

(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

(43) 国际公布日
2023 年 2 月 9 日 (09.02.2023)



(10) 国际公布号
WO 2023/010473 A1

(51) 国际专利分类号:
H04W 72/04 (2009.01)

(21) 国际申请号: PCT/CN2021/111038

(22) 国际申请日: 2021 年 8 月 5 日 (05.08.2021)

(25) 申请语言: 中文

(26) 公布语言: 中文

(71) 申请人: 北京小米移动软件有限公司 (BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.) [CN/CN]; 中国北京市海淀区西二旗中路33号院6号楼8层018号, Beijing 100085 (CN)。

(72) 发明人: 李明菊 (LI, Mingju); 中国北京市海淀区西二旗中路33号院6号楼8层018号, Beijing 100085 (CN)。

(74) 代理人: 北京法胜知识产权代理有限公司 (FASHENG INTELLECTUAL PROPERTY COMPANY, LTD.); 中国北京市海淀区北洼路45号1号楼2层202室, Beijing 100142 (CN)。

(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, 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。

(84) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, 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)。

(54) Title: BEAM APPLICATION METHOD AND APPARATUS

(54) 发明名称: 一种波束应用的方法及其装置

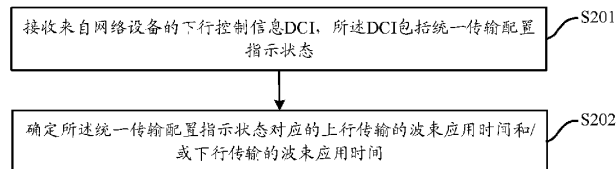


图 2

- S201 Receive downlink control information (DCI) from a network device, wherein the DCI comprises a unified transmission configuration indication state
- S202 Determine a beam application time of uplink transmission and/or a beam application time of downlink transmission, which correspond(s) to the unified transmission configuration indication state

(57) Abstract: Disclosed in the embodiments of the present application are a beam application method and apparatus, which can be applied to systems such as a long term evolution (LTE) system, a 5th generation (5G) mobile communication system and a 5G new radio (NR) system. The method comprises: receiving downlink control information (DCI) from a network device, wherein the DCI comprises a unified transmission configuration indication state; and determining a beam application time of uplink transmission and/or a beam application time of downlink transmission, which correspond(s) to the unified transmission configuration indication state. By means of the embodiments of the present application, a corresponding beam application time of uplink transmission and/or a corresponding beam application time of downlink transmission can be determined according to DCI, and beam application can be performed. In this way, it is ensured that beams of a network device and a terminal device are consistent, thereby improving the transmission performance.

[见续页]

本国际公布：

— 包括国际检索报告(条约第21条(3))。

(57) 摘要：本申请实施例公开了一种波束应用的方法及其装置，可以应用于长期演进(long term evolution, LTE)系统、第五代(5th generation, 5G)移动通信系统、5G新空口(new radio, NR)系统等系统中，该方法包括：接收来自网络设备的下行控制信息DCI，所述DCI包括统一传输配置指示状态；确定所述统一传输配置指示状态对应的上行传输的波束应用时间和/或下行传输的波束应用时间。通过实施本申请实施例，可以根据所述下行控制信息DCI确定对应的上行传输的波束应用时间和/或下行传输的波束应用时间，并进行波束应用。从而保证所述网络设备和所述终端设备的波束一致，提高传输性能。