

Title (en)  
Pilot valve for an injector and injector

Title (de)  
Steuerventil für einen Injektor und Injektor

Title (fr)  
Soupape de distribution pour un injecteur et injecteur

Publication  
**EP 1916410 B1 20101020 (DE)**

Application  
**EP 07114577 A 20070820**

Priority  
DE 102006049533 A 20061020

Abstract (en)  
[origin: EP1916410A2] The injector has a nozzle needle, a control valve (3) and a piezoelectric actuator, where the valve has a valve unit (35) and controls a hydraulic connection between a control chamber and a fuel return. The valve unit has a ball (37) and a pressure pin (39), where the ball is guided in a guiding borehole (43) of a valve housing (33). A linear contact surface (45) is provided between the ball and the borehole and is interrupted by a flat portion in the ball surface, where the pin is arranged in the borehole.

IPC 8 full level  
**F02M 47/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)  
**F02M 47/027** (2013.01); **F02M 63/0026** (2013.01); **F02M 63/0031** (2013.01); **F02M 63/0071** (2013.01); **F02M 2200/703** (2013.01)

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DOCDB simple family (publication)  
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