

Title (en)
HERMETIC COMPRESSOR

Title (de)
HERMETISCHER VERDICHTER

Title (fr)
COMPRESSEUR HERMETIQUE

Publication
EP 1527280 A1 20050504 (EN)

Application
EP 03736282 A 20030626

Priority
• JP 0308143 W 20030626
• JP 2002185774 A 20020626

Abstract (en)
[origin: WO2004003387A1] Relating to oil feed to a piston portion in a dual support bearing of a hermetic compressor, and a structure for improving efficiency and reliability and accomplishing reduction of noise is disclosed. In this structure, since an auxiliary bearing 119 is provided with an oil feed passage 129 for conducting lubricating oil 108 discharged from an upper end of an oil feed mechanism 114, to a sliding surface of a piston 120, the lubricating oil 108 is fed to the piston 120 and a piston pin 122 from the oil feed passage 129 to make the sealing performance excellent, so that the amount of leakage of refrigerant gas from a compression chamber 117 is reduced to improve the freezing capability or efficiency. Further, lubrication of sliding portions of the piston 120 and the piston pin 122 becomes excellent so that noise caused by sliding is reduced and the reliability is improved.

IPC 1-7
F04B 39/02

IPC 8 full level
F04B 39/02 (2006.01)

CPC (source: EP KR US)
F04B 39/02 (2013.01 - KR); **F04B 39/0246** (2013.01 - EP US); **F04B 39/0292** (2013.01 - EP US); **F04C 29/02** (2013.01 - KR)

Citation (search report)
See references of WO 2004003387A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 2004003387 A1 20040108; AU 2003238161 A1 20040119; BR 0312074 A 20050322; CN 100379986 C 20080409;
CN 1662744 A 20050831; EP 1527280 A1 20050504; JP 2004027969 A 20040129; KR 100857964 B1 20080910; KR 20050027221 A 20050318;
US 2005265863 A1 20051201

DOCDB simple family (application)
JP 0308143 W 20030626; AU 2003238161 A 20030626; BR 0312074 A 20030626; CN 03814969 A 20030626; EP 03736282 A 20030626;
JP 2002185774 A 20020626; KR 20047020714 A 20041220; US 51864305 A 20050715