

Title (en)
HERMETIC COMPRESSOR

Title (de)
HERMETISCHER VERDICHTER

Title (fr)
COMPRESSEUR HERMÉTIQUE

Publication
EP 3575605 A4 20200108 (EN)

Application
EP 18743943 A 20180117

Priority
• JP 2017012607 A 20170127
• JP 2018001200 W 20180117

Abstract (en)
[origin: EP3575605A1] In a hermetic compressor of the present invention, a rotation shaft oil support hole 13c is formed in a rotation shaft 13, a lower end 13b of the rotation shaft 13 includes an oil groove 13f and a lateral hole 13g, a plate-side oil passage 42 is formed in a thrust-receiving plate 40, and a housing-side oil passage 51 is formed in an oil pump housing 50. At a location higher than the oil groove 13f, lubricant oil supplied from the lateral hole 13g moves downward in the oil groove 13f by bringing an upper portion of the sliding bearing 13e and the rotation shaft 13 into abutment against each other, and the lubricant oil in the oil groove 13f is discharged below the auxiliary bearing 18 through the plate-side oil passage 42 and the housing-side oil passage 51. According to this configuration, it is possible to prevent the lubricant oil from being discharged to the upper portion of the auxiliary bearing 18.

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

CPC (source: EP)
F04C 18/02 (2013.01); **F04C 23/008** (2013.01); **F04C 29/00** (2013.01); **F04C 29/02** (2013.01); **F04C 29/023** (2013.01); **F04C 18/0215** (2013.01); **F04C 29/025** (2013.01); **F04C 2240/60** (2013.01)

Citation (search report)
• [A] JP 2015034473 A 20150219 - DAIKIN IND LTD
• [A] JP H04292595 A 19921016 - MITSUBISHI HEAVY IND LTD
• [A] US 2014017108 A1 20140116 - UEKAWA TAKASHI [JP], et al
• [A] EP 2327882 A2 20110601 - SANDEN CORP [JP]
• [A] EP 3032104 A1 20160615 - DAIKIN IND LTD [JP]
• See references of WO 2018139308A1

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 3575605 A1 20191204; EP 3575605 A4 20200108; EP 3575605 B1 20211006; CN 110226041 A 20190910; CN 110226041 B 20210810; JP 2018119503 A 20180802; JP 6748874 B2 20200902; WO 2018139308 A1 20180802

DOCDB simple family (application)
EP 18743943 A 20180117; CN 201880008443 A 20180117; JP 2017012607 A 20170127; JP 2018001200 W 20180117