

Title (en)

DETERMINATION AND USE OF AUDITORY-SPACE-OPTIMIZED TRANSFER FUNCTIONS

Title (de)

ERMITTlung UND NUTZUNG HÖRRAUMOPTIMIERTER ÜBERTRAGUNGSFUNKTIONEN

Title (fr)

DÉTERMINATION ET UTILISATION DE FONCTIONS DE TRANSFERT ACOUSTIQUEMENT OPTIMISÉES

Publication

EP 3149969 A1 20170405 (DE)

Application

EP 15724972 A 20150515

Priority

- DE 102014210215 A 20140528
- EP 2015060792 W 20150515

Abstract (en)

[origin: WO2015180973A1] The invention relates to a device for determining transfer functions that are auditory-space-optimized for a listening space, which device is used for the auditory space-optimized post-processing of audio signals during spatial reproduction. Said device is designed to analyze space acoustics of the listening space (12) and, on the basis of the analysis of the space acoustics, to determine the auditory-space-optimized transfer functions for the listening space in which the spatial reproduction should occur by means of a binaural near-field sound transducer. The spatial reproduction of the audio signals by means of the binaural near-field sound transducer can then be emulated with the aid of known head-related transfer functions and with the aid of the auditory-space-optimized transfer functions, wherein a room to be synthesized can be emulated on the basis of the head-related transfer functions (HRTF) and wherein the listening space (12) can be emulated on the basis of the auditory-space-optimized transfer functions (TF).

IPC 8 full level

H04S 7/00 (2006.01)

CPC (source: CN EP KR US)

H04R 3/00 (2013.01 - CN); **H04S 7/301** (2013.01 - US); **H04S 7/304** (2013.01 - EP KR US); **H04S 7/306** (2013.01 - EP KR US);
H04R 2430/00 (2013.01 - CN); **H04S 2400/11** (2013.01 - EP KR US); **H04S 2420/01** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2015180973A1

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)

DE 102014210215 A1 20151203; CN 106576203 A 20170419; CN 106576203 B 20200207; EP 3149969 A1 20170405;
EP 3149969 B1 20190918; JP 2017522771 A 20170810; JP 6446068 B2 20181226; KR 102008771 B1 20190809; KR 20170013931 A 20170207;
US 10003906 B2 20180619; US 2017078820 A1 20170316; WO 2015180973 A1 20151203

DOCDB simple family (application)

DE 102014210215 A 20140528; CN 201580028158 A 20150515; EP 15724972 A 20150515; EP 2015060792 W 20150515;
JP 2016569427 A 20150515; KR 20167036695 A 20150515; US 201615362017 A 20161128