Title (en)
IMPROVED FREQUENCY BAND EXTENSION IN AN AUDIO SIGNAL DECODER

Title (de)
VERBESSERTE FREQUENZBANDERWEITERUNG IN EINEM AUDIOSIGNALDECODIERER

Title (fr)
EXTENSION AMÉLIORÉE DE BANDE DE FRÉQUENCE DANS UN DÉCODEUR DE SIGNAUX AUDIOFRÉQUENCES

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Application
EP 14742262 A 20140624

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Abstract (en)
[origin: WO2014207362A1] The invention relates to a method for extending the frequency band of an audio signal during a decoding or improvement process comprising a step of decoding or extracting, in a first so-called low frequency band, an excitation signal and coefficients of a linear prediction filter. The method comprises the following steps: - obtaining a signal (UHB2(k), E403)) extended in at least a second frequency band higher than the first frequency band from an oversampled excitation signal extended in at least a second frequency band (UHB1(k), E401);- scaling (E406) the extended signal by means of a gain defined by subframe on the basis of an energy ratio of a frame and of a subframe; - filtering (E404) said scaled extended signal with a linear prediction filter of which the coefficients are derived from the coefficients of the low frequency band filter. The invention also relates to a frequency band extension device implementing the described method and a decoder comprising such a device.

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