

Title (en)
SCREW COMPRESSOR

Title (de)
SCHRAUBENVERDICHTER

Title (fr)
COMPRESSEUR À VIS

Publication
EP 3978759 A1 20220406 (EN)

Application
EP 19930726 A 20190528

Priority
JP 2019020999 W 20190528

Abstract (en)
A screw compressor includes a casing forming an outer shell, a screw shaft configured to be driven to rotate, a screw rotor fixed to the screw shaft, a gate rotor forming, together with the casing and the screw rotor, a compression chamber in which to compress refrigerant, a slide valve configured to slide in a direction parallel to an axis of rotation of the screw rotor, a bearing housing having a bearing inside, the bearing being configured to support one end of the screw shaft so that the screw shaft is able to rotate, an oil separator configured to separate oil mixed into refrigerant compressed in the compression chamber, and a heating mechanism connected to the oil separator and configured to, by utilizing oil separated by the oil separator, thermally expand the bearing housing in a radial direction during operation.

IPC 8 full level
F04C 18/52 (2006.01)

CPC (source: EP)
F01C 21/02 (2013.01); **F04C 18/52** (2013.01); **F04C 29/026** (2013.01); **F04C 29/04** (2013.01); **F01C 21/102** (2013.01); **F04C 28/12** (2013.01); **F04C 2240/56** (2013.01); **F04C 2240/809** (2013.01)

Cited by
CN115076107A

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 3978759 A1 20220406; **EP 3978759 A4 20220706**; WO 2020240678 A1 20201203

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