

Title (en)
REFRIGERATION CYCLE APPARATUS

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
APPAREIL À CYCLE DE RÉFRIGÉRATION

Publication
EP 4276384 A1 20231115 (EN)

Application
EP 21917415 A 20210105

Priority
JP 2021000098 W 20210105

Abstract (en)
A refrigeration cycle apparatus (1) includes: a compressor (13) in a first refrigerant path (F1) between a first heat exchanger (11) and a second heat exchanger (12); a first flow rate adjustment device (14) in a second refrigerant path (F2) between the first heat exchanger (10) and the second heat exchanger (12); a refrigerant storage device (16) provided in a third refrigerant path (F3) between the first heat exchanger (11) and the second heat exchanger (12), connected in parallel with a part of the second refrigerant path (F2), and configured to store refrigerant flowing from the second refrigerant path (F2); a second flow rate adjustment device (18) provided in the third refrigerant path (F3), and configured to adjust a flow rate of refrigerant between the refrigerant storage device (16) and the second refrigerant path (F2); and a controller (100) configured to control the second flow rate adjustment device (18) to block flow of refrigerant from the second refrigerant path (F2) into the refrigerant storage device (16) when cooling operation is started.

IPC 8 full level
F25B 1/00 (2006.01)

CPC (source: EP US)
F25B 13/00 (2013.01 - EP); **F25B 41/20** (2021.01 - EP); **F25B 41/26** (2021.01 - US); **F25B 45/00** (2013.01 - EP); **F25B 49/02** (2013.01 - EP); **F25D 21/004** (2013.01 - US); **F25B 2313/003** (2013.01 - EP); **F25B 2400/16** (2013.01 - EP); **F25B 2400/19** (2013.01 - EP); **F25B 2600/2513** (2013.01 - EP); **F25B 2600/2523** (2013.01 - EP); **F25B 2700/21152** (2013.01 - EP)

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)
EP 4276384 A1 20231115; **EP 4276384 A4 20240306**; CN 116829884 A 20230929; JP WO2022149187 A1 20220714; US 2024011696 A1 20240111; WO 2022149187 A1 20220714

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EP 21917415 A 20210105; CN 202180088505 A 20210105; JP 2021000098 W 20210105; JP 2022573816 A 20210105; US 202118255195 A 20210105