

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE FRIGORIFIQUE

Publication
EP 4151926 A4 20230614 (EN)

Application
EP 20935247 A 20200511

Priority
JP 2020018843 W 20200511

Abstract (en)
[origin: EP4151926A1] A refrigeration cycle apparatus (100) comprises a refrigerant circuit (C1) and a refrigerant storage circuit (C2). In the refrigerant circuit (C1), a compressor (1), an outdoor heat exchanger (2), an expansion valve (3), and an indoor heat exchanger (4) are connected together by a pipe (P). The pipe (P) has a first pipe portion (P1) and a second pipe portion (P2). The first pipe portion (P1) connects the outdoor heat exchanger (2) to the expansion valve (3). The second pipe portion (P2) connects the indoor heat exchanger (4) to the compressor (1). The refrigerant storage circuit (C2) has a storage container (12), an expander (13), and a valve device (11). The storage container (12) stores refrigerant. The expander (13) is located between the storage container (12) and the second pipe (P2). The valve device (11) is located between the first pipe (P1) and the expander (13). The valve device (11) is configured to open and close the refrigerant storage circuit (C2).

IPC 8 full level
F25B 13/00 (2006.01); **F25B 1/00** (2006.01)

CPC (source: EP US)
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F25B 2313/0314 (2013.01 - EP); **F25B 2313/0315** (2013.01 - EP); **F25B 2400/13** (2013.01 - EP); **F25B 2400/16** (2013.01 - EP);
F25B 2700/2116 (2013.01 - EP); **F25B 2700/2117** (2013.01 - EP)

Citation (search report)
• [YA] JP 2012207823 A 20121025 - FUJITSU GENERAL LTD
• [Y] JP 2010127531 A 20100610 - MITSUBISHI ELECTRIC CORP
• [Y] CN 104949402 B 20190305
• See references of WO 2021229647A1

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

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KH MA MD TN

DOCDB simple family (publication)
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