

Title (en)
HEAT PUMP-TYPE WATER HEATER

Title (de)
WÄRMEPUMPENDURCHLAUFERHITZER

Title (fr)
CHAUFFE-EAU DU TYPE POMPE À CHALEUR

Publication
EP 2685177 B1 20160504 (EN)

Application
EP 12755362 A 20120309

Priority
• JP 2011052445 A 20110310
• JP 2012056161 W 20120309

Abstract (en)
[origin: EP2685177A1] Energy efficiency is improved. A heat pump water heater 1 includes: a heat pump unit 2 including a refrigerant circuit 3 in which a refrigerant condensing in a condenser 22 circulates; and a hot water storage tank 5 which stores hot water heated in the condenser 22. An operation mode is selectable from a circulation heating mode in which heated hot water is supplied to the hot water storage tank at a first flow rate, and a non-circulation heating mode in which heated hot water is supplied to a top portion of the hot water storage tank 5 at a second flow rate lower than the first flow rate. The operation mode is switched between the circulation heating mode and the non-circulation heating mode based on the temperature of the refrigerant supplied to the condenser 22.

IPC 8 full level
F24H 1/00 (2006.01); **F24D 17/02** (2006.01); **F24D 19/10** (2006.01); **F24H 4/04** (2006.01)

CPC (source: EP US)
F24D 17/02 (2013.01 - EP); **F24D 19/1054** (2013.01 - EP US); **F24H 4/04** (2013.01 - EP); **F24H 15/156** (2022.01 - EP US); **F24H 15/215** (2022.01 - EP US); **F24H 15/232** (2022.01 - EP US); **F24H 15/258** (2022.01 - EP US)

Cited by
FR3046218A1

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DOCDB simple family (publication)
EP 2685177 A1 20140115; EP 2685177 A4 20140820; EP 2685177 B1 20160504; CN 103415747 A 20131127; CN 103415747 B 20160302; JP WO2012121382 A1 20140717; WO 2012121382 A1 20120913

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