

Title (en)

AXIAL PISTON MACHINE WITH VARIABLE DISPLACEMENT VOLUME, AND HYDRAULIC DRIVETRAIN HAVING AN AXIAL PISTON MACHINE

Title (de)

AXIALKOLBENMASCHINE MIT VERÄNDERBAREM SCHLUCKVOLUMEN UND HYDRAULIKANTRIEBSSTRANG MIT EINER AXIALKOLBENMASCHINE

Title (fr)

MACHINE À PISTONS AXIAUX AU VOLUME D'ABSORPTION VARIABLE ET CHÂÎNE CINÉMATIQUE HYDRAULIQUE POURVU D'UNE MACHINE À PISTONS AXIAUX

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Abstract (en)

[origin: WO2013072207A2] The invention relates to an axial piston machine (18), with a housing (1), for pump and/or motor operation with a variably adjustable displacement volume, having a pivot cradle (2) which can be pivoted by a first adjustment device (3) within an angle range predefined by the first adjustment device (3) and which has at least one surface (22), and having a piston drum (7) which is arranged rotationally fixedly on an axis (24) and which has pistons (12, 120) arranged in the piston drum (7), wherein the pistons (12, 120) bear against the surface (22) of the pivot cradle (2) in such a way that pressure forces can be transmitted between the pistons (12, 120) and the pivot cradle (2). The axial piston machine (18) according to the invention furthermore has a second adjustment device (9, 16) which is movable in such a way that the displacement volume of the axial piston machine (18) can be varied in addition to the displacement volume variably adjustable by means of the first adjustment device (3).

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