

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 A COMBUSTION INTERNE

Publication  
**EP 1346150 A1 20030924 (DE)**

Application  
**EP 01989387 A 20011207**

Priority  
• DE 0104623 W 20011207  
• DE 10062896 A 20001216

Abstract (en)  
[origin: WO0248540A1] The fuel injection device comprises a pump working chamber (18), defined by a pump piston (14), which may be filled with fuel through a connection, controlled by a control valve device (30; 130) and which may be connected to a discharge chamber (31). The pump working chamber (18) is separated from the discharge chamber (31) during each fuel injection by means of the control valve device (30; 130) and connected to the discharge chamber (31), by means of the control valve device (30; 130), in order to end the fuel injection. Furthermore, to interrupt a fuel injection, a connection of the pump working chamber (18) to a pressure chamber (32) of the injection valve member (22) is controlled by means of the control valve device (30; 130), whereby the injection valve member (22) is at least indirectly pressurised by the pressure in the pressure chamber (32) in the closing direction.

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**F02M 61/20**; F02M 63/00; F02M 59/36; F02M 59/46; F02M 57/02; F02M 47/02

IPC 8 full level  
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