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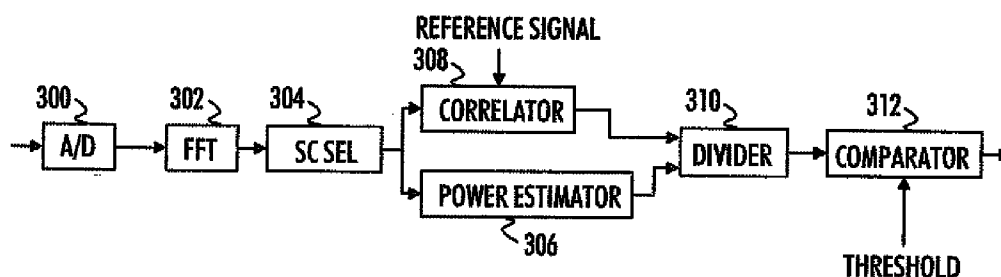
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(54) Title: SIGNAL DETECTION IN MULTICARRIER COMMUNICATION SYSTEM



(57) Abstract: A signal detection scheme is provided. According to the provided signal detection scheme, a received signal is correlated in a frequency domain with a reference signal. Additionally, the reception power of the received signal is calculated and the correlation value is normalized with the reception power. Therefore, a single threshold value may be used regardless of the reception power of the received signal when comparing the correlation between the received signal and the reference signal with the threshold value in order to determine whether the received signal is a desired signal or noise.

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