

INFORMATION EXCHANGE METHOD AND APPARATUS IN UWB SYSTEM

ABSTRACT

This application relates to an information exchange method and an apparatus in a UWB
5 system. The method includes: Two communication parties exchange a control message, for
indicating a frequency band overlapping rate between adjacent channels in a channel set used for
frequency band stitching; and when the frequency band overlapping rate belongs to an overlapping
rate set S_1 , the channel set is in an in-sequence channel order; or when the frequency band
overlapping rate belongs to an overlapping rate set S_2 , the channel set is in an out-of-sequence
10 channel order. According to this application, a better compromise between sending time and
transmit power in a frequency band stitching process can be implemented. This application is
applied to a UWB-based WPAN system, a sensing system, or the like, including 802.15 series
protocols, for example, 802.15.4ab or a next-generation standard of 802.15.4ab. This application
may be further applied to a WLAN system supporting 802.11 series protocols such as a next-
15 generation protocol of 802.11ax like 802.11be, or EHT, a next-generation protocol of 802.11be
like Wi-Fi 8 or UHR, or Wi-Fi AI.

FIG. 6