

Title (en)
OUTDOOR UNIT, REFRIGERATION CYCLE DEVICE, AND REFRIGERATING MACHINE

Title (de)
AUSSENEINHEIT, KÄLTEKREISLAUFVORRICHTUNG UND KÄLTEMASCHINE

Title (fr)
UNITÉ EXTÉRIEURE, DISPOSITIF À CYCLE FRIGORIFIQUE ET MACHINE FRIGORIFIQUE

Publication
EP 3954947 A4 20220323 (EN)

Application
EP 19923884 A 20190410

Priority
JP 2019015681 W 20190410

Abstract (en)
[origin: EP3954947A1] An outdoor unit (2) includes a compressor (10), a condenser (20), a heat exchanger (30) configured to exchange heat between refrigerant flowing in a first passage (H1) and the refrigerant flowing in a second passage (H2), and a second expansion valve (40). The outdoor unit (2) further includes a first refrigerant flow path (91 to 94) configured to cause the refrigerant to flow from a portion of a circulation flow path between an outlet of the first passage (H1) and the second expansion valve (40) to an inlet of the second passage (H2), a second refrigerant flow path (96 to 98) configured to cause the refrigerant to flow from an outlet of the second passage (H2) to a suction port (G1) or an intermediate pressure port (G3) of the compressor (10), and a flow path switching unit (74) disposed on the second refrigerant flow path and configured to switch, to one of the suction port (G1) and the intermediate pressure port (G3), a destination of the refrigerant flowing out from the outlet of the second passage (H2).

IPC 8 full level
F25B 1/00 (2006.01); **F25B 1/10** (2006.01); **F25B 40/02** (2006.01); **F25B 41/42** (2021.01)

CPC (source: EP)
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Citation (search report)

- [YA] US 2015096321 A1 20150409 - KAWANO SATOSHI [JP], et al
- [YA] JP 2010127531 A 20100610 - MITSUBISHI ELECTRIC CORP
- [A] JP H10318614 A 19981204 - MATSUSHITA ELECTRIC IND CO LTD
- [A] WO 2009082367 A1 20090702 - CARRIER CORP [US], et al
- See also references of WO 2020208752A1

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)
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EP 3954947 A1 20220216; EP 3954947 A4 20220323; EP 3954947 B1 20240117; CN 113692517 A 20211123; CN 113692517 B 20221223; JP 7150148 B2 20221007; JP WO2020208752 A1 20201015; WO 2020208752 A1 20201015

DOCDB simple family (application)
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