

Title (en)
Fuel injection control device

Title (de)
Brennstoffeinspritzungssteuervorrichtung

Title (fr)
Dispositif de commande d'injection de carburant

Publication
EP 2708727 A1 20140319 (EN)

Application
EP 13172222 A 20130617

Priority
JP 2012204779 A 20120918

Abstract (en)
A fuel injection control device (27) injects fuel for learning into a combustion chamber (4) of an engine (1) from a nozzle (7) of a fuel injection valve (5), to perform learning of injection quantity of the fuel injection valve (5). The fuel injection control device (27) is provided with an exposed heat temperature detection means (28, 31) for detecting an exposed heat temperature of the nozzle (7), an exposed heat amount acquisition means (31) for acquiring an exposed heat amount of the nozzle (7), based on the exposed heat temperature of the nozzle (7) detected by the exposed heat temperature detection means (28, 31) and an operating time of the engine (1), and a learning interval change means (31) for changing an interval of execution of the injection quantity learning, according to the exposed heat amount of the nozzle (7) acquired by the exposed heat amount acquisition means (31).

IPC 8 full level
F02D 41/24 (2006.01); **F02D 35/02** (2006.01)

CPC (source: EP)
F02D 35/026 (2013.01); **F02D 41/2441** (2013.01); **F02D 41/2454** (2013.01); **F02D 41/2467** (2013.01)

Citation (applicant)
JP 2010261334 A 20101118 - DENSO CORP

Citation (search report)
• [A] WO 2008155648 A1 20081224 - TOYOTA MOTOR CO LTD [JP], et al
• [A] WO 2007105080 A2 20070920 - TOYOTA MOTOR CO LTD [JP], et al

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2708727 A1 20140319; EP 2708727 B1 20150415; JP 2014058916 A 20140403; JP 5732443 B2 20150610

DOCDB simple family (application)
EP 13172222 A 20130617; JP 2012204779 A 20120918