

Title (en)
FUEL INJECTION VALVE

Title (de)
EINSPRITZVENTIL ZUR KRAFTSTOFFEINSPRITZUNG

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1789673 B1 20100210 (DE)

Application
EP 05749768 A 20050429

Priority
• EP 2005051954 W 20050429
• DE 102004033280 A 20040709

Abstract (en)
[origin: WO2006005639A1] Disclosed is a fuel injection valve comprising a connecting piece (12) for a fuel supply pipe (30), a valve seat support (13) with a valve seat member (14) that is provided with a valve port (15), a solenoid (19) for actuating a valve member (17) controlling the valve port (15), and a plastic coating (11) which envelops the connecting piece (12), the solenoid (19), and the valve seat support (13). In order to reduce production costs by substantially decreasing the number of parts required for the injection valve while diminishing the effort for assembling the same, the connecting piece (12) and the valve seat support (13) are made of plastic and are embodied as a monolithic plastic housing (10) along with the plastic coating (11). The return element (23) for closing the magnetic circuit of the solenoid (19) extending via the magnet core (20) and the armature (22) is embodied as an extruded magnetic material (24) which encloses the magnet coil (21), gaplessly adjoins the magnet core (20), and ends in front of the armature (22) such that a gap is formed therebetween.

IPC 8 full level
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