Title (en)

Method and apparatus for encoding or decoding a speech and/or non-speech audio input signal

Title (de)

Verfahren und Vorrichtung zur Kodierung und Dekodierung von Sprache bzw. Nicht-Sprache-Audioeingabesignalen

Title (fr)

Procédé et appareil de codage ou de décodage d'un signal d'entrée audio vocal et/ou non vocal

Publication

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Application

EP 08159018 A 20080625

Priority

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Abstract (en)

[origin: EP2139000A1] A disadvantage of known audio or speech codecs is a clear dependency of the coding quality on the types of content, i.e. music-like audio signals are best coded by audio codecs and speech-like audio signals are best coded by speech codecs. No known codec is holding a dominant position for mixed speech/music content. The inventive joined speech/audio codec uses speech coding processing as well as audio coding processing. Transform based audio coding processing is combined in an advantageous way with linear prediction based speech coding processing, using at the input a Modulated Lapped Transform the output spectrum of which is separated into frequency bins (low frequencies) assigned to the speech coding and the remaining frequency bins (high frequencies) are assigned to the transform-based audio coding. The invention achieves a uniform good codec quality for both speech-like and music-like audio signals, especially for very low bit rates but also for higher bit rates.

IPC 8 full level

G10L 19/14 (2006.01); **G10L 11/02** (2006.01); **G10L 19/02** (2006.01); **G10L 19/04** (2006.01); **G10L 19/24** (2013.01); G10L 25/78 (2013.01)

CPC (source: EP)

G10L 19/24 (2013.01); G10L 19/0212 (2013.01); G10L 19/04 (2013.01); G10L 25/78 (2013.01)

Cited by

CN106033982A; CN102737636A; RU2667380C2; US10347267B2; US11074922B2; US10504532B2; US11238878B2; US11922960B2

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