

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

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