

Title (en)  
Fuel injector

Title (de)  
Brennstoffeinspritzventil

Title (fr)  
Injecteur de combustible

Publication  
**EP 1186773 B1 20050119 (EN)**

Application  
**EP 01121254 A 20010905**

Priority  
JP 2000275012 A 20000906

Abstract (en)  
[origin: EP1186773A2] A fuel injector (1) comprising a housing (2) with a nozzle (4), a needle (3) movably accommodated in a needle accommodating chamber (5) formed in the housing (2), for opening or closing the nozzle (4), a pressure control chamber (8) defined between the needle (3) and an inner wall of the needle accommodating chamber (5) and filled with a fuel, a displacement of the needle depending on the fuel pressure in the pressure control chamber (8), a pressure control valve (14) movably provided in the housing for controlling the fuel pressure in the pressure control chamber (8); and an actuator (15) for controlling a displacement of the pressure control valve (14). The needle (3) is displaced to a position in which it closes the nozzle (4) when the pressure control valve (14) is displaced to the zero-displaced position, is displaced to a position in which it partly opens the nozzle when the pressure control valve (14) is displaced to an intermediate position, and is displaced to a position in which it fully opens the nozzle when the pressure control valve (14) is displaced to a fully-displaced position. <IMAGE> <IMAGE>

IPC 1-7  
**F02M 47/02**; **F02M 45/12**; **F02M 59/46**

IPC 8 full level  
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Cited by  
US10677184B2; US2016237937A1; EP2426349A1; EP1304475A1; EP2025918A1; EP3051108A4; WO2006134003A1; WO2007098985A1

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