

Title (en)

Controller of an internal combustion engine for synchronizing the engine during the engine shutdown

Title (de)

Brennkraftmaschinesteuerung zur Synchronisation der Maschine während der Abschaltung der Maschine

Title (fr)

Contrôleur d'un moteur à combustion interne pour synchroniser le moteur durant l'arrêt du moteur

Publication

**EP 2241739 B1 20191225 (EN)**

Application

**EP 10159232 A 20100407**

Priority

JP 2009092759 A 20090407

Abstract (en)

[origin: EP2241739A2] An ECU includes a backup RAM which stores a learning value of a loss torque characteristic of an engine. The learning value is updated based on the loss torque characteristic which is computed based on an actual engine rotation behavior. The ECU includes a first learning portion (S109) for updating the learning value based on the learning value stored in the memory (Tloss) and a presently computed loss torque characteristic (Tg), and a second learning portion (S112) for updating the learning value based on the presently computed loss torque characteristic (Tlossg) without using the learning value stored in the memory. A switching portion (S107) switches between the first learning portion and the second learning portion in order to update the learning value (Tloss).

IPC 8 full level

**F02D 41/04** (2006.01); **F02D 41/14** (2006.01); **F02D 41/24** (2006.01); **F02D 41/00** (2006.01); **F02N 19/00** (2010.01)

CPC (source: EP)

**F02D 41/042** (2013.01); **F02D 41/1497** (2013.01); **F02D 41/2451** (2013.01); **F02D 41/248** (2013.01); **F02D 2041/0095** (2013.01); **F02D 2200/1006** (2013.01); **F02N 19/005** (2013.01); **F02N 2019/008** (2013.01)

Cited by

CN113217205A; CN103511102A; CN108227482A; DE102011090095A1; CN103184944A; DE102011090095B4

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**EP 2241739 A2 20101020**; **EP 2241739 A3 20180704**; **EP 2241739 B1 20191225**; JP 2010242633 A 20101028; JP 5461049 B2 20140402

DOCDB simple family (application)

**EP 10159232 A 20100407**; JP 2009092759 A 20090407