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(54) Title: MULTI-MODE AUDIO SIGNAL DECODER, MULTI-MODE AUDIO SIGNAL ENCODER, METHODS AND COMPUTER PROGRAM USING A LINEAR-PREDICTION-CODING BASED NOISE SHAPING

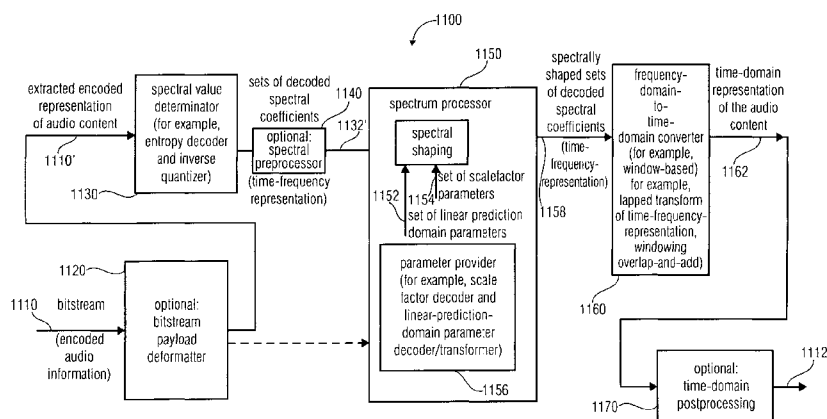


FIG 11

(57) Abstract: A multi-mode audio signal decoder for providing a decoded representation of an audio content on the basis of an encoded representation of the audio content comprises a spectral value determinator configured to obtain sets of decoded spectral coefficients for a plurality of portions of the audio content. The audio signal decoder also comprises a spectrum processor configured to apply a spectral shaping to a set of spectral coefficients, or to a pre-processed version thereof, in dependence on a set of linear-prediction-domain parameters for a portion of the audio content encoded in a linear-prediction mode, and to apply a spectral shaping to a set of decoded spectral coefficients, or a pre-processed version thereof, in dependence on a set of scale factor parameters for a portion of the audio content encoded in a frequency-domain mode. The audio signal decoder comprises a frequency-domain-to-time-domain converter configured to obtain a time-domain representation of the audio content on the basis of a spectrally-shaped set of decoded spectral coefficients for a portion of the audio content encoded in the linear-prediction mode, and to obtain a time domain representation of the audio content on the basis of a spectrally shaped set of decoded spectral coefficients for a portion of the audio content encoded in the frequency domain mode. An audio signal encoder is also described.



