

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号
WO 2025/002163 A1

(43) 国际公布日
2025 年 1 月 2 日 (02.01.2025)

(51) 国际专利分类号:
H04W 52/02 (2009.01)

(21) 国际申请号: PCT/CN2024/101545

(22) 国际申请日: 2024 年 6 月 26 日 (26.06.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202310809292.2 2023年6月30日 (30.06.2023) CN

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(81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG,

(54) Title: COMMUNICATION METHOD AND APPARATUS

(54) 发明名称: 通信方法与装置

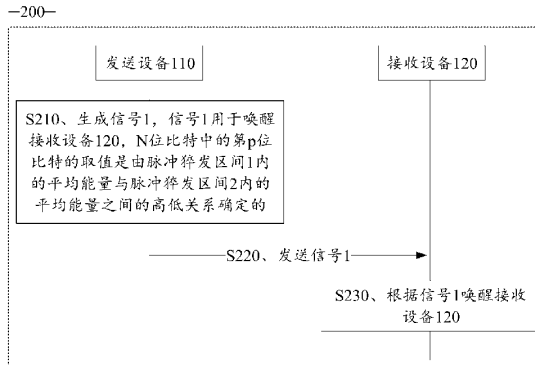


图 2

- 110 Sending device
120 Receiving device
S210 Generate a signal 1, wherein the signal 1 is used for waking up a receiving device 120, and the value of a pth bit among N bits is determined by comparing the average energy within a pulse burst interval 1 and the average energy within a pulse burst interval 2
S220 Send the signal 1
S230 On the basis of the signal 1, wake up the receiving device 120

(57) Abstract: The present application provides a communication method and apparatus, which can be applied to a wireless personal area network system based on ultra-wideband, and comprise 802.15 series protocols, such as the 802.15.4a protocol, the 802.15.4z protocol or the 802.15.4ab protocol, and may also support next-generation Wi-Fi protocols of IEEE 802.11ax, such as 802.11be, Wi-Fi 7, or extremely high throughput, as well as 802.11b. The method comprises: a sending device sends a first signal to a receiving device, wherein the first signal is used for indicating N bits, and the value of each bit is determined by comparing the average energies within

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IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ,
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MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA,
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SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。

- (84) 指定国(除另有指明, 要求每一种可提供的地区
保护): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ,
NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚
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PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN,
TD, TG)。

本国际公布:

— 包括国际检索报告(条约第21条(3))。

two pulse burst intervals; and on the basis of the first signal, the receiving device determines to wake up the receiving device. By using two pulse burst intervals to transmit one piece of bit information, the receiving device can correctly demodulate the first signal, thereby facilitating effective wake-up of the receiving device.

(57) 摘要: 本申请提供了一种通信方法与装置, 其可以应用于基于超宽带的无线个人局域网系统, 包括802.15系列协议, 例如802.15.4a协议、802.15.4z协议或802.15.4ab协议等, 还可以支持IEEE 802.11ax下一代Wi-Fi协议, 如802.11be, Wi-Fi 7或超高吞吐量, 再如802.11b。该方法包括: 发送设备向接收设备发送第一信号, 第一信号用于指示N位比特, 每位比特的取值是由两个脉冲猝发区间内的平均能量之间的高低关系确定的, 接收设备根据第一信号确定唤醒接收设备。通过采用两个脉冲猝发区间来传输一位比特信息, 接收设备可以正确解调第一信号, 进而有助于有效唤醒接收设备。