

Title (en)

ADJUSTABLE HYDROSTATIC RADIAL-PISTON MOTOR

Title (de)

VERSTELLBARE, HYDROSTATISCHE RADIALKOLBENMASCHINE

Title (fr)

MOTEUR A PISTONS RADIAUX HYDROSTATIQUE REGLABLE

Publication

**EP 0766788 B1 20010110 (DE)**

Application

**EP 96902897 A 19960224**

Priority

- DE 9600313 W 19960224
- DE 19513987 A 19950413

Abstract (en)

[origin: DE19513987A1] Proposed is a hydrostatic radial-piston motor (10) with an adjustable cylinder ring (18) which has integrated means designed to determine the eccentricity (20) between the cylinder ring (18) and the rotor (14). The eccentric position of the cylinder ring (18) leads, in conjunction with the rotating rotor (14) and the restraining of the guide shoes (17) on the cylinder ring (18), to a stroke action of the piston (16) in the radial direction. This, and kinematic conditions in the motor (10), leads to a change in the distance between two consecutive guide shoes (17). This change in distance takes place in proportion to the eccentricity (20) of the cylinder ring (18) and is determined by a measuring device. This measuring device has a signal transducer (27) which generates an amplified voltage signal as the guide shoes, which act as signal generators, move over it. This signal is fed to evaluation electronics (28) where it is used to determine the eccentricity, rotor rpm and other parameters.

IPC 1-7

**F04B 49/12**; **F04B 1/07**

IPC 8 full level

**F04B 49/06** (2006.01); **F04B 1/04** (2006.01); **F04B 1/047** (2006.01); **F04B 1/053** (2006.01); **F04B 1/07** (2006.01); **F04B 49/12** (2006.01)

CPC (source: EP US)

**F04B 1/07** (2013.01 - EP US); **F04B 49/128** (2013.01 - EP US); **F04B 2201/1213** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 19513987 A1 19961017**; **DE 19513987 C2 19981008**; CN 1079910 C 20020227; CN 1145658 A 19970319; DE 59606298 D1 20010215; EP 0766788 A1 19970409; EP 0766788 B1 20010110; JP 3921240 B2 20070530; JP H10501601 A 19980210; KR 100383156 B1 20030827; US 5752427 A 19980519; WO 9632589 A1 19961017

DOCDB simple family (application)

**DE 19513987 A 19950413**; CN 96190007 A 19960224; DE 59606298 T 19960224; DE 9600313 W 19960224; EP 96902897 A 19960224; JP 53062196 A 19960224; KR 19960707101 A 19961212; US 71957696 A 19960925