

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)  
**F25B 1/00** (2013.01); **F25B 1/10** (2013.01); **F25B 40/02** (2013.01); **F25B 41/42** (2021.01); **F25B 2400/05** (2013.01); **F25B 2400/13** (2013.01); **F25B 2400/16** (2013.01); **F25B 2600/2501** (2013.01); **F25B 2600/2507** (2013.01); **F25B 2600/2509** (2013.01); **F25B 2700/2103** (2013.01); **F25B 2700/21152** (2013.01)

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 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)  
BA ME

DOCDB simple family (publication)  
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DOCDB simple family (application)  
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