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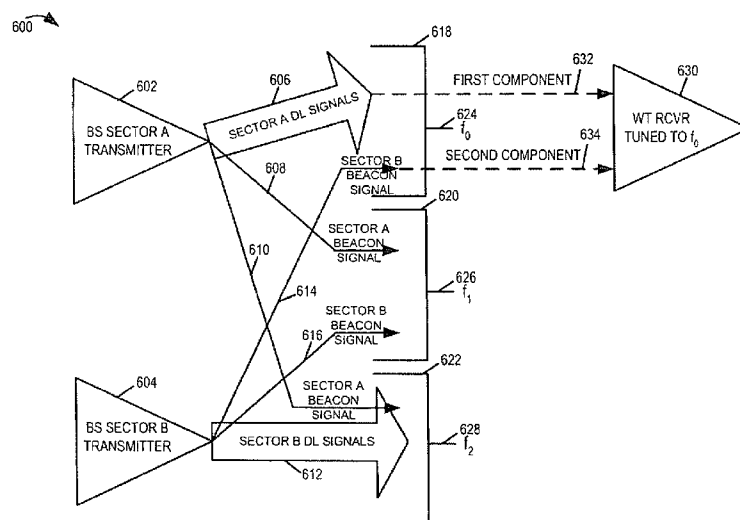
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(54) Title: METHODS AND APPARATUS FOR SELECTING BETWEEN MULTIPLE CARRIERS USING A SINGLE RE-
CEIVER CHAIN TUNED TO A SINGLE CARRIER



(57) Abstract: Receivers accommodating carrier frequency selection methods in wireless communications systems employing mul-
tiple carrier frequencies are described. Although the receiver is tuned to a single band, an estimate of the channel quality correspond-
ing to the currently used carrier and an alternative carrier is generated without switching between carriers. Transmitters of different
cells and/or different sectors primarily use different carrier frequencies but periodically transmit using a neighboring sector's carrier
frequency. Mobile node receivers use a single RF chain with a controllable RF filter to receive and process a signal within a first se-
lected carrier band including two components, a first signal component identified with the first currently selected band and a second
signal component identified with a second alternative band. Separate quality indicator values are obtained from the first and second
signal components, compared, and a determination is made as to whether the receiver's RF filter should be switched to the second
band.

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