

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À VOLUTE

Publication
EP 3318759 A4 20181031 (EN)

Application
EP 16866107 A 20161025

Priority
• JP 2015227877 A 20151120
• JP 2016081635 W 20161025

Abstract (en)
[origin: EP3318759A1] A scroll compressor is equipped with: a scroll compression mechanism that is housed in a housing and compresses a low-pressure gas; a motor that is linked to the scroll compression mechanism by a rotary shaft and that drives the scroll compression mechanism; an upper bearing and a lower bearing that support the rotary shaft in a rotatable manner; and an oil supply pump that draws in lubricating oil due to the rotation of the rotary shaft and supplies the lubricating oil to sliding parts. The oil supply pump is a positive-displacement pump which is capable of operating in an operating region wherein the rotational frequency of the motor is 150 rps or higher, and for which an inclination indicating the rate of increase in the amount of oil supplied per unit time with respect to the rotational frequency decreases as the rotational frequency increases.

IPC 8 full level
F04C 18/02 (2006.01); **F04C 23/00** (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 23/008** (2013.01); **F04C 29/025** (2013.01); **F04C 29/028** (2013.01)

Citation (search report)
• [I] JP H08177773 A 19960712 - TOSHIBA CORP
• [I] JP 2003184776 A 20030703 - MITSUBISHI HEAVY IND LTD
• [A] EP 2703649 A1 20140305 - HITACHI LTD [JP]
• [A] JP H06137292 A 19940517 - DAIKIN IND LTD
• See references of WO 2017086105A1

Cited by
DE102020115376B4

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 3318759 A1 20180509; EP 3318759 A4 20181031; CN 107850069 A 20180327; CN 107850069 B 20190412; JP 2017096145 A 20170601; WO 2017086105 A1 20170526

DOCDB simple family (application)
EP 16866107 A 20161025; CN 201680043307 A 20161025; JP 2015227877 A 20151120; JP 2016081635 W 20161025