

Title (en)

ROTARY MACHINE OF THE DEFORMABLE RHOMBUS TYPE COMPRISING AN IMPROVED TRANSMISSION MECHANISM

Title (de)

EINEN VERBESSERTEN GETRIEBEMECHANISMUS UMFASSENDE ROTATIONS MASCHINE JENER ART MIT VERFORMBAREM RHOMBUS

Title (fr)

MACHINE ROTATIVE À LOSANGE DÉFORMABLE COMPORTANT UN MECANISME DE TRANSMISSION PERFECTIONNÉ

Publication

EP 2356318 A1 20110817 (FR)

Application

EP 09760928 A 20091109

Priority

- FR 2009001294 W 20091110
- FR 0806304 A 20081112

Abstract (en)

[origin: WO2010055223A1] Rotary machine of the deformable rhombus type comprising a. a rotor (3) which is a deformable rhombus (4) in contact with the inner surface of an enclosure (1) forming a stator (2), said deformable rhombus (4) comprising four pistons (6) connected, in mutual succession, by a pivoting articulation (7) and thus forming a closed chain; and b. a transmission mechanism (14) for transmitting the movement between the pistons (6) and a rotary shaft (15) coaxial to the central axis of the machine, characterized in that said transmission mechanism (14) comprises: a first bearing body (16) mounted fixedly on at least one piston (6), preferably on each piston (6), the axis of said first bearing body (16) passing at the centre of the piston (6) and connected to a second bearing body (19) of which the centre passes through the central axis of the machine and is secured to said rotary shaft (15), the first bearing body (16) being connected to the second bearing body (19) directly or via an intermediate transmission member (18) - and in that the reduction ratio of the first (16) to the second bearing body (19) is equal to 2 and is positive.

IPC 8 full level

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Citation (search report)

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