

Title (en)

Fuel injection valve

Title (de)

Brennstoffeinspritzventil

Title (fr)

Soupape d'injection de combustible

Publication

**EP 1197652 B1 20050831 (DE)**

Application

**EP 01123519 A 20010929**

Priority

DE 10050054 A 20001010

Abstract (en)

[origin: EP1197652A2] The fuel injection valve comprises a valve-closing body forming a seal with a valve seat surface formed on a valve seat body, and a twisting module. The twisting module comprises several wires (42) twisted around one another and inserted in a sleeve (44) . The wires fill a recess (43) in the sleeve to produce a spiral hollow chamber (45) between the wires and an inner wall (46) of the sleeve. Preferred Features: The hollow spaces between the wires and the inner wall are formed as flow channels. The wires are twisted together in the form of a cord. At least three wires are used. The wires are made of tungsten or glass fibers.

IPC 1-7

**F02M 61/18**; F02M 61/16; F02M 51/06

IPC 8 full level

**B05B 1/34** (2006.01); **F02M 51/06** (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)

**F02M 51/0664** (2013.01); **F02M 51/0671** (2013.01); **F02M 61/162** (2013.01); **F02M 61/168** (2013.01); **F02M 61/1806** (2013.01)

Cited by

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Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 1197652 A2 20020417**; **EP 1197652 A3 20020612**; **EP 1197652 B1 20050831**; DE 10050054 A1 20020418; DE 10050054 B4 20050127; DE 50107266 D1 20051006; JP 2002195132 A 20020710

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**EP 01123519 A 20010929**; DE 10050054 A 20001010; DE 50107266 T 20010929; JP 2001313164 A 20011010