

Title (en)

CODING PROCESS FOR INSERTING AN INAUDIBLE DATA SIGNAL INTO AN AUDIO SIGNAL, DECODING PROCESS, CODER AND DECODER

Title (de)

CODIERVERFAHREN ZUR EINBRINGUNG EINES NICHT HÖRBAREN DATENSIGNALS IN EIN AUDIOSIGNAL, DECODIERVERFAHREN, CODIERER UND DECODIERER

Title (fr)

PROCEDE DE CODAGE POUR INTRODUIRE UN SIGNAL DE DONNEES NON AUDIBLE DANS UN SIGNAL AUDIO, PROCEDE DE DECODAGE, CODEUR ET DECODEUR CORRESPONDANTS

Publication

EP 0875107 B1 19990901 (DE)

Application

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Abstract (en)

[origin: US6584138B1] In a coding method and a coder for introducing a non-audible data signal into an audio signal, the audio signal is first transformed to a spectral range and the masking threshold of the audio signal is determined. A pseudo-noise signal and a data signal are provided and multiplied with each other so as to provide a frequency-spread data signal. The spread data signal is weighted with the masking threshold, and thereafter the audio signal and the weighted data signal are superimposed. In a method and a decoder for decoding a data signal introduced into an audio signal in non-audible manner, the audio signal is first sampled and thereafter the sampled audio signal is filtered in non-recursive manner. The filtered audio signal is subsequently compared to a threshold value so as to retrieve the data signal.

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