

Title (en)

AXIAL PISTON MOTOR, CIRCUIT DEVICE, DRIVE UNIT AND MOTOR VEHICLE

Title (de)

AXIALKOLBENMOTOR, KREISPROZESSVORRICHTUNG, ANTRIEBSEINHEIT UND KRAFTFAHRZEUG

Title (fr)

MOTEUR À PISTONS AXIAUX, SYSTÈME À CYCLE, ENSEMBLE DE PROPULSION, ET VÉHICULE À MOTEUR

Publication

EP 3596310 B1 20210113 (DE)

Application

EP 18712810 A 20180307

Priority

- DE 102017105609 A 20170316
- EP 2018055619 W 20180307

Abstract (en)

[origin: WO2018166867A1] The invention relates to an axial piston motor (10) comprising a cylinder housing (12) in which several cylinders (16) are formed. Pistons (18) are movably guided in the cylinders (16), the pistons (18) are connected to a swash plate and a flow of fluid entering into the axial piston motor (10) via an inlet (58) is controlled in the cylinders and outside of said cylinders by means of inlet and outlet valves. The inlet and outlet valves comprise fluid change openings (42) formed in a cylinder head plate (40) that can be temporarily released and covered by means of a rotary slide (52). The rotary valve (52) comprises an inlet opening (54) that can be fluidically connected to the fluid change openings (42), and which is fluidically connected to the inlet (58) by means of a tube-shaped sealing element (98), the sealing element (98) being in contact, by means of the inlet pressure of the fluid, with an abutment, in particular formed by the rotary valve (52), in order to seal a gap formed between the sealing element (98) and the abutment, which forms a connection that is to be sealed between the high pressure side of the axial piston motor (10) comprising the inlet (58), and the low-pressure side comprising an outlet (64).

IPC 8 full level

F01B 3/00 (2006.01)

CPC (source: EP)

F01B 3/0044 (2013.01); **F01B 3/0047** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2018166867 A1 20180920; DE 102017105609 A1 20180920; EP 3596310 A1 20200122; EP 3596310 B1 20210113

DOCDB simple family (application)

EP 2018055619 W 20180307; DE 102017105609 A 20170316; EP 18712810 A 20180307