

Title (en)
AXIAL-PISTON MOTOR AND CYCLIC PROCESS DEVICE

Title (de)
AXIALKOLBENMOTOR UND KREISPROZESSVORRICHTUNG

Title (fr)
MOTEUR À PISTONS AXIAUX ET SYSTÈME À CYCLE

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Application
EP 18712809 A 20180307

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Abstract (en)
[origin: WO2018166864A1] The invention relates to an axial piston motor (10) having a cylinder housing (12), in which a plurality of cylinders (16) are formed, and having pistons (18) which are movably guided in the cylinders (16), wherein the pistons (18) are attached to a swashplate (18) and wherein a flow of a fluid that has entered via an inlet (58) into the axial-piston motor (10) is controlled into and out of the cylinders (16) by means of inlet and outlet valves, wherein the inlet and/or outlet valves comprise fluid change openings (42) which are formed in a cylinder head plate (40), which can be temporarily released and covered by means of a rotary slide (52), for which purpose the rotary slide (52) forms at least one passage opening (54, 56). The axial-piston motor according to the invention is characterized in that the rotary slide (52) comprises a sealing element (70) which covers only a section of its lower side facing the cylinder head plate (40) and which is displaceably mounted in the direction of the cylinder head plate (40) in or on a base body (66) of the rotary slide (52). The sealing element (70) allows according to requirements the closure of only those fluid change openings (42), which are associated to the cylinder(s) (18) active in a working stroke, by applying a sufficiently high pressure while for the portion of the lower side of the rotary slide (52), which does not have the sealing element (70), any contact with the cylinder head plate (40) can be prevented, whereby the frictional resistance of the rotation of the rotary slide (52) relative to the cylinder head plate (40) can be kept low.

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