

Title (en)

Fuel injection valve

Title (de)

Brennstoffeinspritzventil

Title (fr)

Soupape d'injection de combustible

Publication

EP 2628941 B1 20140903 (DE)

Application

EP 13152627 A 20130125

Priority

DE 102012202253 A 20120215

Abstract (en)

[origin: EP2628941A1] The injector (1) has a linearly movable valve needle (7) e.g. hollow or solid needle, for opening and closing a combustion-chamber side injection aperture (5) of housing (2). A solenoid (11) linearly moves an armature (13). A sleeve is attached to the armature, and made from a solid material than the armature. A stop surface facing away from a combustion chamber is formed on the sleeve. Another stop surface facing the combustion chamber is formed on a valve needle, where the stop surfaces are struck with each other when one of the valve needle and the armature is linearly moved.

IPC 8 full level

F02M 51/06 (2006.01)

CPC (source: EP US)

F02M 51/0625 (2013.01 - US); **F02M 51/0685** (2013.01 - EP US); **F02M 2200/02** (2013.01 - EP US)

Cited by

EP2863042A1; WO2019120822A1

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

DOCDB simple family (publication)

EP 2628941 A1 20130821; EP 2628941 B1 20140903; DE 102012202253 A1 20130822; US 10428779 B2 20191001; US 2013206872 A1 20130815

DOCDB simple family (application)

EP 13152627 A 20130125; DE 102012202253 A 20120215; US 201313765342 A 20130212