

Title (en)
HEAT PUMP HOT WATER SUPPLYING OUTDOOR UNIT

Title (de)
WÄRMEPUMPEN-WARMWASSERVERSORGUNGS-AUSSENEINHEIT

Title (fr)
UNITÉ EXTÉRIEURE D'ALIMENTATION EN EAU CHAUDE DE POMPE À CHALEUR

Publication
EP 3734194 A4 20201230 (EN)

Application
EP 17936807 A 20171226

Priority
JP 2017046728 W 20171226

Abstract (en)
[origin: EP3734194A1] A heat pump water-heater outdoor unit includes a bottom plate, a compressor disposed on the bottom plate, a muffler fixed to an outer surface of the compressor, and an internal heat exchanger fixed to the outer surface of the compressor. The internal heat exchanger is disposed on a side opposite to the muffler with the compressor positioned between the internal heat exchanger and the muffler. Preferably, the muffler is fixed to a muffler holder fixed to the outer surface of the compressor. The internal heat exchanger is fixed to an internal heat exchanger holder fixed to the outer surface of the compressor. The internal heat exchanger is fixed at a position where the height of the center of gravity of the internal heat exchanger is equal to the height of the center of gravity of the muffler.

IPC 8 full level
F25B 41/00 (2006.01); **F24H 4/02** (2006.01); **F25B 1/00** (2006.01); **F25B 25/00** (2006.01); **F25B 31/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)
F24H 4/02 (2013.01); **F25B 1/00** (2013.01); **F25B 25/005** (2013.01); **F25B 31/00** (2013.01); **F25B 41/00** (2013.01); **F25B 49/02** (2013.01); **F25B 2339/047** (2013.01); **F25B 2400/054** (2013.01)

Citation (search report)
• [X] CN 204830470 U 20151202 - NANCHANG SANGKUN NEW ENERGY CO LTD
• [I] WO 2016157305 A1 20161006 - MITSUBISHI ELECTRIC CORP [JP]
• [I] WO 2017212613 A1 20171214 - MITSUBISHI ELECTRIC CORP [JP]
• See references of WO 2019130439A1

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WO2023174738A1

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3734194 A1 20201104; EP 3734194 A4 20201230; EP 3734194 B1 20231011; JP 6841350 B2 20210310; JP WO2019130439 A1 20200727; WO 2019130439 A1 20190704

DOCDB simple family (application)
EP 17936807 A 20171226; JP 2017046728 W 20171226; JP 2019561442 A 20171226