

Title (en)  
INJECTOR HAVING CONTROL VALVE SLEEVE

Title (de)  
INJEKTOR MIT STEUERVERTILHÜLSE

Title (fr)  
INJECTEUR À MANCHON DE SOUPAPE DE COMMANDE

Publication  
**EP 2195523 A1 20100616 (DE)**

Application  
**EP 08804289 A 20080917**

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Abstract (en)  
[origin: WO2009047093A1] The invention relates to an injector for injecting fuel into the combustion chamber of an internal combustion engine, particularly a common rail injector, having an injection valve element (10) that can be adjusted between a closed position and an open position in the axial direction as a function of the pressure in a control chamber (22), wherein the control chamber (22) can be connected to an injector return connection (7) by means of a control valve (29) having an adjustable valve element (28), and wherein the valve element (28) is operatively connected to an armature plate (31), which interacts with a solenoid arrangement (32) for adjusting the valve element (28) and which is axially disposed between the solenoid arrangement und (32) and a control valve seat (35). The invention provides that a channel (42) extending in the axial direction and disposed radially outside the solenoid arrangement (32) is provided, by means of which fuel may flow from the control chamber (22) in the direction of the injector return connection (7) while the control valve (29) is open.

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