

Title (en)
HERMETIC SCROLL COMPRESSOR

Title (de)
HERMETISCHER SPIRALVERDICHTER

Title (fr)
Compresseur à spirale hermétique

Publication
EP 2905469 A1 20150812 (EN)

Application
EP 15151872 A 20150121

Priority
JP 2014021560 A 20140206

Abstract (en)
A hermetic scroll compressor (1) includes a scroll compression mechanism (7) supported via a bearing member (6), a motor (8) connected to a drive shaft (11) supported with the bearing member (6), and a balance weight (34) provided on an end surface of a rotor (10) of the motor (8) along a periphery of the rotor (10), the end surface being on a side facing the bearing member (6). A length in an axial direction (L) of a journal bearing part (6A) pivotally supporting the drive shaft (11) in the bearing member (6) is set to 0.8 to 1.6 times a bearing diameter (D) and a flange part (34A) rising in the axial direction from a periphery region of the balance weight (34) is provided to overlap with a periphery side of an extended part in the axial direction (6B) of the journal bearing part (6A).

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

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 23/008** (2013.01); **F04C 29/026** (2013.01); **F04C 29/0021** (2013.01); **F04C 2240/807** (2013.01)

Citation (applicant)
• JP 2009036136 A 20090219 - HITACHI APPLIANCES INC
• JP 2010121583 A 20100603 - HITACHI APPLIANCES INC

Citation (search report)
• [I] US 2010150752 A1 20100617 - NAKAMURA SATOSHI [JP], et al
• [I] US 2006133944 A1 20060622 - DOEPKER ROY J [US], et al
• [I] US 2011044833 A1 20110224 - DUNAEVSKY VALERY [US]
• [I] JP H05195967 A 19930806 - HITACHI LTD
• [I] US 6231317 B1 20010515 - WATANABE KAZUTAKA [JP], et al

Cited by
CN110005607A; US2015056091A1; US9435337B2

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 2905469 A1 20150812; JP 2015148195 A 20150820; JP 6297346 B2 20180320

DOCDB simple family (application)
EP 15151872 A 20150121; JP 2014021560 A 20140206