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(54) Title: AUDIO PROCESSOR AND METHOD FOR GENERATING A FREQUENCY ENHANCED AUDIO SIGNAL USING PULSE PROCESSING

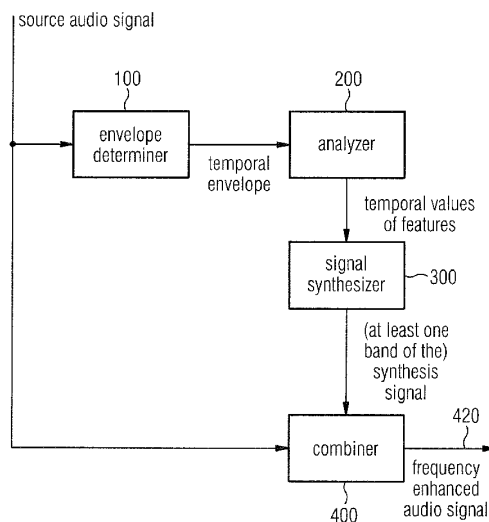


Fig. 1

(57) Abstract: An audio processor for generating a frequency enhanced audio signal (420) from a source audio signal (30), comprises: an envelope determiner (100) for determining a temporal envelope of at least a portion of the source audio signal; an analyzer (200) for analyzing the temporal envelope to determine temporal values of certain features of the temporal envelope; a signal synthesizer (300) for generating a synthesis signal, the generating comprising placing pulses in relation to the determined temporal values, wherein the pulses are weighted using weights derived from amplitudes of the temporal envelope related to the temporal values, where the pulses are placed; and a combiner (400) for combining at least a band of the synthesis signal that is not included in the source audio signal and the source audio signal to obtain the frequency enhanced audio signal (420).

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