Title (en)
ROTARY MACHINES

Title (de)
ROTATIONSMASCHINE

Title (fr)
MACHINES ROTATIVES

Publication
EP 1082520 A1 20010314 (EN)

Application
EP 99922267 A 19990520

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Abstract (en)
[origin: WO9961750A1] A rotary machine having a rotatable outer drum (10) within which rotates on a different axis a rotor (13). The space between the outer drum and the inner rotor is divided into discrete arcuate compartments by vanes (15) extending across the space between the two rotating parts such that the volume of the compartments (16) varies cyclically during rotation. The vanes are rigidly attached to one of the rotating parts and extend across the space into contact with the other of the rotating parts during at least a part of the rotation of the machine. The vanes may co-operate with sliding shoes (17) or fixed grooves (20) which latter may be cylindrically formed as at (24). Such a machine may be used as an enhancement of the efficiency and economic operation of an internal combustion engine which in certain cases can overcome the problems of throttle loss at low engine speeds, or it may operate as a heat pump.

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F01C 1/04

IPC 8 full level
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