

Title (en)
Variable displacement compressors

Title (de)
Variabler Verdrängungsverdichter

Title (fr)
Compresseur à capacité variable

Publication
EP 1195519 A1 20020410 (EN)

Application
EP 01121683 A 20010914

Priority
• JP 2000279066 A 20000914
• JP 2001159355 A 20010528

Abstract (en)
Variable displacement compressor may include a swash plate (8). The inclination angle of the swash plate can be changed to change the compressor output discharge capacity. A rotor (7) is coupled to the drive shaft so that the rotor rotates together with the drive shaft. A hinge mechanism (20) connects the swash plate with the rotor by means of a guide on a rotary disk of the rotor. The rotor preferably includes a set of functional parts defined by a rotary disk (22), a guide (23) disposed on the rotary disk and a weight (24) disposed on the rotary disk to adjust the weight balance of the rotor. At least one of the functional parts is formed by pressing and punching a metal plate. In addition or in the alternative, two or more of the functional parts may be integrally and seamlessly manufactured by pressing and punching a metal plate.

IPC 1-7
F04B 27/10

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

CPC (source: EP KR US)
F04B 27/08 (2013.01 - KR); **F04B 27/1072** (2013.01 - EP US)

Citation (search report)
• [X] US 4073603 A 19780214 - ABENDSCHEIN FREDERIC HENRY, et al
• [A] FR 2760793 A1 19980918 - TOYODA AUTOMATIC LOOM WORKS [JP]
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• [A] EP 0334634 A1 19890927 - SANDEN CORP [JP]
• [A] US 5567124 A 19961022 - TAKENAKA KENJI [JP], et al

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
US 2002031433 A1 20020314; BR 0105598 A 20020430; CN 1342838 A 20020403; EP 1195519 A1 20020410; JP 2002161852 A 20020607; KR 20020021363 A 20020320

DOCDB simple family (application)
US 95114901 A 20010913; BR 0105598 A 20010914; CN 01138466 A 20010914; EP 01121683 A 20010914; JP 2001159355 A 20010528; KR 20010056807 A 20010914