

Title (en)
Sealed type compressor with suction filter

Title (de)
Hermetischer Verdichter mit Ansaugfilter

Title (fr)
Compresseur du type hermétique avec filtre d'admission

Publication
EP 1643130 A1 20060405 (EN)

Application
EP 05020757 A 20050923

Priority
• JP 2004284269 A 20040929
• JP 2004339043 A 20041124

Abstract (en)
A compressor is provided which enables easy installation of the filter even when any refrigerant suction passage cannot be provided on a cylinder side of a compression element or even when any long suction passage cannot be provided. The compressor comprises, in a sealed container 12, a drive element 14, a rotary compression mechanism 18 including first and second rotary compression elements 32 and 34, an upper support member 54 and a lower support member 56 for journaling a rotary shaft 16. The upper support member 54 and the lower support member 56 are provided with suction passages 58 and 60 for communicating with the interior of upper and lower cylinders 38 and 40 at suction ports 161 and 162, respectively, and recessed noise eliminating chambers 62 and 64. Filter installation portions 180 and 182 which are recessed are provided to surround and enclose open ends of the suction passages 58 and 60. Filters 184 and 186 are inserted into and installed on the filter installation portions 180 and 182, respectively, and the filter 184 is pressed against and stopped by the upper surface of the upper cylinder 38, while the filter 186 is pressed against and stopped by the lower surface of the lower cylinder 40.

IPC 8 full level
F04C 29/00 (2006.01); **F01C 21/10** (2006.01); **F04C 18/356** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP KR US)
F01C 21/106 (2013.01 - EP US); **F01C 21/108** (2013.01 - EP US); **F04B 39/00** (2013.01 - KR); **F04B 39/16** (2013.01 - KR); **F04C 18/3564** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 29/00** (2013.01 - KR); **F04C 29/0092** (2013.01 - EP US); **F04C 18/0207** (2013.01 - EP US); **F04C 23/001** (2013.01 - EP US); **F04C 2230/60** (2013.01 - EP US)

Citation (search report)
• [X] US 4560329 A 19851224 - HIRAHARA TAKUHO [JP], et al
• [X] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02 29 February 2000 (2000-02-29)
• [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 08 29 September 1995 (1995-09-29)

Cited by
US9297382B2; WO2011121320A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1643130 A1 20060405; JP 2006125377 A 20060518; KR 20060051709 A 20060519; TW 200615458 A 20060516; US 2006073034 A1 20060406

DOCDB simple family (application)
EP 05020757 A 20050923; JP 2004339043 A 20041124; KR 20050090238 A 20050928; TW 94128874 A 20050824; US 23810505 A 20050928