

Title (en)
Fuel injector

Title (de)
Kraftstoffeinspritzventil

Title (fr)
Injecteur à combustible

Publication
EP 1072786 A3 20020508 (EN)

Application
EP 00306425 A 20000727

Priority
GB 9917997 A 19990730

Abstract (en)
[origin: EP1072786A2] A fuel injector comprising a valve needle (12) biased towards a seating by a first spring (18), the first spring (18) being located within a spring chamber (17) having a closed end. The valve needle (12) is engageable with a moveable stop member (23) which is biased towards a rest position by a second spring (22) located within the spring chamber (17). The fuel injector also includes a spring abutment member (25) for the second spring (22), the spring abutment member (25) being of tubular form and transmitting the spring load of the second spring (22) to the closed end of the spring chamber (17). <IMAGE>

IPC 1-7
F02M 45/08; **F02M 61/20**

IPC 8 full level
F02M 45/08 (2006.01); **F02M 61/16** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)
F02M 45/083 (2013.01); **F02M 61/16** (2013.01); **F02M 61/20** (2013.01)

Citation (search report)
• [X] US 5727738 A 19980317 - HOFMANN KARL [DE], et al
• [X] EP 0853196 A1 19980715 - LUCAS IND PLC [GB]
• [X] DE 4001103 A1 19910718 - DAIMLER BENZ AG [DE]
• [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10 31 August 1999 (1999-08-31)
• [X] PATENT ABSTRACTS OF JAPAN vol. 009, no. 025 (M - 355) 2 February 1985 (1985-02-02)

Cited by
US7070127B2; WO02068816A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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