

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

**EP 2436003 B1 20181107 (FR)**

Application

**EP 09740508 A 20090831**

Priority

- FR 2009051647 W 20090831
- FR 0902585 A 20090528

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

**G10K 11/178** (2006.01)

CPC (source: BR EP KR US)

**G10K 11/178** (2013.01 - BR KR); **G10K 11/17817** (2017.12 - EP US); **G10K 11/17854** (2017.12 - EP US); **G10K 11/17875** (2017.12 - EP US); **G10K 2210/128** (2013.01 - BR EP KR US)

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

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**WO 2010136661 A1 20101202**; BR PI0925323 A2 20160419; BR PI0925323 B1 20191029; EP 2436003 A1 20120404; EP 2436003 B1 20181107; FR 2946203 A1 20101203; FR 2946203 B1 20160729; JP 2012528034 A 20121112; JP 5409900 B2 20140205; KR 101749951 B1 20170703; KR 20120044931 A 20120508; MX 2011012516 A 20120619; RU 2011152851 A 20130810; RU 2504025 C2 20140110; US 2012070013 A1 20120322; US 8682000 B2 20140325

DOCDB simple family (application)

**FR 2009051647 W 20090831**; BR PI0925323 A 20090831; EP 09740508 A 20090831; FR 0902585 A 20090528; JP 2012512413 A 20090831; KR 20117028413 A 20090831; MX 2011012516 A 20090831; RU 2011152851 A 20090831; US 200913322777 A 20090831