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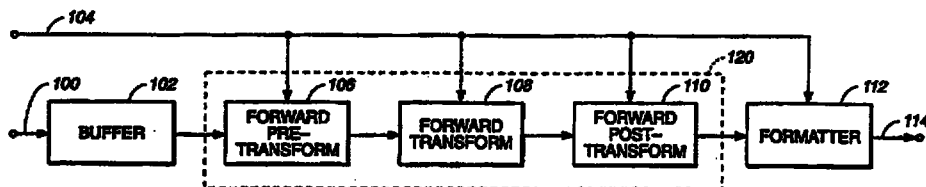
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(54) Title: ANALYSIS/SYNTHESIS FILTERING SYSTEM WITH EFFICIENT ODDLY-STACKED SINGLE-SIDEBAND FILTER BANK USING TIME-DOMAIN ALIASING CANCELLATION



(57) Abstract

An efficient implementation of oddly-stacked critically-sampled single-sideband analysis/synthesis filter banks is achieved by application of a set of functions to time-domain and frequency-domain values before and after transformation. An implementation of an oddly-stacked Time Domain Aliasing Cancellation transform that permits the length of the transformation to be adaptively selected is disclosed.