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(54) **Title**: CHANNEL BOUNDARY LOCATING METHOD, BASE STATION AND USER EQUIPMENT

(54) **发明名称** : 信道边界的定位方法、基站和用户设备

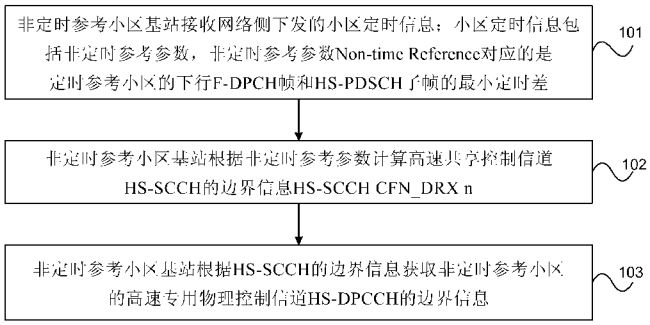

图 1 / FIG.1

101 RECEIVING, BY A NON-TIMING REFERENCE CELL BASE STATION, CELL TIMING INFORMATION ISSUED BY A NETWORK SIDE, WHEREIN THE CELL TIMING INFORMATION COMPRISES NON-TIMING REFERENCE PARAMETER WHICH CORRESPONDS TO THE MINIMAL TIMING DIFFERENCE OF A DOWNLINK F-DPCH FRAME AND AN HS-PDSCH SUB-FRAME OF A TIMING REFERENCE CELL

102 CALCULATING, BY THE NON-TIMING REFERENCE CELL BASE STATION, BOUNDARY INFORMATION (HS-SCCH CFN_DRX N) ABOUT A HIGH SPEED SHARED CONTROL CHANNEL (HS-SCCH) ACCORDING TO THE NON-TIMING REFERENCE PARAMETER

103 ACQUIRING BOUNDARY INFORMATION ABOUT A HIGH-SPEED DEDICATED PHYSICAL CONTROL CHANNEL (HS-DPCCH) OF THE NON-TIMING REFERENCE CELL ACCORDING TO THE BOUNDARY INFORMATION ABOUT THE HS-SCCH

(57) **Abstract**: Provided are a channel boundary locating method, a base station and a user equipment. The channel boundary locating method of the present invention comprises: receiving, by a non-timing reference cell base station, cell timing information issued by a network side, wherein the cell timing information comprises non-timing reference parameter which corresponds to the minimal timing difference of a downlink F-DPCH frame and an HS-PDSCH sub-frame of a timing reference cell; calculating, by the non-timing reference cell base station, boundary information about a high speed shared control channel (HS-SCCH) according to the non-timing reference parameter; and acquiring boundary information about a high-speed dedicated physical control channel (HS-DPCCH) of the non-timing reference cell according to the boundary information about the HS-SCCH. The embodiments of the present invention may accurately locate the boundary of the HS-DPCCH, so that the non-timing reference cell may acquire correct data transmission feedback information and CQI information, and the reliability of downlink data transmission is improved.

(57) **摘要**:

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本国际公布:

— 包括国际检索报告(条约第 21 条(3))。

本发明实施例提供一种信道边界的定位方法、基站和用户设备。本发明信道边界的定位方法，包括：非定时参考小区基站接收网络侧下发的小区定时信息；所述小区定时信息包括非定时参考参数，非定时参考参数对应的是定时参考小区的下行 F-DPCH 帧和 HS-PDSCH 子帧的最小定时差；非定时参考小区基站根据非定时参考参数计算高速共享控制信道 HS-SCCH 的边界信息；根据 HS-SCCH 的边界信息获取非定时参考小区的高速专用物理控制信道 HS-DPCCH 的边界信息。本发明实施例能够对 HS-DPCCH 的边界准确定位，这样使得非定时参考小区能够获知正确的数据传输反馈信息和 CQI 信息，提升了下行数据的传输的可靠性。