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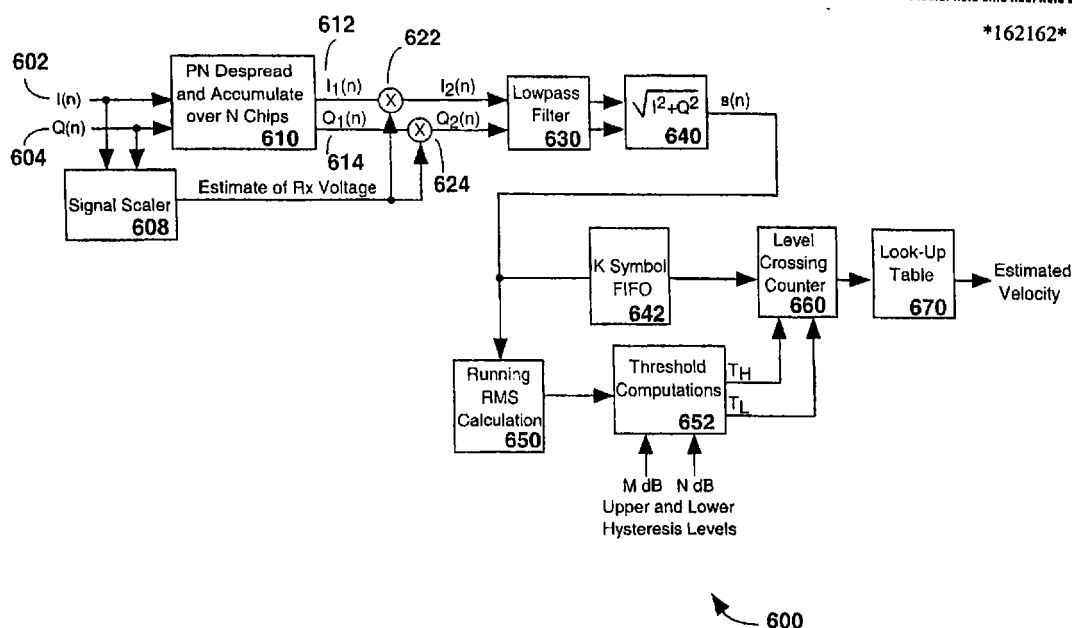
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(54) Title: APPARATUS AND METHOD OF VELOCITY ESTIMATION



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(57) Abstract: A velocity estimate is determined from a received signal by counting the number of times a signal in one multipath crosses a predetermined threshold in a given amount of time. A signal is received and a single multipath is extracted from the received signal. Instantaneous envelope values of the extracted multipath are calculated. A plurality of the instantaneous envelope values are used to calculate a running RMS value. A level crossing threshold is determined using the running RMS value. The number of times the instantaneous envelope value crosses the level crossing threshold is counted. The number of level crossings is mapped to a velocity estimate.

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