

Title (en)  
FUEL INJECTION DEVICE COMPRISING A PRESSURE AMPLIFIER

Title (de)  
KRAFTSTOFFEINSPRITZEINRICHTUNG MIT DRUCKVERSTÄRKER

Title (fr)  
SYSTEME D'INJECTION DE CARBURANT A MULTIPLICATEUR DE PRESSION

Publication  
**EP 1397591 A1 20040317 (DE)**

Application  
**EP 02745063 A 20020518**

Priority

- DE 0201801 W 20020518
- DE 10126685 A 20010601

Abstract (en)  
[origin: DE10126685A1] The fuel injector, for an internal combustion motor, has a pressure amplifier with a sliding piston (24) to compress the fuel from a low pressure zone into a high pressure zone to be passed to the injector. The piston stroke is controlled through the pressure difference zone in the amplifier. The structure gives a stepless increase of the inflow cross section to the pressure amplifying zone at the low pressure side or the outflow cross section from the pressure difference zone. A slit opening (26) is between the amplifier zone and the feed, to be opened and closed by the piston. A control edge (24') at the piston to set the piston up to the opening release.

IPC 1-7  
**F02M 47/02**; **F02M 45/12**; **F02M 57/02**

IPC 8 full level  
**F02M 47/00** (2006.01); **F02M 45/12** (2006.01); **F02M 47/02** (2006.01); **F02M 57/02** (2006.01)

CPC (source: EP US)  
**F02M 45/12** (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 57/025** (2013.01 - EP US)

Citation (search report)  
See references of WO 02099268A1

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