

Title (en)  
Improved control valve arrangement

Title (de)  
Verbesserte Steuerventilanordnung

Title (fr)  
Dispositif de soupape de commande amélioré

Publication  
**EP 1783359 A1 20070509 (EN)**

Application  
**EP 06251832 A 20060331**

Priority  
• EP 05256794 A 20051102  
• EP 06251832 A 20060331

Abstract (en)  
A fuel injector has a body (10) and a pintle (12) axially movable with respect to the body in upper (18) and lower (20) guides, and limited by an end stop (26). The guides (18,20) are mounted in a support (30) spaced from the body (10) and immersed, in use, in fuel. Differential expansion of the pintle (112) with respect to the spacing between the spray aperture (16) and the end stop (26) is minimised.

IPC 8 full level  
**F02M 61/08** (2006.01); **F02M 51/06** (2006.01); **F02M 61/10** (2006.01)

CPC (source: EP)  
**F02M 51/0653** (2013.01); **F02M 61/08** (2013.01); **F02M 61/10** (2013.01)

Citation (search report)  
• [X] US 2001030248 A1 20011018 - POPP ROGER C [US]  
• [X] US 4653720 A 19870331 - KNAPP HEINRICH [DE], et al  
• [X] US 3156414 A 19641110 - DRESSLER THOMAS M  
• [X] US 5190223 A 19930302 - MESENICH GERHARD [DE]  
• [X] US 3791589 A 19740212 - PAGDIN B  
• [A] US 3249308 A 19660503 - GEORGES CADIOU JEAN

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

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
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