

Title (en)
COOLANT COMPRESSOR

Title (de)
KÄLTEMITTELVERDICHTER

Title (fr)
COMPRESSEUR FRIGORIFIQUE

Publication
EP 3657017 B1 20230906 (DE)

Application
EP 19208947 A 20191113

Priority
DE 102018129473 A 20181122

Abstract (en)
[origin: US2020166250A1] In order to improve a refrigerant compressor, in particular for a refrigeration system, including a common housing, a compressor unit arranged in the common housing, a mechanical compressor drive unit for the compressor unit, arranged in a drive chamber of the common housing, a lubricant bath forming in the drive chamber, an intake duct that extends in the common housing in a manner separated from the drive chamber and through which the compressor unit draws in by suction refrigerant that is to be compressed, such that a refrigerant compressor is provided in which the spurting of lubricant is reduced to the greatest possible extent, it is proposed that that the intake duct and the drive chamber should be connected by way of a gas equaliser duct, which allows a permanent equalisation of gas between them, and which has on one side an opening on the drive chamber side and on the other an opening on the intake side, and of which the duct length between the openings corresponds to at least twice an equivalent duct diameter, in particular a smallest equivalent duct diameter, of the gas equaliser duct.

IPC 8 full level
F04B 39/02 (2006.01); **F04B 39/12** (2006.01)

CPC (source: CN EP RU US)
F04B 39/02 (2013.01 - US); **F04B 39/023** (2013.01 - US); **F04B 39/0284** (2013.01 - EP RU US); **F04B 39/04** (2013.01 - CN);
F04B 39/121 (2013.01 - EP RU); **F04B 39/123** (2013.01 - EP RU); **F04B 39/128** (2013.01 - EP RU); **F25B 31/002** (2013.01 - RU US);
F04B 39/04 (2013.01 - US)

Cited by
EP4283123A1

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 3657017 A1 20200527; **EP 3657017 B1 20230906**; AU 2019268187 A1 20200611; AU 2019268187 B2 20211104;
BR 102019024492 A2 20200714; CN 111207059 A 20200529; CN 111207059 B 20221230; DE 102018129473 A1 20200528;
RU 2731373 C1 20200902; US 11543160 B2 20230103; US 2020166250 A1 20200528

DOCDB simple family (application)
EP 19208947 A 20191113; AU 2019268187 A 20191122; BR 102019024492 A 20191121; CN 201911147070 A 20191121;
DE 102018129473 A 20181122; RU 2019136740 A 20191115; US 201916691931 A 20191122