

Title (en)

Axial piston compressor, in particular CO2 compressor for car air-conditioning apparatus

Title (de)

Axialkolbenverdichter, insbesondere CO2-Verdichter für Kraftfahrzeug-Klimaanlagen

Title (fr)

Compresseur à piston axial en particulier CO2-compresseur pour installation de climatisation de véhicule

Publication

EP 1707810 A1 20061004 (DE)

Application

EP 06011772 A 20040316

Priority

- EP 04006239 A 20040316
- DE 10315477 A 20030404

Abstract (en)

The axial piston compressor (100) has an adjustable-angle swashplate (107). There is a sliding shell (108) on the drive shaft, and also a support element (109) at a spacing from the drive shaft and rotating with it, and also pivoted to it. The piston has a pivoting device (110) in sliding engagement with the swashplate.

IPC 8 full level

F04B 27/10 (2006.01); **F01B 3/00** (2006.01); **F04B 1/14** (2006.01)

CPC (source: EP US)

F04B 27/1054 (2013.01 - EP US); **F04B 27/1072** (2013.01 - EP US)

Citation (search report)

- [X] EP 0775824 A1 19970528 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [X] US 4815943 A 19890328 - KAWASHIMA KENICHI [JP], et al
- [X] US 5540559 A 19960730 - KIMURA KAZUYA [JP], et al
- [X] EP 0867617 A2 19980930 - ZEXEL CORP [JP]
- [X] US 5063829 A 19911112 - TAKAO KUNIHICO [JP], et al
- [X] US 6116145 A 20000912 - OTA MASAKI [JP], et al
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- [X] EP 0769620 A1 19970423 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [X] US 5417552 A 19950523 - KAYUKAWA HIROAKI [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 012, no. 464 (M - 771) 6 December 1988 (1988-12-06)
- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 362 (M - 1441) 8 July 1993 (1993-07-08)

Citation (examination)

DE 10010132 A1 20011004 - LUK FAHRZEUG HYDRAULIK [DE]

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

EP 1464836 A2 20041006; EP 1464836 A3 20050209; EP 1464836 B1 20061220; DE 10315477 A1 20041021; DE 10315477 B4 20050811; DE 502004002343 D1 20070201; EP 1707810 A1 20061004; US 2004216603 A1 20041104; US 7490540 B2 20090217

DOCDB simple family (application)

EP 04006239 A 20040316; DE 10315477 A 20030404; DE 502004002343 T 20040316; EP 06011772 A 20040316; US 81715204 A 20040402