

Title (en)

Device comprising a boiler for containing and heating a liquid and a system for containing the liquid at a lower temperature

Title (de)

Vorrichtung mit einem Boiler zum Aufnehmen und Erhitzen von Flüssigkeit und ein System zum Aufnehmen der Flüssigkeit bei geringerer Temperatur

Title (fr)

Dispositif comportant une chaudière pour contenir et chauffer un liquide et système pour contenir le liquide à basse température

Publication

**EP 2287542 A1 20110223 (EN)**

Application

**EP 09164611 A 20090706**

Priority

EP 09164611 A 20090706

Abstract (en)

A device comprises a boiler for containing and heating a liquid; and a cool liquid system that is in liquid communication with the boiler, and that is intended to contain relatively cold liquid. During operation of the device, the boiler is activated such as to heat a quantity of liquid that is received from the cool liquid system. In order to avoid heating up of the liquid that is present inside the cool liquid system and cooling down of the liquid that is present inside the boiler, measures are taken in order to prevent a backflow of the liquid. These measures involve an application of some kind of component (9) to be positioned upstream of the boiler, and in order to avoid heat transfer through this component (9), additional measures are taken to realize a heat insulating effect at a position upstream of the boiler.

IPC 8 full level

**B67D 3/00** (2006.01); **F24H 9/12** (2006.01)

CPC (source: EP KR US)

**B67D 3/00** (2013.01 - KR); **F24D 19/0002** (2013.01 - KR); **F24H 9/136** (2022.01 - EP KR US)

Citation (search report)

- [XY] WO 9851970 A2 19981119 - OLIVER BORG ANTONIO [AU]
- [X] US 6302063 B1 20011016 - SCHIMMEYER WERNER [US]
- [X] GB 2270747 A 19940323 - GLEDHILL WATER STORAGE [GB]
- [Y] US 4249568 A 19810210 - DUGGAN DANIEL C [US]
- [Y] US 5010925 A 19910430 - ATKINSON GORDON E [US], et al
- [X] US 6209753 B1 20010403 - OHU HEE-BUM [KR]
- [XA] US 4137833 A 19790206 - YELLOZ RONI P
- [A] GB 819975 A 19590909 - HERMAN ARNOLD BRUNTJEN

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**DE 202010005704 U1 20101021**; BR 112012000125 A2 20170725; BR 112012000125 A8 20170919; CN 101943465 A 20110112; CN 101943465 B 20150826; CN 201866915 U 20110615; EP 2287542 A1 20110223; EP 2452132 A2 20120516; JP 2013501906 A 20130117; JP 5801299 B2 20151028; KR 20120050997 A 20120521; KR 20170109078 A 20170927; RU 2012103892 A 20130820; RU 2529969 C2 20141010; US 2012103281 A1 20120503; WO 2011004279 A2 20110113; WO 2011004279 A3 20130523

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**DE 202010005704 U 20100624**; BR 112012000125 A 20100621; CN 201010220712 A 20100701; CN 201020249070 U 20100701; EP 09164611 A 20090706; EP 10730554 A 20100621; IB 2010052797 W 20100621; JP 2012519086 A 20100621; KR 20127003025 A 20100621; KR 20177026242 A 20100621; RU 2012103892 A 20100621; US 201013379419 A 20100621