

Title (en)

HERMETIC REFRIGERANT COMPRESSOR AND FREEZING/REFRIGERATING APPARATUS USING SAME

Title (de)

HERMETISCHER KÄLTEMITTELVERDICHTER UND GEFRIER-/KÜHLGERÄT DAMIT

Title (fr)

COMPRESSEUR HERMÉTIQUE DE RÉFRIGÉRANT ET APPAREIL DE CONGÉLATION/RÉFRIGÉRATION L'UTILISANT

Publication

EP 3825388 A1 20210526 (EN)

Application

EP 19837799 A 20190702

Priority

- JP 2018136855 A 20180720
- JP 2019026301 W 20190702

Abstract (en)

A hermetic refrigerant compressor includes a sealed container 101, in which lubricating oil 103 having a kinematic viscosity in a range of 1 mm²/S to 10 mm²/S at 40°C is stored, the sealed container 101 accommodating an electric element 106 and a compression element 107, the compression element 107 being driven by the electric element 106 and configured to compress a refrigerant. The lubricating oil 103 has a surface tension in a range of 23 mN/m to 45 mN/m.

IPC 8 full level

C10M 171/02 (2006.01); **C10M 171/00** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 40/30** (2006.01)

CPC (source: CN EP)

C10M 171/008 (2013.01 - EP); **C10M 171/02** (2013.01 - CN); **F04B 37/12** (2013.01 - CN); **F04B 39/0215** (2013.01 - CN EP); **C10M 2203/1006** (2013.01 - EP); **C10M 2219/00** (2013.01 - EP); **C10M 2223/00** (2013.01 - EP); **C10N 2020/097** (2020.05 - EP); **C10N 2020/103** (2020.05 - EP); **C10N 2030/02** (2013.01 - EP); **C10N 2030/06** (2013.01 - EP); **C10N 2040/30** (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

DOCDB simple family (publication)

EP 3825388 A1 20210526; **EP 3825388 A4 20210818**; **EP 3825388 B1 20231115**; CN 112639061 A 20210409; CN 112639061 B 20221028; CN 115614253 A 20230117; EP 4303441 A2 20240110; EP 4303441 A3 20240228; JP 2021080925 A 20210527; JP 6922109 B2 20210818; JP 7307065 B2 20230711; JP WO2020017319 A1 20210812; WO 2020017319 A1 20200123

DOCDB simple family (application)

EP 19837799 A 20190702; CN 201980055604 A 20190702; CN 202211239683 A 20190702; EP 23209854 A 20190702; JP 2019026301 W 20190702; JP 2020531220 A 20190702; JP 2021003361 A 20210113