

Title (en)
Injection valve

Title (de)
Einspritzventil

Title (fr)
Soupape d'injection

Publication
EP 2863044 B1 20160629 (EN)

Application
EP 13188793 A 20131015

Priority
EP 13188793 A 20131015

Abstract (en)
[origin: EP2863044A1] An injection valve (101, 102) is described, the injection valve (101, 102) comprising a valve assembly (1) and a fluid inlet tube (2) with a recess (20) connected to the valve assembly (1), the valve assembly (1) comprising a valve body (10) having a central longitudinal axis (L), the valve body (10) comprising a cavity (11) with a fluid outlet portion (14), a valve needle (4) arranged in the cavity (11) and movable along the central longitudinal axis (L) between a closing position and opening positions, the valve needle (4) preventing a fluid flow through the fluid outlet portion (14) in the closing position and releasing the fluid flow through the fluid outlet portion (14) in opening positions, an electro-magnetic actuator unit (3) being designed to actuate an armature (5) which is arranged in the cavity (11) and is axially moveable relative to the valve needle (20) along the longitudinal axis (L), wherein the armature (5) is hydraulically coupled to the valve needle (4) and is operable to move the valve needle (4) to an opening position by exerting a hydraulic force when being actuated by the electro-magnetic actuator unit (3).

IPC 8 full level
F02M 51/06 (2006.01); **F02M 61/08** (2006.01)

CPC (source: EP)
F02M 51/066 (2013.01); **F02M 61/08** (2013.01); **F02M 2200/703** (2013.01)

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 2863044 A1 20150422; EP 2863044 B1 20160629

DOCDB simple family (application)
EP 13188793 A 20131015