

Title (en)
Swash plate type compressor

Title (de)
Taumelscheibenverdichter

Title (fr)
Compresseur à plateau en biais

Publication
EP 1118769 A2 20010725 (EN)

Application
EP 00127703 A 20001218

Priority
JP 2000009908 A 20000119

Abstract (en)
The electrically driven swash plate compressor consists of an electric motor (21) in the motor chamber (15) and a swash plate (26) with the stationary cylinder block (13) in the crank chamber (16). The swash plate is rotated by the drive shaft (17), whereby noise and vibration in the direction perpendicular to the drive shaft are reduced. The swash plate is supported on the drive shaft by the supporting member (22). The rotating supporting member (22) has an inclined surface (22A) with respect to the axis of the drive shaft for supporting the swash plate by means of the thrust bearing (23) and the radial roller bearing (25) mounted on the perpendicular shaft support (22B). The roller bearing (25) has a small frictional resistance, which results in a reduction of mechanical losses. <IMAGE>

IPC 1-7
F04B 27/10

IPC 8 full level
F04B 27/08 (2006.01); **F04B 27/10** (2006.01)

CPC (source: EP US)
F04B 27/1054 (2013.01 - EP US)

Citation (applicant)
• JP S6320864 U 19880210
• JP H10184539 A 19980714 - TOYODA AUTOMATIC LOOM WORKS

Cited by
WO2015090730A1

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
EP 1118769 A2 20010725; EP 1118769 A3 20021113; JP 2001200784 A 20010727; US 2001008607 A1 20010719

DOCDB simple family (application)
EP 00127703 A 20001218; JP 2000009908 A 20000119; US 76490801 A 20010118