

METHOD FOR SELECTING SWITCHED ORTHOGONAL BEAMS FOR DOWNLINK DIVERSITY TRANSMISSION

5 Abstract

A scheme for selecting two beams in a switched beam antenna system for providing downlink communications in a downlink channel, the switched beam antenna system providing uplink reception and downlink transmission is described. The scheme
10 involves selecting a pair of beams based on the uplink reception of the switched beam antenna system, and determining from the pair of beams a corresponding pair of orthogonal beams. The scheme also involves providing the pair of orthogonal beams as a pair of transmit beams for the downlink transmission of the switched beam antenna system.

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Figure 6



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