

Title (en)

METHOD FOR CONTROLLING A HYBRID DRIVE TRAIN OF A MOTOR VEHICLE

Title (de)

VERFAHREN ZUR STEUERUNG EINES HYBRIDANTRIEBSSTRANGS EINES KRAFTFAHRZEUGS

Title (fr)

PROCÉDÉ DE COMMANDE D'UNE CHAÎNE CINÉMATIQUE HYBRIDE D'UN VÉHICULE AUTOMOBILE

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Application

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Abstract (en)

[origin: WO2012152490A1] The invention relates to a method for controlling a hybrid drive train of a motor vehicle. The drive train has an internal combustion engine (VM) with a driveshaft (2), a semi-automatic geared transmission (G) with at least one input shaft (GE), and an electric machine (EM) which can be operated as a motor and as a generator and which comprises a rotor (3), said rotor being connectable to the driveshaft (2) of the internal combustion engine (VM) via an automated separating clutch (K1) and being connected to the input shaft (GE) of the geared transmission (G). The internal combustion engine (VM) is activated close in time to an imminent gear shift of the geared transmission (G) after a transition into the internal combustion or hybrid drive operation is requested during an electric drive operation. The aim of the invention is to take into account the general time conditions during the activation of the internal combustion engine. According to the invention this is achieved in that the activation duration of the internal combustion engine (?tVM\_ZS), the period of time until the beginning (?tS\_0) of the gear shift, and the possible maximal duration of an ongoing electric drive operation (?tEF\_max) are determined, and a decision is carried out dependent on said time durations (?tVM\_ZS, ?tS\_0, ?tEF\_max) as to whether the internal combustion engine (VM) is activated before, during, or after the intended gear shift.

IPC 8 full level

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