Title (en)

METHOD AND DEVICE FOR DETECTING UNDESIRED DRIVE TRAIN REACTIONS OF A MOTOR VEHICLE HAVING AT LEAST ONE DRIVE UNIT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERKENNUNG VON UNGEWOLLTEN TRIEBSTRANGREAKTIONEN EINES KRAFTFAHRZEUGES MIT WENIGSTENS EINEM ANTRIEBSAGGREGAT

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTECTION DE RÉACTIONS INTEMPESTIVES DE LA CHAÎNE CINÉMATIQUE D'UN VÉHICULE AUTOMOBILE ÉQUIPÉ D'AU MOINS UN GROUPE MOTOPROPULSEUR

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Application

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Abstract (en)

[origin: WO2011151094A1] The invention relates to a method for detecting undesired drive train reactions of a motor vehicle having at least one drive unit, in which method at least one input variable (MDes) of the motor vehicle and/or of the drive unit (1) is input into the drive train and at least one output variable (?EIM) is measured at the motor vehicle and/or the drive unit (1). In order to detect a fault situation at an early time, the at least one input variable (MDes) is fed to a dynamic model which at least partially models the drive train of the motor vehicle, wherein the dynamic model determines, on the basis of the at least one input variable (MDes), at least one model output variable (?EIMObs) which is compared with the at least one measured output variable (?EIM), wherein when there is a difference between the measured output variable (?EIM) and the model output variable (?EIMObs) it is inferred that an undesired drive train reaction has occurred.

IPC 8 full level

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CPC (source: EP US)

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