

Title (en)

FUEL INJECTION APPARATUS FOR AN INTERNAL COMBUSTION ENGINE HAVING DIRECT FUEL INJECTION

Title (de)

KRAFTSTOFF-EINSPRITZVORRICHTUNG FÜR EINE BRENNKRAFTMASCHINE MIT KRAFTSTOFF-DIREKTEINSPRITZUNG

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT POUR MOTEUR A COMBUSTION INTERNE A INJECTION DIRECTE DE CARBURANT

Publication

EP 1952011 B1 20130724 (DE)

Application

EP 06807052 A 20061006

Priority

- EP 2006067156 W 20061006
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- DE 102006012078 A 20060316

Abstract (en)

[origin: WO2007057252A1] A fuel injection apparatus (10) comprises a housing (12), in which a valve element (18) is arranged. Said valve element (18) has a hydraulic pressure face (20, 22) which acts in the opening direction and delimits a high-pressure space (28) which is connected to a high-pressure connection (54). Furthermore, there is a hydraulic control face (46) on the valve element (18), which hydraulic control face (46) acts in the closing direction and delimits a control space (48), in which a variable control pressure prevails during operation. It is proposed that the valve element (18) interacts in a throttling manner with a housing region (26) in an open position or an open position region in such a way that a pressure which is lower than the pressure in the high-pressure space (28) prevails at least on one part of the pressure face (20, 22).

IPC 8 full level

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CPC (source: EP)

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Citation (examination)

- DE 10229418 A1 20040129 - BOSCH GMBH ROBERT [DE]
- DE 10348925 A1 20050512 - BOSCH GMBH ROBERT [DE]
- DE 10352736 A1 20050707 - BOSCH GMBH ROBERT [DE]

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DOCDB simple family (publication)

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