

Title (en)
ROTARY PISTON MACHINE

Title (de)
ROTATIONSKOLBENMASCHINE

Title (fr)
MACHINE À PISTON ROTATIF

Publication
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Application
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Abstract (en)
[origin: WO2009021714A1] The invention relates to a rotary piston machine (10) comprising a housing (12), in which at least two pistons (22, 24) are disposed and can revolve in the housing (12) about a rotary axis (28) that is fixed to the housing, the pistons (22, 24) being supported in a piston cage (30), said cage being supported in the housing (12) and revolving about the rotary axis (28) together with the pistons (22, 24), the two pistons (22, 24) executing mutually opposing back-and-forth motions while revolving about the rotary axis (28), in order to alternately enlarge and reduce the working chamber (42) defined by the end faces (46, 48) of the two pistons (22, 24) that face each other and the piston cage (30), the rotary axis (28) running through the working chamber (42), and the piston cage (30) having a gas exchange opening (62) for the inlet and outlet of gas into and out of the working chamber (42). The gas exchange opening (62) is disposed on the rotary axis (28), and a closing member (68) is disposed in the gas exchange opening (62) and is rotationally fixed to the piston cage (30) relative to the rotary axis (28), and is axially displaceable relative to the piston cage (30) in the direction of the rotary axis (28) for opening and closing the gas exchange opening (62), a control mechanism (74) for the closing member (68) being present and deriving the axial motion of the closing member (68) from the rotary motion of the closing member (68) about the rotary axis (28).

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