

Title (en)
Variable capacity swash plate compressor

Title (de)
Taumelscheibenkompressor mit veränderlicher Förderleistung

Title (fr)
Compresseur à plateau en biais à capacité variable

Publication
EP 0856663 A2 19980805 (EN)

Application
EP 98300504 A 19980126

Priority
JP 3263997 A 19970131

Abstract (en)
A swash plate (10) of a variable capacity swash plate is formed with a central through hole (10d) and is axially movably mounted on a drive shaft (5) via an inner peripheral surface of the central through hole (10d). The swash plate (10) is tiltably connected to a rotatable member (40) rigidly fitted on the drive shaft (5) for rotation in unison therewith, such that the swash plate (10) can rotate in unison with the drive shaft (5) as the latter rotates. A plurality of pistons (7) are slidably received in respective cylinder bores (6) axially formed through a cylinder block (1). A plurality of shoes (50) are connected to respective pistons (7) and are relatively rotatable on a sliding surface (10a) of the swash plate (10) with respect thereto as the drive shaft (5) rotates, to convert rotation of the swash plate (10) about the drive shaft (5) into axial reciprocating motion of each piston (7). The amount of stroke of each piston (7) changes according to an inclination of the swash plate (10). The drive shaft (5) is formed with a recess (70) for shifting the rotational axis of the swash plate (10) toward a top dead centre position side when the amount of stroke of each piston (7) becomes a maximum.
<IMAGE>

IPC 1-7
F04B 27/10

IPC 8 full level
F04B 27/10 (2006.01)

CPC (source: EP KR)
F04B 27/0878 (2013.01 - KR); **F04B 27/1045** (2013.01 - KR); **F04B 27/1054** (2013.01 - EP KR); **F05B 2210/14** (2013.01 - KR); **Y10S 417/00** (2013.01 - KR)

Cited by
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