

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: DE19939446A1] The invention relates to a fuel injection device for internal combustion engines. Said fuel injection device comprises a plurality of fuel injection valves (10) that are supplied with fuel by a high-pressure fuel accumulator (24). Every fuel injection valve (10) has a needle-shaped injection valve member (15) whose movement is controlled via the fuel pressure that prevails in a control chamber (35). According to the invention, the movement of the valve member (70) that relieves the control chamber (35) to a relief chamber (39) and that is coupled to a tappet (57) is controlled by means of two piezo actuators (45, 65). The piezo actuators (45, 65) are mounted in series so that their travel has the same effective direction.

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