

Title (en)  
Fuel injection valve device

Title (de)  
Kraftstoffeinspritzventileinrichtung

Title (fr)  
Dispositif de ventilation d'injection de carburant

Publication  
**EP 2148080 A1 20100127 (DE)**

Application  
**EP 09100299 A 20090527**

Priority  
DE 102008040637 A 20080723

Abstract (en)  
The device has a control valve that comprises a valve body (18). The valve body is designed with a closing element (40) and a guiding element (54) as a two piece, where the guiding element is designed as a valve pin (55). The valve pin is guided into a guiding sleeve (30) in a movable manner. The closing element comprises of a valve circular body (42). The valve circular body comprises of a circular sealing surface (44), and is pressed on the guiding element. The guiding element comprises of a passage unit (56), where the closing element and the guiding element exhibit different hardness. The guiding sleeve has a form of a circular cylinder casing. The closing element and the guiding element are made of different materials.

Abstract (de)  
Die Erfindung betrifft eine Kraftstoffeinspritzventileinrichtung mit einem Steuerventil, das einen Ventilkörper (18) umfasst. Um die Herstellung einer Kraftstoffeinspritzventileinrichtung mit einem Steuerventil, das einen Ventilkörper umfasst, zu vereinfachen und/oder deren Lebensdauer zu verlängern, ist der Ventilkörper (18) mindestens zweiteilig mit einem Schließelement (40) und einem Führungselement (54) ausgeführt.

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

CPC (source: EP)  
**F02M 47/027** (2013.01); **F02M 63/004** (2013.01); **F02M 63/0078** (2013.01); **F02M 2200/02** (2013.01)

Citation (applicant)  
DE 102004061800 A1 20060706 - BOSCH GMBH ROBERT [DE]

Citation (search report)  
• [X] DE 19512730 C1 19960829 - MTU FRIEDRICHSHAFEN GMBH [DE]  
• [X] WO 9934111 A1 19990708 - SIEMENS AG [DE], et al  
• [X] DE 19949528 A1 20010419 - BOSCH GMBH ROBERT [DE]  
• [X] EP 0851115 A1 19980701 - ELASIS SISTEMA RICERCA FIAT [IT]  
• [X] DE 102006021736 A1 20071115 - BOSCH GMBH ROBERT [DE]

Cited by  
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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

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