

Title (en)

METHOD FOR BINAURAL SYNTHESIS TAKING INTO ACCOUNT A SPATIAL EFFECT

Title (de)

VERFAHREN ZUR BINAURALEN SYNTHESE UNTER BERÜCKSICHTIGUNG EINES RAUMEFFEKTS

Title (fr)

PROCEDE DE SYNTHESE BINAURALE PRENANT EN COMPTE UN EFFET DE SALLE

Publication

EP 1999998 A1 20081210 (FR)

Application

EP 07731711 A 20070308

Priority

- FR 2007050895 W 20070308
- FR 0602694 A 20060328

Abstract (en)

[origin: WO2007110520A1] The invention concerns a method for three-dimensional spatialization of audio channels from a filter BRIR filter incorporating a theater effect. For a specific number N of samples corresponding to the size of the pulse response of the BRIR filter, it consists in breaking down (A) the BRIR filter into at least a set of delay and amplitude values associated with the times of arrival of reflections; extracting (B) on the number of B samples at least one spectral module of the BRIR filter; and constituting (C) from each successive delay, its amplitude and its spectral module associated with an elementary BRIR filter (BRIR_e) directly applied to the audio channels in the time, frequency or transformed domain. The invention is applicable to binaural or multichannel spatialization.

IPC 8 full level

H04S 1/00 (2006.01)

CPC (source: EP US)

H04S 1/005 (2013.01 - EP US); **H04S 3/004** (2013.01 - EP US); **H04S 2400/01** (2013.01 - EP US)

Citation (search report)

See references of WO 2007110520A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007110520 A1 20071004; EP 1999998 A1 20081210; EP 1999998 B1 20120711; ES 2390831 T3 20121116; FR 2899424 A1 20071005; JP 2009531906 A 20090903; JP 4850948 B2 20120111; US 2009103738 A1 20090423; US 8045718 B2 20111025

DOCDB simple family (application)

FR 2007050895 W 20070308; EP 07731711 A 20070308; ES 07731711 T 20070308; FR 0602694 A 20060328; JP 2009502160 A 20070308; US 22569107 A 20070308