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(71) 申请人: 华为技术有限公司 (HUAWEI TECHNOLOGIES CO., LTD.) [CN/CN]; 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN)。

(72) 发明人: 彭晓辉 (PENG, Xiaohui); 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN)。 钱彬 (QIAN, Bin); 中国广东省深圳市龙

岗区坂田华为总部办公楼, Guangdong 518129 (CN)。 刘辰辰 (LIU, Chenchen); 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN)。 黄磊 (HUANG, Lei); 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN)。 杨讯 (YANG, Xun); 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN)。 张霆廷 (ZHANG, Tingting); 中国广东省深圳市西丽深圳大学城, Guangdong 518055 (CN)。

(74) 代理人: 广州三环专利商标代理有限公司 (SCIHEAD IP LAW FIRM); 中国广东省广州市越秀区先烈中路 80 号汇华商贸大厦 1508 室, Guangdong 510070 (CN)。

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(54) Title: INFORMATION INTERACTION METHOD AND APPARATUS IN UWB SYSTEM

(54) 发明名称: UWB系统中信息交互方法及装置

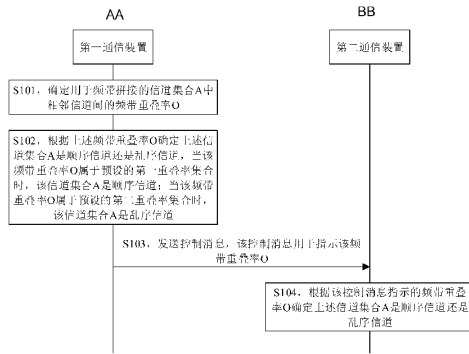


图 6

S101 Determine a frequency band overlapping rate O between adjacent channels in the set A of channels for frequency band stitching
S102 According to the described frequency band overlapping rate O, determine whether the channels in the set A of channels are ordered channels or out-of-order channels; when the frequency band overlapping rate O belongs to a preset first overlapping rate set, the channels in the set A of the channels are the ordered channels; and when the frequency band overlapping rate O belongs to a preset second overlapping rate set, the channels in the set A of channels are the out-of-order channels
S103 Transmit a control message, the control message being used for indicating the frequency band overlapping rate O
S104 According to the frequency band overlapping rate O indicated by the control message, determine whether the channels in the described set A of channels are the ordered channels or the out-of-order channels
AA First communication apparatus
BB Second communication apparatus

(57) Abstract: The present application relates to an information interaction method and apparatus in a UWB system. The method comprises: a communication two-party interaction control message is used for indicating a frequency band overlapping rate between adjacent channels in the set of channels for frequency band stitching; when the frequency band overlapping rate belongs to an overlapping rate set S_1 , the channels in the set of channels are ordered channels; when the frequency band overlapping rate belongs to an overlapping rate set S_2 , the channels in the set of channels are out-of-order channels. Use of the present application can achieve a better compromise between a transmitting time and transmit power in a frequency band stitching process. The present application is applied to a UWB-based WPAN system, a sensing system and the like, comprising 802.15 series protocols, such as 802.15.4ab or a next-generation standard thereof. The present application can also be applied to a WLAN system supporting 802.11 series protocols comprising a next-generation protocol of 802.11ax, such as 802.11be or EHT, and the next generation of 802.11be, such as Wi-Fi8, UHR, and Wi-Fi AI.

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本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 本申请涉及一种UWB系统中信息交互方法及装置, 该方法包括: 通信双方交互控制消息, 用于指示用于频带拼接的信道集合中相邻信道间的频带重叠率; 当频带重叠率属于重叠率集合 S_1 , 信道集合是顺序信道; 当频带重叠率属于重叠率集合 S_2 , 信道集合是乱序信道。采用本申请, 可以实现频带拼接过程中发送时间和发射功率之间更好的折中。本申请应用于基于UWB的WPAN系统, 感知系统等, 包括802.15系列协议, 如802.15.4ab或者其下一代制式等。还可应用于802.11ax下一代协议, 如802.11be或EHT, 再如802.11be下一代, Wi-Fi 8、UHR、Wi-Fi AI等802.11系列协议的WLAN系统。