

Title (en)

Fuel injector with improved implementation of a control valve for controlling an injection needle

Title (de)

Kraftstoffinjektor mit einer verbesserten Ausführung eines Steuerventils zur Steuerung einer Düsenadel

Title (fr)

Injecteur de carburant doté d'un équipement amélioré d'une soupape de commande pour la commande d'une aiguille d'injection

Publication

EP 1967727 B1 20110824 (DE)

Application

EP 08100932 A 20080125

Priority

DE 102007011317 A 20070308

Abstract (en)

[origin: EP1967727A2] An automotive fuel injection assembly (1) has a needle (4) that rises and falls within a jet (3) housing (2) to open and close a jet (5). A valve regulates the needle motion by side contact with a pressure pin (8). The needle (7) end geometry makes contact with the needle valve seat (9) but leaves an aperture that dampens fluid flow to the valve needle (7).

IPC 8 full level

F02M 47/02 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 63/0015** (2013.01); **F02M 63/007** (2013.01); **F02M 63/0078** (2013.01); **F02M 63/008** (2013.01); **F02M 2200/304** (2013.01)

Citation (examination)

WO 2008049666 A1 20080502 - BOSCH GMBH ROBERT [DE], et al

Cited by

CN103635684A; CN102822496A; WO2012171767A1; WO2011117029A1; WO2011042300A1; EP2201240B1

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