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(54) Title: APPARATUS AND METHOD FOR GENERATING A BANDWIDTH EXTENDED SIGNAL

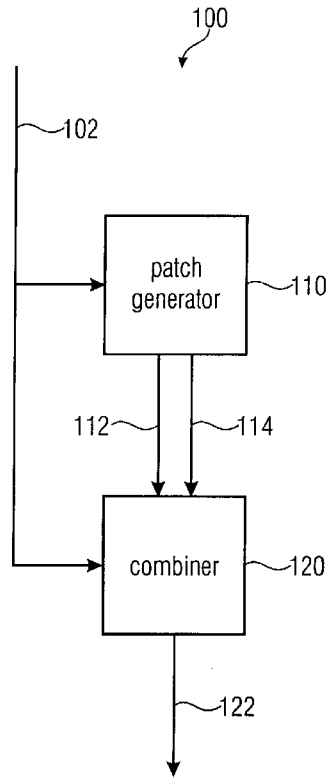



FIGURE 1

(57) Abstract: An apparatus for generating a bandwidth extended signal from an input signal comprises a patch generator and a combiner. The input signal is represented for a first band by a first resolution data, and for a second band by a second resolution data, the second resolution being lower than the first resolution. The patch generator generates a first patch from the first band of the input signal according to a first patching algorithm and generates a second patch from the first band of the input signal according to a second patching algorithm. A spectral density of the second patch generated according to the second patching algorithm is higher than a spectral density of a first patch generated according to the first patching algorithm. The combiner combines the first patch, the second patch and the first band of the input signal to obtain the bandwidth extended signal. The apparatus for generating a bandwidth extended signal scales the input signal according to the first patching algorithm and according to the second patching algorithm or scales the first patch and the second patch, so that the bandwidth extended signal fulfills a spectral envelope criterion.

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