Title (en)

REFRIGERATION CYCLE DEVICE

Title (de)

KÄLTEKREISLAUFVORRICHTUNG

Title (fr)

DISPOSITIF À CYCLE FRIGORIFIQUE

Publication

EP 3859230 A1 20210804 (EN)

Application

EP 18935610 A 20180925

Priority

JP 2018035376 W 20180925

Abstract (en)

To provide a refrigeration cycle apparatus in which a subcooling circuit can exhibit sufficient performance using a simple configuration. A refrigeration cycle apparatus 1 is provided with a refrigerant pipe 8 that connects a compressor 2, an outdoor heat exchanger 3, a subcooling circuit 5, an indoor expansion valve 6, and an indoor heat exchanger 7 and through which a refrigerant is caused to flow. The refrigerant pipe 8 includes: a main circuit pipe 31 for circulating the refrigerant through the compressor 2, the outdoor heat exchanger 3, the subcooling circuit 5, the indoor expansion valve 6, and the indoor heat exchanger 7; a bypass circuit pipe 32 branching from the middle of the main circuit pipe 31 connecting the subcooling circuit 5 to the indoor expansion valve 6 and bypassing the refrigerant to the compressor2; and a branch section 33 between the main circuit pipe 31 and the bypass circuit pipe 32. The branch section 33 includes an upstream pipe section 51, a main circuit branch pipe section 52 that branches upward from the upstream pipe section 51 and extends toward the indoor expansion valve 6, and a bypass circuit branch pipe section 53 that branches downward from the upstream pipe section 51 and extends toward the subcooling circuit 5.

IPC 8 full level

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

CPC (source: EP)

F25B 41/42 (2021.01); **F25B 43/00** (2013.01); F25B 2313/0233 (2013.01); F25B 2400/02 (2013.01); F25B 2400/13 (2013.01)

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Designated extension state (EPC)

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