Title (en)

PROCESSING IN SUB-BANDS OF AN ACTUAL AMBISONIC CONTENT FOR IMPROVED DECODING

Title (de)

VERARBEITUNG IN SUBBÄNDERN EINES AKTUELLEN AMBISONIC-INHALTS ZUR VERBESSERTEN DEKODIERUNG

Title (fr)

TRAITEMENT EN SOUS-BANDES D'UN CONTENU AMBISONIQUE RÉEL POUR UN DÉCODAGE PERFECTIONNÉ

Abstract (en)

[origin: WO2018115666A1] The invention relates to a method implemented by computer means, for processing an ambisonic content comprising a plurality of ambisonic components of a plurality of orders defining a succession of ambisonic channels, in each of which an ambisonic component is represented, the method comprising: - frequency filtering of the ambisonic components in a plurality of frequency bands, - compiling an ambisonic decoding matrix (B), - processing the ambisonic decoding matrix (B) in order to extract, by matrix dimension reduction, a plurality of ambisonic decoding sub-matrices (B1, B2) each associated with an ambisonic order and a frequency band selected for this ambisonic order, - respective applications of the decoding sub-matrices to the ambisonic components in each selected frequency band, and a reconstruction, band by band, of the results of said respective applications, in order to deliver a plurality of decoded signals, each associated with a sound source.