

Title (en)

ROTARY PISTON MACHINE HAVING AN OUTSIDE GEAR MECHANISM

Title (de)

ROTATIONSKOLBENMASCHINE MIT AUSSENGETRIEBEMECHANISMUS

Title (fr)

MOTEUR À PISTONS ROTATIFS COMPORTANT UN MÉCANISME DE TRANSMISSION EXTÉRIEUR

Publication

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Application

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Abstract (en)

[origin: WO2008116660A1] The invention relates to a rotary piston machine comprising a frame, a cylinder liner rotatably supported in the frame, and a gear mechanism supported coaxially in the cylinder liner and connecting the frame, the cylinder line and the rotor, wherein the gear mechanism is located outside a working space located between the cylinder liner and rotor, and wherein the gear mechanism couples the cylinder liner and rotor for a periodically oscillating relative movement between a positive and negative rotational speed. According to the invention, the gear mechanism and the cylinder liner, together with the rotor, form a transmission having five rotational joints with the degree of freedom of 1 and a rotational/prismatic joint, wherein the gear mechanism comprises a rotational body, which is supported rotatably on the frame by means of a first rotational joint, and a connecting rod, which is rotatably connected to the rotational body by means of a second rotational joint, to the cylinder liner by means of a third rotational joint, and to the rotor by means of the rotational/prismatic joint.

IPC 8 full level

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