

Title (en)

DEVICE AND METHOD FOR CONTROLLING A PASSENGER PROTECTION SYSTEM OF A MOTOR VEHICLE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM STEuern EINES PERSONENSCHUTZSYSTEMS EINES FAHRZEUGS

Title (fr)

DISPOSITIF ET PROCEDE PERMETTANT DE COMMANDER UN SYSTEME DE PROTECTION DE PERSONNES D'UN VEHICULE

Publication

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Application

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Abstract (en)

[origin: WO2006125719A1] The invention relates to a device for controlling a passenger protection system of a motor vehicle. Said device comprises at least one structure-borne noise sensor (4) which is used to receive body vibrations and an evaluation device (2) which is used to evaluate the structure-borne noise signal (s1) which is delivered by the structure borne noise sensor (4), such that information about the impact object and/or the characteristics of the impact can be delivered. The evaluation device (2) is embodied in such a manner that the structure-borne noise signal (s1) can be analysed in relation to the frequencies contained therein, wherein the frequency spectrum contained in a signal section is distributed into a plurality of frequency ranges. The current signal energy is determined for each frequency range, and the signal energy of the frequency range is a standardised. Said device also comprises a passenger protection system (3), which can be actuated according to the information relating to the impact object and/or the characteristics of the impact. Said evaluation device (2) is also embodied such that during standardisation, the signal energy of each frequency range is established in relation to the signal energy of a specific reference frequency range, and the thus resulting ratio course is compared to predetermined threshold values.

IPC 8 full level

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