~~WIRELESS TRANSMITTER AND REFERENCE SIGNAL TRANSMISSION METHOD~~APPARATUSES, METHODS, AND INTEGRATED CIRCUITS FOR TRANSMITTING AND RECEIVING REFERENCE SIGNALS

ABSTRACT

Disclosed are a wireless transmitter and a reference signal transmission method that improve channel estimation accuracy. In a terminal (100), which transmits a reference signal using n (n is a non-negative integer 2 or greater) band blocks (which correspond to clusters here), which are disposed with spaces therebetween in a frequency direction, a reference signal controller (106) switches the reference signal formation method of a reference signal generator (107) between a first formation method and a second formation method based on the number (n) of band blocks. In addition, a threshold value setting unit (105) adjusts a switching threshold value based on the frequency spacing between band blocks. Thus, the reference signal formation method can be selected with good accuracy and, as a result, channel estimation accuracy is further improved.

Fig. 9