

Title (en)
FUEL INJECTION PUMP

Title (de)
KRAFTSTOFFEINSPRITZPUMPE

Title (fr)
POMPE D'INJECTION DE CARBURANT

Publication
EP 0708885 B1 20010926 (DE)

Application
EP 95900649 A 19941122

Priority
• DE 9401369 W 19941122
• DE 4339948 A 19931124

Abstract (en)
[origin: WO9514857A1] In a distributor-type fuel injection pump there is a magnetic valve in the distributor, the valve component of which is fitted in an axial drilling in the distributor and is actuated by a magnet integral with the housing in order to interrupt the connection of a pump working chamber (14) of the distributor-type injection pump to a relief chamber during a given high-pressure injection phase. Owing to its design, a distributor (7) of such a fuel injection pump has a certain axial clearance in its bearing which affects the control travel of the valve member (39) in the distributor in relation to the fixed electromagnet (66). To prevent changes in the magnetic properties which could occur owing to this axial arrangement, a part of the magnetic circuit in the form of a magnet plate (55) can be moved together with the distributor so that the relative position between an armature (52) fixed to the valve member (39) and this part of the magnet core with which it forms a working air gap (80) does not change depending on the axial position of the distributor and thus the magnetic properties of the electromagnetic valve are maintained regardless of the axial position of the distributor.

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IPC 8 full level
F02M 41/14 (2006.01); **F02M 59/36** (2006.01)

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