

Title (en)

FUEL INJECTION VALVE OR FUEL INJECTION NOZZLE

Title (de)

BRENNSTOFFEINSPRITZVENTIL ODER BRENNSTOFFEINSPRITZDÜSE

Title (fr)

SOUPAPE D'INJECTION DE CARBURANT OU INJECTEUR DE CARBURANT

Publication

**EP 0975870 B1 20030910 (DE)**

Application

**EP 98932005 A 19980425**

Priority

- DE 9801159 W 19980425
- DE 19726727 A 19970624

Abstract (en)

[origin: DE19726727A1] The invention relates to a fuel injection nozzle (1) or a fuel injection valve with a nozzle body (2) extending along a longitudinal axis (3). The valve seat surface (13) is configured on said body and interacts with a valve closing surface (15) arranged on the valve closing body (14) to form a valve seat. When the fuel injection valve or the fuel injection nozzle is open, at least one fuel jet (17) is injected having a radial directional component relative to the longitudinal axis (3) of the nozzle body (2). According to the invention, a sheath (4) is provided, which protrudes over axially above the fuel jet (17) in the direction of the longitudinal axis (3). The sheath (4) has an impact surface (19) which is impacted upon by the fuel jet (17). The impact surface (19) is slanted at a given angle (  $\alpha$  ) in relation to a vertical plane (20) which is vertical to the longitudinal axis (3) and/or the impact surface (19) is grooved.

IPC 1-7

**F02M 57/06**; **F02M 61/18**; **F02M 61/08**

IPC 8 full level

**F02P 13/00** (2006.01); **F02M 57/06** (2006.01); **F02M 61/08** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP KR US)

**F02M 57/06** (2013.01 - EP KR US); **F02M 61/08** (2013.01 - EP US); **F02M 61/18** (2013.01 - EP US); **F02M 61/1806** (2013.01 - EP US); **F02M 61/1833** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 19726727 A1 19990107**; DE 59809574 D1 20031016; EP 0975870 A1 20000202; EP 0975870 B1 20030910; JP 2000517030 A 20001219; KR 20000068296 A 20001125; US 6186419 B1 20010213; WO 9859168 A1 19981230

DOCDB simple family (application)

**DE 19726727 A 19970624**; DE 59809574 T 19980425; DE 9801159 W 19980425; EP 98932005 A 19980425; JP 50352199 A 19980425; KR 19997001443 A 19990223; US 24270899 A 19990224