

Title (en)

Variable capacity swash plate compressor and method of surface treatment of a swash plate thereof

Title (de)

Taumelscheibenkompressor mit veränderlicher Förderleistung und Verfahren zur Oberflächenbehandlung der Taumelscheibe

Title (fr)

Compresseur à plateau en biais à capacité variable et procédé de traitement de surface du plateau

Publication

EP 0852294 A3 19990609 (EN)

Application

EP 98300061 A 19980106

Priority

JP 1204397 A 19970107

Abstract (en)

[origin: EP0852294A2] A variable capacity swash plate compressor includes a cylinder block (1) having a central through hole and at least one cylinder bore (6) formed about the central through hole, a drive shaft (5) rotatably arranged in the central through hole, a rotary member (40) rigidly fitted on the drive shaft (5) for rotation in unison therewith, a swash plate (10, 110) slidably and tiltably fitted on the drive shaft (5), the swash plate (10, 110) having a sliding surface (10a, 10c), a linkage (41) connecting the rotary member (40) and the swash plate (10, 110) such that the swash plate (10, 110) rotates in unison with the rotary member (40) as the rotary member (40) rotates, at least one shoe (50, 150) arranged to perform relative rotation on the sliding surface (10a, 10c) of the swash plate (10, 110) with respect thereto, and at least one piston (7, 107) connected to the swash plate (10, 110) via a corresponding one of the at least one shoe (50, 150), the or each piston (7, 107) being reciprocable within a corresponding one of the at least one cylinder bore (6) as the swash plate (10, 110) rotates. The swash plate (10, 110) has a protruding portion (10e) formed thereon, which protruding portion (10e) forms a component part of the linkage (41). The swash plate (10, 110) including the protruding portion (10e) is subjected to surface treatment by gas sulphonitriding or electroless nickel-phosphorus-boron plating. <IMAGE>

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CPC (source: EP KR)

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Citation (search report)

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