

Title (en)

Method and device for generating individually adjustable binaural audio signals

Title (de)

Verfahren und Vorrichtung zur Erzeugung individuell anpassbarer binauraler Audiosignale

Title (fr)

Procédé et dispositif de production de signaux audio binauraux individuellement adaptables

Publication

**EP 2357854 B1 20160309 (DE)**

Application

**EP 10197378 A 20101230**

Priority

DE 102010004171 A 20100107

Abstract (en)

[origin: EP2357854A1] The method (100) involves associating various actual head positions in head-related transfer functions, and generating audio signals by a binaural synthesis that refers to a binaural signal path. Running time difference estimation (110) is performed, and the head-related transfer functions utilization (120) is performed for the actual head positions depending of the head position data. A loading (130) of binaural audio signal is performed with time delay depending on running time difference that is estimated for the actual head position and depending on individual scale factors. An independent claim is also included for a device for performing a method for generating individual adjustable binaural audio signal.

IPC 8 full level

**H04S 7/00** (2006.01)

CPC (source: EP)

**H04S 7/304** (2013.01); **H04S 2420/01** (2013.01)

Cited by

CN113821190A; GB2601805A; US9848273B1; US10932082B2; US11553296B2; US10382880B2; US10547963B2; US10834519B2; US11272311B2; US11576004B2; US12028701B2

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 2357854 A1 20110817**; **EP 2357854 B1 20160309**; ES 2571044 T3 20160523; HR P20160279 T1 20160422; HU E028661 T2 20161228; PL 2357854 T3 20160930

DOCDB simple family (application)

**EP 10197378 A 20101230**; ES 10197378 T 20101230; HR P20160279 T 20160318; HU E10197378 A 20101230; PL 10197378 T 20101230