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(54) Title: ANALOG-TO-DIGITAL CONVERTER

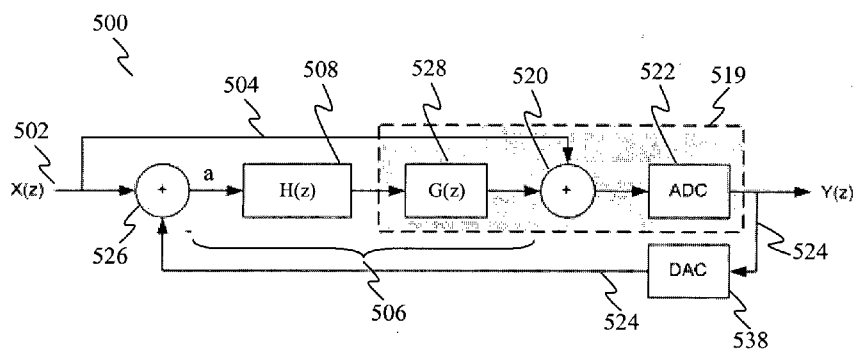


FIG. 5A

(57) **Abstract:** According to embodiments of the present invention, an analog-to-digital converter is provided. The analog-to-digital converter includes an input configured to receive an input signal, a feed-forward path connected to the input configured to feed forward the input signal, a processing path including a loop filter, wherein the loop filter includes at least one local feedback path configured to feed back an output signal of the loop filter to an input of the loop filter, a first combiner configured to combine the input signal fed forward by the feed-forward path with an output of the processing path, a quantizer configured to generate an output signal of the converter, a feed-back path configured to feed back the output signal, and a second combiner wherein the processing path is connected to the second combiner and the second combiner is configured to combine the input signal with the fed back output signal of the converter and supply the result of the combination to the processing path.