

Title (en)
Fuel injector

Title (de)
Brennstoffeinspritzventil

Title (fr)
Injecteur de carburant

Publication
EP 1195515 A3 20030423 (DE)

Application
EP 01123487 A 20010928

Priority
DE 10049033 A 20001004

Abstract (en)
[origin: EP1195515A2] The valve has a swirl body (34), located downstream of a sealing seat, with swirl channels (35) and an ejection channel (7). A longitudinal axis of the swirl channel is located at an angle of less than 90 degrees relative to a similar axis (38) of the ejection channel, so that the fuel flowing through the injection valve (1) moves along a spiral path along an inner wall (40) of the ejection channel. The swirl channel is eccentric relative to the ejection channel, the swirl body is disc-shaped and closes a nozzle body (2) of the injection valve on the outlet side.

IPC 1-7
F02M 61/18; **F02M 61/16**

IPC 8 full level
F02M 51/06 (2006.01); **F02M 61/12** (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)
F02M 51/0671 (2013.01); **F02M 61/12** (2013.01); **F02M 61/162** (2013.01); **F02M 61/168** (2013.01); **F02M 61/1806** (2013.01); **F02M 61/1833** (2013.01); **F02M 61/1853** (2013.01)

Citation (search report)

- [X] DE 972387 C 19590709 - DAIMLER BENZ AG
- [X] DE 3121572 A1 19821216 - BOSCH GMBH ROBERT [DE]
- [A] FR 2773852 A1 19990723 - SAGEM [FR]
- [A] WO 9953191 A1 19991021 - BOSCH GMBH ROBERT [DE], et al

Cited by
DE112011100333B4; EP3184801A1; EP3009662A1; CN109715934A; EP3279465A1; FR3054614A1; US8313048B2; WO2008052840A1; WO2005010349A1; WO2012033545A1; US8317112B2

Designated contracting state (EPC)
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