

Title (en)

FUEL INJECTION DEVICE FOR INTERNAL COMBUSTION ENGINES

Title (de)

KRAFTSTOFFEINSPRITZVORRICHTUNG FÜR BRENNKRAFTMASCHINEN

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: DE19732802A1] The invention concerns a fuel injection device for internal combustion engines, wherein the displacement of a member closing the fuel injection valve is controlled by pressure prevailing in a control chamber (25). The pressure prevailing in said chamber is further controlled by a pilot valve (31) whereof the closure member can be actuated by a piezoelectric drive (65), the movement being transmitted via a hydraulic chamber. Said closure member comprises two sealing surfaces (37, 39) which co-operate with valve seats (36, 40), and when it passes from one valve seat to the other, a brief discharge occurs in the control chamber (25), to control a brief fuel injection. In order to obtain larger amounts of injected fuel, the pilot valve can be put in open or closed position.

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