

Title (en)

HEAT SOURCE UNIT, REFRIGERATION CYCLE DEVICE, AND REFRIGERATOR

Title (de)

WÄRMEQUELLENEINHEIT, KÄLTEKREISLAUFVORRICHTUNG UND KÜHLSCHRANK

Title (fr)

UNITÉ DE SOURCE DE CHALEUR, DISPOSITIF À CYCLE DE RÉFRIGÉRATION ET RÉFRIGÉRATEUR

Publication

EP 4137756 A4 20230816 (EN)

Application

EP 20931630 A 20200414

Priority

JP 2020016420 W 20200414

Abstract (en)

[origin: EP4137756A1] A heat source unit (2) includes: a first flow path (80-83, 89) to be connected to a load device (3) so as to form a circulation flow path through which a refrigerant circulates; a compression device (10), an oil separator (20), and a condenser (30) that are disposed in the first flow path; a second flow path (91, 93) to return the refrigerant that has passed through the condenser (30) to the compression device (10) from an intermediate-pressure port (G3), the second flow path branching from a branch point in the first flow path; a second expansion device (LEV2) disposed in the second flow path; and an oil distributor (150) that is configured to return refrigerating machine oil discharged from an oil outlet of the oil separator (20) to the compression device (10). The oil distributor (150) is capable of changing a ratio at which the refrigerating machine oil is distributed to the intermediate-pressure port (G3) and the suction port (G1).

IPC 8 full level

F25B 43/02 (2006.01); **F25B 1/00** (2006.01)

CPC (source: EP)

F25B 31/004 (2013.01); **F25B 31/006** (2013.01); **F25B 41/30** (2021.01); **F25B 43/02** (2013.01); **F25B 49/02** (2013.01); **F25B 2500/19** (2013.01); **F25B 2500/28** (2013.01); **F25B 2600/0251** (2013.01); **F25B 2600/2513** (2013.01)

Citation (search report)

- [Y] CN 106052178 A 20161026 - UNIV HUNAN
- [Y] CN 110966202 A 20200407 - GUANGDONG MEIZHI PREC MFG CO
- See references of WO 2021210064A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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