

Title (en)

HYBRID DRIVE TRAIN FOR A HYBRID-DRIVE MOTOR VEHICLE

Title (de)

HYBRIDANTRIEBSSTRANG FÜR EIN HYBRIDGETRIEBENES KRAFTFAHRZEUG

Title (fr)

GROUPE MOTOPROPULSEUR HYBRIDE D'UN VÉHICULE AUTOMOBILE À PROPULSION HYBRIDE

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Application

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Abstract (en)

[origin: WO2018077902A1] The invention relates to a hybrid drive train for a hybrid-drive vehicle, comprising a transmission (1), more particularly a manual transmission, which can select different gear ratios by means of selector elements and which can be drivingly connected to an internal combustion engine (7) by means of an internal combustion engine-shaft (3), to an electrical machine (11) by means of an electrical-machine shaft (9), and to at least one vehicle axle (VA) by means of an output shaft (13). The internal combustion engine-shaft (3) and a power take-off shaft (17) that is drivingly connected to the output shaft (13) can be connected by means of radial gear sets, said sets being selectable by means of the selector elements and each set forming a gear plane (V1 to V4, E1, E2). At least one hybrid gear plane (E1, E2) of said gear planes can be drivingly connected, in addition, to the electrical-machine shaft (9) and a further gear plane (V3, V4), which is not linked to the electrical-machine shaft (9), directly adjoins the hybrid gear plane (E1, E2). According to the invention, the hybrid gear plane (E1, E2) and the further gear plane (V3, V4) are components of a sub-transmission (T1, T2) comprising selector elements (K1, K2; SE-E, SE-F, SE-D) which are used to decouple, i.e. deactivate, the sub-transmission (T1, T2) from the drive train during the operation of the transmission by said drive train.

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Citation (search report)

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