

Title (en)
A VANE TYPE ROTARY ENGINE

Title (de)
FLÜGELZELLEN ROTIERENDE MASCHINE

Title (fr)
MOTEUR ROTATIF A AILETTES

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Application
EP 98932656 A 19980715

Priority

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Abstract (en)
[origin: WO9904141A1] A vane type rotary engine having separate substantially identical stators (1, 2) joined by a common drive shaft (15). One stator (1) forms the induction/compression stage and the second stator (2) forms the combustion/exhaust stage. A rotor (25) having a circular periphery (26) is housed within the bore of each stator (1, 2) by the common drive shaft (15) and the bore of each stator is in the shape of a first and a second arc (21, 20) with each arc having a separate axis. The rotor (25) is located within the bore on the drive shaft (15) so its peripheral surface (26) is closely spaced to the first of the arcs (21). At least one vane (31) has sliding reciprocal movement in a radial slot (30) formed in the rotor. Each vane (31) has a pin (35) which engages within a groove (42) formed in an end wall (41) of the bore. The groove (42) has an axis that corresponds to the axis of the second of the arcs (20). As the rotor (25) rotates the engagement of the pin (35) in the groove (42) will reciprocate the vane (31) radially within the slot (30) in the rotor (25) to maintain a sealing contact between the tip of the vane and the wall of the bore of the stator (1, 2).

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