

Title (en)  
INJECTION VALVE

Title (de)  
EINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION

Publication  
**EP 2516840 A1 20121031 (DE)**

Application  
**EP 10762643 A 20100930**

Priority  
• DE 102009055042 A 20091221  
• EP 2010064584 W 20100930

Abstract (en)  
[origin: WO2011076452A1] The invention relates to an injection valve (1), which is used in particular as an injector for fuel injection systems or exhaust gas aftertreatment systems, comprising a shock wave actuator (4), a valve closing body (8) that interacts with a valve seat surface (7) to form a sealing seat (9), and a shock wave amplification channel (22). The shock wave amplification channel (22) is used to conduct shock waves (27) generated by the shock wave actuator (4) to the sealing seat (9) and to amplify said shock waves (27).

IPC 8 full level  
**F02M 63/06** (2006.01); **F02M 69/04** (2006.01)

CPC (source: EP US)  
**F02M 63/06** (2013.01 - EP US); **F02M 69/041** (2013.01 - EP US)

Citation (search report)  
See references of WO 2011076452A1

Designated contracting state (EPC)  
AL 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

DOCDB simple family (publication)  
**WO 2011076452 A1 20110630**; CN 102713246 A 20121003; DE 102009055042 A1 20110622; EP 2516840 A1 20121031;  
US 2012256013 A1 20121011

DOCDB simple family (application)  
**EP 2010064584 W 20100930**; CN 201080058084 A 20100930; DE 102009055042 A 20091221; EP 10762643 A 20100930;  
US 201013518008 A 20100903