

Title (en)

Shoe for use in swash plate type compressor and method of forming the same

Title (de)

Gleitschuh für einen Taumelscheibenkompressor und Herstellungsverfahren dafür

Title (fr)

Patin pour un compresseur à plateau en biais et procédé de fabrication du patin

Publication

**EP 1342919 A3 20031210 (EN)**

Application

**EP 03004888 A 20030306**

Priority

JP 2002061513 A 20020307

Abstract (en)

[origin: EP1342919A2] A shoe in a swash plate type compressor has a spherical engaging surface that engages with a piston, and a plane engaging surface that is substantially a plane and engages with a swash plate. The plane engaging surface includes a substantially planar sliding surface, a substantially radially extending peripheral surface and a connecting surface. The sliding surface is formed near a center of the plane engaging surface and slides over the swash plate. The peripheral surface is formed near a periphery of the plane engaging surface, is formed at a distance from the sliding surface away from the surface of the swash plate so as to form an inwardly-directed step in the plane engaging surface, and is connected to the spherical engaging surface at its outer periphery. The connecting surface connects the sliding surface to the peripheral surface. <IMAGE>

IPC 1-7

**F04B 27/08**

IPC 8 full level

**B21J 5/02** (2006.01); **B21K 1/76** (2006.01); **F04B 27/08** (2006.01); **F04B 27/10** (2006.01)

CPC (source: EP KR US)

**F04B 27/08** (2013.01 - KR); **F04B 27/0886** (2013.01 - EP US)

Citation (search report)

- [X] US 4732047 A 19880322 - KATO MASAFUMI [JP], et al
- [X] EP 0890742 A2 19990113 - RIKEN KK [JP]
- [A] EP 1148238 A1 20011024 - TAIHO KOGYO CO LTD [JP]
- [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13 30 November 1999 (1999-11-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 425 (M - 873) 21 September 1989 (1989-09-21)

Cited by

EP3521615A4; WO2007096285A1; US10794372B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**EP 1342919 A2 20030910; EP 1342919 A3 20031210**; BR 0300404 A 20040817; CN 1443940 A 20030924; JP 2003262186 A 20030919; JP 3985552 B2 20071003; KR 20030074110 A 20030919; US 2003209137 A1 20031113

DOCDB simple family (application)

**EP 03004888 A 20030306**; BR 0300404 A 20030307; CN 03122652 A 20030306; JP 2002061513 A 20020307; KR 20020082595 A 20021223; US 38218903 A 20030305