Title (en)

Controller of a combustion engine for synchronizing the engine during the shutdown

Title (de)

Brennkraftmaschinesteuerung für die Synchronisation des Motors während Motorstopp

Title (fr)

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

Publication

EP 2241739 A3 20180704 (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)

Citation (search report)
- [AD] DE 102008000384 A1 20080925 - DENSO CORP [JP]
- [A] US 7054738 B1 20060530 - STOTSKY ALEXANDER A [SE]
- [A] DE 102006005701 A1 20070809 - BOSCH GMBH ROBERT [DE]
- [A] DE 10043689 A1 20020314 - BOSCH GMBH ROBERT [DE]
- [A] DE 102008000547 A1 20080925 - DENSO CORP [JP]
- [A] EP 0904972 A2 19990331 - FORD GLOBAL TECH INC [US]

Cited by

CN108227482A; CN113217205A; CN103511102A; 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

Designated extension state (EPC)

AL BA ME RS

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