

Title (en)  
HYDRAULIC MOTOR HAVING BELLOWS, AND METERING PUMP COMPRISING SAID MOTOR

Title (de)  
HYDRAULIKMOTOR MIT BALG UND DEN MOTOR UMFASSENDE DOISERPUMPE

Title (fr)  
MOTEUR HYDRAULIQUE A SOUFFLETS ET POMPE DOSEUSE COMPORTANT LEDIT MOTEUR

Publication  
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Application  
**EP 04805810 A 20041104**

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Abstract (en)  
[origin: WO2005045244A1] The invention concerns a hydraulic motor capable of converting the energy of a pressurized fluid into reciprocating motion. The hydraulic motor is characterized in that it comprises an enclosure (100) inside of which two bellows (101, 102) are placed whereby delimiting at least three chambers: a first chamber Ve connected to a pressurized fluid feed line (105); a second chamber Vs connected to a pressurized fluid discharge line (106), and; a third chamber Vi. Said bellows (101, 102) are capable of deforming in such a manner that their middle parts, which are interconnected, displace according to a longitudinal axis (103), the respective peripheries thereof being integral with the enclosure (100). The hydraulic motor also comprises an actuator (104) connected to said middle parts, as well as a distributor (107) capable of occupying two states: a first state referred to as an admission state in which it isolates chamber Vs from chamber Vi and fluidically connects chamber Ve and chamber Vi, and; a second state referred to as a backflow state in which it isolates chamber Ve from chamber Vi and fluidically connects chamber Vi and chamber Vs, the periodic variation of volume of chamber Vi inducing a reciprocating motion of the actuator (104).

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