

Title (en)
FUEL INJECTION SYSTEM FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZSYSTEM FÜR BRENNKRAFTMASCHINEN

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

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Application
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Priority
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Abstract (en)
[origin: DE19853103A1] The inventive fuel injection system for internal combustion engines is provided with a distributing pipe and a high-pressure pump which is driven depending on the engine speed. Said high-pressure pump produces the fuel pressure and throughput which is necessary for the operating state of the engine. The fuel injection system is also provided with a fuel metering unit assigned to the high pressure pump. Said fuel metering unit is based on an electromagnetically actuated control valve (11). The fuel metering unit (10, 11) is arranged within the high-pressure pump. The outlet (32, 34, 35) of the control valve (11) leads to the low-pressure zone of the high-pressure pump. The above-mentioned features permit the establishment of a fuel metering unit (10, 11) which is capable of exactly metering to the high-pressure pump of the common rail system the fuel amount desired for the respective operating state of the internal combustion engine.

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