

Title (en)  
Fuel injector

Title (de)  
Brennstoffeinspritzventil

Title (fr)  
Injecteur de carburant

Publication  
**EP 1602825 A1 20051207 (EN)**

Application  
**EP 04256547 A 20041022**

Priority  
• EP 04253311 A 20040603  
• EP 04256547 A 20041022

Abstract (en)  
A fuel injector has a valve group formed by a pintle (16) and seat (14). The valve group is biased shut by a spring (18). In order to prevent the closing force and speed varying with the hydraulic effects of fuel pressure in the injector, fuel is passed via a bypass (26) to a location between the seat (14) and a seal (24) which is dimensioned to provide a cancelling hydraulic force. Other embodiments use auxiliary springs to give a cancelling force. <IMAGE>

IPC 1-7  
**F02M 61/08**; **F02M 51/06**

IPC 8 full level  
**F02M 51/06** (2006.01); **F02M 61/08** (2006.01); **F02M 61/20** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)  
**F02M 51/0653** (2013.01); **F02M 61/08** (2013.01); **F02M 61/20** (2013.01); **F02M 63/0057** (2013.01); **F02M 2200/16** (2013.01)

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

DOCDB simple family (publication)  
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