BASE STATION, USER DEVICE, AND COMMUNICATION CONTROL METHOD

ABSTRACT

Multiple reference signal transmission bandwidths are defined for system frequency bands and hierarchical reference signal bandwidths are defined for each reference signal transmission bandwidth such that a reference signal bandwidth lower than a highest-order reference signal bandwidth is a division of a higher-order reference signal bandwidth. A base station stores reference signal bandwidth information indicating the hierarchical reference signal bandwidths for each system frequency band; broadcasts the reference signal bandwidth information corresponding to a reference signal transmission bandwidth used by the base station; sets a frequency hopping bandwidth for a reference signal; reports, to a user device, the frequency hopping bandwidth and a reference signal bandwidth as assigned reference signal transmission bandwidth information; sets a reference signal transmission frequency band within the frequency hopping bandwidth based on the reference signal bandwidth information and the assigned reference signal transmission bandwidth information; and receives the reference signal from the user device.

Fig. 7