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(54) Title: ENVIRONMENT ESTIMATION IN A WIRELESS COMMUNICATION SYSTEM

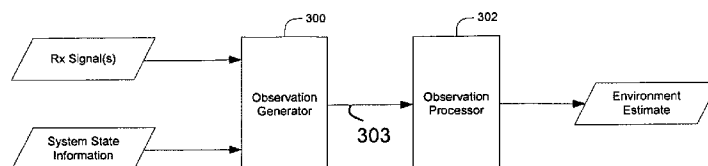


Figure 3

(57) Abstract: A method and system are described for estimating an environment surrounding a wireless communication system, the environment including at least one inflector that inflects transmitted signals. An observation generator (300) receives an input signal transmitted from a transmitter to a receiver via a wireless communication channel and also receives system state information pertaining to at least one of the receiver, the transmitter and the inflector. An observation processor (302) uses observations (303) from the observation generator (300) to estimate at least one property of the inflector based on the received input signal and the system state information.