

Title (en)  
METHOD FOR CONTROLLING THE RECUPERATION TORQUE OF AN ELECTRIC MACHINE OF A VEHICLE IN AN OPEN-LOOP OR CLOSED-LOOP MANNER IN ACCORDANCE WITH NEED, SAID ELECTRIC MACHINE OPERATING IN GENERATOR MODE

Title (de)  
VERFAHREN ZUR BEDARFSGERECHTEN STEUERUNG BZW. REGELUNG DES REKUPERATIONSMOMENTS EINER IM GENERATORBETRIEB ARBEITENDEN ELEKTRISCHEN MASCHINE EINES FAHRZEUGS

Title (fr)  
PROCÉDÉ PERMETTANT LA COMMANDE OU LA RÉGULATION EN FONCTION DES BESOINS DU COUPLE DE RÉCUPÉRATION D'UN MOTEUR ÉLECTRIQUE, FONCTIONNANT EN MODE GÉNÉRATEUR, D'UN VÉHICULE

Publication  
**EP 3010773 A1 20160427 (DE)**

Application  
**EP 14725691 A 20140521**

Priority  
• DE 102013211340 A 20130618  
• EP 2014060427 W 20140521

Abstract (en)  
[origin: WO2014202317A1] The invention relates to a method for controlling the recuperation torque, which is produced by an electric machine of a vehicle operating in generator mode in the overrun operation mode of the vehicle, in an open-loop or closed-loop manner in accordance with need, comprising the following steps: - detecting, on the basis of a specified algorithm, an imminent situation in which the speed of a vehicle should be reduced to a speed lower than the current speed, - outputting a recommendation directed at the driver to release the accelerator when the expected occurrence of such a situation has been detected, and, - if the driver has released the accelerator, - controlling the recuperation torque in an open-loop or closed-loop manner in such a way that the vehicle achieves the lower speed without actuation of the service brake when the situation occurs, or, if this cannot be achieved solely via the recuperation torque, - maximising the vehicle deceleration that can be produced by means of recuperation.

IPC 8 full level  
**B60W 20/00** (2016.01); **B60W 30/18** (2012.01); **B60W 50/14** (2012.01)

CPC (source: EP US)  
**B60L 7/18** (2013.01 - EP US); **B60W 10/08** (2013.01 - EP US); **B60W 10/184** (2013.01 - EP US); **B60W 20/14** (2016.01 - EP US); **B60W 30/143** (2013.01 - EP US); **B60W 30/16** (2013.01 - EP US); **B60W 30/18127** (2013.01 - EP US); **B60W 50/14** (2013.01 - EP US); **B60L 2240/12** (2013.01 - EP US); **B60L 2240/622** (2013.01 - EP US); **B60L 2240/642** (2013.01 - EP US); **B60L 2250/26** (2013.01 - EP US); **B60W 2420/403** (2013.01 - EP US); **B60W 2520/10** (2013.01 - EP US); **B60W 2540/10** (2013.01 - EP US); **B60W 2552/15** (2020.02 - EP US); **B60W 2552/20** (2020.02 - EP US); **B60W 2552/30** (2020.02 - EP US); **B60W 2554/801** (2020.02 - EP US); **B60W 2554/804** (2020.02 - EP US); **B60W 2555/60** (2020.02 - EP US); **B60W 2556/50** (2020.02 - EP US); **B60W 2710/083** (2013.01 - EP US); **B60W 2720/10** (2013.01 - EP US); **B60W 2720/106** (2013.01 - EP US); **B60Y 2300/89** (2013.01 - EP US); **Y02T 10/72** (2013.01 - EP); **Y02T 90/16** (2013.01 - EP)

Citation (search report)  
See references of WO 2014202317A1

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)  
**DE 102013211340 A1 20141218**; CN 105121245 A 20151202; EP 3010773 A1 20160427; US 2016101698 A1 20160414; WO 2014202317 A1 20141224

DOCDB simple family (application)  
**DE 102013211340 A 20130618**; CN 201480022368 A 20140521; EP 14725691 A 20140521; EP 2014060427 W 20140521; US 201514972396 A 20151217