

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)

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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