

Title (en)
Swash plate compressor

Title (de)
Taumelscheibenverdichter

Title (fr)
Compresseur à plateau en biais

Publication
EP 0854286 A3 19990407 (EN)

Application
EP 98300233 A 19980114

Priority
JP 1973797 A 19970117

Abstract (en)
[origin: EP0854286A2] A swash plate (10) of a swash plate compressor has opposite sliding surfaces (10a, 10c) and is rotatable as a drive shaft (5) rotates. Each of a plurality of pistons (7) is connected to the swash plate (10) via a pair of shoes (50) arranged to perform relative rotation on respective opposite sliding surfaces (10a, 10c) of the swash plate (10) with respect thereto, and is reciprocable within a corresponding one of a plurality of cylinder bores (6) formed through a cylinder block (1), as the swash plate (10) rotates. Each of the opposite sliding surfaces (10a, 10c) of the swash plate (10) is coated with a surface-treatment coating having a thickness which is set in a manner such that when the swash plate (10) has been assembled with each piston (7) via the pair of shoes (50), pressure is applied from the pair of shoes (50) on the sliding surfaces (10a, 10c) of the swash plate (10), and when initial abrasion of the surface-treatment coating has been completed, the base material of the swash plate (10) is not exposed. <IMAGE>

IPC 1-7
F04B 27/08

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

CPC (source: EP KR)
F04B 27/0882 (2013.01 - KR); **F04B 27/0886** (2013.01 - KR); **F04B 27/1045** (2013.01 - KR); **F04B 27/1054** (2013.01 - EP); **F04B 27/109** (2013.01 - KR); **F05B 2210/14** (2013.01 - KR); **F05C 2203/086** (2013.01 - EP); **F05C 2251/14** (2013.01 - EP); **F05C 2253/12** (2013.01 - EP); **Y10S 417/00** (2013.01 - KR)

Citation (search report)
• [A] US 4683803 A 19870804 - MILLER GARY T [US], et al
• [A] EP 0631052 A1 19941228 - TOYODA AUTOMATIC LOOM WORKS [JP]
• [A] US 5380167 A 19950110 - BURKETT MICHAEL J [US], et al
• [A] DE 533360 C 19310912 - LORENZ PETERSEN DIPL ING
• [A] US 5056417 A 19911015 - KATO MASAFUMI [JP], et al
• [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 447 (M - 1179) 14 November 1991 (1991-11-14)

Cited by
EP1010771A1; US6543333B2; US6337141B1

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