

Title (en)
FUEL INJECTION DEVICE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZEINRICHTUNG FÜR BRENNKRAFTMASCHINEN

Title (fr)
DISPOSITIF D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

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Application
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• DE 19701879 A 19970121

Abstract (en)
[origin: DE19701879A1] The present invention relates to a fuel injection device for internal combustion engines, comprising a high pressure pump (1) fitted with a common high pressure collector (Common Rail) to be filled with fuel. Said collector is connected through injection pipes (9) to injection valves (11) emerging into the combustion chamber of the engine. The opening and closing motion of said valves is controlled by an electrically driven pilot valve (13) designed as a 3/2-way valve which connects a high pressure channel (29) opening out into an injection opening of the injection valve (11) to an injection pipe (9) or a discharge pipe (33). On the rod (25) of the pilot valve (13) there is a hydraulic working chamber (51), which is filled with HP fuel and can be handled so as to adjust the position of the pilot valve (13) rod (25) in the discharge channel (57).

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