

Title (en)

Method and system for optimizing the speech intelligibility in a passenger compartment of a vehicle

Title (de)

Verfahren und System zur Optimierung der Sprachverständlichkeit in einem Passagierraum eines Fahrzeugs

Title (fr)

Procédé et système pour optimiser l'intelligibilité de la parole dans un compartiment passager d'un véhicule

Publication

EP 2814266 A1 20141217 (EN)

Application

EP 13171814 A 20130613

Priority

EP 13171814 A 20130613

Abstract (en)

A method for optimizing the speech intelligibility in a passenger compartment of a vehicle comprises establishing an acoustic room model of the passenger compartment, establishing background noise data inside and outside the compartment, establishing speaker data, determining a speech intelligibility factor on the basis of the acoustic room model, the background noise data and the speaker data at at least one first test point in the compartment; comparing the determined speech intelligibility factor with a predetermined speech intelligibility factor and modifying at least one of the speaker characteristics, the geometrical layout and acoustically active material of at least one installation in the compartment in case the predetermined speech intelligibility factor exceeds the determined speech intelligibility factor. Thereby, physical tests may be minimized and optimal speech intelligibility can be ensured.

IPC 8 full level

H04R 29/00 (2006.01); **E04B 1/99** (2006.01); **G10L 21/02** (2013.01)

CPC (source: EP)

H04R 29/007 (2013.01); **H04R 2227/009** (2013.01)

Citation (applicant)

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- US 2011147117 A1 20110623 - SEIBT CHRISTIAN [DE], et al
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Citation (search report)

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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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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