

Title (en)

Fuel supply system for combustion engine with direct fuel injection

Title (de)

Kraftstoff-Versorgungssystem für eine mit Kraftstoffdirekteinspritzung arbeitende Brennkraftmaschine

Title (fr)

Système d'alimentation en carburant pour moteur à combustion du type à injection directe

Publication

EP 1152142 B1 20040121 (DE)

Application

EP 01109000 A 20010411

Priority

DE 10021869 A 20000505

Abstract (en)

[origin: EP1152142A2] A fuel injection system for an IC engine has a high pressure fuel pump (5) feeding a common rail (3). Surplus and leaked fuel, from the high pressure circuit, is returned to the input of the high pressure pump using a separate pump (12) and non return valve (13). This increases the pumping efficiency of the system and enables a smaller delivery pump (2) to be fitted into the fuel tank. The separate pump can be driven mechanically or electrically and draws fuel from the return fuel line. Any surplus fuel is returned to the fuel tank in the normal way.

IPC 1-7

F02M 37/00

IPC 8 full level

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CPC (source: EP)

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Cited by

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