

Title (en)

METHOD AND DEVICE FOR THE DETECTION AND PREDICTION OF A STARTING TORQUE OR STARTING TORQUE COURSE REQUIRED FOR STARTING AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERMITTlung UND PRÄDIKTION EINES ZUM STARTEN EINES VERBRENNUNGSMOTORS NOTWENDIGEN STARTMOMENTS ODER STARTMOMENTENVERLAUFS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTERMINATION ET DE PRÉDICTION D'UN COUPLE DE DÉMARRAGE OU DE L'ALLURE D'UNE COURBE DE COUPLE DE DÉMARRAGE NÉCESSAIRE POUR DÉMARRER UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2235358 A1 20101006 (DE)

Application

EP 08864526 A 20081111

Priority

- EP 2008065313 W 20081111
- DE 102007061730 A 20071220

Abstract (en)

[origin: WO2009080406A1] The invention relates to a method and a device for the determination, detection, and prediction of at least one starting torque or starting torque course required for starting an internal combustion engine for a vehicle, particularly a hybrid vehicle, having at least one internal combustion engine and at least one further motor. The core of the invention is that the determination and the detection of the starting torque or starting torque course is carried out during the operation of the vehicle. The invention further relates to a method for operating at least one motor in a hybrid vehicle.

IPC 8 full level

F02N 11/08 (2006.01); **F02N 99/00** (2010.01); **B60L 50/16** (2019.01); **B60W 20/00** (2006.01)

CPC (source: EP US)

B60K 6/48 (2013.01 - EP US); **B60W 10/06** (2013.01 - US); **B60W 10/08** (2013.01 - US); **B60W 20/00** (2013.01 - EP US);
B60W 30/18 (2013.01 - US); **F02N 11/0814** (2013.01 - EP US); **B60K 2006/268** (2013.01 - EP); **F02N 2300/104** (2013.01 - EP US);
Y02T 10/40 (2013.01 - EP US); **Y02T 10/62** (2013.01 - EP US)

Citation (search report)

See references of WO 2009080406A1

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007061730 A1 20090625; CN 101903643 A 20101201; EP 2235358 A1 20101006; JP 2011508694 A 20110317;
KR 20100099192 A 20100910; US 2011040433 A1 20110217; US 8594913 B2 20131126; WO 2009080406 A1 20090702

DOCDB simple family (application)

DE 102007061730 A 20071220; CN 200880121441 A 20081111; EP 08864526 A 20081111; EP 2008065313 W 20081111;
JP 2010538522 A 20081111; KR 20107013571 A 20081111; US 80884808 A 20081111