

Title (en)  
ROTARY MACHINE.

Title (de)  
ROATATIONSSTRÖMUNGSMASCHINE.

Title (fr)  
MACHINE VOLUMETRIQUE ROTATIVE.

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Application  
**EP 92924748 A 19921015**

Priority  
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Abstract (en)  
[origin: FR2683001A1] The invention discloses a rotary positive displacement machine in which the closed system is constituted by a male part (5) and a surrounding female part (4), having relative planetary movement with respect to each other. It is characterized by the definition of the external surface of the male part (50) and by the specific properties which it gives to the closed system, particularly when this is of a helical type, and also by the nature of the internal contacts (40, 50) between male (5) and female (4) parts. Said machine can handle any type of fluid and operate as motor or generator. Applications are found particularly in the field of drilling motors, pumps and screw or cylinder compressors where such machines have the advantage of allowing a wide variety of shapes, few moving parts, large swept volume for a given size and, for helical machines, absolutely conjugate sliding contact surfaces.

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