

Title (en)

Method and system for calculating synthetic head related transfer functions by means of virtual local sound field synthesis

Title (de)

Verfahren und System zur Berechnung synthetischer Außenohrübertragungsfunktionen durch virtuelle lokale Schallfeldsynthese

Title (fr)

Procédé et système de calcul de fonctions HRTF par synthèse locale virtuelle de champ sonore

Publication

EP 2503799 A1 20120926 (DE)

Application

EP 11159001 A 20110321

Priority

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Abstract (en)

The method involves providing a database of pairs of outer ear transfer functions for multiple source positions, where each pair of outer ear transfer function is determined for one of the source positions by a measurement. Each pair of outer ear transfer function is interpreted as a respective virtual loudspeaker (6) which is arranged at the source position. An independent claim is also included for a system for executing a method for calculating synthetic outer ear transfer functions.

Abstract (de)

Die vorliegende Erfindung bezieht sich auf ein Verfahren zur Berechnung synthetischer Außenohrübertragungsfunktionen mittels Schallfeldsynthese, wobei eine Datenbank mit Paaren von Außenohrübertragungsfunktionen für eine Vielzahl von ersten Quellenpositionen, wobei diese durch Messung ermittelt wurden, für ein Verfahren der Schallfeldsynthese verwendet wird, mit dem, mittels Interpretation der Paare von Außenohrübertragungsfunktionen als virtuelle Schallquellen an den ersten Quellenpositionen, synthetische Außenohrübertragungsfunktionen für beliebige virtuelle Schallquellen hinsichtlich räumlicher Positionierung und Richtcharakteristik berechnet werden können und mit diesen einen Datenbank von synthetischen Außenohrübertragungsfunktionen erstellt wird, auf die zur Schallerzeugung mit räumlicher Wahrnehmung zurückgegriffen werden kann.

IPC 8 full level

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Citation (applicant)

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Designated contracting state (EPC)

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