

Title (en)
DEVICE AND METHOD FOR ENCODING A TIME-DISCRETE AUDIO SIGNAL AND DEVICE AND METHOD FOR DECODING CODED AUDIO DATA

Title (de)
VORRICHTUNG UND VERFAHREN ZUM CODIEREN EINES ZEITDISKRETEN AUDIOSIGNALS UND VORRICHTUNG UND VERFAHREN ZUM DECODIEREN VON CODIERTEN AUDIODATEN

Title (fr)
DISPOSITIF ET PROCEDE POUR CODER UN SIGNAL AUDIO A TEMPS DISCRET ET DISPOSITIF ET PROCEDE POUR DECODER DES DONNEES AUDIO CODEES

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Application
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Abstract (en)
[origin: WO03088212A1] According to the invention, a time-discrete audio signal is processed (52) in order to provide a quantization block with quantized spectral values (52). In addition, a whole-number spectral representation is generated from a time-discrete audio signal, using a whole-number transformation algorithm (56). The quantization block, which has been generated using a psychoacoustic model (54), is inverse quantized and rounded (58) to form a differential between the whole-number spectral values and the inverse quantized rounded spectral values. The quantization block alone produces a psychoacoustic encoded/decoded audio signal affected by loss after the decoding process, whereas the quantization block together with the combination block provides a loss-free, or practically loss-free encoded and decoded audio signal during said decoding process. The generation of the differential signal in the frequency range allows a simpler encoder/decoder structure to be produced.

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