

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication
EP 4286774 A4 20240327 (EN)

Application
EP 21922799 A 20210127

Priority
JP 2021002784 W 20210127

Abstract (en)
[origin: EP4286774A1] A refrigeration cycle apparatus (100) includes a refrigerant circuit (101) and a gas-liquid separation circuit (102). The gas-liquid separation circuit (102) includes an internal heat exchanger (5), a receiver (6), a first valve (7), and a second valve (8). The internal heat exchanger (5) includes a first path (51) and a second path (52). The gas-liquid separation circuit (102) includes a first flow path (P1) and a second flow path (P2). The second flow path (P2) is configured to branch from the first flow path (P1) between the internal heat exchanger (5) and the receiver (6), and merge into the first flow path (P1) between the first valve (7) and the refrigerant circuit (101).

IPC 8 full level
F25B 43/00 (2006.01); **F25B 1/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)
F25B 45/00 (2013.01); **F25B 49/02** (2013.01); **F25B 41/20** (2021.01); **F25B 2309/06** (2013.01); **F25B 2400/13** (2013.01); **F25B 2400/16** (2013.01); **F25B 2400/23** (2013.01); **F25B 2600/2523** (2013.01)

Citation (search report)

- [X] US 2011023514 A1 20110203 - MITRA BISWAJIT [US], et al
- [A] EP 2000752 A1 20081210 - SANYO ELECTRIC CO [JP]
- [A] US 2004250568 A1 20041216 - SIENEL TOBIAS H [US]
- [A] US 2015253040 A1 20150910 - ASCHAN ANDREAS [SE], et al
- See also references of WO 2022162775A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
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