Title (en)

FUEL INJECTION DEVICE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

KRAFTSTOFFEINSPRITZEINRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT POUR UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2032832 B1 20101215 (DE)

Application

EP 07728522 A 20070425

Priority

- EP 2007054067 W 20070425
- DE 102006027486 A 20060614

Abstract (en)

[origin: US2010012096A1] The fuel injection device for an internal combustion engine comprises a feed pump which has an electric drive, by which feed pump fuel is fed from a fuel storage tank into a low-pressure region to the suction side of at least one high-pressure pump. The high-pressure pump pumps fuel into a high-pressure region in which at least one injector is provided to inject the fuel into the internal combustion engine. The fuel injection is controlled by an electric control device. Arranged in the low-pressure region is a pressure sensor which is connected to the control device. The electric drive of the feed pump is activated by the control device in order to set a feed quantity of the feed pump which is variable as a function of at least one operating parameter of the internal combustion engine and/or of the high-pressure pump. The drive of the feed pump is in particular activated by the control device in such a way that, at a high load of the internal combustion engine and/or at a high rotational speed and/or at a high fuel temperature, a greater fuel quantity is fed by the feed pump into the low-pressure region than at a low load and/or a low rotational speed and/or a low fuel temperature.

IPC 8 full level

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CPC (source: EP KR US)

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