

Title (en)

Fuel injection device for an internal combustion engine

Title (de)

Kraftstoffeinspritzeinrichtung für eine Brennkraftmaschine

Title (fr)

Dispositif d'injection de carburant pour un moteur à combustion interne

Publication

EP 1236885 A3 20040121 (DE)

Application

EP 02002432 A 20020201

Priority

- DE 10109612 A 20010228
- DE 10160256 A 20011207

Abstract (en)

[origin: EP1236885A2] The fuel injector for a motor vehicle engine has a control valve assembly (60) with at least two solenoid valves having a single actuator (64). Each valve (63,73) can move against a return drive between two positions. One valve is moved by the actuator and the other by movement of the first valve. The first valve has a fuel filled connecting chamber (71) with pressure varied by movement of the movement of the valve. Pressure variations in the chamber act on the second valve.

IPC 1-7

F02M 57/02; **F02M 59/46**; **F02M 47/02**; **F02M 59/36**; **F02M 45/12**

IPC 8 full level

F02M 45/12 (2006.01); **F02M 47/02** (2006.01); **F02M 57/02** (2006.01); **F02M 59/36** (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP)

F02M 45/12 (2013.01); **F02M 47/027** (2013.01); **F02M 57/023** (2013.01); **F02M 59/366** (2013.01); **F02M 59/466** (2013.01)

Citation (search report)

- [DA] EP 0823549 A2 19980211 - LUCAS IND PLC [GB], et al
- [A] DE 19742320 A1 19990401 - BOSCH GMBH ROBERT [DE]
- [A] DE 19837332 A1 20000224 - BOSCH GMBH ROBERT [DE]

Cited by

EP1541860A1; GB2440092A; GB2440092B; US7255091B2; US6997166B2; WO2006130262A1

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