

Title (en)

ARRANGEMENT FOR INJECTING FUEL INTO THE CYLINDERS OF AN INTERNAL COMBUSTION ENGINE

Title (de)

ANORDNUNG ZUR EINSPRITZUNG VON KRAFTSTOFF IN DIE ZYLINDER EINER BRENNKRAFTMASCHINE

Title (fr)

SYSTEME PERMETTANT D'INJECTER DU CARBURANT DANS LES CYLINDRES D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 0752061 B1 19990127 (DE)

Application

EP 95911205 A 19950303

Priority

- DE 9500286 W 19950303
- DE 4410024 A 19940323

Abstract (en)

[origin: WO9525887A1] Simple requirement-dependent control of the flow of the fuel and hence the pressure in the high-pressure section are to be obtained in the high-pressure section of a (common rail) injection system, using a non-controllable high-pressure pump with check valves on the suction and delivery sides. To this end, the fuel flow is set on the low-pressure side by a controllable low-pressure pump or a downstream control valve. If the set fuel flow is lower than the maximum determined by the suction volume of the high-pressure pump, incorrect metering is prevented either by the floating piston together with a conventional check valve (17, 18) on the suction side or by a spring-loaded piston and a check valve in the form of a differential pressure valve (7, 8).

IPC 1-7

F02M 59/34; **F02M 59/46**

IPC 8 full level

F02M 59/34 (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP)

F02M 59/34 (2013.01); **F02M 59/462** (2013.01); **F02M 59/464** (2013.01)

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