

Title (en)  
Control valve for a fuel injector

Title (de)  
Steuerventil für Kraftstoffeinspritzventil

Title (fr)  
Soupape de commande pour injecteur à combustible

Publication  
**EP 0959243 B1 20031112 (DE)**

Application  
**EP 99109650 A 19990512**

Priority  
DE 19822503 A 19980519

Abstract (en)  
[origin: EP0959243A1] The control valve has a control chamber (4) coupled to the high pressure rail via a throttle (3), with the pressure in the control chamber acting on a movable jet element (6) provided with a jet needle cooperating with the fuel injection opening (7). The valve element (20) of the control valve (12) has a working face defining one side of the pressure chamber and a valve chamber (26) on the opposite side to the pressure chamber, coupled to the latter via a choke (28) incorporated in the valve element.

IPC 1-7  
**F02M 47/02**

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

CPC (source: EP US)  
**F02M 47/027** (2013.01 - EP US); **F02M 2200/21** (2013.01 - EP US)

Cited by  
CN1091217C; CN106662056A; FR2897396A1; EP2025918A1; US10240566B2; WO2016020469A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0959243 A1 19991124**; **EP 0959243 B1 20031112**; DE 19822503 C1 19991125; DE 59907682 D1 20031218; JP 2000008988 A 20000111; US 6145492 A 20001114

DOCDB simple family (application)  
**EP 99109650 A 19990512**; DE 19822503 A 19980519; DE 59907682 T 19990512; JP 13911799 A 19990519; US 31419199 A 19990519