

Title (en)

AN ENHANCED AUDIO ENCODING/DECODING DEVICE AND METHOD

Title (de)

VERBESSERTE AUDIO-CODIERUNGS-/DECODIERUNGSEINRICHTUNG UND VERFAHREN

Title (fr)

DISPOSITIF ET PROCEDE DE CODAGE/DECODAGE AUDIO AMELIORES

Publication

EP 1852851 A1 20071107 (EN)

Application

EP 05738242 A 20050401

Priority

- CN 2005000441 W 20050401
- CN 200410030945 A 20040401

Abstract (en)

An enhanced audio encoding device, which is consisted of a signal type analyzing module, a psychoacoustical analyzing module, a time-frequency mapping module, a quantization and entropy encoding module, a frequency-domain linear prediction and vector quantization module, and a bit stream multiplexing module, in which the singal type analyzing module is configured to anaylze the signal type of the input audio signal and output to the psychoacoustical analyzing module, the time-frequency mapping module and the bit stream multiplexing module, the frequency-domain linear prediction and vector quantization module is configured to perform a linear prediction of the frequency-domain coefficients and a multi-level vector quantization, and output the residual sequences to the quantization and entropy encoding module while outputting a lateral information to the bit stream multiplexing module. The device is adapted to perform a compressive encoding of the audio signal with high fidelity, which is sampled at multi sampling rates and has multi audio channel configurations, the device can support the audio signal whose sampling rate is between 8kHz and 192kHz and all possible audio channel configurations, and the range of the objective code rate of the audio encode/decode is very wide.

IPC 8 full level

G10L 19/02 (2006.01); **G10L 19/038** (2013.01); **G10L 19/04** (2006.01); **G10L 19/028** (2013.01)

CPC (source: EP)

G10L 19/038 (2013.01); **G10L 19/028** (2013.01)

Citation (search report)

See references of WO 2005096274A1

Cited by

RU2616863C2; CN113194385A; CN103477387A; AU2012217156B2; US8825496B2; US9620129B2; WO2012110476A1; US11830507B2; US8731917B2; US9076453B2; US9037457B2; US11708741B2; US9047859B2; US9311926B2; US9773507B2; US10580425B2; JP2014510306A; TWI488177B; US9401152B2; US9721578B2; US9881629B2; US10074379B2; US10217474B2; US10388296B2; US10522163B2; US10950252B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1852851 A1 20071107; WO 2005096274 A1 20051013

DOCDB simple family (application)

EP 05738242 A 20050401; CN 2005000441 W 20050401