

Title (en)
ROTARY PISTON MACHINE USABLE PARTICULARLY AS A THERMAL ENGINE

Title (de)
ROTATIONSKOLBENMASCHINE INSBESONDERE WÄRMEKRAFTMASCHINE

Title (fr)
MACHINE A PISTONS ROTATIFS UTILISABLE NOTAMMENT EN TANT QUE MOTEUR THERMIQUE

Publication
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Application
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Priority

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- FR 9415686 A 19941223

Abstract (en)
[origin: US5992371A] PCT No. PCT/FR95/00185 Sec. 371 Date Dec. 24, 1996 Sec. 102(e) Date Dec. 24, 1996 PCT Filed Feb. 16, 1995 PCT Pub. No. WO95/22684 PCT Pub. Date Aug. 24, 1995A machine with rotary pistons having an engine unit with a cylindrical chamber, the engine having two rotors coaxially mounted in the cylindrical chamber. The first rotor is continuously rotationally driven. The second rotor is intermittently rotationally driven in a same direction as the first rotor. A transmission is connected between the rotors. This transmission includes an engaging member having a non-return mechanism. The non-return mechanism includes a first element fixed to the engine unit and a second element in engagement with the second rotor. The first and second elements are cooperative with each other through an angular blocking during the explosion and intake phase of the engine unit. The hydraulic pump has a rotor coupled to the first rotor and a stator coupled to the engine unit. A hydraulic motor is coupled to the second rotor and connected to the hydraulic pump by a hydraulic circuit. At least one valve is operatively connected to the engaging member. The valve serves to partially or totally open the hydraulic circuit during one phase of the engine unit and closes the hydraulic circuit during another phase of the engine unit. The opening or closing of the hydraulic circuit will engage or disengage the second rotor with respect to the first rotor.

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