

Title (en)
COMPRESSOR

Title (de)
VERDICHTER

Title (fr)
COMPRESSEUR

Publication
EP 3080455 B1 20210922 (DE)

Application
EP 14821504 A 20141212

Priority
• DE 102013020535 A 20131212
• EP 2014003342 W 20141212

Abstract (en)
[origin: WO2015086158A1] The invention relates to a screw-type compressor (10) for compressing refrigerant, which comprises: an electric motor (14), which has a rotor (16) and a stator (18); a drive shaft (20); and a compressing device (22) having a compressor screw (24); wherein the compressor screw (24) and the rotor (16) of the electric motor (14) are arranged against or on the drive shaft (20), wherein the drive shaft (20) is rotatably supported by means of a first, a second, and a third radial bearing (27, 28, 30), wherein the first radial bearing (27) is arranged between the rotor (16) of the electric motor (14) and the compressor screw (24), wherein the second radial bearing (28) is arranged on a side of the compressor screw (24) opposite the first radial bearing (27), and wherein the third radial bearing (30) is arranged on a side of the rotor (16) of the electric motor (14) opposite the first radial bearing (27), wherein the first radial bearing and the second radial bearing are both designed as rolling-element bearings, and the third radial bearing (30) is designed as a plain bearing.

IPC 8 full level
F04C 18/16 (2006.01)

CPC (source: EP US)
F04C 18/16 (2013.01 - EP US); **F04C 29/0085** (2013.01 - US); **F04C 29/021** (2013.01 - US); **F04C 2240/40** (2013.01 - US); **F04C 2240/50** (2013.01 - EP US); **F04C 2240/52** (2013.01 - EP US); **F04C 2240/601** (2013.01 - EP US)

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)
DE 102013020535 A1 20150618; CN 105874205 A 20160817; EP 3080455 A1 20161019; EP 3080455 B1 20210922; US 2016327040 A1 20161110; WO 2015086158 A1 20150618

DOCDB simple family (application)
DE 102013020535 A 20131212; CN 201480066849 A 20141212; EP 14821504 A 20141212; EP 2014003342 W 20141212; US 201415102678 A 20141212