



New connection on: : 28-06-2018 : 22:01:15 - Last disconnection on: : 28-06-2018 : 04:05:06

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[No database/cluster active] ..fi

Select a database: ..FI EPODOC

 Database: EPODOC

[EPODOC: SS 1] frequency and control

Results in EPODOC 6

[SS 2] ..erase all

[SS 1] control

Results in EPODOC 6.717.125

[SS 2] frequency and control

Results in EPODOC 390.502

[SS 3] 1 and (source OR supply OR generator)

Results in EPODOC 1.224.349

[SS 4] 2 and (source OR supply OR generator)

Results in EPODOC 111.558

[SS 5] 4 and pump

Results in EPODOC 5.785

[SS 6] 5 and solar

Results in EPODOC 132

[SS 7] 6 and temperature

Results in EPODOC 52

[SS 8] 7 and photovoltaic

Results in EPODOC 2



1/2 © EPODOC / EPO

PN

- [CN104833027](#) A 20150812

PNFP

- CN104833027B B 20170613

PR

- CN20151246333 20150514

AP

- CN20151246333 20150514

DT

- I

CT

- || STSE (A)
[US5806323](#) A 19980915
[A] (BEVIER WILLIAM E [US])
[A] 1-3
* 全文 *;
[JP2008249165](#) A 20081016
[A] (MATSUSHITA ELECTRIC IND
CO LTD)
[A] 1-3
* 全文 *;
[JP2013064554](#) A 20130411
[A] (DAIKIN IND LTD)
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[CN103041675](#) A 20130417
[A] (CHANGZHOU INST OF
SOUTHEAST UNIVERSITY)
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* 全文 *;
[CN103335454](#) A 20131002
[A] (ANHUI CHEARI ZHIRUI
TECHNOLOGY CO LTD)
[A] 1-3
* 全文 *;
[CN203615520U](#) U 20140528
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[CN204987306U](#) U 20160120
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* 权利要求1-3 *

CNOI - (A)
[F24F3/1429](#) ; [F24F5/001](#) ;
[F24F5/0046](#) ; [F24F11/30](#) ;
[F24F2110/00](#) ; [F24F2110/10](#) ;
[F24F2110/20](#)

CCA - [Y02B10/24](#) ; [Y02A30/272](#)

CNOA - (A)
[F24F2003/1458](#) ;
[F24F2005/0067](#) ; [F24F2221/34](#)

PA - (A)

ANHUI CHEARI ZHIRUI
TECHNOLOGY CO LTD

- TI

- (A)

Household direct current variable- **frequency** air-conditioning system comprehensively utilizing **solar** photo-thermal energy and photoelectric technique
- AB

- (A)

The invention discloses a household direct current variable- **frequency** air-conditioning system comprehensively utilizing **solar** photo-thermal energy and photoelectric technique. The household direct current variable- **frequency** air-conditioning system comprises a **solar** photoelectric system, a **solar** photo-thermal system, a dehumidification system, a direct current variable- **frequency** air conditioner and a **control** system; the **solar** photoelectric system comprises a **solar photovoltaic** panel, a **control** module, a storage battery and a boost circuit; the **solar** photo-thermal system comprises a **solar** evacuated collector tube, a heat preservation water tank, a dehumidification heat exchanger, a defrosting heat exchanger, and a circulating water **pump**; the dehumidification system comprises a dehumidifier, a dehumidification liquid storage pot, a dehumidification system heat exchanger, a solution circulating **pump**, a regenerator and a regeneration liquid storage pot; the direct current variable- **frequency** air conditioner comprises an indoor unit and an outdoor unit; the **control** system comprises a **temperature** controller, a humidity controller and a power **supply** controller. The household direct current variable- **frequency** air-conditioning system comprehensively utilizing **solar** photo-thermal energy and photoelectric technique has the advantages that **solar** energy can

be converted into heat energy
and electric energy for providing
the air-conditioning system with
heat and power, demand on
mains **supply** is reduced, energy
is saved, and the like.

2/2 © EPODOC / EPO

- PN - [MD265Y](#) Y 20100831
- PNFP - MD265Z Z 20110331
- PR - MD2009S000181 20090928
- AP - MD2009S000181 20090928
- DT - I
- CCA - [Y02E10/50](#) ; [Y02E10/44](#) ; [Y02E10/46](#) ; [Y02P80/24](#) ; [Y02A20/18](#)
- PA - (Y Z)
SAINSUS IURII [MD]
- TI - (Y Z)
Photothermoelectric plant
- AB - (Z)

The invention relates to power engineering and can be used in systems of non-conventional power engineering.The photothermoelectric plant consists of a concentrator of **solar** rays (1), consisting of Fresnel lenses (2), in the focus of which are set multilayer **photovoltaic** cells (3) of heterostructural material AlGaAs/GaAs, which in turn are mounted on a metal base (4), wherein are made sealed channels (5), which are part of the primary water circulation circuit, which also includes a water **pump** (6) and a lower heat exchanger (10), located in a thermal accumulator (9), thermally isolated from the environment. Also, in the thermal accumulator (9) is located an upper heat exchanger (8), which is part of the secondary water circulation circuit, which also includes a water **pump** (7) and a metal base (12) with sealed channels (13) that come in contact with a low-**temperature** Stirling engine (14), which shaft is mechanically connected to the shaft of a direct current **generator** (15). The **photovoltaic** cells (3) and the direct current **generator** (15) are connected to different inputs of a power electronic device (16), to the output of which is connected a direct current accumulator (18), to which is connected an inverter (19), providing at the output (20) alternative current with the **frequency** and voltage of the industrial network. The plant is equipped with a **control** system (17) with a microprocessor.