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(54) **Title:** SYSTEM FOR AND METHOD OF REMOVING UNWANTED INBAND SIGNALS FROM A RECEIVED COMMUNICATION SIGNAL

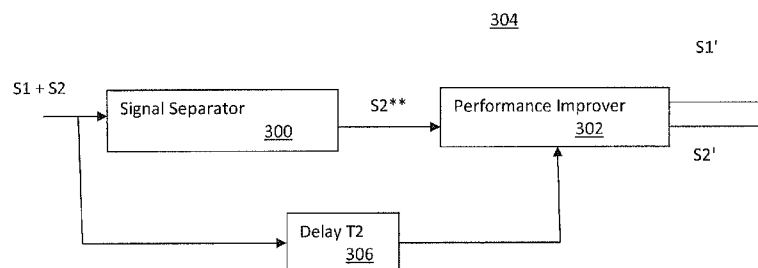


FIG. 8

(57) **Abstract:** A system for and method of removing one or more unwanted inband signals from a received communications signal is described. The inband signal or signals may comprise noise, interference signals, or any other unwanted signals that impact the quality of the underlying communications. A receiver receives a communication signal, the received communication signal including the desired communication signal and one or more inband signals. A signal separator processes the received signal to form an estimate of the desired communication signal and an estimate of the inband signals. A performance improver processes the received signal and the estimate of the one or more inband signals to form an improved estimate of the desired communication signal and an improved estimate of the inband signals.