

Title (en)
Multicylinder swash plate compressor.

Title (de)
Axialkolbenkompressor.

Title (fr)
Compresseur à plateau oscillant.

Publication
EP 0040911 A1 19811202 (EN)

Application
EP 81301816 A 19810424

Priority
US 15171180 A 19800520

Abstract (en)
Each piston head (38) is provided with a diametral dimension (D172) less than the diametral dimension of its respective bore (34) to provide a substantial annular space therebetween, and a solid seal-support ring (40) of low-friction material is mounted in a circumferential groove (170) on each piston head and is sufficiently thick for the piston head to be supported thereby with the metal of the piston head not permitted to touch the metal of its respective bore throughout reciprocation of the piston (36) in the bore. The longitudinal dimension of the rings (40) is made substantially equal to the longitudinal dimension of the piston heads, so that the axis of the piston head may angle slightly with respect to the axis of its bore, thereby reducing the criticality of alignment of the bores in the cylinder blocks so that they may be bored individually rather than as assembled pairs.

IPC 1-7
F04B 27/08

IPC 8 full level
F04B 27/08 (2006.01); **F04B 27/10** (2006.01); **F04B 39/00** (2006.01)

CPC (source: EP)
F04B 27/0878 (2013.01); **F04B 27/1036** (2013.01)

Citation (search report)
• US 3039834 A 19620619 - HOWE FRANK D
• DE 2122939 A1 19721123
• DE 2418657 A1 19741031 - TOYODA AUTOMATIC LOOM WORKS
• US 2801139 A 19570730 - WAIBEL ANTHONY J
• DD 105291 A1 19740412
• FR 2220020 A1 19740927 - GEN MOTORS CORP [US]
• GB 504063 A 19390419 - AUTOMAOTIVE PRODUCTS COMPANY L, et al

Cited by
DE3828859A1; EP0844389A1; US5934170A; CN1087398C; EP0844394A3

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DE FR GB IT SE

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