

Title (en)

FUEL INJECTION SYSTEM FOR INTERNAL COMBUSTION ENGINES

Title (de)

KRAFTSTOFF-EINSPRITZEINRICHTUNG FÜR BRENNKRAFTMASCHINEN

Title (fr)

SYSTEME D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: WO2004040117A1] The invention relates to a fuel injection system for internal combustion engines comprising a fuel injection nozzle (2), which can be supplied with fuel by a fuel high-pressure source (1). Said fuel injection nozzle comprises: a moving nozzle plunger (3) for opening and closing injection openings; an injection nozzle high-pressure space (21), and; an injection nozzle control space (20). A pressure intensifying device (7) is connected between the fuel injection nozzle (2) and the fuel high-pressure source (1). Said pressure intensifying device has a moving pressure intensifier plunger (8), a pressure intensifier working space (11), a pressure intensifier control space (12), and a pressure intensifier high-pressure space (9). A filling connection (10), which is open when the fuel injection nozzle (2) is closed and which serves to fill the pressure intensifier high-pressure space (9), is closed by the nozzle plunger (3) when the fuel injection nozzle (2) is open.

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