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- (54) METHOD AND APPARATUS FOR ANTENNA **DIVERSITY IN A WIRELESS COMMUNICATION SYSTEM**
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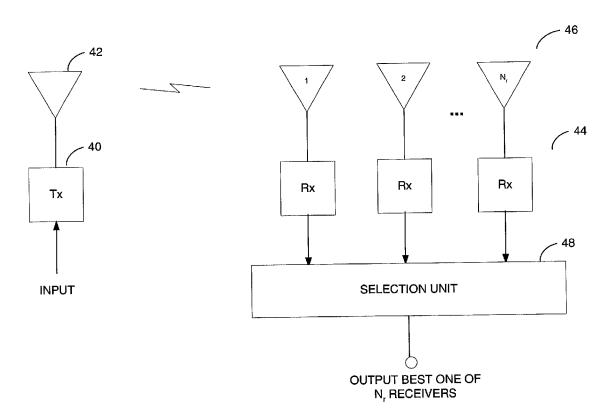
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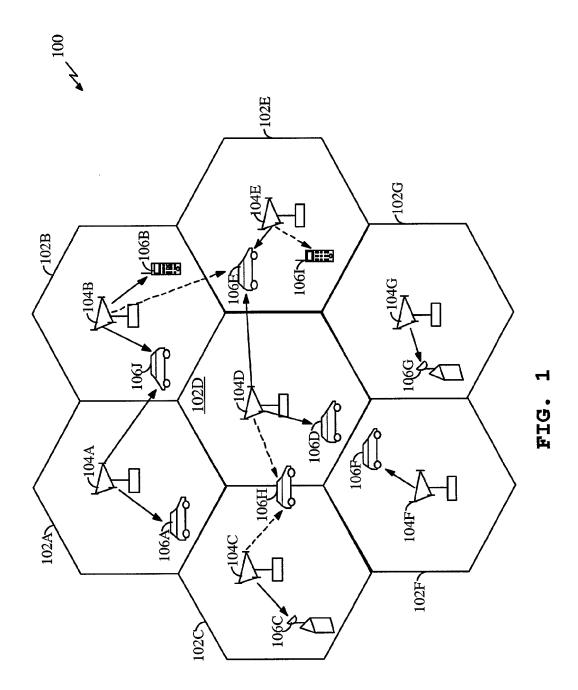
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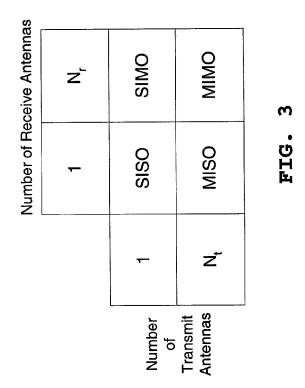
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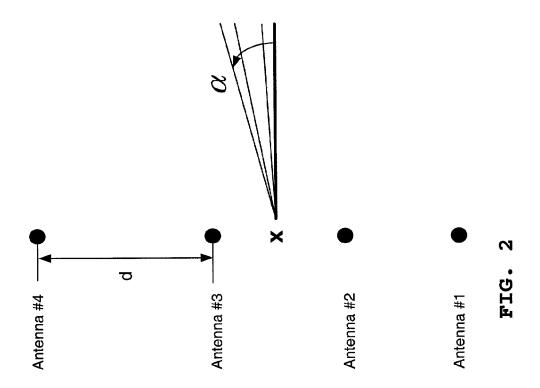
(57)**ABSTRACT**

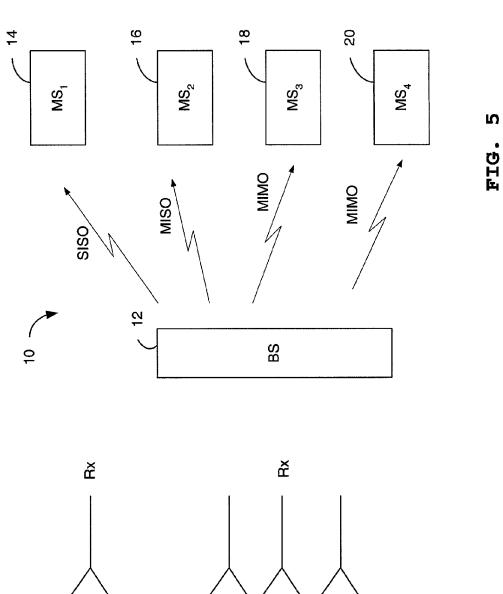
Method and apparatus for negotiating a transmission scenario in a mixed mode spectrum wireless communication system capable of both MISO and SISO traffic. The transmitter determines an antenna diversity configuration for a given communication link and applies a transmission scenario. The base station queries the remote station for antenna diversity status. In response to the antenna diversity status information, the base station determines and applies a transmission scenario. In one embodiment, a base station generates composite MIMO transmissions to multiple SISO mobile stations.

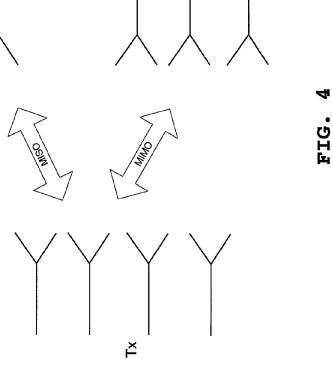


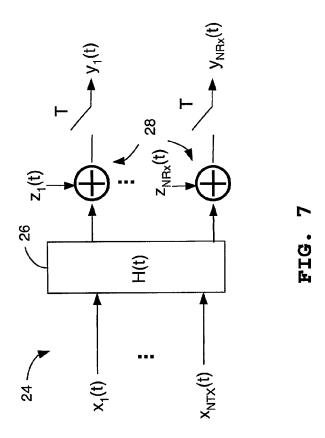


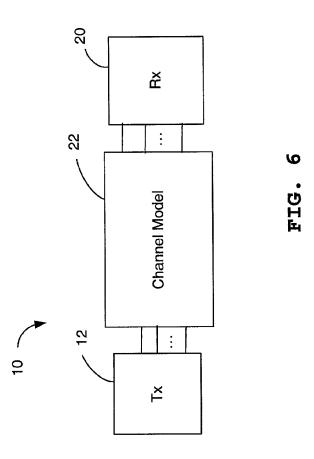












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