

(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
2025 年 7 月 17 日 (17.07.2025)



(10) 国际公布号
WO 2025/148743 A1

(51) 国际专利分类号:
H04L 5/00 (2006.01)

(21) 国际申请号: PCT/CN2024/143990

(22) 国际申请日: 2024 年 12 月 30 日 (30.12.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202410037213.5 2024 年 1 月 8 日 (08.01.2024) CN

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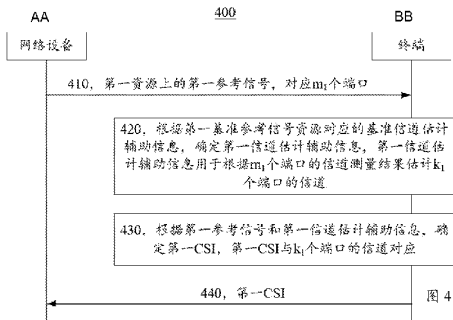
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(84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,

(54) Title: COMMUNICATION METHOD AND DEVICE, AND SYSTEM

(54) 发明名称: 通信方法及装置、系统



410 First reference signals on a first resource, corresponding to m_1 ports
420 According to baseline channel estimation auxiliary information corresponding to a first baseline reference signal resource, determine first channel estimation auxiliary information, the first channel estimation auxiliary information being used for estimating channels of k_1 ports on the basis of channel measurement results of the m_1 ports
430 According to the first reference signals and the first channel estimation auxiliary information, determine first CSI, the first CSI corresponding to the channels of the k_1 ports
440 First CSI
AA Network device
BB Terminal

(57) Abstract: Provided are a communication method and device, and a system, which support the number of reference signal ports to change flexibly in a scenario in which RF channels are dynamically switched off. A network device sends reference signals of m_1 ports on some or all resources among baseline reference signal resources; the baseline reference signal resources can be used for transmitting reference signals of at most M ports and supports estimation of channels of at most K ports, wherein the m_1 ports of the reference signals are from the M ports. According to baseline channel estimation auxiliary information and the reference signals, a terminal performs channel estimation and sends CSI. In the method, $m_1 \leq k_1 \leq K$, and $m_1 \leq M \leq K$. That is, the terminal can use the baseline channel estimation auxiliary information to perform channel estimation on the basis of reference signals of a few ports so as to obtain channels of many ports. As the number of reference signal ports sent by an air interface is reduced, and taking into account port multiplexing, air interface overhead caused by reference signals is also reduced.

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HU, IE, IS, IT, LT, LU, LV, MC, ME, 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)。

本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 提供一种通信方法及装置、系统, 可以支持参考信号的端口数量在RF通道动态关断的场景下灵活变化。网络设备在基准参考信号资源中的部分或全部资源上发送 m_1 个端口的参考信号, 该基准参考信号资源可用于传输最多 M 个端口的参考信号, 且支持估计最大 K 个端口的信道, 该参考信号的 m_1 个端口来自 M 个端口。终端可以根据基准信道估计辅助信息和参考信号, 进行信道估计并发送CSI。该方法中, $m_1 \leq k_1 \leq K$, $m_1 \leq M \leq K$ 。即, 终端可以利用基准信道估计辅助信息, 根据少数端口的参考信号进行信道估计, 得到多数端口的信道。随着空口发送的参考信号的端口数的减少, 再考虑端口复用, 参考信号带来的空口开销也得以减小。