

Title (en)  
Fuel injector

Title (de)  
Kraftstoffinjektor

Title (fr)  
Injecteur de carburant

Publication  
**EP 2628940 B1 20150812 (DE)**

Application  
**EP 13152181 A 20130122**

Priority  
DE 102012202538 A 20120220

Abstract (en)  
[origin: EP2628940A1] The injector has a control valve (1) that controls stroke of nozzle needle (2). A valve chamber (3) formed with low-pressure region (8) is biased against valve seat (6) by valve spring (5), and is lifted by actuator (7). A discharge throttle (9) is projected from end surface (10) of nozzle needle in control chamber (11). The pressure increase in control chamber is effected through feed channel (12) communicated with inlet throttle (13) in closed position of control valve so as to make nozzle needle to close. The inlet throttle is passively controlled with closing element (14).

IPC 8 full level  
**F02M 47/02** (2006.01)

CPC (source: EP)  
**F02M 47/027** (2013.01); **F02M 63/0035** (2013.01); **F02M 63/0054** (2013.01); **F02M 63/0078** (2013.01); **F02M 2200/28** (2013.01); **F02M 2547/001** (2013.01); **F02M 2547/008** (2013.01)

Citation (examination)  
JP 2011208554 A 20111020 - DENSO CORP, et al

Cited by  
KR20170041882A; FR3050771A1; US11608805B2; WO2016026595A1; WO2017186819A1; WO2019016399A1

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 RS SE SI SK SM TR

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**EP 2628940 A1 20130821; EP 2628940 B1 20150812; DE 102012202538 A1 20130822**

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