

Title (en)
HIGH-PRESSURE PUMP, IN PARTICULAR FOR A FUEL-INJECTION DEVICE IN AN INTERNAL COMBUSTION ENGINE

Title (de)
HOCHDRUCKPUMPE, INSBESONDERE FÜR EINE KRAFTSTOFFEINSPRITZEINRICHTUNG EINER BRENNKRAFTMASCHINE

Title (fr)
POMPE HAUTE PRESSION, NOTAMMENT DESTINEE A UN DISPOSITIF D'INJECTION DE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE

Publication
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Application
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Priority
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Abstract (en)
[origin: WO2005090790A1] The inventive high-pressure pump comprises at least one pump element (18) comprising a pump plunger (20), which is displaceably configured in a cylinder bore (28) of a housing part (22) of the high-pressure pump, is driven to perform a stroke and which delimits a pump working chamber (30) in the cylinder bore (28), whereby fuel is sucked into said chamber via an inlet valve (34) during the intake stroke of the pump plunger (20). The inlet valve (34) comprises a plunger-shaped valve member (56), which co-operates with a sealing surface (60) comprising a valve seat (52) for controlling the connection of the pump working chamber (30) to the fuel supply line (32). The valve member (56) is equipped with a head (58), on which the sealing surface (60) is configured, and is located in the pump working chamber (30). A shaft (62) that adjoins the head (58) protrudes from the pump working chamber (30). The valve seat (52) is configured in the housing part (22) in a transition zone between the cylinder bore (28) and a smaller bore (50) that adjoins the latter and has a smaller diameter. The shaft (62) of the valve member (56) projects through the bore (50) into a region (54) of the housing part (22) that faces away from the pump working chamber (30). A closing spring (64) that engages with the shaft (62) of the valve member (56) is located in said region.

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