

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE FRIGORIFIQUE

Publication
EP 4246056 A4 20231220 (EN)

Application
EP 20961514 A 20201110

Priority
JP 2020041931 W 20201110

Abstract (en)
[origin: EP4246056A1] A refrigeration cycle apparatus includes a heat source unit including a compressor, a flow switching valve, a first heat exchanger, and an expansion valve, an air-conditioning unit including a second heat exchanger and configured to perform air-conditioning, and a hot water supply unit including a third heat exchanger and configured to supply hot water. The flow switching valve includes a first port connected to a discharge port of the compressor, a second port connected to the second heat exchanger, a third port connected to a suction port of the compressor, and a fourth port connected to the first heat exchanger. The flow switching valve is set to one of a first state in which the second port communicates with the third port, the third port communicates with the fourth port, and the first port does not communicate with any ports, a second state in which the first port communicates with the fourth port, and the second port communicates with the third port, and a third state in which the first port communicates with the second port, and the third port communicates with the fourth port.

IPC 8 full level
F25B 13/00 (2006.01); **F25B 29/00** (2006.01); **F25B 41/20** (2021.01); **F25B 41/26** (2021.01); **F25B 41/39** (2021.01); **F25B 49/02** (2006.01)

CPC (source: EP US)
F25B 13/00 (2013.01 - EP US); **F25B 41/20** (2021.01 - EP); **F25B 41/26** (2021.01 - US); **F25B 41/39** (2021.01 - EP); **F25B 49/02** (2013.01 - EP); **F25B 41/26** (2021.01 - EP); **F25B 2313/003** (2013.01 - EP); **F25B 2313/009** (2013.01 - EP); **F25B 2313/0214** (2013.01 - EP); **F25B 2313/0215** (2013.01 - EP); **F25B 2600/0253** (2013.01 - EP)

Citation (search report)

- [XA] EP 2669605 A1 20131204 - MITSUBISHI ELECTRIC CORP [JP]
- [XAI] EP 2765371 A1 20140813 - MITSUBISHI ELECTRIC CORP [JP]
- [A] BE 648392 A 19640615 - WESTINGHOUSE ELECTRIC CORP
- See also references of WO 2022101986A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4246056 A1 20230920; EP 4246056 A4 20231220; JP 7438397 B2 20240226; JP WO2022101986 A1 20220519; US 2023375238 A1 20231123; WO 2022101986 A1 20220519

DOCDB simple family (application)
EP 20961514 A 20201110; JP 2020041931 W 20201110; JP 2022561728 A 20201110; US 202018044105 A 20201110