconnect for both structural and electrical components of such devices. In the present invention, thin-film-based solid oxide fuel cells and solid oxide oxygen/hydrogen generators may be fabricated using primarily solid metal alloys as underlying components of thin film and thick film structures built thereon.

Classifications:

International (ipc 8-9): B01D53/32 B64F1/04 C23F1/02 C25B9/00 C25B9/08 F24J2/04 F24J2/05 F24J2/07 F24J2/12 F24J2/14 F24J2/24 F24J2/30 F24J2/34 F24J2/38 F24J2/46 F24S10/30 F24S10/40 F24S10/70 F24S20/20 F24S23/70 F24S23/71 F24S23/74 F24S23/75 F24S50/20 F41F1/00 F41F3/04 F41F3/08 G02B27/44 G02B5/08 G02B5/10 H01L31/042 H01L31/052 H01L31/054 H01M4/04 H01M8/00 H01M8/02 H01M8/10 H01M8/24 H02N6/00 H02S40/22 H02S40/44 H04W48/00 H04W76/00 H04W8/24 H04W8/26

CPC: H01M2008/1293 H01M4/881 H01M8/1246 Y02E60/50 Y02P70/50 B01D2255/802 B01D2256/12 B01D2256/16 B01D53/22 B01D53/326 C25B9/10 H01M8/2404 H01M8/2435 H01M8/2483 F24S10/45 F24S20/20 F24S23/74 H01L31/0525 H01L31/0547 Y02E10/40 Y02E10/44 Y02E10/52 F24S2025/017 F24S2030/11 F24S2030/15 F24S23/71 F24S23/75 F24S23/82 F24S25/10 F24S30/45 H02S40/44 H04W48/17 H04W76/10 H04W76/32 H04W76/50 H04W8/24 H04W8/26 Y02B10/20 Y02B10/70 Y02E10/47 Y02E10/50 Y02E10/60 F24S20/40 F24S2030/145 F24S23/11 F24S23/80 F24S25/13 F24S30/452 F24S40/80 F24S80/20 F24S80/30 F24S80/50 F24S80/56 B64F1/04 F41F1/00 F41F3/0413 F41F3/08 G02B5/10 H02S40/22 F24J2/055 G02B5/0808 F24J2/46

US: 1/1 126/600 126/650 126/652 126/714 136/246 136/248 204/252 204/252S 204/260 204/260S 205/57 205/57S 216/39 216/39S 370/328 429/482 429/482P 429/483 429/483P 429/495 429/495S 429/535 429/535S



Family:

Publication number	Publication date	Application number	Application date
IN03995KN2012 A	20160826	IN2012KN03995	20121214
US2011003233 AA	20110106	US20100803213	20100621
US2012171596 AA	20120705	US20100261202	20100804
US2013319501 AA	20131205	US20110261486	20110111
US2015229267 AA	20150813	US20150544668	20150202
US2017038096 AA	20170209	US20150816580	20150803
US2017047887 AA	20170216	US20160338392	20161030
US2018124839 AA	20180503	US20170854823	20171227
US2019071189 AA	20190307	US20180121629	20180905
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US2020011571 AA	20200109	US20190576793	20190920
US9097437 BB	20150804	US20110261486	20110111
WO11016865 A2	20110210	WO2010US02178	20100804
WO11016865 A3	20110630	WO2010US02178	20100804
WO11084902 A2	20110714	WO2011US00050	20110111
WO11084902 A3	20111124	WO2011US00050	20110111
WO11149554 A1	20111201	WO2011US00966	20110526
WO18125947 A2	20180705	WO2017US68609	20171227
WO18125947 A3	20180907	WO2017US68609	20171227

Priority:

US20090269054P	20090619	US20090273428P	20090804	US20100335755P	20100111
US20100337338P	20100201	WO2011US00966	20100331	US20100396387P	20100526
US20100397275P	20100608	US20100803213	20100621	US20100261202	20100804
WO2010US02178	20100804	US20100455576P	20101023	WO2011US00050	20110111
US20110261486	20110111	WO2011US00966	20110526	US20130261486	20130304
WO2013US00063	20130309	WO2013US00063	20130409	US20140261526	20140102
US20150544668	20150202	US20150816580	20150803	US20160338392	20161030
US20160498505P	20161227	US20170544668	20170719	US20170854823	20171227
WO2017US68609	20171227	US20180121629	20180905	US20190365430	20190326
US20190453990	20190626	US20190576793	20190920		

Probable Assignee: HILLIARD DONALD BENNETT

Assignee(s): (std): HILLIARD DONALD B ; HILLIARD DONALD BENNET ; HILLIARD DONALD BENNETT

Inventor(s): (std): HILLIARD DONALD ; HILLIARD DONALD B ; HILLIARD DONALD BENNET ; HILLIARD DONALD BENNETT

Agent(s): DONALD HILLIARD; HILLIARD DONALD BENNETT

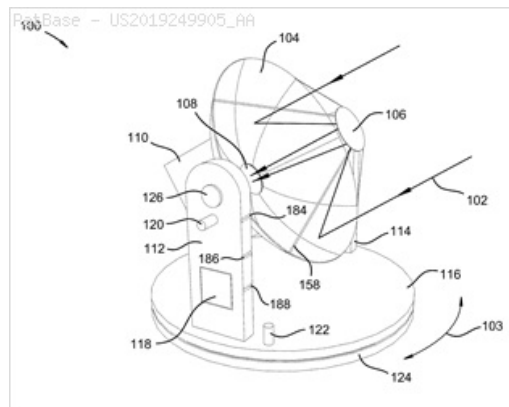
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN 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

Abstract: A solar energy heating system includes a first parabolic reflector and a second parabolic reflector. The first parabolic reflector reflects sunlight into the second parabolic reflector and the second parabolic reflector reflects substantially all of the sunlight through an opening in the first parabolic reflector. A heat transfer system transfers collected solar heat to one or more of a house, a building, a tent, a swimming pool, a steam generator, a radiant heater, a dwelling, a heat storage unit, a thermal battery, or a thermal electric generator.

Classifications:

International (IPC 8-9): F24S20/20 F24S23/74 F24S30/40 F24S50/20

CPC: F24S20/20 F24S2030/134 F24S2050/25 F24S23/71 F24S23/74 F24S23/79 F24S30/40 F24S30/452 F24S50/20 F24S60/00 Y02B10/20 Y02E10/40 Y02E10/47



Family:

Publication number	Publication date	Application number	Application date
US2019249905 AA	20190815	US20180896058	20180214

Priority:

US20180896058 20180214

Assignee(s): (std): MALONE STEVEN J ; PEMBER II KEITH V

Inventor(s): (std): MALONE STEVEN J ; PEMBER II KEITH V

5) Family number: 63846519 (US9476611 BA)

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Title: SOLAR ASSEMBLY FOR PRODUCTION OF ETHANOL, ELECTRICITY, POTABLE WATER, OR COMBINATIONS THEREOF

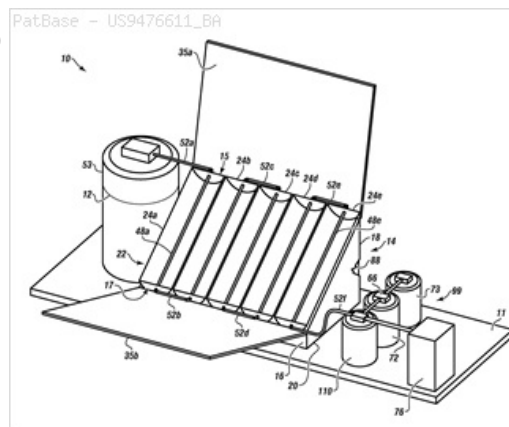
Abstract: A modular and portable motorized solar concentrator assembly for production of ethanol, electricity, potable water, or combinations thereof can include a housing and a reflective array. An airtight chamber is formed in the reflective array, and ancillary reflective concentrators can provide addition solar radiation thereto. An inert gas in the airtight chamber can form a low-humidity and air-free environment. The portable motorized solar concentrator assembly can engage an electricity producing plant, a desalination plant, an ethanol producing plant, or combinations thereof.

Classifications:

International (IPC 8-9): B01D3/00 F03G6/06 F24J2/00 F24J2/07 F24J2/10 F24J2/12 F24J2/14 F24J2/38 F24S20/20 F24S23/70 F24S23/71 F24S23/74 F24S50/20

CPC: B01D1/0035 B01D3/00 B01D5/006 C02F1/14 C02F1/18 F03G2006/061 F03G2006/062 F03G6/065 F24S20/20 F24S2020/12 F24S2020/23 F24S2023/834 F24S2023/835 F24S2023/86 F24S2030/15 F24S2080/03 F24S23/74 F24S23/77 F24S23/82 F24S30/45 F24S50/20 F24S80/54 Y02A20/00 Y02A20/124 Y02A20/142 Y02A20/208 Y02A20/211 Y02A20/212 Y02E10/40 Y02E10/46 Y02E10/47 Y02P70/10

US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US9476611 BA	20161025	US20130923254	20130620

Priority:

US20130923254 20130620

Probable Assignee: SB ENERGY LLC

Assignee(s): (std): SB ENERGY LLC

Inventor(s): (std): BARRY CHASKEY N ; SHBEEB NAYEF F ; SHBEEB SAMI N

Agent(s): BUSKOP LAW GROUP PC; WENDY

6) Family number: 43754375 (US2011017273 AA)

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Title: CONCENTRATED SOLAR HEATING

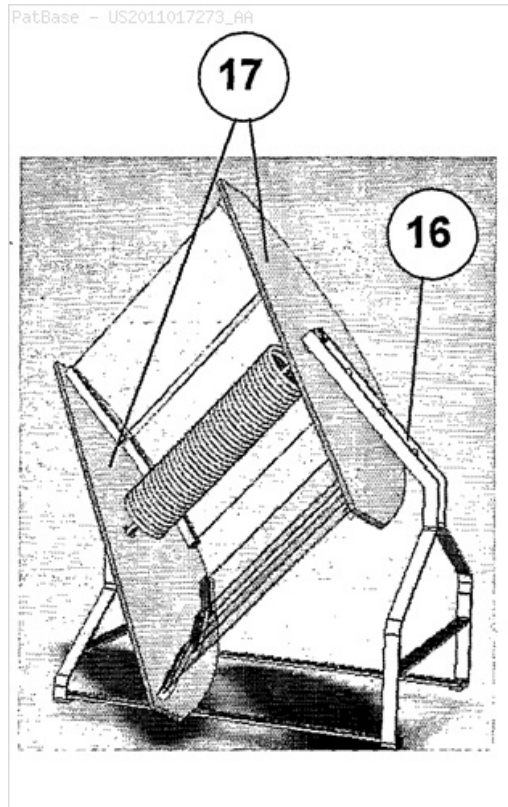
Abstract: A system for concentrating solar energy comprising a collector consisting of a number of reflective panels, a receiver which absorbs reflected energy, a working fluid which absorbs the energy, a highly transmissive cover and internal colorings or coatings to collect indirect radiation, and a solar tracking system to maintain reflector orientation. Optional photo-voltaic panels could also be used for providing electrical energy and are kept at near ambient temperatures. Under normal conditions, solar energy is concentrated by reflectors on the receiver, which transfers the energy to a working fluid which is then used for either hot water heating, desiccant drying for a solar air conditioner, or as a power source. Additional energy is collected from indirect sources using the greenhouse effect.

Classifications:

International (IPC 8-9): F24D3/12 F24J F24J2/04 F24J2/05 F24J2/07 F24J2/10 F24J2/12 F24J2/14 F24J2/24 F24J2/38 F24J2/40 F24J2/46 F24J2/51 F24J2/52 F24J2/54 F24S10/40 F24S10/70 F24S20/20 F24S23/70 F24S23/71 F24S23/74 F24S50/20 F28D15/00 H01L31/052 H01L31/0525 H01L31/054 H01L31/058 H02N H02N6/00 H02S40/44

CPC: F24D11/0221 F24D2200/02 F24D2200/14 F24S20/20 F24S23/74 F24S23/80 F24S50/20 F24S80/50 H01L31/0547 H02S40/44 Y02B10/20 Y02B10/40 Y02B10/70 Y02E10/40 Y02E10/52 Y02E10/60 F24S10/45 F24S10/70 F24S2023/872 F24S2025/6006 F24S23/82 F24S25/13 F24S30/425 F24S80/60 Y02E10/44 Y02E10/47 Y10T29/49355 H01L31/058 F24S10/25 F24S2023/834 F24S2023/86 H01L31/052 H02S20/30

US: 1/1 126/600 126/600S 126/651 126/651S 126/694 126/694S 136/246 136/248 29/890.033



Family:

Publication number	Publication date	Application number	Application date
EP2279380 A2	20110202	EP20090718934	20090312
IL208085 A0	20101230	IL20090208085	20090312
IL232983 A0	20140731	IL20120232983	20121203
US2011017273 AA	20110127	US20090921255	20090312
US2014048121 AA	20140220	US20130019472	20130905
US9349899 BB	20160524	US20130019472	20130905
WO09113073 A2	20090917	WO2009IL00283	20090312
WO09113073 A3	20100311	WO2009IL00283	20090312
WO13080202 A1	20130606	WO2012IL50478	20121203
ZA201007286 A	20110629	ZA20100007286	20101012

Priority:

US20080036086P 20080313	WO2009IL00283 20090312	US20090921255 20090312
WO2009IL00283 20091203	US20100921255 20100907	IL20100208085 20100912
US20110566608P 20111203	WO2012IL50478 20121203	US20130019472 20130905
IL20140232983 20140605		

Probable Assignee: LAW OFFICE OF MICHAEL E KONDOUDIS

Assignee(s): (std): ELI SCHWARTZ ; ELIEZER ABRAHAM SCHWARTZ ; GIORA NIR ; ROACH ROBERT ; ROBERT ROACH ; SAHAR G N INT LTD ; SAHAR G N INTERNAT LTD ; SAHAR G N LTD ; SCHWARTZ ELIEZER ABRAHAM

Assignee(s): LAW OFFICE OF MICHAEL E KONDOUDIS ; SAHAR G N INTERNATIONAL LTD

Inventor(s): (std): GIORA NIR ; NIR GIORA ; ROACH ROBERT ; ROACH ROBERT LANDON ; SCHWARTZ ELI ; SCHWARTZ ELIEZER ABRAHAM ; SHAMASH STEVEN

Inventor(s): ELI SCHWARTZ

Agent(s): DR EYAL BRESSLER LTD; KATZ ITZHAK; LAW OFFICE OF MICHAEL E KONDOUDIS; LECOMTE DIDIER; POLSINELLI PC

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 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 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

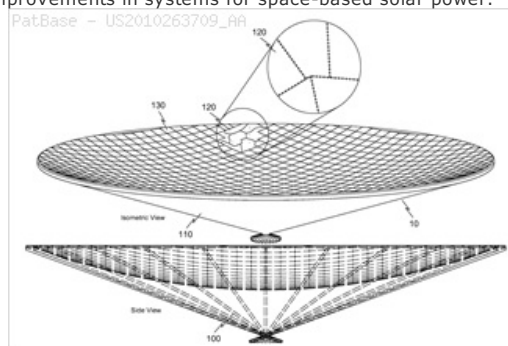
Abstract: The present invention is primarily directed to cost-effective systems for using large reflective elements that track the sun on two axes to concentrate solar energy onto a receiver that can convert the sun's optical energy to a form usable for extensive displacement of combustion of fossil fuels. The structures of the tracker frame, tracking mechanism and tracker supports are co-optimized with the optical elements and the receiver for high efficiency, low cost, and ease of assembly, making moderate and large-scale implementations cost-competitive with fossil fuels for peak power, and, with suitable storage, for base-load power and dispatchable peaking power in sunny locations. Improvement to small-tracker two-axis systems and one-axis tracking systems that focus in two dimensions are also included, as are improvements in systems for space-based solar power.

Classifications:

International (IPC 8-9): F24J F24J2/02 F24J2/04 F24J2/07 F24J2/10 F24J2/12 F24J2/14 F24J2/38 F24J2/52 F24J2/54 F24S20/20 F24S20/30 F24S23/70 F24S23/74 F24S23/74 F24S50/20 H01L H01L31/0232 H01L31/052 H01L31/0525 H01L31/054 H01L31/058 H02J3/14 H02S40/22 H02S40/42

CPC: B60L11/18 F24S20/20 F24S2020/18 F24S23/12 F24S23/71 F24S23/74 F24S23/745 F24S25/12 F24S25/13 F24S25/16 F24S30/45 F24S30/452 H01L31/0547 Y02B10/20 Y02B10/70 Y02E10/40 Y02E10/47 Y02E10/52 Y10T307/469 F24J2/07 F24J2/12 F24J2/145 F24J2/5232 F24J2/5233 F24J2/5239 F24J2/5417 F24J2/542 F24J2002/0405

US: 126/605 126/605S 126/680 126/680S 126/684 126/684S 136/246 307/39 307/39S



Family:

Publication number	Publication date	Application number	Application date
AU2010237550 AA	20111124	AU20100237550	20100409
CA2758039 AA	20111006	CA20102758039	20100409
EP2419680 A1	20120222	EP20100764001	20100409
EP2419680 A4	20150603	EP20100764001	20100409
GC4359 A	20160823	GC2010P015673	20100414
IN08611DN2011 A	20130111	IN2011DN08611	20111104
TN2011000516 A1	20130524	TN20110000516	20111104
US2010263709 AA	20101021	US20090424393	20090415
US9995507 BB	20180612	US20090424393	20090415
WO10118503 A1	20101021	WO2010CA00500	20100409
WO10118503 A9	20120105	WO2010CA00500	20100409
ZA201108284 A	20120829	ZA20110008284	20111111

Priority:

US20090424393 20090415 WO2010CA00500 20100409

Probable Assignee: GESTION TECHNOCAP INC

Assignee(s): (std): DAUPHIN PHILIPPE ; DE ST CROIX FREDERICK ; NORMAN RICHARD ; RICHARD NORMAN

Assignee(s): GESTION TECHNOCAP INC ; ريتشارد نورمان

Inventor(s): (std): DAUPHIN PHILIPPE ; DE ST CROIX FREDERICK ; FREDERICK DE ST CROIX ; NORMAN RICHARD ; PHILIPPE DAUPHIN ; RICHARD NORMAN

Inventor(s): ريتشارد نورمان ; فريدريك دي ستكرويكس ; فيليب داوفين

Agent(s): ANGLEHART ET AL; ANGLEHART ET AL ET AL; FRANK HYLAND; FRANK HYLAND PTY LTD; HEINE CHRISTIAN KLAUS; SULEIMAN I AL AMMAR LAW OFFICE; مكتب سليمان العمار للمحاماة والاستشارات القانونية

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

8) Family number: 30230286 (CA2260399 AA)

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Title: SOLAR WATER PURIFICATION CONE

Abstract: "The Solar Water Purifying Cone" utilizes four different methodologies. The sun light is reflected by means of a cone made up of 8 to 16 or more sides (31). (formula for calculating the no. of sides = the circumference / the dia of the middle core, rounded to the nearest even no. upward). Sun light is diverted @ right angles to the reflective sides (2) which are at 45 degree angles. After the sun light is diverted, it is focused through a magnifying collar (23) into 100 to 400 plus burn points, which focus through a glass sheath (17) onto the center core (18). The center core is made of copper coiled lobe (11) to which fluid travels through. These copper coils (11) are coated with a powder black coating able to withstand 1000 degrees of heat. The color black is used based on the known theory that black attracts or absorbs heat (11). The glass sheath (17) is fitted over the black coils as tightly as possible, this acts like a green house around the core (18). This glass sheath (17) shields the center core (18) from any wind. The magnifying collar (23) has a row of magnifiers (21) for each side of the reflective cone (31), this process focuses sun light into defined burn points which go through the glass sheath (17) onto the center core of copper coils (11). The coils (11) are bent around a hollow pipe (8) which is fastened to the center of the reflector cone (31). The reflector panels (1,2) are held in or on a steel frame (3) which pivots (27) on a steel tubular stand (28). This process and device also what we have termed as " Solar water purifying distilling condenser". With the same device, the center core (18) is cooled as the outside is heated by the reflective cone (31). There is a condensing of any humidity in the air which collects rapidly on the coils (11). Since this water has already been distilled by mother earth, this process is actively amplified by the cooling and heating of the coil center core (18). This device can boil water through the coils (11) or produce steam which will distill water or collects humidity from the air which condenses on the core coils (11) to water. The device is focused into the sun by means of a single magnifying glass (32) that produces a sun dot on the face of the middle core top plate (10). The device is positioned so that the dot is in the center of the core face (10,18).

Classifications:

International (IPC 8-9): C02F1/14 F24J2/00 F24J2/04 F24J2/05 F24J2/06 F24J2/07 F24J2/08 F24J2/10 F24J2/15 F24J2/24 F24J2/38 F24J2/48

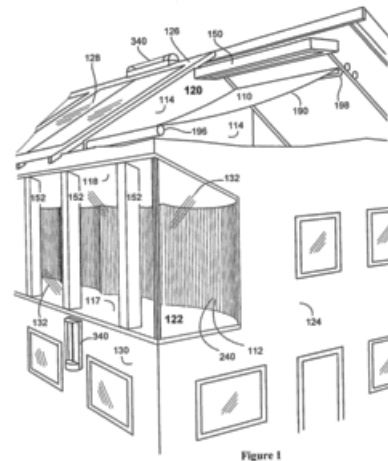


Figure 1

Family:

Publication number	Publication date	Application number	Application date
US5851309 A	19981222	US19960638481	19960426

Priority:

US19960638481 19960426

Probable Assignee:

KOUSA PAAVO

Assignee(s):

KOUSA PAAVO

Inventor(s): (std):

KOUSA PAAVO

10) Family number: 58286828 (US2016169560 AA)

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Title: SOLAR COLLECTOR ASSEMBLY

Abstract: A solar collector assembly (10) comprising a pipe (18) exposed to solar energy adapted to accommodate a fluid flow in such a way that the solar energy is transferred to the fluid, a heat pipe or any other energy guiding system or absorber; a reflector assembly (12) with a curved reflector (14) for focusing solar radiation in the range of the pipe (18), and an actuator (90, 64, 80) for moving the reflector assembly (12) in a way that the solar radiation is reflected in the direction of the pipe (12), is characterized in that means (30, 32) are provided for releasably fixing the reflector assembly (12) to the pipe (18), and the actuator (90, 64, 80) is fixed at the reflector assembly (12) or in the reflector assembly (12).

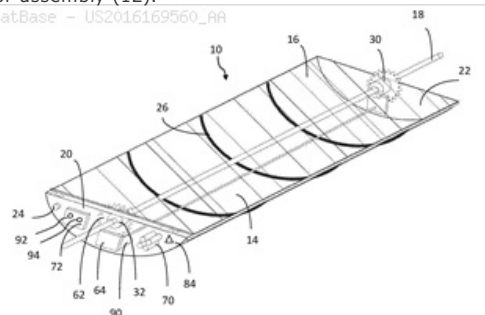
Classifications:

International (IPC 8-9): F24J2/07 F24J2/14 F24J2/38 F24J2/40 F24J2/46 F24J2/54 F24S20/20 F24S23/74 F24S25/63 F24S30/00 F24S30/425 F24S40/42 F24S40/50 F24S40/52 F24S40/57 F24S50/20 F24S50/40 F24S80/30

CPC: F24S20/20 F24S2030/15 F24S23/74 F24S30/425 F24S40/42 F24S40/50 F24S40/52 F24S40/57 F24S50/20 F24S50/40 F24S80/30 Y02E10/40 Y02E10/47

US: 126/600 126/714

PatBase - US2016169560_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2014289320 AA	20160204	AU20140289320	20140708
AU2014289320 BB	20180510	AU20140289320	20140708
BR112016000006 A2	20170725	BR20161100006	20140708
DE102013112607 A1	20150115	DE201310112607	20131115
DE502014009457 D1	20181011	DE201450009457T	20140708
EP3019797 A1	20160518	EP20140739104	20140708
EP3019797 B1	20180912	EP20140739104	20140708
ES2698128 T3	20190131	ES20140739104T	20140708

IL243514 A0	20160229	IL20140243514	20140708
IN07824CN2015 A	20160826	IN2015CN07824	20151218
IN339985 B	20200703	IN2015CN07824	20151218
TR201817801 T4	20181221	TR20180017801T	20140708
US10514186 BB	20191224	US20140903656	20140708
US2016169560 AA	20160616	US20140903656	20140708
WO15004113 A1	20150115	WO2014EP64556	20140708

Priority:

DE201310011780 20130710 DE201310112607 20131115 WO2014EP64556 20140708
EP20140739104 20140708

Probable Assignee: INNOVATIVE MOTION GMBH

Assignee(s): (std): INNOVATIVE MOTION GMBH

Inventor(s): (std): LEBERER THOMAS

Inventor(s): THOMAS LEBERER

Agent(s): ARPE MANUEL; FRASER OLD AND SOHN; LAZARIS IP; NUEKHET SERRA CORAL; WEISSE RENATE; WEISSE RENATE DIPL PHYS DR ING

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

11) Family number: 1549106 (US4238873 A)

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Title: APPARATUS FOR COLLECTING AND TRANSPORTING HEAT ENERGY

Abstract: The invention is an apparatus for collecting and transporting thermal energy as vaporized fluid. The vapor will flow from a heat absorption chamber and through a conduit to a point of use where it is condensed. The heat absorption chamber includes a sump in its lower portion to hold a puddle of fluid. A heat source directed against the chamber vaporizes the fluid therewithin and a replacement fluid supply connects with the chamber to maintain the level of the puddle during vaporization. The chamber of the preferred embodiment of the invention is an elongated heat absorption pipe mounted horizontally to maintain the puddle at the lower portion of the pipe. The heat absorption pipe is mounted in a solar collector to receive concentrated solar energy as from a reflector system.

Classifications:

International (IPC 8-9): F24D17/00 F24J2/04 F24J2/06 F24J2/14 F24J2/32 F24J2/40 F24J2/42 F24J2/44 F24S10/95 F24S23/74 F28D15/02

International (IPC 1-7): F24J3/02 F28D15/00

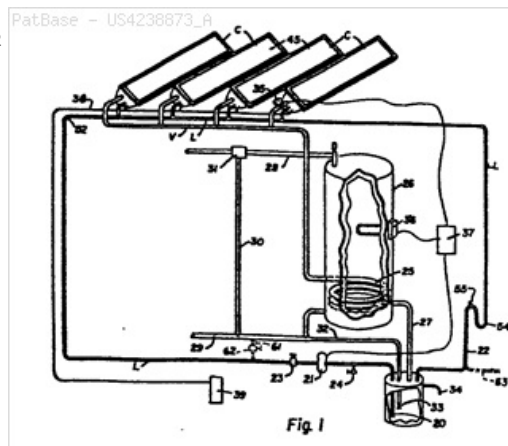
CPC: F24D17/0021 F24S10/90 F24S10/95 F24S23/74 F24S50/40

F24S80/30 Y02B10/20 Y02B10/70 Y02E10/40

US: 126/443 126/590 126/635 126/641 126/655 126/714

JP F-Term: 3L043/JA08 3L043/JB05 3L043/JC02

JP F-Index: F24J2/44@Z F24S10/70 F24S10/80 F28D15/02@X



Family:

Publication number	Publication date	Application number	Application date
CA1117389 A1	19820202	CA19780304772	19780605
DE2861705 D1	19820429	DE19782861705T	19781219
EP0003953 A1	19790919	EP19780101762	19781219
EP0003953 B1	19820324	EP19780101762	19781219
JP54121436 A2	19790920	JP19780158423	19781221
US4238873 A	19801216	US19780885501	19780313

Priority:

US19780885501 19780313 CA19780304772 19780605

Probable Assignee: ENTROPY LTD

Assignee(s): (std): ENTROPY LTD ; FRANK MATTHEW W ; OBERBECK DONALD E

Assignee(s): ENTROPY LIMITED

Inventor(s): (std): DONARUDO ERUMAA OOBABETSUKU ; FRANK MATTHEW W ; MASHIYUU UIRIAMU FURANKU ; OBERBECK DONALD E

Agent(s): FETHERSTONHAUGH AND CO

Designated states: BE CH DE FR GB NL SE

JP55146985 A2	19801115	JP19800045116	19800404
JP55147103 A2	19801115	JP19800045117	19800404
JP57007332 B4	19820210	JP19770082469	19770709
JP58008881 B4	19830218	JP19800045117	19800404
JP61018353 B4	19860512	JP19800045116	19800404
MX148802 A	19830622	MX19780173813	19780615
MX157648 A	19881208	MX19780192356	19780615
US4134393 A	19790116	US19760746065	19761130
US4191594 A	19800304	US19770866068	19771230
US4194949 A	19800325	US19770845862	19771031
US4210121 A	19800701	US19770806291	19770615
US4249516 A	19810210	US19790006165	19790124
US4312709 A	19820126	US19770866067	19771230

Priority:

FR19760020986 19760709	FR19760030248 19761008	US19760746065 19761130
US19770806291 19770615	US19770807513 19770620	CA19770282211 19770707
IL19770052482 19770707	IN1977CA01041 19770708	US19770845862 19771031
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US19790006165 19790124	CA19800357578 19800804	CA19800357577 19800804
IN1980CA01427 19801224	IN1980CA01428 19801224	IL19810063920 19810923
IL19810063921 19810923		

Probable Assignee: NORTH AMERICAN UTILITY CONSTRU

Assignee(s): (std): NORTH AMERICAN UTILITY CONSTRU ; ROUSSET PAUL ; STARK V ; STARK VIRGIL ; UIRGIL STARK ; VAYDA ALEXANDRE

Assignee(s): NORTH AMERICAN UTILITY CONSTRUCTION CORP ; STARK VIRGIL 936 FIFTH AVENUE NEW YORK NEW YORK 10021 ; VIRGIL STARK

Inventor(s): (std): AREKUSANDORU BUAIDA ; BUAAJIRU SUTAAKU ; POURU RUSE ; ROSSET P ; ROUSSET P ; ROUSSET PAUL ; STARK V ; STARK VIRGIL ; STARK VIRGIL FIFTH AVENUE NEW ; VAYDA A ; VAYDA ALEXANDRE ; VIRGIL STARK

Inventor(s): A VAYDA ; ALEXANDRE VAYDA ; AREKUSANDORU UAIDA ; BAAJIRU SUTAAKU ; HORU RUSE ; P ROUSSET ; PAUL ROUSSET ; STARK V VAYDA A AND ROUSSET P ; STARK VIRGIL 936 FIFTH AVENUE NEW YORK NEW YORK 10021 ; V STARK ; WIRD SPAETER GENANNT WERDEN

Agent(s): DAVIES COLLISON CAVE PTY LTD ; DM ; DR YITZHAK HESS AND PARTNERS ; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL ; OGILVY RENAULT ; OGILVY RENAULT LLP SENCRL SRL ; ד ר יצחק הס ושותפיו

13) Family number: 65428705 (US9624911 BA)

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Title: FLUIDIC SOLAR ACTUATOR

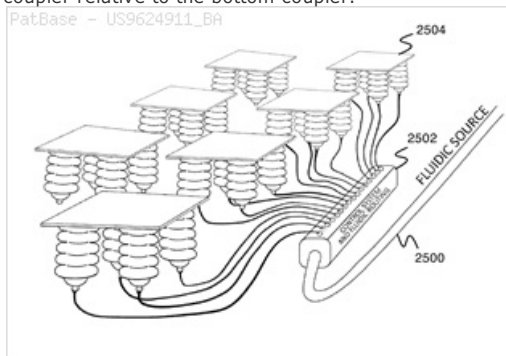
Abstract: A solar actuator comprises a top coupler, a bottom coupler, and a plurality of fluidic bellows actuators, wherein a fluidic bellows actuator of the plurality of fluidic bellows actuators moves the top coupler relative to the bottom coupler.

Classifications:

International (IPC 8-9): B25J18/06 B25J9/00 B25J9/14 F03G6/02
F16J3/04 F24J2/38 F24J2/40 F24S23/74 F24S30/00 F24S30/425
F24S30/428 F24S30/452 F24S30/48 F24S50/00 F24S50/20 H02S20/32
H02S40/00

CPC: B25J18/06 B25J9/00 B25J9/14 F03G6/02 F16J3/04 F24S2030/115
F24S2050/25 F24S23/74 F24S30/425 F24S30/428 F24S30/452 F24S30/48
F24S50/00 F24S50/20 H02S20/32 H02S40/00 Y02E10/40 Y02E10/46
Y02E10/47 Y02E10/50 Y10S901/22

US: 1/1 126/604 700/245



Family:

Publication number	Publication date	Application number	Application date
US10384354 BB	20190820	US20170456347	20170310
US10605365 BA	20200331	US20130064072	20131025
US2017184327 AA	20170629	US20170456347	20170310
US2018056526 AA	20180301	US20170793591	20171025
US2019329427 AA	20191031	US20190506833	20190709
US9624911 BA	20170418	US20130064070	20131025
US9821475 BA	20171121	US20130064071	20131025

Priority:

US20120719313P 20121026	US20120719314P 20121026	US20130064070 20131025
US20130064072 20131025	US20130064071 20131025	US20170456347 20170310
US20170793591 20171025	US20190506833 20190709	

Probable Assignee: SUNFOLDING INC

Assignee(s): (std): OTHER LAB LLC ; SUNFOLDING INC ; SUNFOLDING LLC

Assignee(s): SILICON VALLEY BANK ; US DEPARTMENT OF ENERGY

Inventor(s): (std): ALBERT KEVIN ; GRIFFITH SAUL ; LYNN PETER S ; MADRONE LEILA ; MCBRIDE JAMES ; SIMON KEVIN

14) Family number: 46563227 (US2010206302 AA)

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Title: ROTATIONAL TROUGH REFLECTOR ARRAY FOR SOLAR-ELECTRICITY GENERATION

Abstract: A rotational trough reflector solar-electricity generation device includes a trough reflector that rotates around a substantially vertical axis. A strip-type photovoltaic (PV) device, or other solar-energy collection element, is fixedly mounted along the focal line of the trough reflector. A tracking system rotates the trough reflector such that the trough reflector is aligned generally parallel to the incident sunlight (e.g., in a generally east-west direction at sunrise, turning to generally north-south at noon, and turning generally west-east at sunset). A disc-shaped support structure is used to distribute the reflector's weight over a larger area and to minimize the tracking system motor size. Multiple trough reflectors are mounted on the disc-shaped support to maximize power generation. Flat mirrors are disposed at the end of the troughs to increase power in "hot" PV sections that are connected in series.

Classifications:

International (IPC 8-9): F24J2/00 F24J2/06 F24J2/10 F24J2/12 F24J2/14 F24J2/38 F24J2/52 F24J2/54 F24S23/00 F24S23/70 F24S23/71 F24S23/74 F24S50/20 G02B5/12 G02B7/198 H01L31/00 H01L31/042 H01L31/052 H02N6/00

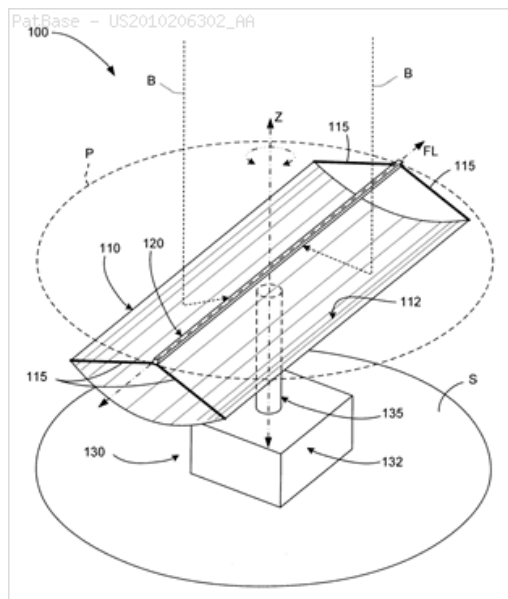
International (IPC 1-7): F24J2/00

CPC: F24S23/00 F24S23/74 F24S30/422 F24S50/20 H01L31/0547 H02S20/23 H02S20/30 H02S40/22 Y02B10/10 Y02B10/20 Y02E10/40 Y02E10/44 Y02E10/47 Y02E10/52 F24S23/82 F24S2023/872 F24S25/10 F24S30/428 F24S30/452 G01S3/7861 H02S20/32 F24S2020/10 Y02E10/50

US: 126/692 126/692S 126/694 136/246 136/259

JP F-Term: 5F151/JA14 5F151/JA23

JP F-Index: F24J2/14 F24J2/38 F24S23/74 F24S30/422 F24S40/00 F24S40/20 F24S50/20 F24S23/30 H01L31/04@R H01L31/04,600 H01L31/04,620 H02S20/32

**Family:**

Publication number	Publication date	Application number	Application date
CN101806495 A	20100818	CN201010118668	20100212
CN101867319 A	20101020	CN201010118671	20100212
EP2221552 A2	20100825	EP20100153667	20100216
EP2221552 A3	20120704	EP20100153667	20100216
EP2221553 A2	20100825	EP20100153669	20100216
EP2221553 A3	20120704	EP20100153669	20100216
IL203878 A0	20101031	IL20100203878	20100210
IL203879 A0	20101031	IL20100203879	20100210
IN00376CH2010 A	20100827	IN2010CH00376	20100215
IN00379CH2010 A	20111021	IN2010CH00379	20100215
JP2010190565 A2	20100902	JP20100028443	20100212
JP2010190566 A2	20100902	JP20100028444	20100212
US2010206302 AA	20100819	US20090473240	20090527
US2010206356 AA	20100819	US20090388500	20090218
US2010206357 AA	20100819	US20090611873	20091103
US2010206379 AA	20100819	US20090611842	20091103
US2011259397 AA	20111027	US20110174657	20110630

Priority:

US20090388500 20090218 US20090473240 20090527 US20090611873 20091103
 US20090611842 20091103 US20110174657 20110630

Probable Assignee: PALO ALTO RESEARCH CENTER INC

Assignee(s): (std): PALO ALTO RES CT INC

Assignee(s): KARL A LITTAU ; NITIN PAREKH ; PALO ALTO RESEARCH CENTER INC ; PALO ALTO RESEARCH CENTER INCORPORATED ; PATRICK C CHEUNG ; PATRICK Y MAEDA ; パロ アルト リサーチ センター インコーポレーテッド ; 帕洛阿尔托研究中心公司

Inventor(s): (std): CHEUNG PATRICK C ; LITTAU KARL A ; MAEDA PATRICK Y ; NITIN PAREKH ; PAREKH NITIN

Inventor(s): CHEUNG PATRICK ; K A 利陶 ; KARL A LITTAU ; LITTAU KARL ; MAEDA PATRICK ; N 帕雷克 ; P C 钟 ; P Y 梅达 ; PATRICK C CHEUNG ; PATRICK Y MAEDA ; カール エー リッタウ ; ニティン パリキ ; パトリック シー チャン ; パトリック ワイ マエダ

Agent(s): BEVER HOFFMAN AND HARMS LLP ; SKONE JAMES ROBERT EDMUND ; 中国专利代理(香港)有限公司 72001 ; 王小衡 ; 王忠忠

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

Title: SOLAR PHOTOVOLTAIC CELL SYSTEM

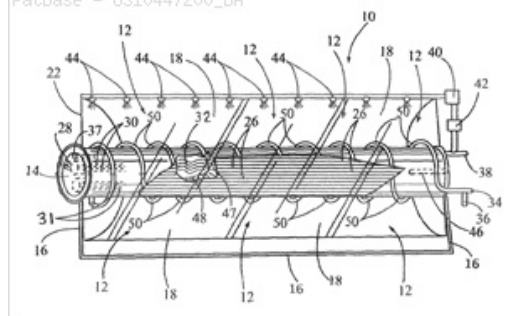
Abstract: A solar photovoltaic cell system used for supply of electrical power for various uses. The cell system includes photovoltaic cells received around a tubular shaped, elongated tank. The tank is disposed in front of a concave light reflector. The light reflector is rotatably mounted on a latitude adjustable stand. The stand is also used to hold opposite ends of the tank. The light reflector is used for reflecting increased sun light onto the photovoltaic cells. Electrical energy from the photovoltaic cells is used to power various types of electrical applications.

Classifications:

International (IPC 8-9): F24D17/00 F24S30/425 H01L31/052 H02J7/35 H02S40/10 H02S40/22 H02S40/32 H02S40/34 H02S40/38 H02S40/42 H02S40/44

CPC: F24D17/0021 F24S10/70 F24S20/20 F24S20/40 F24S23/74 F24S30/425 H02J7/35 H02S40/10 H02S40/22 H02S40/32 H02S40/34 H02S40/38 H02S40/425 H02S40/44 Y02B10/20 Y02B10/70 Y02E10/40 Y02E10/44 Y02E10/47 Y02E10/52 Y02E10/56 Y02E10/60 Y02P90/50

PatBase - US10447200_BA



Family:

Publication number	Publication date	Application number	Application date
US10447200 BA	20191015	US20170818116	20171120

Priority:

US20170818116 20171120

Probable Assignee:

FAKIH ALI A

Assignee(s): (std):

FAKIH ALI A

Inventor(s): (std):

FAKIH ALI A

Agent(s):

CRABTREE EDWIN H; PIZARRO RAMON L