

Title (en)

HYBRID DRIVE TRAIN FOR A MOTOR VEHICLE AND METHOD FOR OPERATING THE HYBRID DRIVE TRAIN

Title (de)

HYBRIDANTRIEBSSTRANG FÜR EIN KRAFTFAHRZEUG UND VERFAHREN ZUM BETREIBEN DES HYBRIDANTRIEBSSTRANGS

Title (fr)

CHAÎNE CINÉMATIQUE HYBRIDE POUR VÉHICULE À MOTEUR ET PROCÉDÉ DE FONCTIONNEMENT DE CETTE CHAÎNE CINÉMATIQUE HYBRIDE

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Application

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Abstract (en)

[origin: WO2009150046A1] The invention relates to a hybrid drive train for a motor vehicle, comprising an internal combustion engine (1), at least two electric machines (9, 11), a multi-speed transmission (2) with a transmission input shaft (10) and a transmission output shaft (13), a transmission shift actuator (3), at least one electrical energy storage device (4) as well as a control system (5), power electronics and sensor technology (6, 7). The internal combustion engine (1) and the rotor of the first electric machine (9) are connected permanently or over a gear unit or a chain driving mechanism or a toothed belt driving mechanism jointly or individually with the transmission input shaft (10) of the multi-speed transmission (2). The transmission output shaft (13) of the multi-speed transmission is connected permanently or over a gear unit (14) or a chain drive or a toothed belt drive with at least one wheel or one differential (15) of a first vehicle axis, for which the rotor of the second electric machine (11) is connected either with at least one wheel or a differential (15) of the first vehicle axis or with at least one wheel or a differential of the second vehicle axis or over a gear unit or a chain drive or a toothed belt drive.

IPC 8 full level

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