

BASE STATION, MOBILE STATION AND METHOD

ABSTRACT

A base station performs communication of an
orthogonal frequency division multiplexing (OFDM)
5 scheme with a mobile station by using any one of
equal to or greater than two frequency bands. The
base station includes means that transmits a
synchronization channel and a control channel using
a band that includes a center frequency f_A on a
10 raster of a first band (20MHz) and that has a
bandwidth equal to or greater than that of a second
band (5MHz of the end). The control channel
includes center frequency information for specifying
a center frequency f_A' of the second band. Since
15 the mobile station moves to a desired band after
obtaining center frequency information using a band
including the center frequency on a raster, the
mobile station can connect to the desired band
without searching frequencies that are not on the
20 raster.

Fig. 7B