

Title (en)  
DEVICE FOR PERCEPTUAL WEIGHTING IN AUDIO ENCODING/DECODING

Title (de)  
VORRICHTUNG FÜR WAHRNEHMUNGSGEWICHTUNG BEI DER TONKODIERUNG/-DEKODIERUNG

Title (fr)  
DISPOSITIF DE PONDERATION PERCEPTUELLE EN CODAGE/DECODAGE AUDIO

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Application  
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Abstract (en)  
[origin: WO2007093726A2] The invention relates to a hierarchical audio encoder in a frequency band divided into a first sub-band and a second sub-band which are adjacent to each other, said encoder comprising: a core encoder (305) for encoding an original signal in the first sub-band of the frequency band; a calculation stage (306) for calculating a residual signal {e} from the original signal and from the signal supplied by the core encoder; and a device (307) for perceptual weighting of the residual signal {e}. According to the invention, the perceptual weighting device comprises a perceptual weighting filter (307) with gain compensation that can perform the spectral continuity between the signal at the output of the perceptual weighting filter with gain compensation and the signal in the second sub-band. The invention can be applied to the transmission and storage of digital signals, such as the audio-frequency signals of speech, music, etc.

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