

Title (en)
ROTARY VOLUMETRIC MACHINE

Title (de)
VOLUMETRISCHE DREHKOLBENMASCHINE

Title (fr)
MACHINE VOLUMETRIQUE ROTATIVE

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Application
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Abstract (en)
[origin: WO03046338A1] The invention concerns a rotary volumetric machine comprising a stator (9) wherein a cylindrical chamber (2) is provided, a rotor housed in the cylindrical chamber (2) integral with a shaft (15), vanes (3, 7) formed on the rotor, and abutting elements (5, 6, 25) capable of being displaced by actuating means between: an extended position into the volume of the cylindrical chamber (2) in operational phase so as to generate volume variations between the vanes (3, 7) and the abutting elements (5, 6); a retracted position into the stator (9) to allow through the vanes (3, 7) from one side of the abutting elements (5, 6, 25) to the other. The invention is characterized in that: the rotor comprises a disc (1), two concentric flanges (4, 8) arranged on either side of said disc (1) and two fixed vanes (3, 7) arranged diametrically opposite on either side of said disc (1) each one against one surface of said disc (1) and assembled at the periphery of a flange (4, 8) so as to obtain an assembly with rotational equilibrium; in extended position into the volume of the cylindrical chamber (2), the abutting elements (5, 6, 25) are positioned proximate to, but non in contact with, the flanges (4, 8).

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