

Title (en)

Cylinder bore of swash plate compressor with grooves

Title (de)

Zylinderbohrung eines Taumelscheibenkompressors mit Nuten

Title (fr)

Alésages dans le cylindre d'un compresseur à plateau en biais

Publication

EP 1092873 A2 20010418 (EN)

Application

EP 00119831 A 20000912

Priority

JP 29116999 A 19991013

Abstract (en)

A compressor is constituted so that the refrigerant gas is compressed in a compression chamber, as the rotating movement of a drive shaft is converted to the reciprocating movement of a piston through a cam plate. The object is to offer a compressor in which the weight of the piston can be effectively reduced by hollowing a main body thereof, even when a blow-by gas passage is provided. A groove is formed in the inner circumferential surface of a cylinder bore. The blow-by gas passage which communicates the compression chamber with a crank chamber, is constituted between the groove and the outer circumferential surface of the main body of the piston. <IMAGE>

IPC 1-7

F04B 27/10

IPC 8 full level

F04B 27/08 (2006.01); **F04B 27/10** (2006.01); **F04B 27/18** (2006.01)

CPC (source: EP)

F04B 27/1045 (2013.01); **F04B 27/109** (2013.01); **F04B 2027/1813** (2013.01); **F04B 2027/1827** (2013.01); **F04B 2027/1854** (2013.01); **F04B 2027/1895** (2013.01)

Cited by

EP1394411A3; CN107013491A; US7186096B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1092873 A2 20010418; JP 2001107847 A 20010417

DOCDB simple family (application)

EP 00119831 A 20000912; JP 29116999 A 19991013