

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALES

Publication
EP 3690246 A1 20200805 (EN)

Application
EP 20154771 A 20200131

Priority
KR 20190014114 A 20190201

Abstract (en)
A scroll compressor according to the present invention provides a driving part configured to generate torque in a main housing forming an accommodation space and a compression part driven by the driving part to form a compression room in which a refrigerant is compressed. The torque of the driving part is transmitted to the compression part by a driving shaft. The driving shaft is rotatably supported by a main bearing, and the main bearing is installed in a region of a side of the driving part in which the refrigerant is not compressed. Accordingly, since the main bearing is disposed in a low pressure region, a load applied to the main bearing may be decreased.

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

CPC (source: EP KR US)
F04C 18/0207 (2013.01 - KR); **F04C 18/0215** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP); **F04C 25/00** (2013.01 - US); **F04C 27/009** (2013.01 - US); **F04C 29/00** (2013.01 - KR); **F04C 29/0057** (2013.01 - EP US); **F04C 2210/261** (2013.01 - KR US); **F04C 2240/50** (2013.01 - EP KR); **F04C 2240/56** (2013.01 - US); **F05B 2210/14** (2013.01 - KR); **F05B 2240/50** (2013.01 - KR); **F05B 2240/57** (2013.01 - KR)

Citation (applicant)
KR 100937919 B1 20100121

Citation (search report)
• [X] WO 2004010001 A1 20040129 - ZEXEL VALEO CLIMATE CONTR CORP [JP], et al
• [A] EP 1818541 A1 20070815 - TOYOTA JIDOSHOKKI KK [JP]
• [A] US 2008038133 A1 20080214 - SAWAI KIYOSHI [JP], et al

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 3690246 A1 20200805; KR 20200095994 A 20200811; US 2020248691 A1 20200806

DOCDB simple family (application)
EP 20154771 A 20200131; KR 20190014114 A 20190201; US 202016776937 A 20200130