

Title (en)
Hydraulic radial piston motor with variable cylinder capacity.

Title (de)
Hydraulischer Radialkolbenmotor mit veränderbarem Hubvolumen.

Title (fr)
Moteur hydraulique à piston radial et à cylindrée variable.

Publication
EP 0685647 A3 19960221 (EN)

Application
EP 95200926 A 19950412

Priority
IT MI940840 A 19940429

Abstract (en)
[origin: EP0685647A2] A variable-displacement hydraulic motor with radial cylinders supplied by a rotary fluid distributor (4) and acting on an eccentric ring (6) axially secured to a crankshaft (7) but capable of moving radially with respect thereto, being provided with a device for operating and controlling the variation of eccentricity of eccentric ring (6) with respect to crankshaft (7), which comprises at least one pair of actuating pistons (8, 9) located in counterposition to and independent of one another, arranged in a radial sense between shaft (7) and ring (6), each of which is made mechanically integral with such eccentric ring (6) via appropriate means of connection (8a, 9a), and at least one pair of cross-connected valves (10) to block the flow of the fluid operating such actuating pistons (8, 9). <IMAGE>

IPC 1-7
F03C 1/04; **F04B 49/12**; **F04B 1/07**

IPC 8 full level
F03C 1/40 (2006.01); **F04B 1/07** (2006.01); **F04B 49/12** (2006.01)

CPC (source: EP US)
F03C 1/046 (2013.01 - EP); **F04B 1/07** (2013.01 - EP US); **F04B 49/125** (2013.01 - EP US)

Citation (search report)
• [A] DE 2203054 A1 19720824 - CHAMBERLAIN IND LTD
• [A] EP 0342751 A1 19891123 - GIAMELLO BRUNO
• [A] GB 1598027 A 19810916 - DUESTERLOH GMBH
• [A] EP 0122770 A1 19841024 - BROWN & SHARPE FLUID POWER [GB]

Cited by
DE19635458A1; US8235680B2; WO2007122643A1; JP4842372B2

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 0685647 A2 19951206; **EP 0685647 A3 19960221**; **EP 0685647 B1 20000705**; AT E194411 T1 20000715; DE 69517751 D1 20000810; DE 69517751 T2 20001116; IT 1271634 B 19970604; IT MI940840 A0 19940429; IT MI940840 A1 19951029

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