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(54) Title: APPARATUS AND METHOD FOR HARMONICITY-DEPENDENT TILT CONTROL OF SCALE PARAMETERS IN AN AUDIO ENCODER

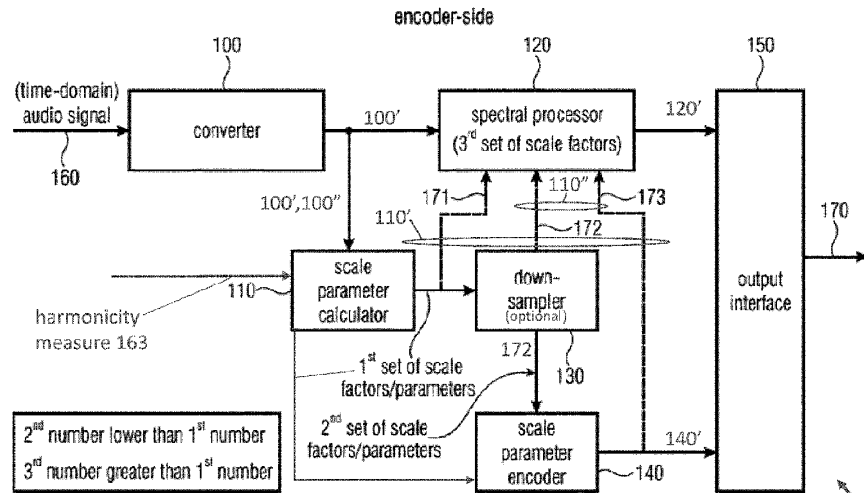


Fig. 1a

300a

(57) Abstract: Apparatus for encoding an audio signal (160), comprising: a converter (100) for converting the audio signal into a spectral representation; a scale parameter calculator (110) for calculating a set of scale parameters based on the audio signal (160); a spectral processor (120) for processing the spectral representation, or at least part thereof, using the set of scale parameters, or a modified version thereof; a scale parameter encoder (140) for generating an encoded representation of the scale parameters, or of the modified version of the scale parameters; wherein the scale parameter calculator (110) is configured to calculate an amplitude-related measure for each band to obtain a set of amplitude-related measures, the scale parameter calculator (110) being configured to perform (113) a pre-emphasis operation to the set of amplitude-related measures, so that low frequency amplitudes are emphasized with respect to high frequency amplitudes according to a tilt value, or a pre-emphasis factor, wherein the scale parameter calculator (110) is configured to

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control the tilt value, or the pre-emphasis factor, based on a harmonicity measure of the audio signal, to thereby obtain the set of scale parameters; an output interface (150) to generate an encoded audio signal (170) comprising information on an encoded representation of the spectral representation, or the at least part thereof, and information on the encoded representation of the scale parameters or of the modified version of the scale parameters.