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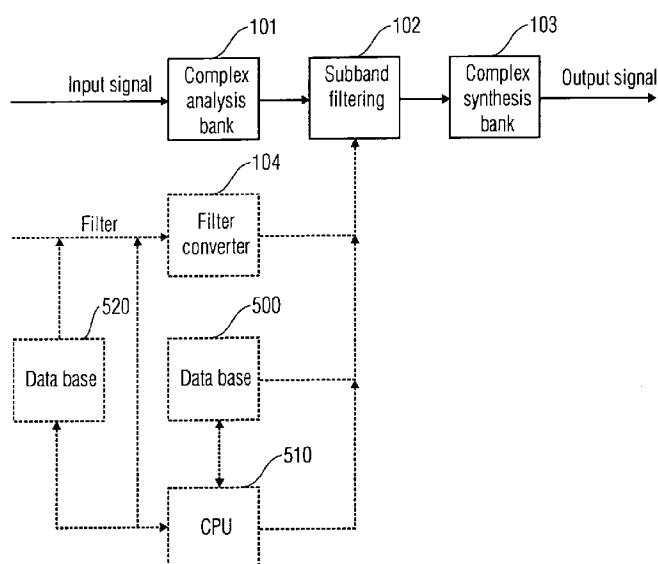
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(54) Title: EFFICIENT FILTERING WITH A COMPLEX MODULATED FILTERBANK



(57) Abstract: A filter apparatus for filtering a time domain input signal to obtain a time domain output signal, which is a representation of the time domain input signal filtered using a filter characteristic having a non-uniform amplitude/frequency characteristic, comprises a complex analysis filter bank (101) for generating a plurality of complex subband signals from the time domain input signals, a plurality of intermediate filters, wherein at least one of the intermediate filters (102) of the plurality of the intermediate filters has a non-uniform amplitude/frequency characteristic, wherein the plurality of intermediate filters have a shorter impulse response compared to an impulse response of a filter having the filter characteristic, and wherein the non-uniform amplitude/frequency characteristics of the plurality of intermediate filters together represent the non-uniform filter characteristic, and a complex synthesis filter bank (103) for synthesizing the output of the intermediate filters to obtain the time domain output signal.

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