

Title (en)  
Heat pump hydronic heater

Title (de)  
Hydronischer Wärmepumpenheizer

Title (fr)  
Dispositif de chauffage hydronique à pompe thermique

Publication  
**EP 2530399 B1 20160928 (EN)**

Application  
**EP 12153145 A 20120130**

Priority  
JP 2011122003 A 20110531

Abstract (en)  
[origin: EP2530399A2] The heat pump hydronic heater of the invention includes a heat pump circuit and a hot water tank circuit, the heat pump circuit and the hot water tank circuit are accommodated in one casing 50, and a hermetic expansion tank 37 is connected to a hot water tank 7 and the heat pump hydronic heater can absorb expansion of water in a circulation path when hot water in a hot water tank 7 is circulated through heat a floor or supply hot water.

IPC 8 full level  
**F24H 4/04** (2006.01); **F24H 9/02** (2006.01); **F24H 9/06** (2006.01)

CPC (source: EP US)  
**F24H 4/04** (2013.01 - EP US); **F24H 9/02** (2013.01 - EP US); **F24H 9/06** (2013.01 - EP US)

Cited by  
EP2933580A1; CN106391417A; GB2497171A; GB2497171B

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DOCDB simple family (publication)  
**EP 2530399 A2 20121205; EP 2530399 A3 20140423; EP 2530399 B1 20160928**; CN 102809185 A 20121205; JP 2012247175 A 20121213; JP 5884042 B2 20160315; US 2012304677 A1 20121206

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**EP 12153145 A 20120130**; CN 201210023799 A 20120203; JP 2011122003 A 20110531; US 201113340250 A 20111229