

Title (en)  
INJECTOR FOR INJECTING FUEL

Title (de)  
INJEKTOR ZUM EINSPRITZEN VON KRAFTSTOFF

Title (fr)  
INJECTEUR POUR L'INJECTION DE CARBURANT

Publication  
**EP 2092187 B1 20111130 (DE)**

Application  
**EP 07820133 A 20070911**

Priority  
• EP 2007059530 W 20070911  
• DE 102006053128 A 20061110

Abstract (en)  
[origin: WO2008055724A1] The invention relates to an injector for injecting fuel into a combustion chamber of an internal combustion engine, comprising an injector housing, an upper housing part (25) and a center housing part (29), wherein an injection valve member, which opens or closes at least one injection opening, is activated via a control valve (1). The control valve (1) comprises a tappet (9), allowing a connection from a control chamber into a fuel return line to be opened or closed. A bore (15) is provided in the tappet (9), wherein a guiding pin (17) is received in this bore, is radially displaceable in relation to the injector housing (25, 39) and encloses a valve chamber (29) together with the wall of the bore (15) in the tappet (9). Said valve chamber is hydraulically connected with the control chamber. The guiding pin (17) is pressed against a contact surface by the pressure prevailing in the valve chamber (29), thus aligning the tappet (9).

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

CPC (source: EP)  
**F02M 47/027** (2013.01); **F02M 63/0015** (2013.01); **F02M 63/004** (2013.01); **F02M 63/0078** (2013.01); **F02M 63/008** (2013.01)

Cited by  
EP2749800A4; US9297473B2

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 102006053128 A1 20080515**; AT E535704 T1 20111215; CN 101535625 A 20090916; CN 101535625 B 20130102; EP 2092187 A1 20090826; EP 2092187 B1 20111130; WO 2008055724 A1 20080515

DOCDB simple family (application)  
**DE 102006053128 A 20061110**; AT 07820133 T 20070911; CN 200780041616 A 20070911; EP 07820133 A 20070911; EP 2007059530 W 20070911