

Title (en)
Method for adjusting an injection valve

Title (de)
Verfahren zur Einstellung eines Brennstoffeinspritzventils

Title (fr)
Méthode pour ajuster un injecteur de carburant

Publication
EP 1865194 A1 20071212 (EN)

Application
EP 06011630 A 20060606

Priority
EP 06011630 A 20060606

Abstract (en)
Method for adjusting an injection valve (10), the injection valve (10) comprising a housing (12) including a central longitudinal axis (A), the housing (12) comprising a cavity (24) with a fluid outlet portion (28), a valve needle (22) axially movable in the cavity (24), the valve needle (10) preventing a fluid flow through the fluid outlet portion (44) in a closing position and releasing the fluid flow through the fluid outlet portion (44) in further positions, an actuator unit (16) being coupled to the valve needle (22) and enabling the axial movement of the valve needle (22) relative to the valve body (20) upon actuation of the actuator unit (16), and an adjusting arrangement (14). The adjusting arrangement (14) comprises a spring retaining element (42) being coupable to the housing (12), a thermal compensation unit (40) being coupable to the spring retaining element (42), and an adjusting spring (44) arranged between the thermal compensation unit (40) and the spring retaining element (42) and being enabled to exert an axial preload force on the actuator unit (16).

IPC 8 full level
F02M 61/16 (2006.01)

CPC (source: EP)
F02M 61/161 (2013.01); **F02M 61/167** (2013.01); **F02M 61/168** (2013.01)

Citation (search report)
• [A] EP 1593841 A1 20051109 - BOSCH GMBH ROBERT [DE]
• [A] US 2005056706 A1 20050317 - CROFTS JOHN D [US]
• [A] EP 1450036 A1 20040825 - SIEMENS VDO AUTOMOTIVE SPA [IT]
• [A] EP 1445477 A1 20040811 - SIEMENS VDO AUTOMOTIVE SPA [IT]

Designated contracting state (EPC)
DE FR IT

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1865194 A1 20071212; **EP 1865194 B1 20100106**; DE 602006011587 D1 20100225

DOCDB simple family (application)
EP 06011630 A 20060606; DE 602006011587 T 20060606