

Title (en)
MOTOR-OPERATED COMPRESSOR

Title (de)
MOTORBETRIEBENER KOMPRESSOR

Title (fr)
COMPRESSEUR MOTORISÉ

Publication
EP 3553317 A1 20191016 (EN)

Application
EP 19168827 A 20190412

Priority
KR 20180043510 A 20180413

Abstract (en)
Provided is a motor-operated compressor including a casing having an inner space composed of a suction space and a discharge space, a first scroll provided in the inner space of the casing, a second scroll configured to orbit in engagement with the first scroll to form a pair of two compression chambers between the first scroll and the second scroll, a rotary shaft coupled to the second scroll and configured to transfer a rotational force of a driving motor to the second scroll, and an intermediate pressure space formed on one side of the second scroll to communicate with the discharge space, configured to accommodate oil flowing in from the discharge space to form back pressure supporting the second scroll toward the first scroll, and opened toward the suction space so that a portion of the accommodated oil flows out into the suction space.

IPC 8 full level
F04C 18/02 (2006.01); **F04C 27/00** (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP KR US)
F04C 18/0215 (2013.01 - EP KR US); **F04C 27/005** (2013.01 - EP); **F04C 28/22** (2013.01 - KR); **F04C 29/023** (2013.01 - EP KR US); **F04C 29/028** (2013.01 - EP US); **F04C 2240/50** (2013.01 - KR US); **F04C 2240/52** (2013.01 - EP); **F04C 2240/603** (2013.01 - EP KR); **F04C 2240/70** (2013.01 - KR)

Citation (applicant)
US 2014134032 A1 20140515 - TOZAWA KOSAKU [JP], et al

Citation (search report)
• [E] EP 3508728 A2 20190710 - LG ELECTRONICS INC [KR]
• [XD] US 2014134032 A1 20140515 - TOZAWA KOSAKU [JP], et al
• [X] US 2017292517 A1 20171012 - LEE JUNG GU [KR], et al
• [X] US 4958993 A 19900925 - FUJIO KATUHARU [JP]
• [A] US 9816505 B2 20171114 - LEE KANGWOOK [KR], 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 3553317 A1 20191016; **EP 3553317 B1 20230531**; KR 102031851 B1 20191014; US 2019316587 A1 20191017

DOCDB simple family (application)
EP 19168827 A 20190412; KR 20180043510 A 20180413; US 201916381064 A 20190411