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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, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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))。

(54) Title: CROSS-CARRIER SCHEDULING BASED DATA TRANSMISSION METHOD, USER EQUIPMENT AND BASE STATION

(54) 发明名称: 基于跨载波调度的数据传输方法、用户设备和基站

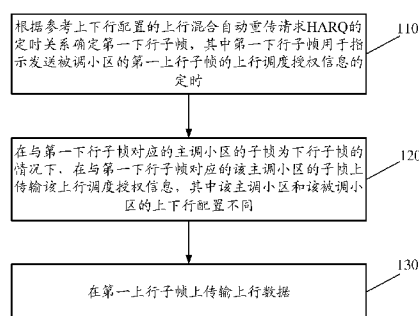


图1 / Fig. 1

110 DETERMINING A FIRST DOWNLINK SUBFRAME ACCORDING TO THE TIMING RELATIONSHIP OF AN UPLINK HYBRID AUTOMATIC REPEAT REQUEST (HARQ) IN REFERENCE UPLINK AND DOWNLINK CONFIGURATION, THE FIRST DOWNLINK SUBFRAME BEING USED FOR INDICATING THE TIMING FOR SENDING UPLINK SCHEDULING GRANT INFORMATION ABOUT A FIRST UPLINK SUBFRAME OF A SCHEDULED CELL

120 IN THE CONDITION THAT A SUBFRAME OF A SCHEDULING CELL CORRESPONDING TO THE FIRST DOWNLINK SUBFRAME IS A DOWNLINK SUBFRAME, TRANSMITTING THE UPLINK SCHEDULING GRANT INFORMATION OVER THE SUBFRAME OF THE SCHEDULING CELL CORRESPONDING TO THE FIRST DOWNLINK SUBFRAME, THE SCHEDULING CELL AND THE SCHEDULED CELL HAVING DIFFERENT UPLINK AND DOWNLINK CONFIGURATIONS

130 TRANSMITTING THE UPLINK DATA OVER THE FIRST UPLINK SUBFRAME

(57) Abstract: Provided are a cross-carrier scheduling based data transmission method, user equipment and a base station. The method comprises: determining a first downlink subframe according to the timing relationship of an uplink hybrid automatic repeat request (HARQ) in reference uplink and downlink configuration, the first downlink subframe being used for indicating the timing for sending uplink scheduling grant information about a first uplink subframe of a scheduled cell; and in the condition that a subframe of a scheduling cell corresponding to the first downlink subframe is a downlink subframe, transmitting the uplink scheduling grant information over the subframe of the scheduling cell corresponding to the first downlink subframe, the scheduling cell and the scheduled cell having different uplink and downlink configurations, and receiving and sending the uplink data over the first uplink subframe. The present invention can effectively achieve cross-carrier scheduling in the condition that the scheduling cell and the scheduled cell have different uplink and downlink configurations.

(57) 摘要:

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本发明实施例提供了一种基于跨载波调度的数据传输方法、用户设备和基站。该方法包括：根据参考上下行配置的上行混合自动重传请求 HARQ 的定时关系确定第一下行子帧，其中所述第一下行子帧用于指示发送被调小区的第一上行子帧的上行调度授权信息的定时；在与所述第一下行子帧对应的主调小区的子帧为下行子帧的情况下，在与所述第一下行子帧对应的所述主调小区的子帧上传输所述上行调度授权信息，其中所述主调小区和所述被调小区的上下行配置不同，并且在所述第一上行子帧上接收或发送所述上行数据。本发明能够在所述主调小区和所述被调小区的上下行配置不同的情况下有效实现跨载波调度。