

Title (en)
A piston for a swash plate compressor

Title (de)
Kolben für Taumelscheibenverdichter

Title (fr)
Piston pour compresseur à plateau en biais

Publication
EP 1249604 A1 20021016 (EN)

Application
EP 01109047 A 20010411

Priority
EP 01109047 A 20010411

Abstract (en)

The piston has a piston head (3) at one end and a defining recess (6) at the other end. A pressure bearing shoe (8) is connected axially in a rigid way to the piston on the piston head side of the recess. The shoe is connected using mating formations (9a,9b) formed on the shoe and/or the piston. The formations are arranged around the circumference of the piston in such a way that the lateral forces acting on the piston cannot push the shoe out of position. The mating formations can be formed by machining the piston. The shoe defines a part spherical pressure bearing surface (12).

IPC 1-7
F04B 27/08

IPC 8 full level
F04B 27/08 (2006.01)

CPC (source: EP)
F04B 27/0878 (2013.01); **F05C 2253/12** (2013.01)

Citation (applicant)

- US 5387091 A 19950207 - KAWAGUCHI MASAHIRO [JP], et al
- US 5826490 A 19981027 - MADSEN PER JOHAN [DK], et al

Citation (search report)

- [X] EP 1074737 A2 20010207 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [X] EP 0992682 A2 20000412 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [X] EP 1035326 A2 20000913 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [X] US 1837724 A 19311222 - MICHELL ANTHONY G M
- [A] US 5201261 A 19930413 - KAYUKAWA HIROAKI [US], et al
- [D] US 5826490 A 19981027 - MADSEN PER JOHAN [DK], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 544 (M - 1489) 30 September 1993 (1993-09-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 13 30 November 1998 (1998-11-30)

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DE FR GB

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