

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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