

Title (en)  
COMMON RAIL INJECTOR

Title (de)  
COMMON-RAIL-INJEKTOR

Title (fr)  
INJECTEUR PAR ACCUMULATION DE PRESSION

Publication  
**EP 1115968 B1 20041013 (DE)**

Application  
**EP 00949112 A 20000623**

Priority  
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Abstract (en)  
[origin: WO0100980A1] The invention relates to a common rail injector which comprises an injector housing (2) that is connected to a central high-pressure reservoir via a fuel inlet (3), and which is supplied with fuel from a fuel tank. The fuel arrives inside a high-pressure boring (5) of an injection nozzle (6) according to the position of a 3/2 directional solenoid valve (4), whereby the 3/2 directional solenoid valve has a control piston (14) which can reciprocate between a closed and an opened valve position and whose one end is coupled to an armature (15) and whose other end projects into an unpressurized space (9). In the opened valve position of the fuel inlet (3), the fuel communicates with the high-pressure boring (5) of the injection nozzle (6), and in the closed valve position, the fuel inlet (3) is closed by the control piston (14), and the high-pressure boring (5) of the injection nozzle (6) is connected to a fuel outlet (12) and to the unpressurized space (9). In order to optimize the movement of the control piston in the flying phase, a first throttling position (27) is arranged between the high-pressure boring (5) and the fuel outlet (12).

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