

Title (en)
HEAT PUMP WATER HEATER

Title (de)
WÄRMEPUMPENWASSERERHITZER

Title (fr)
CHAUFFE-EAU À POMPE À CHALEUR

Publication
EP 4365507 A1 20240508 (EN)

Application
EP 21948258 A 20210628

Priority
JP 2021024402 W 20210628

Abstract (en)
A heat pump water heater includes a heat pump unit (101) a hot water storage tank (108) including a high temperature part and a low temperature part; a water inlet pipe (117) for supplying water from the low temperature part to the heat pump unit (101); a heat storage unit (109) that absorbs heat from water flowing through the water inlet pipe (117) and stores the heat; a first branch valve (110) provided between the low temperature part and the heat storage unit (109) to switch a flow path in the water inlet pipe (117); and a first bypass pipe (115) connecting a part between the heat storage unit (109) and the heat pump unit (101) to the first branch valve (110).

IPC 8 full level
F24H 4/02 (2022.01); **F24H 1/18** (2022.01); **F24H 4/04** (2006.01)

CPC (source: EP US)
F24D 11/0214 (2013.01 - EP); **F24D 19/1054** (2013.01 - EP); **F24H 1/18** (2013.01 - EP); **F24H 4/02** (2013.01 - EP); **F24H 4/04** (2013.01 - EP US); **F24H 7/04** (2013.01 - EP); **F24H 15/156** (2022.01 - US); **F24H 15/174** (2022.01 - US); **F24H 15/219** (2022.01 - EP); **F24H 15/223** (2022.01 - EP); **F24H 15/315** (2022.01 - EP US); **F24H 15/325** (2022.01 - US); **F28D 20/0039** (2013.01 - EP); **F24D 17/02** (2013.01 - EP); **F24D 2200/123** (2013.01 - EP); **F24D 2220/0235** (2013.01 - EP); **F24D 2220/08** (2013.01 - EP)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
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EP 21948258 A 20210628; JP 2021024402 W 20210628; JP 2023531161 A 20210628; US 202118555967 A 20210628