

Title (en)

METHOD AND DEVICE FOR NARROW-BAND NOISE SUPPRESSION IN A VEHICLE PASSENGER COMPARTMENT

Title (de)

VERFAHREN UND EINRICHTUNG ZUR SCHMALBAND-RAUSCHUNTERDRÜCKUNG IN EINEM FAHRZEUG-INNENRAUM

Title (fr)

PROCEDE ET DISPOSITIF D'ATTENUATION D'UN BRUIT A BANDE ETROITE DANS UN HABITACLE D'UN VEHICULE

Publication

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Application

EP 09740508 A 20090831

Priority

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Abstract (en)

[origin: WO2010136661A1] The invention relates to a method and a device for suppressing noise in the passenger compartment of a vehicle, which includes at least one transducer, a programmable computer, at least one acoustic sensor, the computer being configured such as to apply an electro-acoustic model of the passenger compartment to a correcting system model comprising a central corrector with fixed coefficients joined to a block of variable coefficients, comprising a Youla parameter in the form of a Youla block Q. The first phase comprises determining and calculating the electro-acoustic model and the correction control law for at least one predetermined noise frequency. In a second phase, in real time, the computer applies the correction control law to the electro-acoustic model in accordance with the common frequency of the noise to be suppressed.

IPC 8 full level

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Citation (examination)

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- EP 2043383 A1 20090401 - HARMAN BECKER AUTOMOTIVE SYS [DE]
- BEN AMARA F ET AL: "Adaptive sinusoidal disturbance rejection in linear discrete-time systems-part 1: Theory", JOURNAL OF DYNAMIC SYSTEMS, MEASUREMENT AND CONTROL, A S M E INTERNATIONAL, US, vol. 121, no. 4, 1 December 1999 (1999-12-01), pages 648 - 659, XP008119190, ISSN: 0022-0434, DOI: 10.1115/1.2802530

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