

Title (en)
Hydrostatic motor with axially sliding vanes.

Title (de)
Hydrostatischer Motor mit axial gleitenden Schiebern.

Title (fr)
Moteur hydrostatique à palettes à coulissement axial.

Publication
EP 0067918 A1 19821229 (FR)

Application
EP 81401018 A 19810624

Priority
FR 8007687 A 19800404

Abstract (en)
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).

Abstract (fr)
L'invention se rapporte à un moteur hydrostatique à palettes à coulissement axial dans des logements rotoriques et contre une surface continue de fond statorique à évidements. Le moteur comprend un circuit d'intercommunication (7) entre palettes (1), derrière celles-ci, lequel circuit permet une transmission intégrale de pressions entre palettes suivant leur emplacement variable contre ladite surface de fond statorique à évidements (E), les palettes en retrait dans leur logement agissant par montée en pression dans ledit circuit d'intercommunication, sur les palettes en saillie hors logement. L'invention s'applique, d'une façon générale, aux moteurs.

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F03C 2/30

IPC 8 full level
F01C 21/08 (2006.01)

CPC (source: EP US)
F01C 21/0863 (2013.01 - EP US)

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