

Title (en)  
FUEL INJECTION DEVICE

Publication  
**EP 0277939 B1 19921104 (DE)**

Application  
**EP 88890027 A 19880204**

Priority  
AT 22887 A 19870204

Abstract (en)  
[origin: EP0277939A2] In a fuel injection nozzle, in particular a pump nozzle, with a nozzle needle (3) spring loaded in the closing direction, in which the pressure chamber in front of the seat of the nozzle needle (3) is openly connected to the reservoir chamber of a deflection piston (6), which can slide in a guide hole and is spring loaded in the direction of the reservoir chamber, the deflection piston (6) on its piston face remote from the storage reservoir (12) is acted on by pressure in a damping chamber (14) fillable with fuel which is connected via a restricted flow cross section (20) to an outlet (21) and/or another chamber. <IMAGE>

IPC 1-7  
**F02M 45/08**; **F02M 57/02**; **F02M 61/20**

IPC 8 full level  
**F02M 47/02** (2006.01); **F02M 45/08** (2006.01); **F02M 57/02** (2006.01); **F02M 61/16** (2006.01); **F02M 61/20** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)  
**F02M 45/08** (2013.01 - EP US); **F02M 57/02** (2013.01 - EP US); **F02M 61/205** (2013.01 - EP US); **F02M 2200/505** (2013.01 - EP US)

Cited by  
DE10203264A1; DE4340874A1; US5125581A; US6823848B2; DE3900763A1; DE10242376A1; DE10160080A1; DE10310120B4; WO03081007A1; WO03067074A1; WO03054379A1; WO9008257A1; WO02086307A1; WO9418450A1

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**EP 0277939 A2 19880810**; **EP 0277939 A3 19891206**; **EP 0277939 B1 19921104**; AT E82042 T1 19921115; DE 3875627 D1 19921210; JP 2523759 B2 19960814; JP S63198774 A 19880817; US 4928886 A 19900529

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**EP 88890027 A 19880204**; AT 88890027 T 19880204; DE 3875627 T 19880204; JP 2217188 A 19880203; US 41547089 A 19891002