

Title (en)

OUTDOOR UNIT AND REFRIGERATION CYCLE DEVICE EQUIPPED WITH SAME

Title (de)

AUSSENEINHEIT UND DAMIT AUSGESTATTETE KÄLTEKREISLAUFVORRICHTUNG

Title (fr)

UNITÉ EXTÉRIEURE ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION ÉQUIPÉ DE LADITE UNITÉ

Publication

EP 3951288 A4 20220323 (EN)

Application

EP 19922100 A 20190326

Priority

JP 2019012745 W 20190326

Abstract (en)

[origin: EP3951288A1] An outdoor unit (2) is connected with an indoor unit (3) to form a refrigeration cycle apparatus (1). The outdoor unit (2) includes a compressor (10), a condenser (20), and a control device (100). The compressor (10) and the condenser (20) form a refrigerant circuit (5) through which refrigerant circulates, together with an expansion mechanism (50) and an evaporator (60) included in the indoor unit (3). The control device (100) determines whether or not the refrigerant circulating through the refrigerant circuit (5) is insufficient, and when the control device (100) determines that the refrigerant is insufficient, the control device (100) gives notice of one of liquid back operation, operation in which an evaporation temperature of the refrigerant is high, and leakage of the refrigerant from the refrigerant circuit, as a factor in determining that the refrigerant is insufficient.

IPC 8 full level

F25B 49/02 (2006.01); **F25B 40/00** (2006.01); **F25B 40/02** (2006.01); **F25B 49/00** (2006.01)

CPC (source: EP)

F25B 40/00 (2013.01); **F25B 40/02** (2013.01); **F25B 49/005** (2013.01); **F25B 49/02** (2013.01); **F25B 2400/01** (2013.01); **F25B 2400/04** (2013.01); **F25B 2500/222** (2013.01); **F25B 2600/05** (2013.01); **F25B 2600/19** (2013.01); **F25B 2600/21** (2013.01); **F25B 2700/1931** (2013.01); **F25B 2700/1933** (2013.01); **F25B 2700/2101** (2013.01); **F25B 2700/21151** (2013.01); **F25B 2700/21162** (2013.01); **F25B 2700/21163** (2013.01)

Citation (search report)

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- [Y] JP 2011226704 A 20111110 - MITSUBISHI ELECTRIC CORP
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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)

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DOCDB simple family (publication)

EP 3951288 A1 20220209; **EP 3951288 A4 20220323**; CN 113614473 A 20211105; CN 113614473 B 20221220; JP 7154388 B2 20221017; JP WO2020194490 A1 20211111; WO 2020194490 A1 20201001

DOCDB simple family (application)

EP 19922100 A 20190326; CN 201980094183 A 20190326; JP 2019012745 W 20190326; JP 2021508457 A 20190326