

Title (en)

VARIABLE DISPLACEMENT SWASH PLATE TYPE COMPRESSOR

Title (de)

TAUMELSCHEIBENKOMPRESSOR MIT VARIABLEM HUBRAUM

Title (fr)

COMPRESSEUR A CYLINDREE VARIABLE DE TYPE A PLATEAU OSCILLANT

Publication

EP 1291522 A1 20030312 (EN)

Application

EP 01930053 A 20010511

Priority

- JP 0103927 W 20010511
- JP 2000170659 A 20000607

Abstract (en)

A variable capacity swash plate compressor includes a thrust flange 40 fixed to a shaft 5 and rotating in unison with the shaft 5, a swash plate 10 connected to the thrust flange 40 via a linkage 42 and rotating in unison with the thrust flange 40 according to rotation thereof, a hinge ball 9 slidably mounted on the shaft 5, for limiting an angle of the swash plate 10 with respect to the shaft 5, and a piston 7 connected to the swash plate 10 via shoes 11 relatively rotating on sliding surfaces 10a, 10b of the swash plate 10, and performing linear reciprocating motion within a cylinder bore 6 according to rotation of the swash plate 10, wherein the angle of inclination of the swash plate 10 changes according to a change in pressure in a crankcase 8 within which the swash plate 10 is received, to thereby change a length of stroke of the piston 7. In this variable capacity swash plate compressor, the center O1 of the hinge ball 9 is positioned toward a front side with respect to the center O2 of a plate portion 10c of the swash plate 10. <IMAGE>

IPC 1-7

F04B 27/14; **F04B 27/10**

IPC 8 full level

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

CPC (source: EP US)

F04B 27/1072 (2013.01 - EP US)

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

WO 0194785 A1 20011213; EP 1291522 A1 20030312; EP 1291522 A4 20031015; JP 2001349274 A 20011221; JP 4565367 B2 20101020; US 2003136256 A1 20030724

DOCDB simple family (application)

JP 0103927 W 20010511; EP 01930053 A 20010511; JP 2000170659 A 20000607; US 27562802 A 20021106