

Title (en)
HYDROSTATIC PISTON ENGINE

Title (de)
HYDROSTATISCHE KOLBENMASCHINE

Title (fr)
MACHINE À PISTONS HYDROSTATIQUE

Publication
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Application
EP 12775661 A 20121017

Priority
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Abstract (en)
[origin: WO2013068213A1] Hydrostatic piston engine, in particular axial piston machine, comprising a rotating cylinder drum (25) that has multiple cylinder chambers (26) in which pistons are arranged that perform a reciprocating movement during operation. During operation, each cylinder chamber (26) is alternately connected, via an opening (27) in the cylinder chamber, to a low-pressure control port (30) and a high-pressure control port (29) on a stationary control plate (28) on which two reversing zones, within which a piston reverses the direction of travel at a dead center, are located between the low-pressure control port (30) and the high-pressure control port (29). The control plate has a pilot control groove (34) which extends from a control port (29, 30) into a reversing zone (32). Said reversing zone (32) includes an outlet (47) over which at least approximately the entire length of the openings (27) in the cylinder chambers passes. Furthermore, a fluid capacity which has a defined volume is connected to the outlet (47) via an especially throttled fluid connection (46), and the outlet (47) lies in the pilot control groove (34). Said design of a hydrostatic piston engine makes it possible to connect a reversing capacity in a simple and permanently throttled manner to the associated pressure connection.

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