

Title (en)
REFRIGERANT STORAGE CONTAINER, AND REFRIGERATION CYCLE DEVICE PROVIDED WITH SAID REFRIGERANT STORAGE CONTAINER

Title (de)
KÄLTEMITTELAUFBEWAHRUNGSBEHÄLTER UND KÄLTEKREISLAUFVORRICHTUNG MIT DIESEM KÄLTEMITTELAUFBEWAHRUNGSBEHÄLTER

Title (fr)
RÉCIPIENT DE STOCKAGE DE FLUIDE FRIGORIGÈNE, ET DISPOSITIF À CYCLE FRIGORIFIQUE DOTÉ DUDIT RÉCIPIENT DE STOCKAGE DE FLUIDE FRIGORIGÈNE

Publication
EP 4339536 A4 20240529 (EN)

Application
EP 21941943 A 20210514

Priority
JP 2021018304 W 20210514

Abstract (en)
[origin: WO2022239211A1] This refrigerant storage container comprises: a container body that forms an outer shell; an inflow tube that is connected to the container body and allows a gas-liquid two-phase refrigerant to flow into an upper space inside the container body; an outflow tube that is connected to the container body and allows the gas refrigerant and the liquid refrigerant to flow to outside of the container body from the upper space in the container body; and an anti-wave plate that is provided inside the container body and partitions the inside of the container body into the upper space and a lower space. A plurality of through-holes that allow the upper space and the lower space to communicate with each other and allow the liquid refrigerant to flow into the lower space are formed in the anti-wave plate. The through-holes are formed in an annular shape along an inner wall surface of the container body.

IPC 8 full level
F25B 43/00 (2006.01)

CPC (source: EP)
F25B 13/00 (2013.01); **F25B 43/006** (2013.01); **F25B 2400/03** (2013.01); **F25B 2400/23** (2013.01); **F25B 2500/28** (2013.01)

Citation (search report)

- [A] WO 2020195711 A1 20201001 - NEC CORP [JP]
- [A] JP 2015172469 A 20151001 - CALSONIC KANSEI CORP
- [A] US 2019126171 A1 20190502 - XU JIAOQUAN [CN], et al
- See also references of WO 2022239211A1

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 4339536 A1 20240320; EP 4339536 A4 20240529; CN 117242310 A 20231215; JP 7433522 B2 20240219; JP WO2022239211 A1 20221117; WO 2022239211 A1 20221117

DOCDB simple family (application)
EP 21941943 A 20210514; CN 202180097762 A 20210514; JP 2021018304 W 20210514; JP 2023520703 A 20210514