## CLAIMS

1. A power control method, comprising:

receiving, by a terminal device, first high-layer signaling sent by a network device, wherein the first high-layer signaling is to configure open loop power control parameters corresponding to a plurality of Sounding Reference Signal Resource Indicator (SRI) information, the plurality of SRI information comprising first SRI information; wherein a first open loop power control parameter associated with the first SRI information is used to calculate transmit power of a Physical Uplink Shared Channel (PUSCH) on a Bandwidth Part (BWP) according to the following formula:

$$P_{\mathrm{PUSCH},f,c}(i,j,q_d,l)=\min\left\{\begin{array}{l}P_{\mathrm{CMAX},f,c}(i),\\ P_{\mathrm{O_PUSCH},f,c}(j)+10\log_{10}(2^{\mu}\cdot M_{\mathrm{RB},f,c}^{\mathrm{PUSCH}}(i))+\alpha_{f,c}(j)\cdot PL_{f,c}(q_d)+\Delta_{\mathrm{TF},f,c}(i)+f_{f,c}(i,l)\end{array}\right\}$$

wherein i is an index of PUSCH transmission, j is an index of the first open loop power control parameter, $q_d$ is an index of a Reference Signal (RS) for path loss estimation, $M_{\mathrm{PUSCH},c}(i)$ is a number of Resource Blocks (RBs) occupied by the PUSCH, $P_{\mathrm{CMAX},f,c}(i)$ is maximum transmit power of the terminal device on a serving cell c, an objective received power $P_{\mathrm{O_PUSCH},f,c}(j)$ and a path loss factor $\alpha_{f,c}(j)$ are the first open loop power control parameter, $PL_{f,c}(q_d)$ is a path loss value, measured by the terminal device, from the serving cell c to the terminal device, $\Delta_{\mathrm{TF},f,c}(i)$ is a value determined by the terminal device according to a ratio of a number of bits of uplink data transmitted by the PUSCH to a number of resource elements in the PUSCH, $f_{f,c}(i,l)$ is a first closed loop power control adjustment factor, and $l$ is an index of a closed loop power control process; and the open loop power control parameters comprise the first open loop power control parameter;

resetting, by the terminal device, the first closed loop adjustment factor $f_{f,c}(i,l)$ associated with the first SRI information, when the first open loop power control parameter associated with the first SRI information is reconfigured, wherein the first closed loop adjustment factor is determined by the terminal device according

to a value of the index $l$ of the closed loop power control process which is associated with the first SRI information and is preconfigured by the network device; and

determining, by the terminal device, the transmit power of the PUSCH according to the reset first closed loop adjustment factor.

2. The method of claim 1, wherein the first SRI information is comprised in Downlink Control Information (DCI) for scheduling the PUSCH.

3. The method of claim 1 or 2, wherein resetting the first closed loop adjustment factor associated with the first SRI information comprises:

when an accumulation mode is enabled for closed loop power control of the PUSCH, resetting, by the terminal device, the first closed loop adjustment factor.

4. The method of claim 1 or 2, wherein determining, by the terminal device, the transmit power of the PUSCH according to the reset first closed loop adjustment factor comprises:

determining, by the terminal device, an updated first closed loop adjustment factor according to the reset first closed loop adjustment factor and a latest received Transmit Power Control (TPC) command; and

determining, by the terminal device, the transmit power of the PUSCH according to the updated first closed loop adjustment factor.

5. The method of claim 1 or 2, further comprising:

sending, by the terminal device, the PUSCH according to the determined transmit power.

6. A power control method, comprising:

sending, by a network device, first high-layer signaling to a terminal device, wherein the first high-layer signaling is to preconfigure, for the terminal device, open loop power control parameters corresponding to a plurality of Sounding Reference Signal Resource Indicator (SRI) information, the plurality of SRI information comprising first SRI information; wherein a first open loop power control parameter

associated with the first SRI information is used to calculate transmit power of a Physical Uplink Shared Channel (PUSCH) on a Bandwidth Part (BWP) according to the following formula:

$$P_{\mathrm{PUSCH},f,c}(i,j,q_d,l)=\min\left\{\begin{array}{l}P_{\mathrm{CMAX},f,c}(i),\\ P_{\mathrm{O_PUSCH},f,c}(j)+10\log_{10}(2^{\mu}\cdot M_{\mathrm{RB},f,c}^{\mathrm{PUSCH}}(i))+\alpha_{f,c}(j)\cdot PL_{f,c}(q_d)+\Delta_{\mathrm{TF},f,c}(i)+f_{f,c}(i,l)\end{array}\right\}$$

wherein i is an index of PUSCH transmission, j is an index of the first open loop power control parameter, $q_d$ is an index of a Reference Signal (RS) for path loss estimation, $M_{\mathrm{PUSCH,c}}(i)$ is a number of Resource Blocks (RBs) occupied by the PUSCH, $P_{\mathrm{CMAX},f,c}(i)$ is maximum transmit power of the terminal device on a serving cell c, an objective received power $P_{\mathrm{O_PUSCH},f,c}(j)$ and a path loss factor $\alpha_{f,c}(j)$ are the first open loop power control parameter, $PL_{f,c}(q_d)$ is a path loss value, measured by the terminal device, from the serving cell c to the terminal device, $\Delta_{\mathrm{TF},f,c}(i)$ is a value determined by the terminal device according to a ratio of a number of bits of uplink data transmitted by the PUSCH to a number of resource elements in the PUSCH, $f_{f,c}(i,l)$ is a first closed loop power control adjustment factor, and $l$ is an index of a closed loop power control process; and the open loop power control parameters comprise the first open loop power control parameter;

reconfiguring, by the network device, through another first high-layer signaling, the first open loop power control parameter corresponding to the first SRI information, to enable the terminal device to reset the first closed loop adjustment factor $f_{f,c}(i,l)$ associated with the first SRI information, wherein the first closed loop adjustment factor is determined by the terminal device according to a value of the index $l$ of the closed loop power control process which is associated with the first SRI information and is preconfigured by the network device.

7. The method of claim 6, wherein the first SRI information is comprised in Downlink Control Information (DCI) for scheduling the PUSCH.

8. The method according to claim 6 or 7, further comprising:

determining, by the network device, a subsequent Transmit Power Control (TPC) command according to the reset first closed loop adjustment factor.

9. A terminal device, comprising:

a communication module, configured to receive first high-layer signaling sent by a network device, wherein the first high-layer signaling is to configure open loop power control parameters corresponding to a plurality of Sounding Reference Signal Resource Indicator (SRI) information, the plurality of SRI information comprising first SRI information; wherein a first open loop power control parameter associated with the first SRI information is used to calculate transmit power of a Physical Uplink Shared Channel (PUSCH) on a Bandwidth Part (BWP) according to the following formula:

$$P_{\mathrm{PUSCH},f,c}(i,j,q_d,l)=\min\begin{Bmatrix}P_{\mathrm{CMAX},f,c}(i),\\ P_{\mathrm{O_PUSCH},f,c}(j)+10\log_{10}(2^{\mu}\cdot M_{\mathrm{RB},f,c}^{\mathrm{PUSCH}}(i))+\alpha_{f,c}(j)\cdot PL_{f,c}(q_d)+\Delta_{\mathrm{TF},f,c}(i)+f_{f,c}(i,l)\end{Bmatrix}$$

wherein i is an index of PUSCH transmission, j is an index of the first open loop power control parameter, $q_d$ is an index of a Reference Signal (RS) for path loss estimation, $M_{\mathrm{PUSCH,c}}(i)$ is a number of Resource Blocks (RBs) occupied by the PUSCH, $P_{\mathrm{CMAX},f,c}(i)$ is maximum transmit power of the terminal device on a serving cell c, an objective received power $P_{\mathrm{O_PUSCH},f,c}(j)$ and a path loss factor $\alpha_{f,c}(j)$ are the first open loop power control parameter, $PL_{f,c}(q_d)$ is a path loss value, measured by the terminal device, from the serving cell c to the terminal device, $\Delta_{\mathrm{TF},f,c}(i)$ is a value determined by the terminal device according to a ratio of a number of bits of uplink data transmitted by the PUSCH to a number of resource elements in the PUSCH, $f_{f,c}(i,l)$ is a first closed loop power control adjustment factor, and $l$ is an index of a closed loop power control process; and the open loop power control parameters comprise the first open loop power control parameter;

an adjustment module, configured to reset the first closed loop adjustment factor $f_{f,c}(i,l)$ associated with the first SRI information when the first open loop power control parameter associated with the first SRI information is reconfigured,

wherein the first closed loop adjustment factor is determined by the terminal device according to a value of the index $l$ of the closed loop power control process which is associated with the first SRI information and is preconfigured by the network device; and

a determination module, configured to determine the transmit power of the PUSCH according to the reset first closed loop adjustment factor.

10. The terminal device of claim 9, wherein the first SRI information is comprised in Downlink Control Information (DCI) for scheduling the PUSCH.

11. The terminal device of claim 9 or 10, wherein the adjustment module is specifically configured to:

when an accumulation mode is enabled for closed loop power control of the PUSCH, reset the first closed loop adjustment factor.

12. The terminal device of claim 9 or 10, wherein the determination module is specifically configured to:

determine an updated first closed loop adjustment factor according to the reset first closed loop adjustment factor and a latest received Transmit Power Control (TPC) command; and

determine the transmit power of the PUSCH according to the updated first closed loop adjustment factor.

13. The terminal device of claim 9 or 10, wherein

the communication module is further configured to send the PUSCH according to the determined transmit power.

14. A network device, comprising:

a communication module, configured to send first high-layer signaling to a terminal device, wherein the first high-layer signaling is to preconfigure, for the terminal device, open loop power control parameters corresponding to a plurality of Sounding Reference Signal Resource Indicator (SRI) information, the plurality of SRI

information comprising first SRI information; wherein a first open loop power control parameter associated with the first SRI information is used to calculate transmit power of a Physical Uplink Shared Channel (PUSCH) on a Bandwidth Part (BWP) according to the following formula:

$$P_{\mathrm{PUSCH},f,c}(i,j,q_d,l)=\min\left\{\begin{matrix}P_{\mathrm{CMAX},f,c}(i),\\ P_{\mathrm{O_PUSCH},f,c}(j)+10\log_{10}(2^{\mu}\cdot M_{\mathrm{RB},f,c}^{\mathrm{PUSCH}}(i))+\alpha_{f,c}(j)\cdot PL_{f,c}(q_d)+\Delta_{\mathrm{TF},f,c}(i)+f_{f,c}(i,l)\end{matrix}\right\}$$

wherein i is an index of PUSCH transmission, j is an index of the first open loop power control parameter, $q_d$ is an index of a Reference Signal (RS) for path loss estimation, $M_{\mathrm{PUSCH,c}}(i)$ is a number of Resource Blocks (RBs) occupied by the PUSCH, $P_{\mathrm{CMAX},f,c}(i)$ is maximum transmit power of the terminal device on a serving cell c, an objective received power $P_{\mathrm{O_PUSCH},f,c}(j)$ and a path loss factor $\alpha_{f,c}(j)$ are the first open loop power control parameter, $PL_{f,c}(q_d)$ is a path loss value, measured by the terminal device, from the serving cell c to the terminal device, $\Delta_{\mathrm{TF},f,c}(i)$ is a value determined by the terminal device according to a ratio of a number of bits of uplink data transmitted by the PUSCH to a number of resource elements in the PUSCH, $f_{f,c}(i,l)$ is a first closed loop power control adjustment factor, and $l$ is an index of a closed loop power control process; and the open loop power control parameters comprise the first open loop power control parameter;

an adjustment module, configured to send another first high-layer signaling to the terminal device, the another first high-layer signaling is to reconfigure the first open loop power control parameter corresponding to the first SRI information, to enable the terminal device to reset the first closed loop adjustment factor $f_{f,c}(i,l)$ associated with the first SRI information, wherein the first closed loop adjustment factor is determined by the terminal device according to a value of the index $l$ of the closed loop power control process which is associated with the first SRI information and is preconfigured by the network device.

15. The network device of claim 14, wherein the first SRI information is comprised in Downlink Control Information (DCI) for scheduling the PUSCH.

16. The network device of claim 14 or 15, wherein the adjustment module is specifically configured to:

when an accumulation mode is enabled for closed loop power control of the PUSCH, reset the first closed loop adjustment factor.

17. The network device of claim 14 or 15, further comprising:

a determination module, configured to determine a subsequent Transmit Power Control (TPC) command according to the reset first closed loop adjustment factor.

18. A terminal device, comprising a processor and a memory, wherein the memory is configured to store instructions that, when executed by the processor, cause the terminal device to perform the method according to claim 1 or 2.

19. A network device, comprising a processor and a memory, wherein the memory is configured to store instructions that, when executed by the processor, cause the network device to perform the method according to claim 6 or 7.