

Title (en)
METHOD FOR CONTROLLING AN ELECTRIC POWER TRAIN OPTIMISING THE LOW SPEED USE PHASE

Title (de)
VERFAHREN ZUR STEUERUNG EINES ELEKTROANTRIEBS ZUR OPTIMIERUNG DER NIEDRIGGESCHWINDIGKEITS-
VERWENDUNGSPHASE

Title (fr)
PROCEDE DE COMMANDE D'UN GROUPE MOTOPROPULSEUR ELECTRIQUE OPTIMISANT LA PHASE D'UTILISATION A FAIBLE VITESSE

Publication
EP 3016816 A1 20160511 (FR)

Application
EP 14750535 A 20140624

Priority
• FR 1356380 A 20130701
• FR 2014051575 W 20140624

Abstract (en)
[origin: WO2015001223A1] The invention concerns a method for controlling an electric power train (10) of a motor vehicle, comprising an electric engine (11) controlled by a power electronics circuit (15) according to a torque value, which involves imposing a reduction in the torque value in the event of the thermal limits of the power electronics circuit being exceeded. The invention involves defining first torque and engine speed thresholds delimiting an operating range at high torque and low speed respectively, in which the power electronics system (15) is likely to heat up, causing said thermal limits to be exceeded; detecting when said operating range is entered; activating a gradual reduction in said torque value in a linear manner, after detecting that an estimation of the temperature of said power electronics circuit is approaching said thermal limits.

IPC 8 full level
B60L 3/00 (2006.01); **B60L 3/04** (2006.01); **B60L 3/12** (2006.01); **B60L 15/20** (2006.01)

CPC (source: EP)
B60L 3/003 (2013.01); **B60L 3/04** (2013.01); **B60L 3/12** (2013.01); **B60L 15/2063** (2013.01); **B60L 15/2081** (2013.01); **B60L 2210/40** (2013.01); **B60L 2240/423** (2013.01); **B60L 2240/525** (2013.01); **B60L 2250/26** (2013.01); **B60L 2260/44** (2013.01); **Y02T 10/64** (2013.01); **Y02T 10/72** (2013.01)

Citation (search report)
See references of WO 2015001223A1

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)
FR 3007699 A1 20150102; FR 3007699 B1 20180629; EP 3016816 A1 20160511; WO 2015001223 A1 20150108

DOCDB simple family (application)
FR 1356380 A 20130701; EP 14750535 A 20140624; FR 2014051575 W 20140624