

Title (en)  
FUEL INJECTOR HAVING A SOLENOID VALVE WITH A SPHERICAL SEAT

Title (de)  
KRAFTSTOFFINJEKTOR MIT MAGNETVENTIL MIT KUGELSITZ

Title (fr)  
INJECTEUR DE CARBURANT AVEC ÉLECTROVANNE À SIÈGE SPHÉRIQUE

Publication  
**EP 2100026 A1 20090916 (DE)**

Application  
**EP 07821236 A 20071012**

Priority  
• EP 2007060869 W 20071012  
• DE 102006057025 A 20061204

Abstract (en)  
[origin: DE102006057025A1] The fuel injector (10) has an injecting valve element (42) operated via pressure discharge of a control chamber (36), which is subjected with a system pressure. The pressure discharge of the control chamber is made by a pressure-compensating magnetic valve (22), whose valve element (62) opens or locks a valve seat (80). The valve element or a piece of valve exhibits a spherical surface (86). The valve element is guided at a pressure pin, and a pressure-compensating area (78) is limited with the valve element.

IPC 8 full level  
**F02M 45/02** (2006.01); **F02M 47/02** (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)  
**F02M 47/027** (2013.01); **F02M 63/0015** (2013.01); **F02M 63/007** (2013.01); **F02M 63/0071** (2013.01); **F02M 63/008** (2013.01); **F02M 45/02** (2013.01); **F02M 63/0225** (2013.01); **F02M 2200/28** (2013.01)

Citation (search report)  
See references of WO 2008068093A1

Cited by  
EP2134956A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102006057025 A1 20080605**; AT E492719 T1 20110115; CN 101548092 A 20090930; CN 101548092 B 20121219; DE 502007006059 D1 20110203; EP 2100026 A1 20090916; EP 2100026 B1 20101222; WO 2008068093 A1 20080612

DOCDB simple family (application)  
**DE 102006057025 A 20061204**; AT 07821236 T 20071012; CN 200780044908 A 20071012; DE 502007006059 T 20071012; EP 07821236 A 20071012; EP 2007060869 W 20071012