

Title (en)

METHOD AND VEHICLE ELECTRIC SYSTEM FOR A MOTOR VEHICLE WITH A PRE-EMPTIVE TEMPORARY TORQUE RESTRICTION OF THE INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND BORDNETZ EINES KRAFTFAHRZEUGS MIT VORAUSSCHAUENDEM TEMPORÄREN MOMENTENVORHALT DES VERBRENNUNGSMOTORS

Title (fr)

PROCÉDÉ ET RÉSEAU DE BORD POUR UN VÉHICULE À MOTEUR À RESTRICTION DE COUPLE TEMPORAIRE ANTICIPÉE DU MOTEUR À COMBUSTION INTERNE

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Application

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Abstract (en)

[origin: WO2008064701A1] The invention relates in particular to a method for reducing the energy consumption of a motor vehicle comprising an internal combustion engine and at least one vehicle electric system, to which at least one electrical consumer is connected. To achieve a high performance vehicle electric system with a reduced energy consumption, the internal combustion engine is operated in a first operating mode with a first injection quantity and a first ignition time. In a second operating mode the internal combustion engine is operated with a second injection quantity that is higher than the first and with a second ignition time. The second ignition time when used with the second injection quantity is not as favourable to the performance of the internal combustion engine as the first ignition time. In a third operating mode, the internal combustion engine is operated with the second injection quantity and predominantly the first ignition time so that the performance of the internal combustion engine is higher in the third operating mode than in the second operating mode. A device for detecting the driving situation, which is provided in the vehicle, recognises an imminent specific driving situation (304) on the basis of the previous behaviour of the driver (102, 104, 105, 107, 108, 110, 111, 201, 205, 206, 210, 212, 213, 302, 303, 401, 403) when controlling the vehicle and/or the behaviour of the vehicle in advance and initiates a switch in operating modes of the internal combustion engine from the first operating mode to the second operating mode.

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