

Title (en)

DETERMINING OPERATING STATES OF AN INTERNAL COMBUSTION ENGINE BY MEANS OF A GENERATOR REGULATOR OF AN ELECTRIC MACHINE WHICH IS COUPLED TO THE INTERNAL COMBUSTION ENGINE

Title (de)

ERMITTELN VON BETRIEBSZUSTÄNDEN EINER BRENNKRAFTMASCHINE DURCH EINEN GENERATORREGLER EINER MIT DER BRENNKRAFTMASCHINE GEKOPPELTEN ELEKTRISCHEN MASCHINE

Title (fr)

DÉTERMINATION DES ÉTATS DE FONCTIONNEMENT D'UN MOTEUR À COMBUSTION INTERNE PAR UN RÉGULATEUR D'ALTERNATEUR D'UNE MACHINE ÉLECTRIQUE COUPLÉE AU MOTEUR À COMBUSTION INTERNE

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Application

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Abstract (en)

[origin: WO2018041586A1] The invention relates to a method for determining a coupling state (128a - 138a) of a drive train (2) of a motor vehicle (1) coupled to a clutch (4) on an internal combustion engine (112). Said method comprises the following steps: detecting the temporal course of a rotational speed (n) correlated to the rotational speed (nBKM) of the internal combustion engine (112); detecting at least one speed pattern (128 -138), produced by the internal combustion engine (112), from the temporal course of the rotational speed (nBKM), that has an oscillation (O) with at least one amplitude (A) superimposed over the temporal course of the mean value (DMD) of the rotational speed (nBKM), then it is closed in a coupling state (128a - 138a) when within a time interval (Δt), a characteristic change of the rotational speed (nBKM) and a characteristic behavior of the amplitudes (A) is detected. Furthermore, the invention relates to a corresponding computing unit (118) which is configured to carry out the method, to an electric machine comprising the computing unit and to a corresponding computer program for carrying out said method.

IPC 8 full level

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