

Title (en)

Hydrostatic radial piston machine with axial thrust compensation

Title (de)

Hydrostatische Radialkolbenmaschine mit axialer Schubkompensation

Title (fr)

Machine hydrostatique à pistons radiaux avec système de compensation axiale

Publication

**EP 0654584 B1 19980415 (DE)**

Application

**EP 94114848 A 19940921**

Priority

DE 4335513 A 19931019

Abstract (en)

[origin: EP0654584A1] The invention relates to a hydrostatic radial piston machine with two rotors (17, 18) which are mounted to allow easy rotation on a spindle and which have a plurality of radially extending holes with displacer elements (piston plus sliding block 15, 14) sliding on the inside of a cam ring (8, 9). For control of the delivery of the pressure medium, the holes are connected via control slots (21, 22) to delivery passages (high-/low-pressure 27, 28) opening at the sides of the rotors. The invention is characterised in that the two rotors (17, 18) are mounted in an easily rotatable manner on a spindle (43) installed rigidly in an intermediate plate (5), in that the intermediate plate (5) is situated between the rotors (17, 18), in that thrust washers (37, 44) which accept the axial forces caused by the pressure medium in the control slots (21, 22) of the rotors (17, 18) are mounted on the ends of the spindle (43), and in that the cam rings (8, 9) are mounted in the intermediate plate by way of a common connecting shaft (10).  
<IMAGE>

IPC 1-7

**F01B 13/06**; **F04B 1/107**

IPC 8 full level

**F02B 53/00** (2006.01); **F01B 13/06** (2006.01); **F01C 1/04** (2006.01); **F04B 1/107** (2006.01); **F04C 18/00** (2006.01)

CPC (source: EP US)

**F01B 13/063** (2013.01 - EP US); **F04B 1/1074** (2013.01 - EP US)

Citation (examination)

EP 0585609 A1 19940309 - VOITH GMBH J M [DE]

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0654584 A1 19950524**; **EP 0654584 B1 19980415**; AT E165139 T1 19980515; DE 59405708 D1 19980520; DK 0654584 T3 19990308; ES 2117180 T3 19980801; JP H084548 A 19960109; US 5622052 A 19970422

DOCDB simple family (application)

**EP 94114848 A 19940921**; AT 94114848 T 19940921; DE 59405708 T 19940921; DK 94114848 T 19940921; ES 94114848 T 19940921; JP 25314994 A 19941019; US 32580994 A 19941019