

Title (en)

METHOD FOR HEATING A CATALYTIC CONVERTER IN A HYBRID ENGINE DEVICE

Title (de)

VERFAHREN ZUM AUFHEIZEN EINES KATALYSATORS IN EINER HYBRIDMOTORVORRICHTUNG

Title (fr)

PROCEDE DE CHAUFFAGE D'UN CATALYSEUR DANS UN DISPOSITIF DE MOTORISATION HYBRIDE

Publication

EP 3233599 A1 20171025 (FR)

Application

EP 15817971 A 20151207

Priority

- FR 1462504 A 20141216
- FR 2015053352 W 20151207

Abstract (en)

[origin: WO2016097526A1] The invention relates to a method for heating a catalytic converter (6) mounted on the exhaust of a heat engine (2) capable of driving at least one drive wheel of a motor vehicle, said engine being associated with a reversible electric machine (15) which can operate in a generating mode or in an engine mode in which said electric machine (15) supplies part of the drive torque (C) of the vehicle, comprising: a step of starting (100) the vehicle in which a drive torque (C) of the vehicle is required; and a step of heating (600) the catalytic converter (6) until a starting temperature (θ_{amo}) of minimum effectiveness of the catalytic converter; CHARACTERISED IN THAT it also includes a step (400) of preheating the catalytic converter (6), in which the drive torque (C) of the vehicle is produced by the electric machine (15) operating in engine mode, the heat engine (2) being rotated, in the non-started state and with no fuel injection, by the electric machine (15).

IPC 8 full level

B60W 10/06 (2006.01); **B60W 10/08** (2006.01); **B60W 20/16** (2016.01); **B60W 30/192** (2012.01)

CPC (source: EP)

B60W 10/06 (2013.01); **B60W 10/08** (2013.01); **B60W 20/16** (2016.01); **B60W 30/192** (2013.01); **F02D 41/0002** (2013.01); **F02D 41/0255** (2013.01); **F02D 41/064** (2013.01); **F02D 41/068** (2013.01); **F02D 41/401** (2013.01); **B60W 2510/068** (2013.01); **B60W 2710/0605** (2013.01); **B60W 2710/0694** (2013.01); **B60Y 2300/474** (2013.01); **F02D 41/405** (2013.01); **F02D 2200/0802** (2013.01); **Y02T 10/12** (2013.01); **Y02T 10/40** (2013.01); **Y02T 10/62** (2013.01)

Citation (search report)

See references of WO 2016097526A1

Citation (examination)

US 2011139136 A1 20110616 - GUO LINSONG [US], et al

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 3029972 A1 20160617; **FR 3029972 B1 20180105**; EP 3233599 A1 20171025; WO 2016097526 A1 20160623

DOCDB simple family (application)

FR 1462504 A 20141216; EP 15817971 A 20151207; FR 2015053352 W 20151207