

Title (en)

METHOD FOR BRAKING A VEHICLE WITH A HYBRID POWERTRAIN BY CONTROLLED USE OF AN ELECTRIC MACHINE

Title (de)

VERFAHREN ZUM BREMSEN EINES FAHRZEUGS MIT EINEM HYBRIDANTRIEB DURCH KONTROLLIERTE VERWENDUNG EINER ELEKTRISCHEN MASCHINE

Title (fr)

PROCÉDÉ DE FREINAGE D'UN VÉHICULE POURVU D'UN GROUPE MOTOPROPULSEUR HYBRIDE GRÂCE À UNE UTILISATION CONTRÔLÉE D'UNE MACHINE ÉLECTRIQUE

Publication

EP 3074255 A4 20171108 (EN)

Application

EP 14866698 A 20141126

Priority

- SE 1351412 A 20131128
- SE 2014051406 W 20141126

Abstract (en)

[origin: WO2015080656A1] The invention relates to a method to brake a vehicle (1) with a hybrid powertrain (2), comprising a brake pedal (29), a combustion engine (3), an electric machine (4) and a gearbox (6) with an input shaft (10) and an output shaft (18), wherein the combustion engine (3) and the electric machine (4) are connected to the input shaft (10). The method comprises the steps a) to switch the electric machine (4) to generator operation, when the brake pedal (29) is manoeuvred by the vehicle's driver from a first position (D1) towards a second position (D2); b) to control the electric machine (4) with a predetermined torque limitation to avoid that a pulse and a Shock wave arise in the hybrid powertrain (2); c) to control the electric machine (4) without torque limitation towards a torque (T3), requested by the driver and corresponding to a second position (D2) of the brake pedal (29), and d) to control the electric machine (4) from a state without torque limitation to a state with a predetermined torque limitation, before the torque (T3), corresponding to the second position (D2) of the brake pedal (29), is reached. The invention also relates to a hybrid powertrain (2) and a vehicle, as well as a computer program (P) and a computer program product.

IPC 8 full level

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CPC (source: EP SE)

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Citation (search report)

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- [XI] DATABASE WPI Week 201257, Derwent World Patents Index; AN 2012-L14426, XP002773573
- See references of WO 2015080656A1

Designated contracting state (EPC)

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