

Title (en)

LIQUID SEPARATOR, COOLING SYSTEM, AND GAS-LIQUID SEPARATION METHOD

Title (de)

FLÜSSIGKEITSABSCHEIDER, KÜHLSYSTEM UND GAS-FLÜSSIGKEITS-TRENNVERFAHREN

Title (fr)

SÉPARATEUR DE LIQUIDE, SYSTÈME DE REFROIDISSEMENT ET PROCÉDÉ DE SÉPARATION GAZ-LIQUIDE

Publication

**EP 3943839 A4 20220518 (EN)**

Application

**EP 20779559 A 20200306**

Priority

- JP 2019055600 A 20190322
- JP 2020009696 W 20200306

Abstract (en)

[origin: EP3943839A1] A liquid separator including a cylindrical closed container in which a refrigerant is stored, a refrigerant inflow pipe that allows the refrigerant to flow into the closed container, and a refrigerant outflow pipe that allows the vapor-phase refrigerant in a space inside the closed container to flow out, in which the refrigerant inflow pipe and the refrigerant outflow pipe are each connected from the upper part of the closed container toward the inside thereof, and the closed container has a short cylindrical shape in which the height is smaller relative to the diameter.

IPC 8 full level

**F25B 43/00** (2006.01)

CPC (source: EP US)

**F25B 43/006** (2013.01 - EP US); **F25B 49/022** (2013.01 - EP US); **F25B 2600/02** (2013.01 - EP US); **F25B 2700/04** (2013.01 - EP US)

Citation (search report)

- [XYI] JP S563372 U 19810113
- [Y] US 9261298 B2 20160216 - WANG JINLIANG [US], et al
- [Y] JP 2002156274 A 20020531 - MITSUBISHI ELECTRIC CORP
- [Y] JP 2001027460 A 20010130 - MITSUBISHI ELECTRIC CORP
- See references of WO 2020195711A1

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

DOCDB simple family (publication)

**EP 3943839 A1 20220126**; **EP 3943839 A4 20220518**; AU 2020248049 A1 20211111; AU 2020248049 B2 20230601; JP 7188563 B2 20221213; JP WO2020195711 A1 20211021; US 2022154988 A1 20220519; WO 2020195711 A1 20201001

DOCDB simple family (application)

**EP 20779559 A 20200306**; AU 2020248049 A 20200306; JP 2020009696 W 20200306; JP 2021508941 A 20200306; US 202017439473 A 20200306