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(54) Title: APPARATUS AND METHOD FOR AUDIO SIGNAL ENVELOPE ENCODING, PROCESSING AND DECODING BY MODELLING A CUMULATIVE SUM REPRESENTATION EMPLOYING DISTRIBUTION QUANTIZATION AND CODING

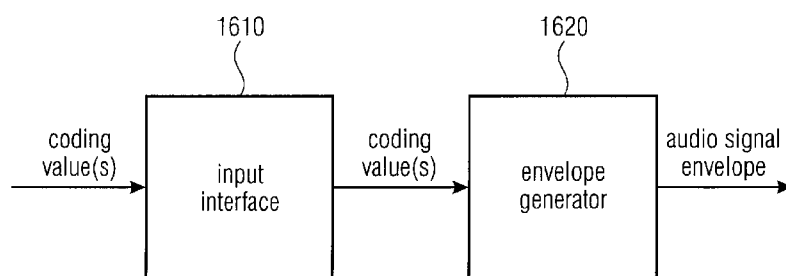


FIG 16

(57) Abstract: An apparatus for generating an audio signal envelope from one or more coding values is provided. The apparatus comprises an input interface (1610) for receiving the one or more coding values, and an envelope generator (1620) for generating the audio signal envelope depending on the one or more coding values. The envelope generator (1620) is configured to generate an aggregation function depending on the one or more coding values, wherein the aggregation function comprises a plurality of aggregation points, wherein each of the aggregation points comprises an argument value and an aggregation value, wherein the aggregation function monotonically increases, and wherein each of the one or more coding values indicates at least one of an argument value and an aggregation value of one of the aggregation points of the aggregation function. Moreover, the envelope generator (1620) is configured to generate the audio signal envelope such that the audio signal envelope comprises a plurality of envelope points, wherein each of the envelope points comprises an argument value and an envelope value, and wherein an envelope point of the audio signal envelope is assigned to each of the aggregation points of the aggregation function such that the argument value of said envelope point is equal to the argument value of said aggregation point. Furthermore, the envelope generator (1620) is configured to generate the audio signal envelope such that the envelope value of each of the envelope points of the audio signal envelope depends on the aggregation value of at least one aggregation point of the aggregation function.

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