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(54) Title: FAST BEAM REFINEMENT PHASE FOR PERIODIC BEAMFORMING TRAINING

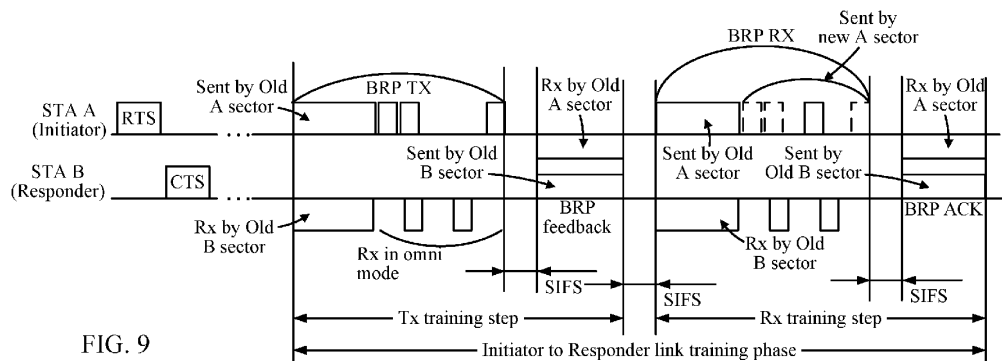


FIG. 9

(57) Abstract: Certain aspects of the present disclosure provide methods and apparatus for enhancing a beamforming training procedure. For example, an apparatus for wireless communications may include a processing system configured to generate a first transmit beamforming refinement frame, a first interface configured to output the first transmit beamforming refinement frame for transmission to a wireless node, wherein a first portion of the first transmit beamforming refinement frame is output for transmission via a first transmit beamforming sector and further wherein training fields of the first transmit beamforming refinement frame are output for transmission via two or more second transmit beamforming sectors, and a second interface configured to obtain a first feedback frame from the wireless node indicating one of the second transmit beamforming sectors. The apparatus may be configured to use the indicated second transmit beamforming sector for communication with the wireless node.

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