

ABSTRACT

TRANSMISSION DEVICE

5 A transmission device is disclosed that includes a  
frequency scheduling unit configured to allocate  
resource blocks as a unit to each user, the resource  
blocks being blocks of consecutive frequency  
subcarriers divided from a system bandwidth, constitute  
10 a first group including consecutive plural resource  
blocks, constitute plural second groups, each including  
one or more resource blocks of the plural resource  
blocks constituting each first group, and allocate the  
resource blocks of either the first group or one or  
15 more the second groups; a mapping unit configured to  
allocate transmission data to the resource blocks in  
accordance with the allocation; and a control  
information generating unit configured to generate  
control information with respect to a mobile station to  
20 which either the first group or one or more the second  
groups are allocated.

FIG.6