

Title (en)  
Pressure-stabilised actuator

Title (de)  
Druckausgeglichenes Stellelement

Title (fr)  
Élément de commande à compensation de pression

Publication  
**EP 1983186 A3 20090107 (DE)**

Application  
**EP 08103368 A 20080404**

Priority  
DE 102007017729 A 20070416

Abstract (en)  
[origin: EP1983186A2] The injector (10) has a nozzle module (12), a throttle plate (14), and a holding body (18). An actuator module such as piezo actuator, is accommodated in a fuel free space within the holding body. A control valve is pressure compensated, and includes a valve body, which contains a passage opening into which a guide pin is guided. The guide pin is supplied within a high pressure area with fuel, which stays under system pressure.

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 63/0043** (2013.01); **F02M 63/0057** (2013.01)

Citation (search report)

- [XA] WO 02084106 A1 20021024 - BOSCH GMBH ROBERT [DE], et al
- [E] WO 2008061844 A1 20080529 - BOSCH GMBH ROBERT [DE], et al

Cited by  
CN104797807A; US10508635B2; US10024285B2; US9689359B2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 1983186 A2 20081022; EP 1983186 A3 20090107; EP 1983186 B1 20111019**; AT E529624 T1 20111115; DE 102007017729 A1 20081023

DOCDB simple family (application)  
**EP 08103368 A 20080404**; AT 08103368 T 20080404; DE 102007017729 A 20070416