

COMMUNICATION DEVICE AND COMMUNICATION CONTROL METHOD

ABSTRACT

A plurality of consecutive frequency bands are used as a broadband and use
5 efficiency thereof is improved. An available-frequency-band-information-list is retained
such that the list is categorized into frequency-band-groups, each of the groups is a series
of consecutive frequency bands, and a frequency-band-number-width is given to each of
the groups. Determining a necessary-frequency-band-number, one group is selected from
the groups whose width match the number as a first-type band group, when any of the
10 width of each of the groups does not match the number, one group is selected from the
groups whose width are next larger than the number as a frequency band group to be used,
and a series of consecutive frequency bands corresponding to the number is selected from
the frequency band group to be used as a second-type band group. Communication is
controlled so as to use the first-type or the second-type band group.

15

Figure 1