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(54) **APPARATUS AND METHOD FOR DYNAMICALLY ASSIGNING RESOURCES IN AN OFDM COMMUNICATION SYSTEM**

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See application file for complete search history.

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(57) **ABSTRACT**

A mobile communication system and method utilizing Orthogonal Frequency Division Multiplexing (OFDM) receives channel quality information (CQIs) for subcarriers through which reference signals are transmitted and subcarriers through which data signals are transmitted, in subbands, each including a predetermined number of subcarriers among a plurality of the subcarriers. The CQIs are received from respective receivers. Resources are dynamically assigned to the respective receivers according to the feedback CQIs, thereby enabling dynamic resource assignment with minimized signaling overhead.

16 Claims, 6 Drawing Sheets

