

Diego Gonzalez Castillo

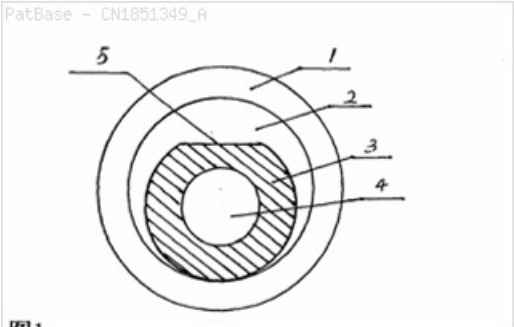
1) Family number: 33605226 (CN1851349A)

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Title: MULTIFUNCTIONAL ISOLATING PIPE FOR SOLAR WATER HEATER VACUUM HEAT-COLLECTING PIPE

Abstract: The invention discloses multifunction insulating tube used in solar water heater vacuum heat collection tube. It is made of PPR hot water pipe material or glass. It is cut into heat collection tube along radial direction. And its sectional area is 45 percent of the tube. They are combined as fission and easy to clean. It can be used in all vertical cutting compact type full glass vacuum heat collection tube solar water heaters.

Classifications:
International (IPC 8-9): F24J2/24 F24S10/70 (Advanced/Invention); F24J2/04 (Core/Invention)
CPC: Y02E10/44
European: Y02E10/44



Family:

Publication number	Publication date	Application number	Application date
CN1851349 A	20061025	CN200610026033	20060425

Priority:
CN200610026033 20060425

Probable Assignee: YANG TIANMIN
Assignee(s): (std): YANG TIANMIN
Inventor(s): (std): YANG TIANMIN
Inventor(s): TIANMIN YANG

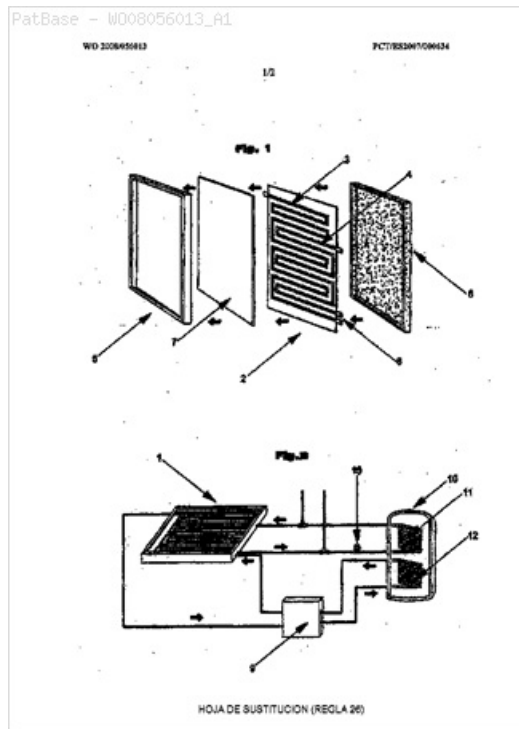
2) Family number: 34984789 (WO08056013A1)

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Title: SOLAR COLLECTOR WITH A DOUBLE THERMODYNAMIC THERMAL CIRCUIT FOR COLD AND HEAT PRODUCTION

Abstract: The invention relates to a solar collector with a double thermodynamic thermal circuit for cold and heat production, formed by two welded plates defining two totally independent internal circuits (3 and 4). Water flows through one of the circuits (4) of the solar collector (1) under favourable solar radiation conditions, said water being driven by a pump (15) to the container (10) whereat the captured energy is transferred through the first coil (11). When there is insufficient irradiance to obtain the desired temperature in the water, the pump (15) stops operating and the compression cycle begins, during which a thermodynamic unit (9) moves a coolant fluid which is at boiling point when it reaches the outer panel and which passes through said panel by means of the corresponding circuit (3), taking the latent evaporation heat from the environment, which is subsequently transferred to the second coil (12) of the container in which the coolant gas is condensed, thereby obtaining hot water independent of the external conditions.

Classifications:
International (IPC 8-9): F24J2/04 F24J2/32 F24J2/51 F24S10/95 F25B27/00 (Advanced/Invention); F24J2/00 F24J2/04 F25B27/00 (Core/Invention)
CPC: F24S10/20 F24S10/755 F24S10/90 F24D3/08 F24D11/0221 F24D17/02 F24D2200/12 F24D2200/14 Y02B10/20 Y02B10/70 Y02E10/44
European: F24D11/02C2 F24D17/02 F24J2/04D F24J2/26E F24J2/32 R24D200/12 R24D200/14 R24D3/08 Y02B10/20 Y02B10/40 Y02B10/70 Y02B30/12 Y02B30/12B2 Y02E10/44



Family:

Publication number	Publication date	Application number	Application date
ES1064112 UA	20070201	ES20060002421U	20061110
W008056013 A1	20080515	WO2007ES00634	20071108

Priority:

ES20060002421 20061110 ES20060002421U 20061110

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Assignee(s): INTERNACIONAL MACRAL DE BANOS S L ; INTERNACIONAL MACRAL DE BANOS SL

Inventor(s): (std): MARIN MOSCOSO ANTONIO

Agent(s): FERNANDEZ PRIETO ANGEL

Designated states: AE AG AL AM 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 41571759 (ES2292364A)

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Title: SOLAR RECEIVER OF DOUBLE THERMODYNAMIC THERMAL CIRCUIT FOR COLD AND HEAT PRODUCTION, HAS SOLAR, WHICH GENERATES HOT WATER UNDER ANY CLIMATIC CIRCUMSTANCE AND CONTAINS TWO INDEPENDENT CIRCUITS CIRCULATING AROUND MIXTURE OF WATER

Abstract: The solar receiver has a solar, which generates hot water under any climatic circumstance and contains two independent circuits circulating around mixture of water and antifreeze. The circuits are warmed up to receive solar radiation and generate energy to water contained deposit through an interchanger, where a cooling fluid circulates around another circuit. Another circuit is provided to catch the environmental energy when the levels of solar radiation are not adapted. The panels are provided for evaporation and condensed the water tank through another interchanger or coil.

Classifications:

International (IPC 8-9): F24J2/32 F24J2/51 F24S10/95

F25B27/00 (Advanced/Invention);

F24J2/51 (Advanced/Non-invention);

F24J2/04 F25B27/00 (Core/Invention);

F24J2/00 (Core/Non-invention)

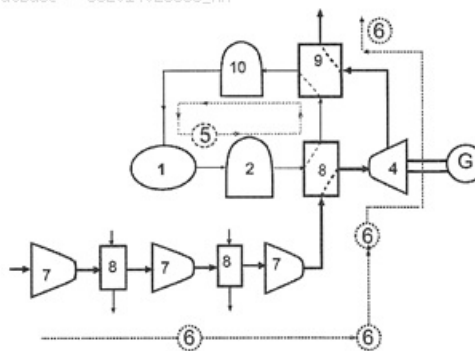
CPC: Y02E10/44

European: F24J2/04B20 Y02E10/44

Publication number	Publication date	Application number	Application date
ES2292364 AA	20080301	ES20070000651	20061110
ES2292364 BA	20100924	ES20070000651	20061110
ES2311395 AA	20090201	ES20070000651	20061110

Inventor(s): (std): MARIN MOSCOSO ANTONIO ; INTERNACIONAL MACRAL DE BANOS

US: 126/600



Publication number	Publication date	Application number	Application date
CN103392068 A	20131113	CN201180066409	20110130
CN103392068 B	20161214	CN201180066409	20110130

EP2669514 A1	20131204	EP20110857190	20110130
EP2669514 A4	20150520	EP20110857190	20110130
US2014026883 AA	20140130	US20110982500	20110130
WO12100438 A1	20120802	WO2011CN070822	20110130

Priority:

WO2011CN070822 20110130

Probable Assignee: CHEN YUQI

Assignee(s): (std): CHEN YUQI

Inventor(s): (std): CHEN YUQI

Agent(s): MITTLER ENRICO; BEIJING WANG IP AGENCY LTD

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

5) Family number: 66519010 (GB2563383A)

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Title: SOLAR RAY CONCENTRATION SYSTEM FOR A POWER GENERATION SYSTEM

Abstract: A solar thermal power generation system comprising a vertical tower or mast 10.4 with a plurality of arrays of mirrors mounted upon the mast, used to concentrate incoming solar rays downwards 10.6, to a focal point inside a channel. Each array of mirrors comprises a concave mirror 10.3, a convex mirror 10.6, and two pairs of flat inclined mirrors, all mounted on horizontal members protruding from the vertical tower. In some embodiments there may be a light ray shielding member 10.1 mounted parallel to the mast structure, to prevent the concentrated sun rays from being projected in unwanted directions. The concentrated solar rays are used to heat water in a water carrying tube, which is converted to steam to drive turbines for energy generation. The convex mirror may be a plano convex mirror, and the concave mirror may be a plano concave mirror.

Classifications:

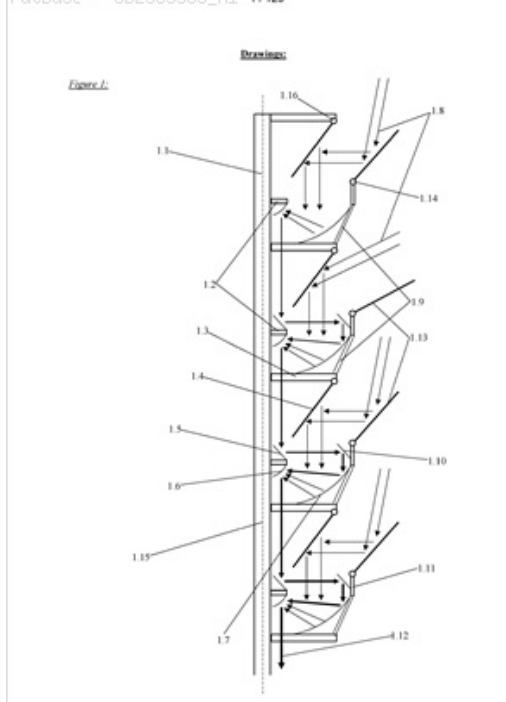
International (IPC 8-9): F03G6/06 F24S20/20

F24S23/70 (Advanced/Invention)

CPC: F03G6/06 F24S23/70 F24S2023/832 Y02E10/41 F03G6/067

F24S20/20 F24S23/12 F24S23/77 F24S23/79

PatBase - GB2563383_A1 1/125



Family:

Publication number	Publication date	Application number	Application date
GB201709013 A0	20170719	GB20170009013	20170606
GB2563383 A1	20181219	GB20170009013	20170606

Priority:

GB20170009013 20170606

Probable Assignee: OTEGUI VAN LEEUW JON

Assignee(s): (std): JON OTEGUI VAN LEEUW ; OTEGUI VAN LEEUW JON

Inventor(s): (std): JON OTEGUI VAN LEEUW

6) Family number: 66519052 (GB2563572A)

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Title: SOLAR RAY CONCENTRATION SYSTEM FOR A POWER GENERATION SYSTEM

Abstract: A solar thermal power generation system comprising a vertical tower or mast 10.4 with a plurality of arrays of mirrors mounted upon the mast, used to concentrate incoming solar rays downwards 10.6, to a focal point inside a channel. Each array of mirrors comprises a concave mirror 10.3, a convex mirror 10.6, and two pairs of flat inclined mirrors, all mounted on horizontal members protruding from the vertical tower. In some embodiments there may be a light ray shielding member 10.1 mounted parallel to the mast structure, to prevent the concentrated sun rays from being projected in unwanted directions. The concentrated solar rays are used to heat water in a water carrying tube, which is converted to steam to drive turbines for energy generation. The convex mirror may be a plano convex mirror, and the concave mirror may be a plano concave mirror.

Classifications:

International (IPC 8-9): F03G6/06 F24S10/00

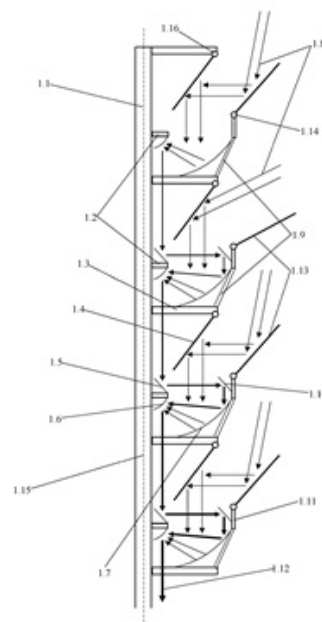
F24S23/70 (Advanced/Invention)

CPC: F03G6/065 F24S20/20 F24S23/12 F24S23/70 F24S23/77 F24S23/79

F24S25/10 F24S2023/832 F03G6/06 F24S10/00 Y02E10/41

PatBase - GB2563572_A1 1 / 121

Figure 1



Family:

Publication number	Publication date	Application number	Application date
GB201708718 A0	20170719	GB20170008718	20170601
GB2563572 A1	20181226	GB20170008718	20170601

Priority:

GB20170008718 20170601

Probable Assignee: OTEGUI VAN LEEUW JON

Assignee(s): (std): JON OTEGUI VAN LEEUW ; OTEGUI VAN LEEUW JON

Inventor(s): (std): JON OTEGUI VAN LEEUW

7) Family number: 70237163 (US2020116393A)

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Title: MULTI-FUNCTION SOLAR COOKING APPLIANCE

Abstract: A multi-function solar cooking appliance is disclosed. The appliance comprises a solar thermal unit comprising: at least one solar heat collector for collecting solar heat; a chamber of said solar heat collector for receiving a utensil and thermally connected said solar heat collector to receive and transfer said solar heat to said utensil for cooking; and a sunlight reflector having a cross section with a circular arc shape and said utensil. The appliance further selectively comprises a multi-functional cover, a modular solar thermal unit, assembled fluid channel, supplementary energy heater, different side chambers and/or utensils for heat insulation purpose; disposable utensil and ferromagnetic heat conducting and storage material.

Classifications:

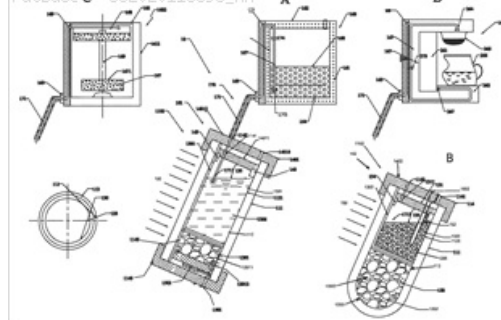
International (IPC 8-9): F24C9/00 F24S20/20 F24S20/30 F24S20/40

F24S23/00 F24S23/70 F24S50/20 (Advanced/Invention)

CPC: F24S10/95 F24S20/40 F24S23/74 F24S60/00 F24C9/00 F24S10/45

F24S20/20 F24S20/30 F24S23/70 F24S23/00 F24S50/20

PatBase C US2020116393_AA



Family:

Publication number	Publication date	Application number	Application date
CA2952462 AA	20180621	CA20162952462	20161221

CN110114617 A	20190809	CN201780079028	20171221
IN201917029113 A	20191004	IN201917029113	20190719
US2020116393 AA	20200416	US20170471218	20171221
WO18112597 A1	20180628	WO2017CA00272	20171221

Priority:

CA20162952462 20161221 CA20172988689 20171212 WO2017CA00272 20171221

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Assignee(s): (std): LIN HUAZI ; W AND E INT CANADA CORP

Assignee(s): LIN YUANBAO

Inventor(s): (std): LIN YUANHAO ; LIN YUANBAO ; LIN HUAZI

Agent(s): WONG DAVID W; LIN HUAZI

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