

Title (en)  
ROTARY CYLINDER ENGINE.

Title (de)  
ZYLINDERLÄUFERMASCHINE.

Title (fr)  
MOTEUR A CYLINDRES ROTATIFS.

Publication  
**EP 0656992 A1 19950614 (DE)**

Application  
**EP 93919205 A 19930827**

Priority  
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Abstract (en)  
[origin: US5720241A] PCT No. PCT/EP93/02325 Sec. 371 Date Feb. 23, 1995 Sec. 102(e) Date Feb. 23, 1995 PCT Filed Aug. 27, 1993 PCT Pub. No. WO94/05902 PCT Pub. Date Mar. 17, 1994A rotary cylinder machine, designed as a two-cycle internal combustion engine or as a compressor, includes in a housing (1) a cylinder rotor (5) that rotates about a first axis of rotation (7) and has three pairs of cylinders (13), the cylinders of each pair being coaxial and on opposite sides of the first axis of rotation and the pairs being spaced apart circumferentially by 120 DEG . The radially outer ends of the cylinders are closed by cylinder covers (33). Three pairs of pistons (15), rigidly connected together by piston rods (17), are carried on a crankshaft (21) that is rotatable about a second axis of rotation (23) that is parallel to and eccentric to the first axis of rotation (7). The piston rods (17) are seated on three eccentric disks (25), likewise displaced 120 DEG with respect to one another, on the crankshaft (21). Gas exchange takes place through piston-controlled ports (51, 53) of the cylinders (13). In the gas-exchange path of the ports (51, 53) rotary slide valve control arrangements (57), which optionally control gas exchange together with the piston-controlled ports (51, 53), are provided on at least the exhaust side. Gas intake may take place through rotary slide valve controls, or through an intake channel terminating in a crankshaft chamber of the cylinder rotor (5) and connected with the intake ports by overflow channels. In an internal combustion engine, a blower driven by a variable-speed motor may be provided for control of the degree of filling of the combustion chambers (37).

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