

Title (en)
Engine control device and engine control method

Title (de)
Vorrichtung und Verfahren zur Motorsteuerung

Title (fr)
Dispositif de commande de moteur et procédé de commande de moteur

Publication
EP 2610467 A2 20130703 (EN)

Application
EP 12199415 A 20121227

Priority
JP 2011288662 A 20111228

Abstract (en)
An engine of a vehicle is provided with an engine control device including an idle speed control (ISC) device provided for an intake bypass passage connecting an upper side and a lower side of a throttle valve installed in an intake passage so as to control an idle speed of the engine by adjusting an amount of air flowing through the intake bypass passage at a time of idling of the engine. The engine control device includes: a throttle opening degree sensor disposed in the intake passage and configured to detect a degree of opening of the throttle valve; an intake pressure sensor disposed in the intake passage and configured to detect an intake negative pressure at the lower side of the throttle valve; and a control unit configured to control an output of the engine. The control unit is configured to perform an engine output suppression control of suppressing the output of the engine after determining that an ISC valve of the ISC device is abnormal in a case where the degree of opening of the throttle valve detected by the throttle opening degree sensor is within a predetermined range and when the intake negative pressure detected by the intake pressure sensor is low compared with a threshold value.

IPC 8 full level
F02D 31/00 (2006.01); **F02D 41/22** (2006.01); **F02D 41/24** (2006.01); **F02P 9/00** (2006.01)

CPC (source: EP)
F02D 31/005 (2013.01); **F02D 41/08** (2013.01); **F02D 41/221** (2013.01); **F02D 41/2441** (2013.01); **F02D 41/2474** (2013.01); **F02P 9/005** (2013.01); **F02D 11/106** (2013.01); **F02D 41/2438** (2013.01); **F02D 2200/0406** (2013.01)

Citation (applicant)
• JP S6011648 A 19850121 - TOYOTA MOTOR CO LTD
• JP H0886266 A 19960402 - TOYOTA MOTOR CORP

Cited by
CN112780420A

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 2610467 A2 20130703; EP 2610467 A3 20141029; EP 2610467 B1 20170222

DOCDB simple family (application)
EP 12199415 A 20121227