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(54) **Title: METHODS, ARCHITECTURES, APPARATUSES AND SYSTEMS FOR TRANSMISSION OF REFERENCE SIGNALS TO TRANSMISSION POINTS**

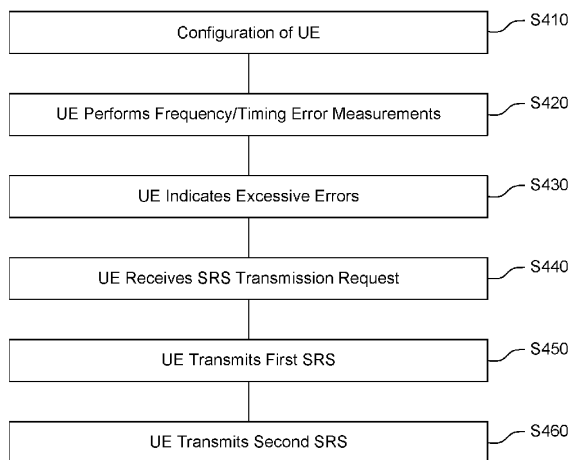


FIG. 4

(57) **Abstract:** Procedures, methods, architectures, apparatuses, systems, devices, and computer program products for transmission of reference signals to transmission points are described. A wireless transmit/receive unit, WTRU, receives information indicative of a configuration for joint reception from a plurality of transmission points including a reference transmission point, and for reporting of measurements of relative errors related to received reference signals from at least one pair of transmission points of the plurality of transmission points, transmits information indicative of measured relative errors related to received reference signals from the at least one pair of transmission points, upon determination that a measured relative error exceeds a given value, transmits information indicative of the exceeding measured relative error, receives information indicative of a request for transmission of a calibration signal to at least one transmission point of the plurality of transmission points, and transmits the calibration signal according to the request.

[Continued on next page]

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