

Title (en)
MOTOR-OPERATED COMPRESSOR

Title (de)
MOTORBETRIEBENER KOMPRESSOR

Title (fr)
COMPRESSEUR MOTORISÉ

Publication
EP 3712435 A3 20200930 (EN)

Application
EP 20153607 A 20200124

Priority
KR 20190032498 A 20190321

Abstract (en)
A motor-operated compressor is provided that may include an orbiting scroll and a rear housing supporting a rear surface of the orbiting scroll. The rear housing may be provided with a discharge space communicating with a discharge port of the orbiting scroll formed at a central portion of a surface facing the orbiting scroll, an oil separation space formed at one side of the discharge space to communicate with the discharge space, and an oil storage space formed at an edge portion of the surface facing the orbiting scroll. An oil return passage may be provided between the oil separation space and the oil storage space, so as to guide oil separated in the oil separation space to the oil storage space. Accordingly, a space for storing oil separated from a discharged refrigerant may be sufficiently secured while allowing the rear housing defining the oil storage space to be easily fabricated.

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

CPC (source: EP KR US)
F04C 18/0215 (2013.01 - EP KR US); **F04C 18/0292** (2013.01 - US); **F04C 23/008** (2013.01 - EP); **F04C 27/008** (2013.01 - US); **F04C 29/0057** (2013.01 - US); **F04C 29/02** (2013.01 - EP KR US); **F04C 29/023** (2013.01 - US); **F04C 29/026** (2013.01 - US); **F04C 2210/26** (2013.01 - KR); **F04C 2230/60** (2013.01 - EP); **F04C 2240/30** (2013.01 - KR US); **F04C 2240/50** (2013.01 - US); **F04C 2240/60** (2013.01 - US); **F04C 2240/603** (2013.01 - US); **F04C 2240/80** (2013.01 - KR); **F05B 2210/14** (2013.01 - KR); **F05B 2240/57** (2013.01 - KR)

Citation (search report)

- [YA] JP 2012207547 A 20121025 - TOYOTA IND CORP
- [Y] US 2014348680 A1 20141127 - LEE JAESANG [KR], et al
- [Y] KR 20130031736 A 20130329 - LG ELECTRONICS INC [KR]

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 3712435 A2 20200923; **EP 3712435 A3 20200930**; KR 102191126 B1 20201216; KR 20200112270 A 20201005; US 2020300245 A1 20200924

DOCDB simple family (application)
EP 20153607 A 20200124; KR 20190032498 A 20190321; US 202016748896 A 20200122