

Title (en)
HYDROSTATIC MOTOR WITH AXIALLY SLIDING VANES

Publication
EP 0067918 B1 19851113 (FR)

Application
EP 81401018 A 19810624

Priority
FR 8007687 A 19800404

Abstract (en)
[origin: EP0067918A1] 1. A hydrostatic motor with vanes axially slidable in rotor lodgings and against a continuous stator bottom surface with recesses therein, comprising a circuit (7) for intercommunication between vanes (1) behind the latter, said circuit permitting complete transmission of pressures between vanes according to their variable location against said stator bottom surface with recesses therein (E), thereby ensuring accelerations and decelerations of axial sliding of the vanes as well as pressing of said vanes against the stator bottom surface with recesses therein, with the vanes retracted in their lodgings acting upon the vanes projecting out of their lodgings thanks to pressure increase in said intercommunication circuit, each vane being in contact in its rotor lodging with a pusher piston (6) for pressure transmission in said circuit (7) for intercommunication between vanes, characterized in that each vane is equipped with at least one valve (14) opening under the action of a magnetic stator force (FM) in the rotor bottom lodging to stator recess direction and closing under the action of a spring (19) or a portion of the stator bottom surface with recesses therein (E).

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F03C 2/30

IPC 8 full level
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CPC (source: EP US)
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Cited by
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