

Title (en)
A hermetic type compressor

Title (de)
Hermetischer Kompressor

Title (fr)
Compresseur de type hermétique

Publication
EP 2093525 A3 20141126 (EN)

Application
EP 09250201 A 20090126

Priority
JP 2008038860 A 20080220

Abstract (en)
[origin: EP2093525A2] The hermetic type compressor 100 according to the present invention comprises, inside a hermetic container 1, a compressing mechanism portion 20 and an electric motor 10 for driving the compressing mechanism portion 20, and performs compression of the refrigerant continuously by dividing a compression room with a vane into a high-pressure room and a low-pressure room. The compression room is composed of a cylinder 16 that disposes therein a rolling piston 7 fitted to an eccentric axis 6a of the crankshaft 6 rotated by the electric motor 10, and a cylinder head 4 and a frame 5 that block both ends of the cylinder 16 in an axial direction. According to the hermetic type compressor 100 using the HC refrigerant, the electric motor is fitted and fixed to an inner peripheral plane of the hermetic container. An outer diameter of the electric motor is less than an outer diameter of the compressing mechanism portion. For the cylinder having an inner diameter D and a height H, D/H is set to more than 0.5 and less than 0.6.

IPC 8 full level
F25B 31/02 (2006.01)

CPC (source: EP KR)
F04C 18/3564 (2013.01 - EP KR); **F04C 23/008** (2013.01 - EP KR); **F25B 31/026** (2013.01 - EP KR); **F04C 2240/30** (2013.01 - KR); **F04C 2270/70** (2013.01 - EP KR); **F05B 2210/12** (2013.01 - KR); **F05B 2210/14** (2013.01 - KR); **F25B 2400/12** (2013.01 - EP KR); **F25B 2500/01** (2013.01 - EP KR); **Y10S 417/902** (2013.01 - KR)

Citation (search report)
• [YD] JP 2000065431 A 20000303 - MATSUSHITA ELECTRIC IND CO LTD
• [Y] JP S60259790 A 19851221 - HITACHI LTD
• [A] JP 2001140773 A 20010522 - MITSUBISHI ELECTRIC CORP

Cited by
US10365021B2; US2015204587A1; EP2908071A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2093525 A2 20090826; EP 2093525 A3 20141126; EP 2093525 B1 20180110; CN 101514696 A 20090826; CN 101514696 B 20110622; JP 2009197644 A 20090903; JP 5132351 B2 20130130; KR 101064374 B1 20110914; KR 20090090265 A 20090825

DOCDB simple family (application)
EP 09250201 A 20090126; CN 200910004863 A 20090121; JP 2008038860 A 20080220; KR 20090005473 A 20090122