Title (en)

IMPROVED STEREO PARAMETRIC ENCODING/DECODING FOR CHANNELS IN PHASE OPPOSITION

Title (de)

VERBESSERTE STEREOPARAMETRISCHE KODIERUNG/DEKODIERUNG FÜR GEGENPHASIGE KANÄLE

Title (fr)

CODAGE/DECODAGE PARAMÉTRIQUE STÉRÉO AMÉLIORÉ POUR LES CANAUX EN OPPOSITION DE PHASE

Publication

EP 2656342 A1 20131030 (FR)

Application

EP 11785726 A 20111018

Priority

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Abstract (en)

[origin: WO2012052676A1] The invention relates to a method for the parametric encoding of a stereo digital-audio signal, comprising a step of encoding (312) a mono signal (M) produced by downmixing (307) applied to the stereo signal and encoding spatialisation information (315, 316) of the stereo signal. The downmixing process comprises the steps of determining (E400), for a predetermined set of frequency sub-bands, a phase difference (ICPD[j]) between two stereo channels (L, R); obtaining (E401) an intermediate channel (R'[j], L'[j]) by rotating a first predetermined channel (R[j], L[j]) of the stereo signal through an angle obtained by reducing said phase difference; determining the phase of the mono signal (E402 to 404) from the phase of the signal that is the sum of the intermediate channel and the second stereo signal (? L + R'), (? L' + R) and from a phase difference (a'[j]) between, on the one hand, the signal that is the sum of the intermediate channel and the second channel (L+R', L'+R) and, on the other hand, the second channel of the stereo signal (L, R). The invention also relates to the corresponding decoding method, and to the encoder and decoder implementing said respective methods.

IPC 8 full level

G10L 19/00 (2013.01); **G10L 19/008** (2013.01)

CPC (source: EP KR US)

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Citation (search report)

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DOCDB simple family (publication)

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