

Title (en)

ROTARY PISTON ENGINE, UNIT WITH CONTROL SYSTEM AND METHOD FOR THE CYCLE-CONTROLLED OPERATION OF A ROTARY PISTON ENGINE

Title (de)

DREHKOLBENMOTOR, ANORDNUNG MIT STEUERUNGSSYSTEM SOWIE VERFAHREN ZUM TAKTGESTEUERTEN BETREIBEN EINES DREHKOLBENMOTORS

Title (fr)

MOTEUR À PISTON ROTATIF, UNITÉ AVEC SYSTÈME DE COMMANDE ET PROCÉDÉ POUR LE FONCTIONNEMENT SYNCHRONISÉ D'UN MOTEUR À PISTON ROTATIF

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010051794A2] The invention relates to a novel rotary piston engine, comprising a motor housing (2) having a housing interior (2.1) with at least one inlet (2.2) and at least one outlet (2.3), a cylindrical rotor (3) being received in said housing rotatably about a rotational axis (RA) in a specified direction of rotation (DR) in a cylindrical running surface (6) which extends concentrically to the rotational axis (RA) and which encloses at least one cylinder (5) having an annular cross-section together with the lateral surface (3.1) of the rotor (3) and lateral ribs (5.3), at least on rotary piston (4, 4') on the rotor (3) being arranged on the lateral surface (3.1) of the rotor (3), wherein at least one counter piston (7, 7') is received at least partially in the motor housing (2), at least the at least one counter piston (7, 7') is mounted movably on the rotor (3), and each counter piston (7, 7') is associated with at least one inlet (2.3) having an inlet valve (13) and at least one outlet (2.3), wherein the at least one outlet (2.3) is arranged in the direction of rotation (DR) directly upstream of the counter piston (7, 7') and following the same at least one inlet (2.2) is arranged in the direction of rotation (DR), wherein the at least one counter piston (7, 7') is driven such that the counter piston (7, 7') follows the contour of the rotary piston (4, 4') protruding from the rotor (3) with minimal distance in a contactless manner during the passage of said piston.

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