

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFEINSPRITVENTIL

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
**EP 2707592 A1 20140319 (EN)**

Application  
**EP 11865917 A 20110513**

Priority  
US 2011036551 W 20110513

Abstract (en)  
[origin: WO2012158153A1] A fuel injector body has a fuel chamber and a valve seat around a fuel outlet. A valve body is positioned at the valve seat and a valve stem extends through the fuel outlet and fuel chamber. Engagement (disengagement) of valve body and valve seat closes (opens) the injector. The fuel chamber can comprise primary and secondary chambers connected by a valve passage and a metering member that restricts fuel flow between the chambers, thereby providing a flow-dependent closing force that reduces the dependence of fuel flow through the injector on fuel inlet pressure and that makes that flow dependent on an injector actuating force. The injector body or the valve body can comprise a spray-shaping surface arranged at least partly around the valve seat, which spray-shaping surface is arranged to direct a spray of fuel flowing through the fuel outlet.

IPC 8 full level  
**F02M 61/10** (2006.01); **B05B 1/26** (2006.01); **F02M 51/06** (2006.01); **F02M 61/06** (2006.01); **F02M 61/08** (2006.01); **F02M 61/12** (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01); **F02M 61/20** (2006.01); **F02M 63/00** (2006.01); **F02M 69/14** (2006.01)

CPC (source: EP)  
**F02M 51/0685** (2013.01); **F02M 61/06** (2013.01); **F02M 61/08** (2013.01); **F02M 61/12** (2013.01); **F02M 61/18** (2013.01); **F02M 61/1806** (2013.01); **F02M 61/1833** (2013.01); **F02M 61/1886** (2013.01); **F02M 61/1893** (2013.01); **F02M 61/205** (2013.01); **F02M 63/0073** (2013.01); **F02M 69/145** (2013.01); **F02M 51/0653** (2013.01); **F02M 2200/28** (2013.01)

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012158153 A1 20121122**; CN 103534476 A 20140122; CN 103534476 B 20161228; EP 2707592 A1 20140319; EP 2707592 A4 20150617; EP 2707592 B1 20200422

DOCDB simple family (application)  
**US 2011036551 W 20110513**; CN 201180070884 A 20110513; EP 11865917 A 20110513