

ABSTRACT

METHOD FOR CONTROLLING TRANSMISSION OF SIGNAL
FOR MEASURING QUALITY OF BASE STATION, USER TERMINAL,
AND RECEPTION SIGNAL

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A disclosed base station is used in a radio communication system where sounding reference signals from user terminals are multiplexed using distributed FDMA in which distributed frequency blocks each
10 including frequency subcarriers discretely distributed in a system bandwidth are allocated to the user terminals, and the system bandwidth is repeatedly halved into frequency band segments according to a binary-tree structure. The base station includes a transmission
15 bandwidth determining unit for determining transmission bandwidths to be allocated to the respective user terminals for transmission of the sounding reference signals based on path losses between the user terminals and the base station; a transmission frequency
20 determining unit for allocating the frequency band segments corresponding to the determined transmission bandwidths as transmission frequency bands for the sounding reference signals; and a transmission method reporting unit for reporting the transmission bandwidths
25 and the transmission frequency bands to the respective user terminals.

FIG. 6