

Title (en)
A fuel injection device for internal combustion engines

Title (de)
Kraftstoffeinspritzvorrichtung für Brennkraftmaschinen

Title (fr)
Dispositif d'injection de combustible pour moteurs à combustion interne

Publication
EP 0949415 A3 20020612 (DE)

Application
EP 98123745 A 19981214

Priority
DE 19816316 A 19980411

Abstract (en)
[origin: EP0949415A2] The fuel injection system includes a HP fuel storage (1) with a pressure sensor (6). A fuel injection valve (9) controlled by a control unit (8) is supplied with fuel, and has an element (14), the opening and closing of which, is determined by a pressure, acting on this valve element in a control chamber (24). The valve element must be relieved, for carrying out an injection of the pressure in the control chamber. A control valve (31) sequentially controls two different discharge cross-sections of a discharge duct (49) of the control chamber, one after the other facilitating a matched opening of the fuel injection valve element, for a first and a main injection of fuel.

IPC 1-7
F02M 47/02; F02M 45/08

IPC 8 full level
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F02M 45/08 (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 63/0026** (2013.01 - EP US); **F02M 63/0056** (2013.01 - EP US);
F02M 63/0078 (2013.01 - EP US)

Citation (search report)
• [X] EP 0829641 A2 19980318 - ISUZU MOTORS LTD [JP]
• [X] EP 0745764 A2 19961204 - GANSER HYDROMAG [CH]
• [DA] DE 19624001 A1 19971218 - BOSCH GMBH ROBERT [DE]
• [A] EP 0816670 A1 19980107 - SIEMENS AUTOMOTIVE CORP LP [US]

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