

## Title (en)

HYBRID DRIVETRAIN FOR A HYBRID-DRIVEN VEHICLE AND METHOD FOR SAME

## Title (de)

HYBRIDANTRIEBSSTRANG FÜR EIN HYBRIDGETRIEBENES FAHRZEUG UND VERFAHREN DAFÜR

## Title (fr)

CHAÎNE CINÉMATIQUE HYBRIDE POUR UN VÉHICULE HYBRIDE ET PROCÉDÉ ASSOCIÉ

## Publication

**EP 3762269 A1 20210113 (DE)**

## Application

**EP 19708405 A 20190214**

## Priority

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- EP 2019053645 W 20190214

## Abstract (en)

[origin: WO2019170382A1] The invention relates to a hybrid drivetrain for a hybrid-driven vehicle, having an internal combustion engine (1) which transmits drive to vehicle wheels via a load path, in which a two-mass flywheel (11), which has flywheel masses (9, 13) which are coupled elastically by means of spring assemblies, is connected, and at least one electric machine (5) which can be coupled in a drive-transmitting fashion into the load path via an automatic transmission (3), wherein in the automatic transmission (3) a drive torque (MBKM) from the internal combustion engine and a drive torque (MEM) from the electric machine can be added, with addition of power, to form an overall drive torque (Mges) with which the vehicle wheels can be driven, and wherein on the basis of driving operation parameters and/or a driver's request an electronic control unit (19) actuates an engine control unit (21) of the internal combustion engine (1) and/or power electronics (20) of the electric machine (5) with setpoint torque specifications, and wherein the drivetrain has an evaluation unit (27) which detects the presence of occurrences of two-mass flywheel clamping which causes an increased irregularity of the rotation and in which the spring assemblies of the two-mass flywheel (11) are clamped in the compressed state, and when two-mass flywheel clamping occurs the evaluation unit (27) generates an engine intervention signal (SM) with which the engine control unit (21) actuates the internal combustion engine (1) with a torque surge in order to release the two-mass flywheel clamping. According to the invention, the evaluation unit (27) is assigned a compensation unit (35) which generates, on the basis of the torque surge, a compensation signal (SA) with which the electric machine (5) can be actuated with a compensation torque (MA) which compensates torque surge.

## IPC 8 full level

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See references of WO 2019170382A1

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