

Title (en)

GAS-LIQUID SEPARATION UNIT FOR REFRIGERATION DEVICE, AND REFRIGERATION DEVICE

Title (de)

GAS-FLÜSSIGKEITSTRENNUNGSEINHEIT FÜR EINE KÄLTEVORRICHTUNG UND KÄLTEVORRICHTUNG

Title (fr)

UNITÉ DE SÉPARATION GAZ-LIQUIDE D'UN DISPOSITIF DE RÉFRIGÉRATION, ET DISPOSITIF DE RÉFRIGÉRATION

Publication

**EP 3611442 A4 20210113 (EN)**

Application

**EP 18810412 A 20180530**

Priority

- JP 2017107915 A 20170531
- JP 2018020814 W 20180530

Abstract (en)

[origin: EP3611442A1] A refrigeration apparatus (1), in which a heat-source-side unit (2) and a utilization-side unit (3) are connected, includes a gas-liquid separation unit (4) having a gas-liquid separator (17) connected to a gas-side connection pipe (6), a first oil return pipe (31) connected to the gas-side connection pipe (6) from a bottom of a gas-liquid separator (17), and a first open/close valve (33) arranged at the first oil return pipe (31).

IPC 8 full level

**F25B 1/00** (2006.01); **F25B 13/00** (2006.01); **F25B 31/00** (2006.01); **F25B 43/02** (2006.01); **F25B 47/02** (2006.01)

CPC (source: EP)

**F25B 31/004** (2013.01); **F25B 47/025** (2013.01); **F25B 2500/16** (2013.01)

Citation (search report)

- [XAI] JP 2000346502 A 20001215 - MITSUBISHI ELEC BUILDING TECHN
- [A] JP 2013029236 A 20130207 - DAIKIN IND LTD
- [A] JP 2004218992 A 20040805 - DAIKIN IND LTD
- [A] EP 2136158 A1 20091223 - DAIKIN IND LTD [JP]
- See also references of WO 2018221613A1

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

DOCDB simple family (publication)

**EP 3611442 A1 20200219**; **EP 3611442 A4 20210113**; JP 2018204945 A 20181227; JP 6458895 B2 20190130; WO 2018221613 A1 20181206

DOCDB simple family (application)

**EP 18810412 A 20180530**; JP 2018020814 W 20180530; JP 2018103510 A 20180530