

Title (en)

METHOD AND DEVICE FOR EFFICIENT BINAURAL SOUND SPATIALIZATION IN THE TRANSFORMED DOMAIN

Title (de)

VERFAHREN UND EINRICHTUNG ZUR EFFIZIENTEN BINAURALEN RAUMKLANGERZEUGUNG IM TRANSFORMIERTEN BEREICH

Title (fr)

PROCEDE ET DISPOSITIF DE SPATIALISATION SONORE BINAURALE EFFICACE DANS LE DOMAINE TRANSFORME

Publication

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Application

**EP 07731710 A 20070308**

Priority

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Abstract (en)

[origin: WO2007110519A2] The invention concerns a method and a system for sound spatialization of a first set of not less than one of the audio channels encoded on of a number of frequency subbands (SBk) and decoded in a transformed domain (Fl, C, Fr, Sr, Sl, lfe) into a second set of not less than two (Bl, Br) sound channels in the time domain, from modelling filters converted into a gain and a delay applicable in the transformed domain involving: filtering (A) through equalization, subband delay of the signal by applying at least one gain and one delay to generate from each of said encoded channels an equalized and delayed component; adding (B) a subset of equalized and delayed signals to create a number of filtered signals corresponding to not less than two; synthesizing (C) each of said filtered signals to obtain the second set of not less than two reproduction sound channels (Bl, Br) in the time domain.

IPC 8 full level

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