

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFINJEKTOR

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
**EP 2002111 B1 20100512 (DE)**

Application  
**EP 07726342 A 20070212**

Priority  
• EP 2007051320 W 20070212  
• DE 102006014251 A 20060328

Abstract (en)  
[origin: DE102006014251A1] The injector has a high pressure fuel inlet (26) connected with a central high pressure fuel source and a pressure chamber (17), where the fuel is injected from the inlet into a combustion chamber of an internal combustion engine, when a nozzle needle (8) opens. The needle is coupled with a piezo-actuator (30) by a hydraulic coupler. The actuator is preloaded by a defined preload force that acts in the same direction as a compressive force and is larger than the compressive force. The compressive force acts on the actuator with a relatively low operating pressure of the coupler.

IPC 8 full level  
**F02M 51/06** (2006.01)

CPC (source: EP)  
**F02M 51/0603** (2013.01); **F02M 61/167** (2013.01); **F02M 2200/703** (2013.01)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102006014251 A1 20071004**; AT E467759 T1 20100515; DE 502007003736 D1 20100624; EP 2002111 A2 20081217; EP 2002111 B1 20100512; WO 2007110267 A2 20071004; WO 2007110267 A3 20080410

DOCDB simple family (application)  
**DE 102006014251 A 20060328**; AT 07726342 T 20070212; DE 502007003736 T 20070212; EP 07726342 A 20070212; EP 2007051320 W 20070212