

Title (en)
HYDROSTATIC PISTON ENGINE WITH ROTATABLE CONTROL DISC

Title (de)
HYDROSTATISCHE KOLBENMASCHINE MIT DREHBARER STEUERSCHEIBE

Title (fr)
MACHINE A PISTON HYDROSTATIQUE AVEC DISQUE DE COMMANDE ROTATIF

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Abstract (en)
[origin: WO2007118624A1] The invention relates to a hydrostatic piston engine. The hydrostatic piston engine comprises a housing in which a cylinder drum is arranged in a rotatable manner. In the cylinder drum a first group of cylindrical bores and a second group of cylindrical bores are provided. Each cylindrical bore accommodates a piston that can move in a longitudinal direction and is supported on a swash plate, which is inclinable around at least one pivoting axis. The first group of cylinder bores is connected temporarily by means of first control slits (50, 51) of a control plate with a first hydraulic circulation during a rotation of the cylinder drum. Correspondingly the cylinder bores of the second group are connected temporarily via second control slits (57, 58) of the control plate (32') for a second hydraulic circulation during a rotation of the cylinder drum. The relative position of the first and/or of the second control slits (50, 51; 57, 58) relative to the minimum of one pivoting axis of the swash plate is adjustable.

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