

Title (en)

CONTROL DEVICE AND CONTROL METHOD OF FUEL PRESSURE OF ENGINE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR STEUERUNG DES KRAFTSTOFFDRUCKS EINES MOTORS

Title (fr)

DISPOSITIF ET PROCÉDÉ DE COMMANDE DE PRESSION DE CARBURANT DE MOTEUR

Publication

EP 3061956 A3 20161026 (EN)

Application

EP 16156711 A 20160222

Priority

JP 2015034410 A 20150224

Abstract (en)

[origin: EP3061956A2] A control device of an engine, the control device includes an ECU (27) that is configured to: control a fuel discharge amount of a fuel pump (14) such that an actual fuel pressure (PR) of a fuel to be supplied to an injector (24) is equal to a target fuel pressure (PRRQ); perform a predictive control when the ECU predicts that an engine load would decrease, the predictive control is a control to decrease the fuel discharge amount to be smaller than a value corresponds to a current value of the target fuel pressure; and control the fuel discharge amount to maintain the actual fuel pressure at a lower limit guard value (PRGD) when the actual fuel pressure is equal to or lower than the lower limit guard value and is lower than the target fuel pressure, during the execution of the predictive control.

IPC 8 full level

F02D 41/38 (2006.01); **F02D 41/12** (2006.01); **F02D 41/14** (2006.01)

CPC (source: EP)

F02D 41/3845 (2013.01); **F02D 41/12** (2013.01); **F02D 2041/1412** (2013.01); **F02M 59/366** (2013.01)

Citation (search report)

- [X] DE 102013201355 A1 20140731 - BOSCH GMBH ROBERT [DE]
- [I] DE 102009017472 A1 20101021 - BAYERISCHE MOTOREN WERKE AG [DE]
- [I] JP 2010019088 A 20100128 - DENSO CORP
- [A] EP 2336531 A1 20110622 - BOSCH CORP [JP]
- [A] US 2007017485 A1 20070125 - NAKANE NORIAKI [JP]

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 3061956 A2 20160831; **EP 3061956 A3 20161026**; **EP 3061956 B1 20190424**; JP 2016156317 A 20160901; JP 6229679 B2 20171115

DOCDB simple family (application)

EP 16156711 A 20160222; JP 2015034410 A 20150224