WHAT IS CLAIMED IS:

1. A method for open-loop power control of an uplink configured grant (CG) physical uplink shared channel (PUSCH), performed by a network device, the method comprising:

configuring and determining open loop power boosting parameters corresponding to one or more transmission reception points (TRPs); and

sending indication information, wherein the indication information is configured to indicate open loop power boosting parameters for a CG PUSCH configuration adopted by a single TRP independent transmission or a multi-TRP cooperative transmission of a transport block (TB).

2. The method according to claim 1, wherein the CG PUSCH configuration comprises a CG PUSCH type 1 and a CG PUSCH type 2.

3. The method according to claim 1, wherein configuring and determining the open loop power boosting parameters corresponding to the one or more TRPs comprises:

configuring and determining the open loop power boosting parameters corresponding to ~~of~~ the one or more TRPs based on radio resource control (RRC) configuration information;

wherein the RRC configuration information is configured to indicate respective open loop power boosting parameters for CG PUSCH configurations adopted by transmission of the TB in a single TRP direction or a plurality of different TRP directions.

4. The method according to claim 3, wherein the RRC configuration information is configured to indicate different open loop power boosting parameters for each of one or more CG PUSCH configurations, the different open loop power boosting parameters are the open loop power boosting parameters corresponding to the one or more TRPs, and the one or more CG PUSCH configurations are CG PUSCH configurations adopted by transmission of a same TB in one or more different TRP directions.

5. The method according to claim 4, wherein

a single CG PUSCH configuration adopted by transmission of the same TB in the one or more different TRP directions is associated with a power control parameter set via sounding reference signal resource indication (SRI) indication information in downlink control information (DCI), and power boosting parameters in the one or more TRP directions are correspondingly obtained, or

a single CG PUSCH configuration adopted by transmission of the same TB in the one or more different TRP directions is associated with power control parameters of different TRPs based on a predefined rule, and power boosting parameters in the one or more TRP directions

are correspondingly obtained.

6. The method according to claim 5, wherein the single CG PUSCH configuration is associated with the power control parameters using at least one ~~way~~ of:

in the presence of an SRI indication field, correspondingly associating power control parameters of one or more TRPs with the single CG PUSCH configuration via SRI indication information corresponding to one or more TRPs and indicated by an SRI codepoint; or

in the presence of a plurality of SRI indication fields, correspondingly associating power control parameters of one or more TRPs with the single CG PUSCH configuration via each SRI indication information corresponding to different TRPs.

~~7. The method according to claim 4, wherein the plurality of CG PUSCH configurations adopted by transmission of the TB in the plurality of different TRP directions are associated with power control parameters in the TRP transmission direction via SRI indication information corresponding to each CG configuration, or are associated with power control parameters of the TRP based on a predefined rule.~~

~~8~~7. The method according to claim 3, wherein the RRC configuration information configures a plurality of different power control parameter sets, and the plurality of different power control parameter sets are associated with power control parameters of different TRPs.

~~9~~8. The method according to claim 1, wherein sending the indication information comprises:

sending the indication information via group-common downlink control information (GC-DCI).

~~10. The method according to claim 9, wherein in response to the GC-DCI comprising a first information field,~~

~~the first information field is configured to indicate different open loop power boosting parameters corresponding to multi-TRP sent towards different TRPs, and the multi-TRP sent towards the different TRPs is indicated by an SRI indication in DCI, and the open loop power boosting parameters are applicable to all CG PUSCH configurations adopted by the multi-TRP cooperative transmission of the TB.~~

~~11. The method according to claim 9, wherein in response to the GC-DCI comprising a second information field,~~

~~the second information field is configured to indicate PUSCH open loop power boosting parameters in different TRP transmission directions in SRI indication information corresponding to one or more CG PUSCH configurations, or to indicate PUSCH open loop~~

~~power boosting parameters in different TRP transmission directions corresponding to all CG PUSCH configurations; and~~

~~the open loop power boosting parameters are applicable to a single CG PUSCH configuration.~~

~~12. The method according to claim 9, wherein in response to the absence of an SRI indication field in the DCI, the open loop power boosting parameters of a multi-TRP sent towards different TRPs have a pre-defined association indication relationship with the CG PUSCH configuration.~~

~~13~~9. The method according to claim ~~9~~8, wherein the GC-DCI is configured to indicate a time-frequency resource location where a time-frequency resource conflict occurs between ~~the~~ a terminal and other terminals~~users~~.

~~14~~10. A method for open-loop power control of an uplink configured grant (CG) physical uplink shared channel (PUSCH), performed by a terminal, comprising:

receiving indication information, wherein the indication information is configured to indicate open loop power boosting parameters for a CG PUSCH configuration adopted by a single transmission reception point (TRP) independent transmission or a multi-TRP cooperative transmission of a transport block (TB); and

determining the open loop power boosting parameters for the CG PUSCH configuration adopted by the single TRP independent transmission or the multi-TRP cooperative transmission of the TB.

~~15~~11. The method according to claim ~~14~~10, wherein the CG PUSCH configuration comprises a CG PUSCH type 1 and a CG PUSCH type 2.

~~16~~12. The method according to claim ~~14~~10, wherein the open loop power boosting parameters are determined based on open loop power boosting parameters corresponding to one or more TRPs, and the open loop power boosting parameters corresponding to the one or more TRPs are configured based on radio resource control (RRC) configuration information;

wherein the RRC configuration information is configured to indicate respective open loop power boosting parameters for CG PUSCH configurations adopted by transmission of the TB in a single TRP direction or a plurality of different TRP directions.

~~17~~13. The method according to claim ~~16~~12, wherein the RRC configuration information is configured to indicate different open loop power boosting parameters for each of one or more CG PUSCH configurations, the different open loop power boosting parameters are the open loop power boosting parameters corresponding to the one or more TRPs, and the one or more

CG PUSCH configurations are CG PUSCH configurations adopted by transmission of a same TB in one or more different TRP directions.

~~18~~14. The method according to claim ~~17~~13, wherein a single CG PUSCH configuration adopted by the transmission of the same TB in the one or more different TRP directions is associated with a power control parameter set via sounding reference signal resource indication (SRI) indication information in downlink control information (DCI), and power boosting parameters in the one or more TRP directions are correspondingly obtained, or,

a single CG PUSCH configuration adopted by transmission of the same TB in the one or more different TRP directions is associated with power control parameters of different TRPs based on a predefined rule, and power boosting parameters in the one or more TRP directions are correspondingly obtained.

~~19~~15. The method according to claim ~~18~~14, wherein the single CG PUSCH configuration is associated with the power control parameters using at least one ~~way~~ of:

in the presence of an SRI indication field, correspondingly associating power control parameters of one or more TRPs with the single CG PUSCH configuration via SRI indication information corresponding to one or more TRPs and indicated by an SRI codepoint; or

in the presence of a plurality of SRI indication fields, correspondingly associating power control parameters of one or more TRPs with the single CG PUSCH configuration via each SRI indication information corresponding to different TRPs.

~~20. The method according to claim 17, wherein the plurality of CG PUSCH configurations adopted by transmission of the TB in the plurality of different TRP directions are associated with power control parameters in the TRP transmission direction via SRI indication information corresponding to each CG configuration, or are associated with power control parameters of the TRP based on a predefined rule.~~

~~21~~16. The method according to claim ~~16~~12, wherein the RRC configuration information configures a plurality of different power control parameter sets, and the plurality of different power control parameter sets are associated with power control parameters of different TRPs.

~~22~~17. The method according to claim ~~14~~10, wherein receiving the indication information comprises:

receiving the indication information via group common downlink control information (GC-DCI).

~~23. The method according to claim 22, wherein in response to the GC-DCI comprising a first information field,~~

~~the first information field is configured to indicate different open loop power boosting parameters corresponding to multi-TRP sent towards different TRPs, the multi-TRP sent towards different TRPs is indicated by an SRI indication in DCI, and the open loop power boosting parameters are applicable to all CG PUSCH configurations adopted by the multi-TRP cooperative transmission of the TB.~~

~~24. The method according to claim 22, wherein in response to the GC-DCI comprising a second information field,~~

~~the second information field is configured to indicate open loop power boosting parameters in different TRP transmission directions in SRI indication information corresponding to one or more CG PUSCH configurations, or configured to indicate open loop power boosting parameters in different TRP transmission directions corresponding to all CG PUSCH configurations; and~~

~~the open loop power boosting parameters are applicable to a single CG PUSCH configuration.~~

~~25. The method according to claim 22, wherein in response to the absence of an SRI indication field in the DCI, the open loop power boosting parameters of a multi-TRP sent towards different TRPs have a pre-defined association indication relationship with the CG PUSCH configuration.~~

~~26~~18. The method according to claim ~~22~~17, wherein the GC-DCI is configured to indicate a time-frequency resource location where a time-frequency resource conflict occurs between the terminal and other terminals~~users~~.

~~27. An apparatus for open-loop power control of an uplink configured grant (CG)physical uplink shared channel (PUSCH), performed by a network device, comprising:~~

~~a processing unit, configured to configure and determine open loop power boosting parameters corresponding to one or more transmission reception points (TRPs); and~~

~~a transmission unit, configured to send indication information, wherein the indication information is configured to indicate open loop power boosting parameters for a CG PUSCH configuration adopted by a single TRP independent transmission or a multi-TRP cooperative transmission of a transport block (TB).~~

~~28. An apparatus for open-loop power control of an uplink configured grant (CG)physical uplink shared channel (PUSCH), performed by a terminal, comprising:~~

~~a receiving unit, configured to receive indication information, wherein the indication information is configured to indicate open loop power boosting parameters for a CG PUSCH~~

~~configuration adopted by a single TRP independent transmission or a multi-TRP cooperative transmission of a transport block (TB); and~~

~~a processing unit, configured to determine the open loop power boosting parameters for the CG PUSCH configuration adopted by the single TRP independent transmission or the multi-TRP cooperative transmission of the TB.~~

~~29~~19. A device for open-loop power control of an uplink configured grant (CG) physical uplink shared channel (PUSCH), comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein, the processor is configured to perform the method of any one of claims 1 to ~~13~~9, or the method of any one of claims ~~14~~ 10 to ~~26~~18.

~~30. A storage instruction stored with instructions, wherein when the instructions in the storage medium are executed by a processor of a network device, the network device is caused to perform the method of any one of claims 1 to 13, or when the instructions in the storage medium are executed by a processor of a terminal, the terminal is caused to perform the method of any one of claims 14 to 26.~~