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(54) Title: AN APPARATUS AND A METHOD FOR CALCULATING A NUMBER OF SPECTRAL ENVELOPES

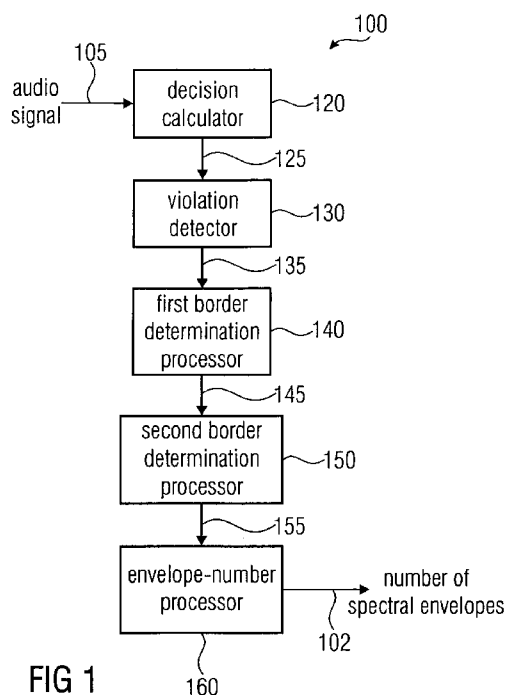


FIG 1

(57) Abstract: An apparatus (100) calculates a number (102) of spectral envelopes (104) to be derived by a spectral band replication (SBR) encoder, wherein the SBR encoder is adapted to encode an audio signal (105) using a plurality of sample values within a predetermined number of subsequent time portions (110) in an SBR frame extending from an initial time (t₀) to a final time (t_n), the predetermined number of subsequent time portions (110) being arranged in a time sequence given by the audio signal (105). The apparatus (100) comprises a decision value calculator (120) for determining a decision value (125), the decision value (125) measuring a deviation in spectral energy distributions of a pair of neighboring time portions. The apparatus (100) further comprises a detector (130) for detecting a violation (135) of a threshold by the decision value (125) and a processor (140) for determining a first envelope border (145) between the pair of neighboring time portions when the violation (135) of the threshold is detected. The apparatus (100) further comprises a processor (150) for determining a second envelope border (155) between a different pair of neighboring time portions or at the initial time (t₀) or at the final time (t_n) for an envelope having the first envelope border (145) based on the violation (135) of the threshold for the other pair or based on a temporal position of the pair or the different pair in the SBR frame. The apparatus (100) further comprises a number processor (160) for establishing the number (102) of spectral envelopes (104) having the first envelope border (145) and the second envelope border (155).



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