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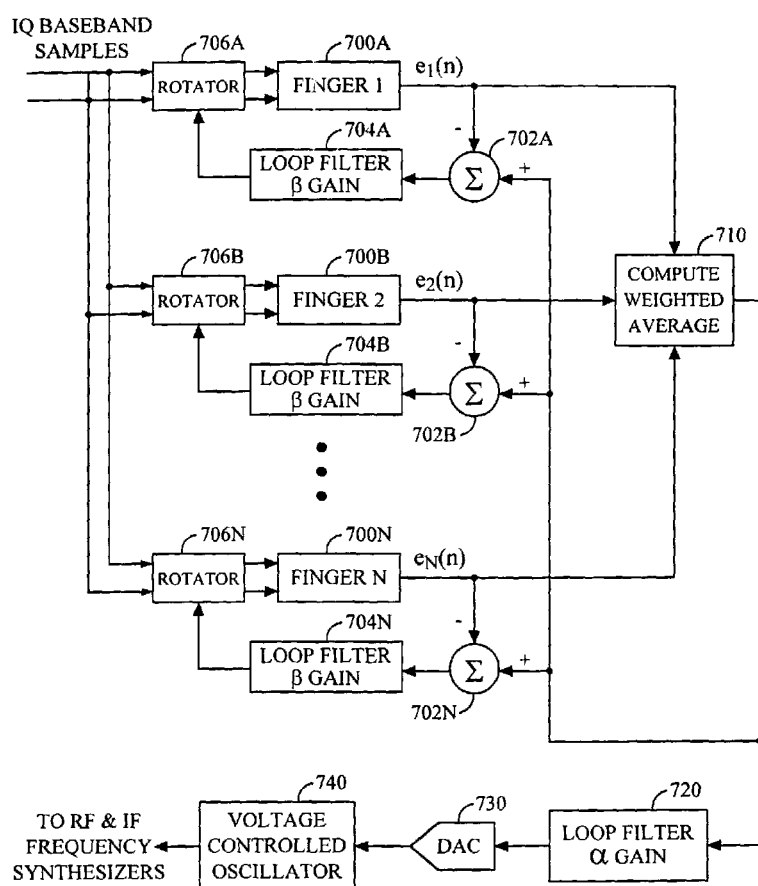
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(54) Title: MULTIPATH DOPPLER ADJUSTED FREQUENCY TRACKING LOOP



(57) Abstract: Each finger of a RAKE receiver will compute a frequency error for that finger. The weighted average of all of these frequency errors is calculated and filtered to provide a control signal for varying the frequency of IF and RF frequency synthesizers, accounting for the common frequency offset seen at each finger. Additionally, each finger is equipped with a rotator for providing frequency adjustment specific to that finger. The frequency of each finger is adjusted through feedback of the frequency error for that finger.



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