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(54) Title: PPDU TRANSMISSION METHOD AND APPARATUS BASED ON FREQUENCY BAND STITCHING

(54) 发明名称: 基于频带拼接的PPDU传输方法及装置

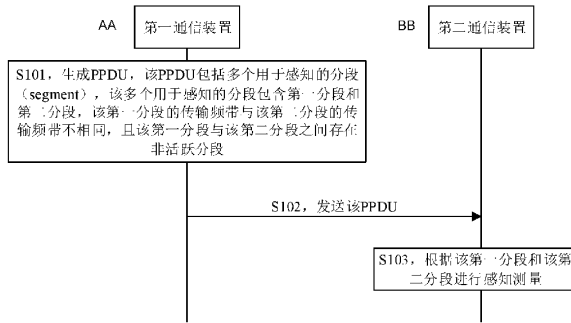


图 6

S101 Generate a PPDU, wherein the PPDU comprises a plurality of segments for sensing, the plurality of segments for sensing comprise a first segment and a second segment, a transmission frequency band of the first segment is different from a transmission frequency band of the second segment, and there is an inactive segment between the first segment and the second segment
S102 Send the PPDU
S103 Perform a sensing measurement according to the first segment and the second segment
AA First communication apparatus
BB Second communication apparatus

(57) Abstract: The present application relates to a PPDU transmission method based on frequency band stitching, and a related apparatus. The method comprises: a communication apparatus generating and sending a PPDU, wherein the PPDU comprises a first segment and a second segment, transmission frequency bands of the two segments are different, and there is an inactive segment between the two segments; and the communication apparatus not emitting a UWB pulse within the duration of the inactive segment. By means of the present application, the requirement for frequency switching can be met. The present application is applied to a UWB-based WPAN system, a sensing system, etc., which comprise 802.15 series protocols, such as 802.15.4ab or 802.15.4ab next-generation systems, etc. The present invention can also be applied to a WLAN system of 802.11 series protocols, such as 802.11ax next-generation protocols, for example, 802.11be, Wi-Fi 7 or EHT, and 802.11be next-generation protocols, for example, Wi-Fi 8, 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: 本申请涉及一种基于频带拼接的PPDU传输方法及相关装置, 该方法包括: 通信装置生成并发送PPDU, 该PPDU包括第一分段和第二分段, 这两个分段的传输频带不相同且这两个分段之间存在非活跃分段; 通信装置在非活跃分段的持续时间内不发射UWB脉冲。采用本申请, 可以满足频率切换的需要。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802.15.4ab下一代制式等。还可应用于802.11ax下一代协议, 如802.11be, Wi-Fi 7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。