

Title (en)  
Hydraulic motor.

Title (de)  
Hydraulischer Motor.

Title (fr)  
Moteur hydraulique.

Publication  
**EP 0038372 A1 19811028 (DE)**

Application  
**EP 80102148 A 19800422**

Priority  
EP 80102148 A 19800422

Abstract (en)

1. Hydraulic motor with a rotor mounted in a stationary casing consisting of a radial piston cylinder block with open ended hollow pistons and individual cuplike cylinders pushed over the hollow pistons ; these cylinders have at two points opposite to one another, offset inwards in relation to the cup base radial lateral pivot pins on each of which is located a cam roller resting against an internal cam formed by the casing and having a concentric inner control plug by means of which the hydraulic fluid is supplied to the radial piston/cylinder assemblies, characterized by the fact that each of the pistons (22) is divided by two concentric annular walls (35, 36) into two chambers (37, 38) with separate supplies of hydraulic fluid (ports 39, 40), a first chamber (37) of which is formed by the annular space between the two annular walls (35, 36) and a second chamber (38) is formed by the central inner space, that a matching concentric cylindrical piston like projection (41) of the cup-shaped cylinder (25) projects into the central inner space (38), and that the separate hydraulic fluid supplies (ports 39, 40) for the individual chambers (37, 38) of the pistons (22) are offset in relation to one another in axial direction of rotor (14) and interact with similarly axially offset ports (45.1-45.4; 46, 47) or grooves (48, 49) of the central control plug (18) which is designed to be displaceable in axial direction between various operating positions.

Abstract (de)

Ein hydraulischer Radialkolbenmotor gedrängter Bauform ist zwischen vier Drehzahlen umschaltbar, wobei eine Abschaltung einzelner Kolben (22) vermieden wird. Die Drehzahländerung wird allein durch eine Änderung des wirksamen Querschnitts der in zwei Kammern (37,38) aufgeteilten und mit gesonderten Druckflüssigkeitszuführungen (39, 40) versehenen Kolben (22) bewirkt, und die Drehzahlumschaltung erfolgt durch eine Axialverstellung des zentralen Steuerzapfens (18) zwischen verschiedenen Betriebsstellungen.

IPC 1-7

**F03C 1/24**

IPC 8 full level

**F03C 1/24** (2006.01)

CPC (source: EP)

**F03C 1/2407** (2013.01)

Citation (search report)

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