

Title (en)

Noise compensation device in a motor vehicle

Title (de)

Geräuschkompensationseinrichtung in einem Kraftfahrzeug

Title (fr)

Dispositif de compensation du bruit dans un véhicule automobile

Publication

EP 2352142 B1 20221019 (DE)

Application

EP 10014590 A 20101113

Priority

DE 102010006303 A 20100130

Abstract (en)

[origin: EP2352142A2] The device has a receiving device (10) detecting arising noise, and a signal generation unit (8) producing a signal based on the detected noise. A loudspeaker (7) produces discharge sound waves by using the signal, where the discharge sound waves are phase-shifted against sound waves of the arising noise. The loudspeaker is arranged in a vehicle interior such that the discharge sound waves are radiated into a region of a sleeping area (11). The receiving device and the loudspeaker are integrated into a microphone loudspeaker unit.

IPC 8 full level

G10K 11/178 (2006.01)

CPC (source: EP US)

G10K 11/1783 (2017.12 - EP US); **G10K 11/17861** (2017.12 - EP US); **G10K 11/17875** (2017.12 - EP US); **G10K 2210/1282** (2013.01 - EP)

Citation (examination)

KUO S M ET AL: "ACTIVE NOISE CONTROL: A TUTORIAL REVIEW", PROCEEDINGS OF THE IEEE, IEEE. NEW YORK, US, vol. 87, no. 6, 1 June 1999 (1999-06-01), pages 943 - 973, XP011044219, ISSN: 0018-9219, DOI: 10.1109/5.763310

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2352142 A2 20110803; EP 2352142 A3 20171108; EP 2352142 B1 20221019; BR PI1100576 A2 20130424; BR PI1100576 B1 20200218; CN 102142251 A 20110803; DE 102010006303 A1 20110804; RU 2011103160 A 20120810; RU 2472237 C2 20130110

DOCDB simple family (application)

EP 10014590 A 20101113; BR PI1100576 A 20110105; CN 201110031109 A 20110128; DE 102010006303 A 20100130; RU 2011103160 A 20110128