

Title (en)

FUEL INJECTION VALVE

Title (de)

BRENNSTOFFEINSPRITZVENTIL

Title (fr)

SOUPAPE D'INJECTION DE CARBURANT

Publication

EP 1913252 A1 20080423 (DE)

Application

EP 06777975 A 20060726

Priority

- EP 2006064660 W 20060726
- DE 102005037319 A 20050804

Abstract (en)

[origin: WO2007014887A1] A fuel injection valve (1) according to the invention comprises a magnet coil (2) which interacts with an armature (7) which is acted on by a return spring (14) and, together with a valve needle (8), forms an axially moveable valve part. A valve closing body (10) is provided on the valve needle (8), which valve closing body (10) forms a sealing seat together with a valve seat body (11). In addition, reliable sealing of a thin-walled valve sleeve (5) or of the magnet coil (2) is provided, said sealing action being provided by a sealing body (25) attached below the magnet coil (2). The sealing body (25) is quadrangular in cross section, in particular trapezoidal, and is inserted between the magnet coil (2) and a valve housing (4). When installed, the sealing body (25) is in a clamped and compressed state. Here, the sealing body (25) assumes an ellipsoidal or egg-shaped cross section in the compressed state.

IPC 8 full level

F02M 51/06 (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)

F02M 51/0682 (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 2200/16** (2013.01 - EP US); **F02M 2200/9015** (2013.01 - EP US)

Citation (search report)

See references of WO 2007014887A1

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