

Title (en)  
FLUID HEATING AND STORAGE TANK AND SYSTEM

Title (de)  
FLÜSSIGKEITSERHITZUNGS- UND SPEICHERTANK SOWIE SYSTEM

Title (fr)  
RÉSERVOIR ET SYSTÈME DE STOCKAGE ET DE CHAUFFAGE DE FLUIDE

Publication  
**EP 2564125 A4 20141001 (EN)**

Application  
**EP 10850429 A 20100823**

Priority  
• CA 2702472 A 20100426  
• CA 2010001296 W 20100823

Abstract (en)  
[origin: CA2702472A1] A fluid heating and storage tank with an interior-installed heat exchanger is provided. The tank comprises two pairs of inlets and outlets for second fluid, and at least one breathing port, which are connected to the heat exchanger. One apparatus for condensing and reclaiming of the liquid vapor is mounted at the breathing port. A heat driven self-circulated fluid heating and storage system incorporating the fluid heating and storage tank is provided to use with one or two heaters. The heaters may use solar and other different energy resources. The system can have the double solar heat collectors orientated in any angle, typically in 90 degrees and 180 degrees. These solar heating systems 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); **F28D 7/10** (2006.01)

CPC (source: EP KR)  
**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); **F28D 20/0034** (2013.01 - EP); **Y02B 10/20** (2013.01 - EP); **Y02E 60/14** (2013.01 - EP); **Y02E 70/30** (2013.01 - EP)

Citation (search report)  
• [X] JP H09303874 A 19971128 - NAKAYAMA MITSUO  
• [XA] EP 1798486 A2 20070620 - VAILLANT GMBH [DE]  
• [A] US 2008128526 A1 20080605 - OTAKE MASAHISA [JP], et al  
• See references of WO 2011134043A1

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 2702472 A1 20111026**; **CA 2702472 C 20170829**; AP 2012006518 A0 20121031; AP 3708 A 20160531; BR 112012027458 A2 20170808; EA 201201467 A1 20130430; EP 2564125 A1 20130306; EP 2564125 A4 20141001; JP 2013527419 A 20130627; JP 5642874 B2 20141217; KR 20130106766 A 20130930; MX 2012012294 A 20130318; MX 338458 B 20160418; WO 2011134043 A1 20111103; ZA 201207677 B 20130626

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