

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1702156 A1 20060920 (DE)

Application
EP 04817563 A 20041119

Priority
• EP 2004053024 W 20041119
• DE 10361762 A 20031229

Abstract (en)
[origin: WO2005064150A1] Disclosed is a fuel injection valve (1) comprising an actuator which is effectively connected to a valve needle (3). The discharge end of said valve needle (3) is provided with a valve-closing member (4) which cooperates with a valve seat surface (6) so as to form a sealing seat. A discharge port (7) ends at an outlet point (46). Said outlet point (46) of the discharge port (7) protrudes relative to all sides of the surface which surrounds the outlet point (46) and from which the same extends.

IPC 8 full level
F02M 51/06 (2006.01); **F02M 61/08** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)
F02M 51/0675 (2013.01); **F02M 51/0685** (2013.01); **F02M 61/08** (2013.01); **F02M 61/1806** (2013.01); **F02M 61/1833** (2013.01)

Citation (search report)
See references of WO 2005064150A1

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
WO 2005064150 A1 20050714; DE 10361762 A1 20050728; DE 502004012167 D1 20110317; EP 1702156 A1 20060920; EP 1702156 B1 20110202

DOCDB simple family (application)
EP 2004053024 W 20041119; DE 10361762 A 20031229; DE 502004012167 T 20041119; EP 04817563 A 20041119