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(71) Applicant (for all designated States except US): **QUALCOMM Incorporated** [US/US]; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WALLACE, Mark S.** [US/US]; 4 Madel Lane, Bedford, Massachusetts 01730 (US). **MONSEN, Peter** [US/US]; 15 Oakencroft Road, Wellesley, Massachusetts 02482 (US).

(74) Agent: **OGROD, Gregory D.**; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121, (US).

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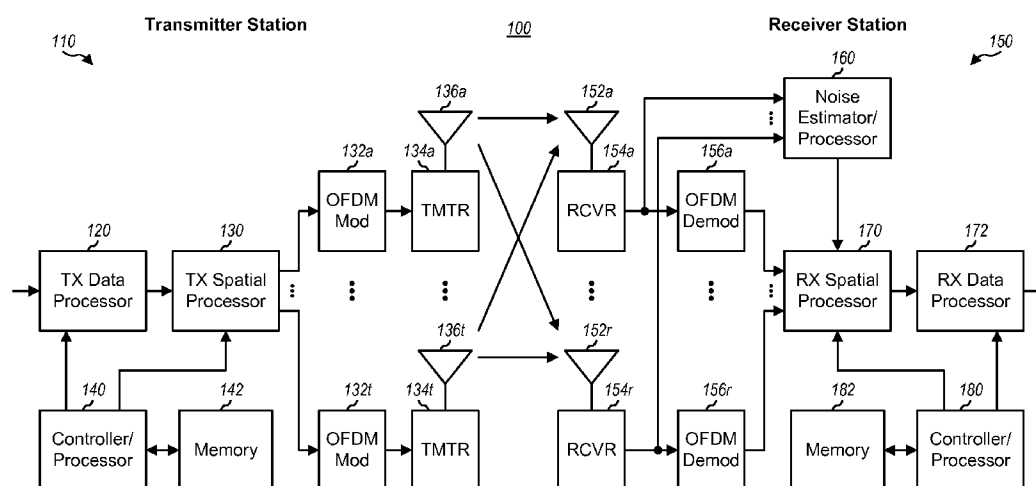
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(54) Title: NOISE ESTIMATION FOR WIRELESS COMMUNICATION



(57) Abstract: Techniques for deriving and using noise estimate for data reception in a wireless communication system are described. A noise estimate may be derived for each packet received in a data transmission. Data detection may then be performed for each packet using the noise estimate for that packet. For noise estimation, a first sample sequence and a second sample sequence may be obtained from each receiver used for data reception. A phase offset between the first and second sample sequences may be determined and applied to the first sample sequence for each receiver to obtain a third sample sequence for that receiver. A noise estimate may then be derived based on the power of the differences between the second and third sample sequences for the at least one receiver.



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