

Title (en)

Encoding and decoding of multi-channel audio signals based on a main and side signal representation

Title (de)

Kodierung und Dekodierung von Mehrkanaltonsignalen basierend auf einer Haupt- und Nebensignal Darstellung

Title (fr)

Encodage et décodage de signaux audio multicanaux basés sur une représentation d'un signal principal et latéral

Publication

EP 1845519 A3 20071107 (EN)

Application

EP 07109801 A 20041215

Priority

- EP 04820553 A 20041215
- SE 0303501 A 20031219
- SE 0400417 A 20040220

Abstract (en)

[origin: EP1845519A2] A method of encoding multi-channel audio signals comprises generating of a first output signal (x' mono), being encoding (38) parameters representing a main signal (x mono). The main signal (x mono) is a first linear combination (34) of signals (16A,16B) of at least a first and a second channel. The method further comprises generating (30) of a second output signal (p side), being encoding parameters representing a side signal (x side). The side signal (x side) is a second linear combination (36) of signals (16A,16B) of at least the first and the second channel within an encoding frame. The method is characterised in that the generating of the second output signal further comprises scaling of the side signal (x side) to an energy contour of the main signal (x mono). A method of decoding is also presented as well as an encoder, a decoder and audio system, all according to the same basic idea.

IPC 8 full level

G10L 19/008 (2013.01); **H04S 3/00** (2006.01)

IPC 8 main group level

H04H (2006.01)

CPC (source: BR EP SE)

G10L 19/008 (2013.01 - BR EP SE); **G10L 19/18** (2013.01 - BR)

Citation (search report)

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- [A] HERRE J ET AL: "COMBINED STEREO CODING", PREPRINTS OF PAPERS PRESENTED AT THE AES CONVENTION, vol. 93, no. 3369, 1 October 1992 (1992-10-01), pages 1 - 18, XP009025132
- [A] TED PAINTER ET AL: "Perceptual Coding of Digital Audio", PROCEEDINGS OF THE IEEE, IEEE. NEW YORK, US, vol. 88, no. 4, April 2000 (2000-04-01), XP011044355, ISSN: 0018-9219

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DOCDB simple family (publication)

WO 2005059899 A1 20050630; AT E371924 T1 20070915; AT E443317 T1 20091015; AU 2004298708 A1 20050630; AU 2004298708 B2 20080103; BR PI0410856 A 20060704; BR PI0410856 B1 20191001; BR PI0410856 B8 20191015; BR PI0419281 B1 20180814; CA 2527971 A1 20050630; CA 2527971 C 20110315; CA 2690885 A1 20050630; CA 2690885 C 20140121; CN 100559465 C 20091111; CN 101118747 A 20080206; CN 101118747 B 20110223; CN 1816847 A 20060809; DE 602004008613 D1 20071011; DE 602004008613 T2 20080612; DE 602004023240 D1 20091029; EP 1623411 A1 20060208; EP 1623411 B1 20070829; EP 1845519 A2 20071017; EP 1845519 A3 20071107; EP 1845519 B1 20090916; HK 1091585 A1 20070119; HK 1115665 A1 20081205; JP 2007529021 A 20071018; JP 2008026914 A 20080207; JP 4335917 B2 20090930; JP 4589366 B2 20101201; MX PA05012230 A 20060210; PL 1623411 T3 20080131; RU 2005134365 A 20060527; RU 2007121143 A 20081210; RU 2305870 C2 20070910; RU 2425340 C2 20110727; SE 0400417 D0 20040220; SE 0400417 L 20050620; SE 527670 C2 20060509; ZA 200508980 B 20070328

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