

Title (en)

METHOD FOR DESIGNING AND DIMENSIONING A NEW PART OF A MOTOR VEHICLE

Title (de)

VERFAHREN ZUR AUSLEGUNG UND DIMENSIONIERUNG EINES NEUTEILS EINES KRAFTFAHRZEUGS

Title (fr)

PROCÉDÉ DE CONCEPTION ET DE DIMENSIONNEMENT D'UN COMPOSANT NEUF D'UN VÉHICULE AUTOMOBILE

Publication

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Application

**EP 16805984 A 20161111**

Priority

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Abstract (en)

[origin: WO2017084982A1] The invention relates to a method (1) for designing and dimensioning a new part (2) of a motor vehicle (3). All of the motor vehicles (5) of a motor vehicle fleet (6) have a reference part (4) with an identical structure, and the reference parts (4) and the new part (2) are of the same component type. Load spectra and damage levels of the reference parts of all the motor vehicles (5) of the motor vehicle fleet (6) are continuously ascertained on the basis of sensor and vehicle state information available in each motor vehicle (5) using specified algorithms. The load spectra and damage levels are stored in a central database (9). A reference stress on a component of the component type is ascertained regularly on the basis of the load spectra and damage levels provided in the central database (9) at a specific point in time for the reference parts (4) of all of the motor vehicles (5) of the vehicle fleet (6). The new part (2) is designed and dimensioned while taking into consideration the reference stress. The reference stress is less than the maximally occurring stress on all of the reference parts (4).

IPC 8 full level

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CPC (source: EP US)

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See references of WO 2017084982A1

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