

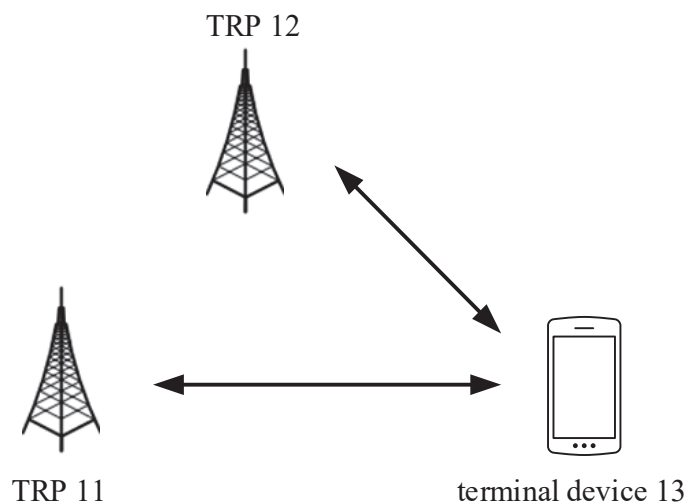


FIG. 1

in response to the terminal device configuring multiple transmission and reception point (multi-TRP) based uplink simultaneous multi-panel transmission (STxMP) for a physical uplink shared channel (PUSCH) on a first transmission slot corresponding to the PUSCH carrying a medium access control control element (MAC CE) PHR report, or on a slot meeting a timeline requirement, and an actual PUSCH transmission being a transmission from a single panel towards a single TRP, at least one actual power headroom (PH) is calculated, and a power headroom report (PHR) is reported based on a maximum power configuration of the terminal device

201

FIG. 2

in response to the terminal device configuring multiple transmission and reception point (multi-TRP) based uplink simultaneous multi-panel transmission (STxMP) for a PUSCH on a first transmission slot corresponding to the PUSCH carrying a MAC CE PHR report, or on a slot meeting a timeline requirement, an actual PUSCH transmission being a transmission from a single panel towards a single TRP, and a maximum power configuration of the terminal device being a maximum transmission power P_{cmx} for the terminal device, at least one actual PH is calculated, and a PHR is reported based on the P_{cmx}

301

FIG. 3

in response to the terminal device configuring multiple transmission and reception point (multi-TRP) based uplink simultaneous multi-panel transmission (STxMP) for a PUSCH on a first transmission slot corresponding to the PUSCH carrying a MAC CE PHR report, or on a slot meeting a timeline requirement, an actual PUSCH transmission being a transmission from a single panel towards a single TRP, and a maximum power configuration of the terminal device being maximum transmission powers $P_{\text{max},p}$ for different panels, at least one actual PH is calculated, and a PHR is reported based on a maximum transmission power $P_{\text{max},p}$ corresponding to at least one panel, where p is a positive integer less than or equal to N , and N is a number of the panels of the terminal device

401

FIG. 4

in response to the terminal device configuring multi-TRP uplink STxMP for a PUSCH on a first transmission slot corresponding to the PUSCH carrying a MAC CE PHR report, or on a slot meeting a timeline requirement, an actual PUSCH transmission being a transmission from a single panel towards a single TRP, and a maximum power configuration of the terminal device being $P_{\text{max},p}$ corresponding to each panel and P_{max} , at least one actual PH is calculated, and a PHR is reported jointly based on the P_{max} , the $P_{\text{max},p}$

501

FIG. 5

indication information transmitted by a network device is received, where the indication information is used to indicate a PHR reporting manner

601

in response to the terminal device configuring multiple transmission and reception point (multi-TRP) based uplink simultaneous multi-panel transmission (STxMP) for a PUSCH on a first transmission slot corresponding to the PUSCH carrying a MAC CE PHR report, or on a slot meeting a timeline requirement, and an actual PUSCH transmission being a transmission from a single panel towards a single TRP, at least one actual PH is calculated, and a power headroom report (PHR) is calculated and reported based on a maximum power configuration of the terminal device

602

FIG. 6

in response to a terminal device configuring multiple transmission and reception point (multi-TRP) based uplink simultaneous multi-panel transmission (PUSCH) on a first transmission slot corresponding to the PUSCH carrying a medium access control control element (MAC CE) PHR report, or on a slot meeting a timeline requirement, and an actual PUSCH transmission being a transmission from a single panel towards a single TRP, it is determined that a power headroom report (PHR) reported by the terminal device is calculated based on a maximum power configuration of the terminal device and at least one actual PH

701

FIG. 7

in response to a terminal device configuring multi-TRP uplink STxMP for a PUSCH on a first transmission slot corresponding to the PUSCH carrying a MAC CE PHR report, or on a slot meeting a timeline requirement, an actual PUSCH transmission being a transmission from a single panel towards a single TRP, and a maximum power configuration of the terminal device is a maximum transmission power P_{cmx} for the terminal device, it is determined that a PHR reported by the terminal device is a PHR calculated based on the P_{cmx} and at least one actual PH

801

FIG. 8

in response to a terminal device configuring multiple transmission and reception point (multi-TRP) based uplink simultaneous multi-panel transmission (STxMP) for a PUSCH on a first transmission slot corresponding to the PUSCH carrying a MAC CE PHR report, or on a slot meeting a timeline requirement, an actual PUSCH transmission being a transmission from a single panel towards a single TRP, and a maximum power configuration of the terminal device is maximum transmission powers $P_{\text{cmx},p}$ corresponding to different panels, it is determined that a PHR reported by the terminal device is a PHR calculated based on a maximum transmission power $P_{\text{cmx},p}$ corresponding to at least one panel and at least one actual PH, where p is a positive integer less than or equal to N , and N is a number of the panels of the terminal device

901

FIG. 9

in response to a terminal device configuring multi-TRP uplink STxMP for a PUSCH on a first transmission slot corresponding to the PUSCH carrying a MAC CE PHR report, or on a slot meeting a timeline requirement, an actual PUSCH transmission being a transmission from a single panel towards a single TRP, and a maximum power configuration of the terminal device is a maximum transmission power $P_{\text{cmx},p}$ corresponding to each panel and P_{cmx} , it is determined that a PHR reported by the terminal device is calculated jointly based on the P_{cmx} , the $P_{\text{cmx},p}$ and the at least one actual PH

1001

FIG. 10

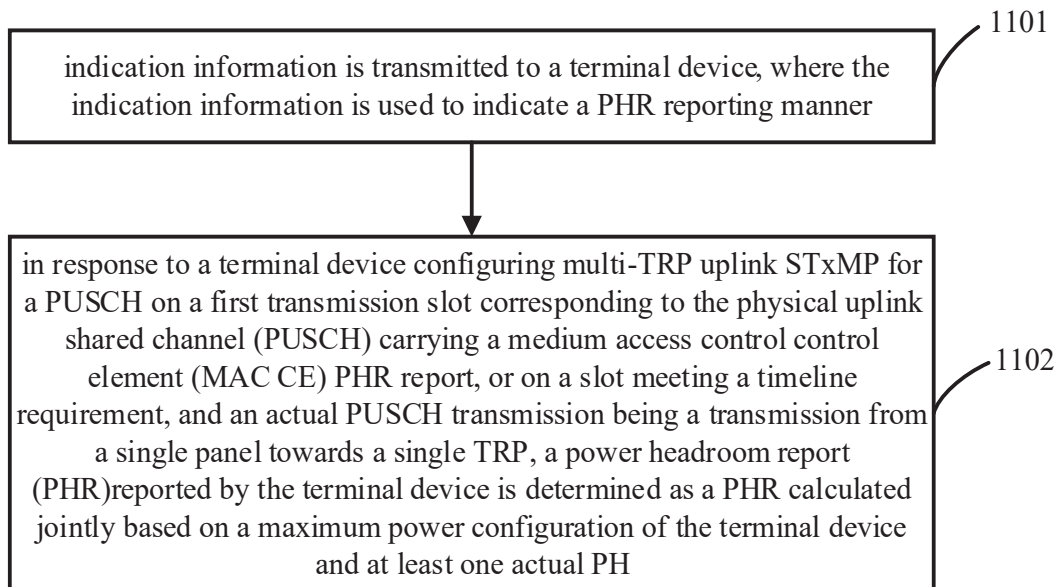


FIG. 11

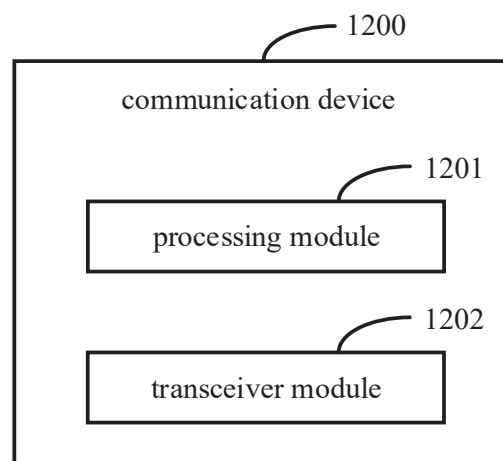


FIG. 12

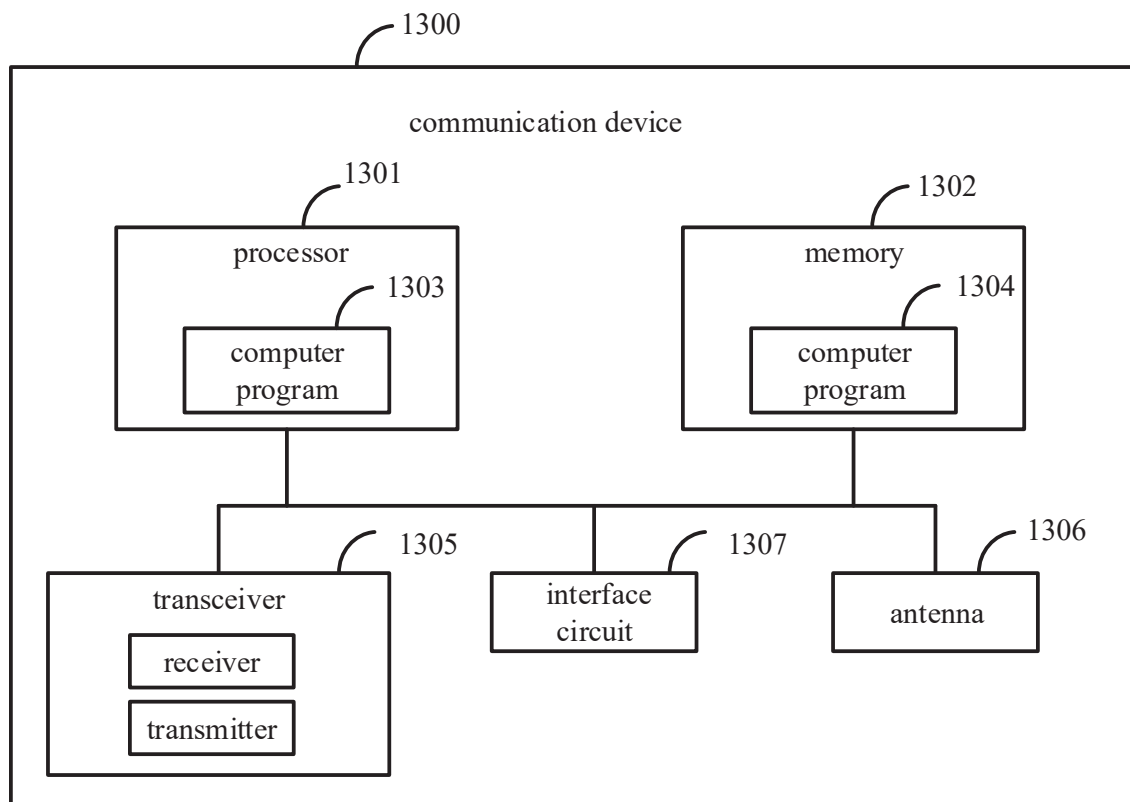


FIG. 13

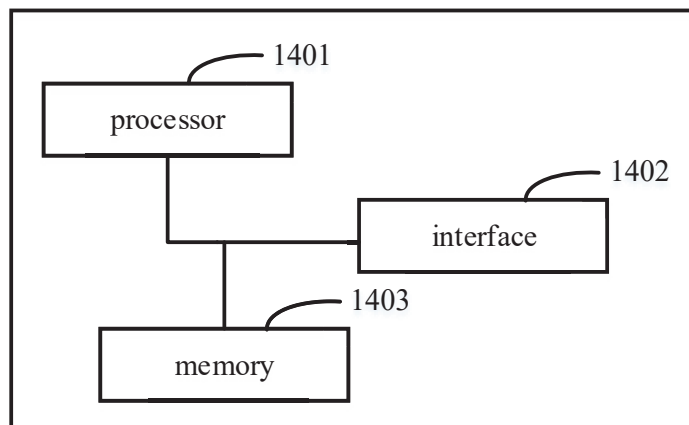


FIG. 14