

Title (en)

Fuel injection valve

Title (de)

Kraftstoffeinspritzventil

Title (fr)

Soupape d'injection de combustible

Publication

EP 1013919 A3 20020213 (DE)

Application

EP 99124112 A 19991202

Priority

DE 19859537 A 19981222

Abstract (en)

[origin: EP1013919A2] The fuel injection valve has a switching valve with a valve seat (51) and valve ball (50) that is raised from the seat in the open state and supplied by a pressure chamber (15) connected to a central high pressure line via a choke bore (17). The transition from the choke inlet to the valve seat form a diffuser. The diffuser can be conical, stepped or a combination of the two.

IPC 1-7

F02M 47/02; **F02M 59/46**

IPC 8 full level

F02M 47/00 (2006.01); **F02M 47/02** (2006.01); **F02M 51/00** (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP US)

F02M 47/027 (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 2200/04** (2013.01 - EP US); **F02M 2200/28** (2013.01 - EP US)

Citation (search report)

- [X] US 5806766 A 19980915 - KRUEGER HINRICH [DE], et al
- [X] EP 0851115 A1 19980701 - ELASIS SISTEMA RICERCA FIAT [IT]
- [X] GB 2316447 A 19980225 - DAIMLER BENZ AG [DE]

Cited by

EP2290272A3; US8881400B2; WO2012084682A1; WO2008012133A1; WO2010060706A1; WO2008092711A1; WO0214682A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1013919 A2 20000628; **EP 1013919 A3 20020213**; **EP 1013919 B1 20041020**; DE 19859537 A1 20000706; DE 59910896 D1 20041125; JP 2000186647 A 20000704; US 6276335 B1 20010821

DOCDB simple family (application)

EP 99124112 A 19991202; DE 19859537 A 19981222; DE 59910896 T 19991202; JP 36513999 A 19991222; US 46584399 A 19991217