

Title (en)

HERMETICALLY SEALED REFRIGERANT COMPRESSOR AND REFRIGERATION DEVICE USING SAME

Title (de)

HERMETISCH VERSIEGELTER KÄLTEMITTELVERDICHTER UND KÜHLVORRICHTUNG MIT VERWENDUNG DAVON

Title (fr)

COMPRESSEUR FRIGORIFIQUE FERMÉ HERMÉTIQUEMENT ET DISPOSITIF FRIGORIFIQUE UTILISANT LEDIT COMPRESSEUR

Publication

EP 3617503 A4 20200304 (EN)

Application

EP 18790900 A 20180426

Priority

- JP 2017089974 A 20170428
- JP 2018016910 W 20180426

Abstract (en)

[origin: EP3617503A1] A sealed refrigerant compressor (100) includes: a compression element (107) accommodated in a sealed container (101) and configured to compress a refrigerant; and an electric element (106) configured to drive the compression element (107). Lubricating oil (103) is stored in the sealed container (101). A resin member is included as a member accommodated in the sealed container (101). The amount of oligomer contained in the resin member is 2.5 wt.% or less of an entire weight of the resin member. Kinetic viscosity of the lubricating oil 103 at 40°C falls within a range of 0.1 to 5.1 mm²/s. A flash point of the lubricating oil 103 is 110°C or more.

IPC 8 full level

F04B 39/00 (2006.01); **F04B 39/02** (2006.01); **F04B 39/12** (2006.01)

CPC (source: EP US)

F04B 35/04 (2013.01 - US); **F04B 39/0215** (2013.01 - EP); **F04B 39/023** (2013.01 - EP US); **F04B 39/0238** (2013.01 - EP); **F04B 39/12** (2013.01 - EP); **C10N 2020/02** (2013.01 - US); **C10N 2040/30** (2013.01 - US); **F04B 39/0005** (2013.01 - US); **F04B 39/0094** (2013.01 - US); **F04B 39/12** (2013.01 - US); **F25B 1/02** (2013.01 - US); **F25B 2500/13** (2013.01 - US)

Citation (search report)

- [XY] EP 1721076 A1 20061115 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [Y] JP 2006046102 A 20060216 - MATSUSHITA ELECTRIC IND CO LTD
- [A] JP 2011068899 A 20110407 - NTN TOYO BEARING CO LTD
- [Y] WO 2016117378 A1 20160728 - IDEMITSU KOSAN CO [JP] & EP 3249030 A1 20171129 - IDEMITSU KOSAN CO [JP]
- See references of WO 2018199206A1

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 3617503 A1 20200304; **EP 3617503 A4 20200304**; CN 110573733 A 20191213; JP 2021088991 A 20210610; JP WO2018199206 A1 20200319; US 2020149520 A1 20200514; WO 2018199206 A1 20181101

DOCDB simple family (application)

EP 18790900 A 20180426; CN 201880028216 A 20180426; JP 2018016910 W 20180426; JP 2019514599 A 20180426; JP 2021018755 A 20210209; US 201816609072 A 20180426