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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, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ,

(54) Title: SLAVE DEVICE, MASTER DEVICE, COMMUNICATION SYSTEM, AND DATA TRANSMISSION METHOD

(54) 发明名称: 从设备、主设备、通信系统和数据传输方法

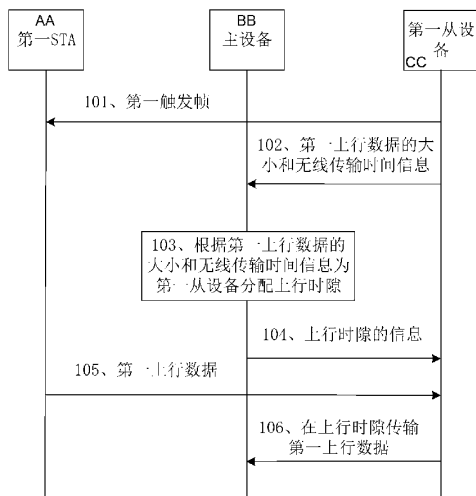


图 1

101 First trigger frame
102 Size of first uplink data and wireless transmission time information
103 Allocate an uplink time slot for the first slave device according to the size of the first uplink data and the wireless transmission time information
104 Information of the uplink time slot
105 First uplink data
106 Transmit the first uplink data in the uplink time slot
AA First STA
BB Master device
CC First slave device

(57) Abstract: The present application provides a first slave device, applied to the field of wireless communications. The first slave device comprises a receiver and a transmitter. The transmitter is used for sending a first trigger frame to a first STA. The first trigger frame is used for instructing the first STA to upload first uplink data. The first slave device is associated with the first STA. Before receiving the first uplink data, the transmitter is further used for sending the size of target data to a master device. The target data comprises the first uplink data. The receiver is used for receiving information of an uplink time slot from the master device, wherein the uplink time slot is obtained according to the size of the target data. The receiver is further used for receiving the first uplink data from the first STA. The transmitter is further used for transmitting the first uplink data to the master device in the uplink time slot. According to the present application, time slot allocation of next-stage scheduling is performed by means of the first uplink data that is not received, and thus, uplink delay of an STA can be reduced.

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IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。

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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: 本申请提供了一种第一从设备, 应用于无线通信领域。第一从设备包括接收器和发射器。发射器用于向第一STA发送第一触发帧。第一触发帧用于指示第一STA上传第一上行数据。第一从设备和第一STA关联。在接收第一上行数据之前, 发射器还用于向主设备发送目标数据的大小。目标数据包括第一上行数据。接收器用于从主设备接收上行时隙的信息, 上行时隙是根据目标数据的大小得到的。接收器还用于从第一STA接收第一上行数据。发射器还用于在上行时隙向主设备传输第一上行数据。在本申请中, 通过还未接收到的第一上行数据进行下一级调度的时隙分配, 可以降低STA的上行时延。