

BASE STATION DEVICE

ABSTRACT

5 A base station communicates with a user device
transmitting an uplink signal based on a single-carrier
transmission scheme. The base station includes a
frequency hopping determining unit configured to
determine whether to apply frequency hopping to the user
10 device based on radio-wave propagation information from
the user device and a traffic type of data to be
transmitted by the user device; a scheduler configured
to allocate frequencies to the user device based on
uplink channel reception conditions of the user device;
15 and a reporting unit configured to report allocation
information indicating resource units allocated by the
scheduler to the user device. When the frequency hopping
determining unit determines to apply the frequency
hopping to the user device, the scheduler allocates, to
20 the user device, resource units with different frequency
bands in different slots.

25 Figure 3