

Title (en)
HERMETICALLY ENCAPSULATED REFRIGERANT COMPRESSOR

Title (de)
HERMETISCH GEKAPSELTER KÄLTEMITTELVERDICHTER

Title (fr)
COMPRESSEUR DE FLUIDE FRIGORIGÈNE HERMÉTIQUEMENT ENCAPSULÉ

Publication
EP 4077942 A1 20221026 (DE)

Application
EP 20811514 A 20201112

Priority

- AT 502352019 U 20191219
- AT 2020060401 W 20201112

Abstract (en)
[origin: WO2021119683A1] The invention relates to a hermetically encapsulated refrigerant compressor (1) comprising a cylinder (3), a piston (4) arranged in the cylinder (3), said piston having a piston axis (4a), a valve plate (5) having a suction valve opening (6) and a discharge valve (7), a cylinder head (8) on the side of the valve plate (5) facing away from the cylinder (3), a cylinder head cover (10) which has an outlet for compressed refrigerant, and a muffler (12). A connecting piece (11) is arranged on the side of the valve plate (5) facing away from the cylinder (3) as an inlet for refrigerant to be suctioned in, wherein the connecting piece (11) has a first end (11a) that is arranged on the suction valve opening (6) and a second end (11b). The connecting piece (11) is inclined relative to the piston axis (4a) at a maximum inclination angle (α) of between -45° and $+45^\circ$. The muffler (12) has a housing (12a) having an intake opening (12b) into which the second end (11b) of the connecting piece (11) opens.

IPC 8 full level
F04B 39/00 (2006.01); **F04B 39/12** (2006.01)

CPC (source: AT EP US)
F04B 39/0027 (2013.01 - AT US); **F04B 39/0061** (2013.01 - EP US); **F04B 39/0066** (2013.01 - US); **F04B 39/121** (2013.01 - EP US); **F04B 39/123** (2013.01 - EP US); **F04B 39/125** (2013.01 - EP US)

Citation (search report)
See references of WO 2021119683A1

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)
WO 2021119683 A1 20210624; AT 17214 U1 20210915; CN 114930022 A 20220819; EP 4077942 A1 20221026; EP 4077942 B1 20230906; US 2023031688 A1 20230202

DOCDB simple family (application)
AT 2020060401 W 20201112; AT 502352019 U 20191219; CN 202080087923 A 20201112; EP 20811514 A 20201112; US 202017757577 A 20201112