

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication
EP 3816544 A4 20210623 (EN)

Application
EP 19825963 A 20190625

Priority
• JP 2018119779 A 20180625
• JP 2019025058 W 20190625

Abstract (en)
[origin: EP3816544A1] A refrigeration cycle apparatus (1) includes a heat-source unit (2) and a utilization unit (4a, 4b) that are connected to each other via a gas-refrigerant connection pipe (5) and a liquid-refrigerant connection pipe (6) and thereby constitute a refrigerant circuit (7). Carbon dioxide is enclosed as a refrigerant in the refrigerant circuit (7). In the refrigeration cycle apparatus (1), to reduce the amount of the refrigerant enclosed in the refrigerant circuit (7), a pipe whose inner diameter is 6.2 mm or less is used as the gas-refrigerant connection pipe (5), and/or a pipe whose inner diameter is 3.6 mm or less is used as the liquid-refrigerant connection pipe (6).

IPC 8 full level
F25B 41/00 (2021.01); **F24F 1/32** (2011.01); **F25B 1/00** (2006.01); **F25B 9/00** (2006.01); **F25B 13/00** (2006.01); **F25B 41/40** (2021.01)

CPC (source: EP)
F25B 9/008 (2013.01); **F25B 13/00** (2013.01); **F25B 41/40** (2021.01); **F25B 2309/061** (2013.01); **F25B 2313/0233** (2013.01); **F25B 2400/13** (2013.01); **F25B 2500/01** (2013.01); **F25B 2500/17** (2013.01)

Citation (search report)
• [X] JP 2008032275 A 20080214 - DAIKIN IND LTD
• [A] EP 1162412 A1 20011212 - DAIKIN IND LTD [JP]

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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EP 19825963 A 20190625; JP 2018119779 A 20180625; JP 2019025058 W 20190625