

Title (en)

HEAT DRIVEN SELF-CIRCULATING FLUID HEATING AND STORAGE TANK AND SYSTEM

Title (de)

WÄRMEBETRIEBENER EIGENSTÄNDIG ZIRKULIERENDER FLÜSSIGKEITSERHITZUNGS- UND SPEICHERTANK SOWIE SYSTEM

Title (fr)

RÉSERVOIR ET SYSTÈME DE STOCKAGE ET DE CHAUFFAGE DE FLUIDE À AUTO-CIRCULATION ENTRAÎNÉ PAR LA CHALEUR

Publication

EP 2564124 A1 20130306 (EN)

Application

EP 10850428 A 20100823

Priority

- CA 2702463 A 20100426
- CA 2010001295 W 20100823

Abstract (en)

[origin: CA2702463A1] A fluid heating and storage tank with double walls is provided. The tank includes two pair of inlets and outlets for second fluid, which is a liquid. The tank further includes at least one breathing port, which are connected to the second space and at least one apparatus for condensing and reclaiming of the liquid vapor and is mounted at the breathing port. A fluid heating and storage tank may be provided with one or two heaters. The heaters may use the same or different energy resources. The heaters may be double solar heat collectors orientated in any angle, especially in 90 degrees and 180 degrees. These solar heaters may be used to form the module units of the building roofs, fences and verandas etc.

IPC 8 full level

F24H 1/18 (2006.01); **F04F 1/14** (2006.01); **F04F 10/02** (2006.01); **F24H 9/02** (2006.01); **F24H 9/12** (2006.01); **F24J 2/34** (2006.01); **F28D 7/10** (2006.01)

CPC (source: EP KR US)

F04F 1/14 (2013.01 - KR); **F04F 10/02** (2013.01 - KR); **F24D 11/003** (2013.01 - EP); **F24D 11/004** (2013.01 - EP); **F24H 1/18** (2013.01 - KR); **F24H 9/02** (2013.01 - KR); **F24S 60/30** (2018.04 - EP US); **F28D 20/0034** (2013.01 - EP US); **F28D 2020/0082** (2013.01 - EP); **Y02B 10/20** (2013.01 - EP); **Y02E 10/40** (2013.01 - EP); **Y02E 60/14** (2013.01 - EP); **Y02E 70/30** (2013.01 - EP)

Designated contracting state (EPC)

AL AT 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 SE SI SK SM TR

DOCDB simple family (publication)

CA 2702463 A1 20111026; **CA 2702463 C 20130709**; AP 2012006499 A0 20121031; AP 3706 A 20160531; BR 112012027457 A2 20170808; EA 201201466 A1 20130628; EP 2564124 A1 20130306; EP 2564124 A4 20140924; JP 2013525736 A 20130620; JP 5777702 B2 20150909; KR 20130106765 A 20130930; MX 2012012293 A 20130318; MX 340545 B 20160713; WO 2011134042 A1 20111103; ZA 201207525 B 20130626

DOCDB simple family (application)

CA 2702463 A 20100426; AP 2012006499 A 20100823; BR 112012027457 A 20100823; CA 2010001295 W 20100823; EA 201201466 A 20100823; EP 10850428 A 20100823; JP 2013506419 A 20100823; KR 20127030956 A 20100823; MX 2012012293 A 20100823; ZA 201207525 A 20121008