

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 2329133 A1 20110608 (DE)

Application
EP 09780220 A 20090707

Priority
• EP 2009058556 W 20090707
• DE 102008041676 A 20080829

Abstract (en)
[origin: WO2010023012A1] The invention relates to a fuel injection valve (1), particularly used as injector for fuel injection units of air compressed, self igniting internal combustion engines, comprises a nozzle body (2) with a valve seat surface (7) and a nozzle needle (3) interacting with the valve seat surface (7) as a sealing seat in order to control a fuel flow to an injection hole (15) located downstream of the sealing seat of the nozzle body (2). The injection hole (15) is rounded at an inflowing region (16). The injection hole (15) further comprises a tapering and a cutting edge (29) at an outer region of the hole (18). Thus high efficiency atomization of fuel close to the nozzle is possible.

IPC 8 full level
F02M 61/18 (2006.01)

CPC (source: EP US)
F02M 61/1806 (2013.01 - EP US)

Citation (search report)
See references of WO 2010023012A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008041676 A1 20100304; CN 102132029 A 20110720; EP 2329133 A1 20110608; EP 2329133 B1 20140910;
US 2011155826 A1 20110630; WO 2010023012 A1 20100304

DOCDB simple family (application)
DE 102008041676 A 20080829; CN 200980133435 A 20090707; EP 09780220 A 20090707; EP 2009058556 W 20090707;
US 73790709 A 20090707