

Title (en)
OUTDOOR UNIT, REFRIGERATION CYCLE DEVICE, AND REFRIGERATOR

Title (de)
AUSSENEINHEIT, KÄLTEKREISLAUFVORRICHTUNG UND KÜHLSCHRANK

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

Publication
EP 3988871 A4 20220622 (EN)

Application
EP 19933763 A 20190620

Priority
JP 2019024585 W 20190620

Abstract (en)
[origin: EP3988871A1] An outdoor unit (2) includes: a heat exchanger (40); and a receiver (30). The heat exchanger (40) exchanges heat between refrigerant flowing in a first passage (H1) and the refrigerant flowing in a second passage (H2). The receiver (30) is disposed between a condenser (20) and the first passage (H1) of the heat exchanger (40), and stores the refrigerant. A load device (3) and a flow path from a compressor (10) to the first passage (H1) of the heat exchanger (40) via the condenser (20) and the receiver (30) form a circulation flow path through which the refrigerant circulates. The outdoor unit (2) further includes: a first refrigerant flow path (91); a second expansion valve (92); and a second refrigerant flow path (94). The first refrigerant flow path (91) causes the refrigerant to flow from the receiver (30) or an outlet pipe of the receiver (30) on the circulation flow path to an inlet of the second passage (H2). The second refrigerant flow path (94) causes the refrigerant to flow from an outlet of the second passage (H2) to the compressor (10).

IPC 8 full level
F25B 43/00 (2006.01); **F25B 1/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)
F25B 49/005 (2013.01); **F25B 49/02** (2013.01); **F25B 2400/16** (2013.01); **F25B 2400/23** (2013.01); **F25B 2500/222** (2013.01); **F25B 2500/24** (2013.01); **F25B 2600/2509** (2013.01); **F25B 2700/1931** (2013.01); **F25B 2700/1933** (2013.01)

Citation (search report)

- [XY] JP 2010223542 A 20101007 - MITSUBISHI ELECTRIC CORP
- [Y] EP 2924372 A1 20150930 - MITSUBISHI ELECTRIC CORP [JP]
- [X] EP 1818627 A1 20070815 - MITSUBISHI ELECTRIC CORP [JP]
- See also references of WO 2020255355A1

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 3988871 A1 20220427; **EP 3988871 A4 20220622**; CN 114127492 A 20220301; CN 114127492 B 20230606; JP 7278376 B2 20230519; JP WO2020255355 A1 20201224; WO 2020255355 A1 20201224

DOCDB simple family (application)
EP 19933763 A 20190620; CN 201980097419 A 20190620; JP 2019024585 W 20190620; JP 2021528581 A 20190620