

Title (en)  
HERMETIC COMPRESSOR

Title (de)  
HERMETISCHER VERDICHTER

Title (fr)  
COMPRESSEUR HERMETIQUE

Publication  
**EP 1727982 B1 20090930 (EN)**

Application  
**EP 05703790 A 20050112**

Priority  
• JP 2005000553 W 20050112  
• JP 2004074278 A 20040316

Abstract (en)  
[origin: WO2005088127A1] The present invention relates to a hermetic compressor that stores oil (106), and houses compression mechanism (105) that compresses a refrigerant gas, in housing (101). Piston (140) is formed with at least two grooves (144) that do not include the edges of top surface (142) and skirt surface (143), on outer circumferential surface (145) of the piston, where groove (144) communicates with the space in housing (101), at least near the bottom dead center. Such a makeup allows the sliding part to be supplied with oil through groove (144), increasing efficiency owing to high sealability and a low sliding loss.

IPC 8 full level  
**F04B 39/02** (2006.01); **F04B 9/04** (2006.01); **F04B 27/04** (2006.01); **F04B 27/10** (2006.01); **F04B 39/00** (2006.01)

CPC (source: EP KR US)  
**F04B 39/0005** (2013.01 - EP KR US); **F04B 39/0094** (2013.01 - KR); **F04B 39/0215** (2013.01 - EP KR US); **F04B 39/023** (2013.01 - KR); **F04B 39/0238** (2013.01 - EP KR US); **F04B 39/0292** (2013.01 - EP KR US); **F04B 39/121** (2013.01 - KR); **F05B 2210/14** (2013.01 - KR); **Y10S 62/02** (2013.01 - KR); **Y10S 417/902** (2013.01 - KR)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 2005088127 A1 20050922**; CN 100445558 C 20081224; CN 1777753 A 20060524; DE 602005016904 D1 20091112; EP 1727982 A1 20061206; EP 1727982 B1 20090930; JP 2005264743 A 20050929; JP 4429769 B2 20100310; KR 100724843 B1 20070604; KR 20060061288 A 20060607; US 2006204373 A1 20060914

DOCDB simple family (application)  
**JP 2005000553 W 20050112**; CN 200580000061 A 20050112; DE 602005016904 T 20050112; EP 05703790 A 20050112; JP 2004074278 A 20040316; KR 20057016218 A 20050831; US 54433905 A 20050803