

Title (en)

OUTDOOR UNIT OF REFRIGERATION DEVICE AND REFRIGERATION DEVICE COMPRISING SAME

Title (de)

AUSSENEINHEIT EINER KÜHLVORRICHTUNG UND KÜHLVORRICHTUNG DAMIT

Title (fr)

UNITÉ EXTÉRIEURE DE DISPOSITIF DE RÉFRIGÉRATION ET DISPOSITIF DE RÉFRIGÉRATION COMPRENANT CELLE-CI

Publication

EP 3922928 A4 20220126 (EN)

Application

EP 19914434 A 20190205

Priority

JP 2019004076 W 20190205

Abstract (en)

[origin: EP3922928A1] A refrigeration apparatus (100) includes an outdoor unit (101) and an indoor unit (102). The outdoor unit (101) includes a first compressor (1), a second heat exchanger (2), a four-way valve (7), and a refrigerant amount adjustment mechanism (10). In a refrigeration mode, the four-way valve (7) connects the first compressor (1) so that a first refrigerant flows in a normal direction in which the first refrigerant flows toward a first expansion valve (3) via the first compressor (1) and the second heat exchanger (2). In a defrosting mode, the four-way valve (7) connects the first compressor (1) so that the first refrigerant flows in a reverse direction in which the first refrigerant flows from the first compressor (1) to the first heat exchanger (4) and returns from the first expansion valve (3) to the first compressor (1) via the second heat exchanger (2). The refrigerant amount adjustment mechanism (10) is configured to adjust a circulation amount of the first refrigerant in the defrosting mode.

IPC 8 full level

F25B 6/04 (2006.01); **F25B 7/00** (2006.01); **F25B 40/00** (2006.01); **F25B 41/20** (2021.01); **F25B 41/39** (2021.01); **F25B 47/02** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)

F25B 6/04 (2013.01); **F25B 7/00** (2013.01); **F25B 40/00** (2013.01); **F25B 41/20** (2021.01); **F25B 41/39** (2021.01); **F25B 47/025** (2013.01); **F25B 49/02** (2013.01); **F25B 2400/0415** (2013.01); **F25B 2400/13** (2013.01); **F25B 2700/191** (2013.01); **F25B 2700/2101** (2013.01)

Citation (search report)

- [XYI] EP 2645019 A1 20131002 - MITSUBISHI ELECTRIC CORP [JP]
- [Y] JP 5595245 B2 20140924
- [A] EP 3425306 A1 20190109 - DAIKIN IND LTD [JP]
- See references of WO 2020161803A1

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 3922928 A1 20211215; **EP 3922928 A4 20220126**; CN 113348333 A 20210903; CN 113348333 B 20230711; JP 7105933 B2 20220725; JP WO2020161803 A1 20211021; WO 2020161803 A1 20200813

DOCDB simple family (application)

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