

CLAIMS

- 5 1. A method for transmitting information, comprising:
- determining, by a terminal device, a first transmission manner adopted for transmission of target uplink information in a first time unit, the first transmission manner being different from a second transmission manner adopted by the terminal device for transmission of the target uplink information in a second time unit and a time
- 10 length for transmission of the target uplink information in the second time unit being different from a time length for transmission of the target uplink information in the first time unit; and
- sending, by the terminal device, the target uplink information to a network device in the first transmission manner.
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2. The method of claim 1, wherein a type of the target uplink information comprises at least one of Acknowledgement/Non-Acknowledgement (ACK/NACK) information or periodic Channel State Information (CSI).
- 20 3. The method of claim 1 or 2, wherein each of the first transmission manner and the second transmission manner comprises at least one of the following manners, and at least one of the following manners for the first transmission manner is different from that for the second transmission manner:
- a preprocessing manner adopted by the terminal device for the target uplink
- 25 information;
- a transmission mode adopted by the terminal device for transmission of the target uplink information, the transmission mode being a Multiple Input Multiple Output (MIMO) mode;
- a number of frequency-domain resources adopted by the terminal device for
- 30 transmission of the target uplink information;
- transmit power adopted by the terminal device for transmission of the target uplink information; or
- a resource index of a resource adopted by the terminal device for transmission of the target uplink information.

4. The method of claim 1, wherein determining, by the terminal device, the first transmission manner adopted for transmission of the target uplink information in the first time unit comprises:

5 determining, by the terminal device, a first transmission mode adopted for transmission of the target uplink information in the first time unit, the first transmission mode being a predetermined transmission mode.

10 5. The method of claim 1, wherein before determining, by the terminal device, the first transmission manner adopted for transmission of the target uplink information in the first time unit, the method further comprises:

 receiving, by the terminal device, a first transmission mode adopted for transmission of the target uplink information in the first time unit from the network device.

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6. The method of any one of claims 3-5, wherein determining, by the terminal device, the first transmission manner adopted for transmission of the target uplink information in the first time unit comprises:

20 determining, by the terminal device, a number of first frequency-domain resources adopted for transmission of the target uplink information in the first time unit according to at least one of the following information: a number of second frequency-domain resources adopted for transmission of the target uplink information in the second time unit, a number of uplink time resources in the first time unit or a number of uplink time resources in the second time unit; or

25 determining, by the terminal device, the number of the first frequency-domain resources according to a predetermined parameter or a predetermined rule.

30 7. The method of any one of claims 3-5, wherein before determining, by the terminal device, the first transmission manner adopted for transmission of the target uplink information in the first time unit, the method further comprises:

 receiving, by the terminal device, a number of first frequency-domain resources adopted for transmission of the target uplink information in the first time unit from the network device.

8. The method of any one of claims 3-7, wherein before determining, by the terminal device, the first transmission manner adopted for transmission of the target uplink information in the first time unit, the method further comprises:

5 receiving, by the terminal device, a first transmit power control command sent by the network device, the first transmit power control command being configured to adjust transmit power for transmission of the target uplink information in the first time unit or the first transmit power control command being configured to adjust the transmit power for transmission of the target uplink information in the first time unit and
10 transmit power for transmission of the target uplink information in the second time unit;
 wherein determining, by the terminal device, the first transmission manner adopted for transmission of the target uplink information in the first time unit comprises:
 determining, by the terminal device, a first transmit power adopted for transmission of the target uplink information in the first time unit according to the first
15 transmit power control command.

9. The method of any one of claims 3-8, wherein determining, by the terminal device, the first transmission manner adopted for transmission of the target uplink information in the first time unit comprises:

20 determining, by the terminal device, a first resource index adopted for transmission of the target uplink information in the first time unit according to first information, the first information being different from second information and the second information being configured for the terminal device to determine a second resource index adopted for transmission of the target uplink information in the second
25 time unit.

10. The method of any one of claims 3-8, wherein determining, by the terminal device, the first transmission manner adopted for transmission of the target uplink information in the first time unit comprises:

30 determining, by the terminal device, a first resource index adopted for transmission of the target uplink information in the first time unit according to third information and a first algorithm, the first algorithm being different from a second algorithm and the second algorithm being configured for the terminal device to

determine a second resource index adopted for transmission of the target uplink information in the second time unit according to the third information.

11. The method of any one of claims 3-10, wherein responsive to determining that the type of the target uplink information is the periodic CSI, the first preprocessing manner is to select information with a highest priority in the periodic CSI for transmission; or responsive to determining that the type of the target uplink information is the ACK/NACK information, the first preprocessing manner is to perform bundling across the ACK/NACK information.

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12. A device for transmitting information, comprising:

a determination unit, configured to determine a first transmission manner adopted for transmission of target uplink information in a first time unit, the first transmission manner being different from a second transmission manner adopted by the device for transmission of the target uplink information in a second time unit and a time length for transmission of the target uplink information in the second time unit being different from a time length for transmission of the target uplink information in the first time unit; and

a sending unit, configured to send the target uplink information to a network device in the first transmission manner.

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13. The device of claim 12, wherein a type of the target uplink information comprises at least one of Acknowledgement/Non-Acknowledgement (ACK/NACK) information or periodic Channel State Information (CSI).

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14. The device of claim 12 or 13, wherein each of the first transmission manner and the second transmission manner comprise at least one of the following manners, and at least one of the following manners for the first transmission manner is different from that for the second transmission manner:

a preprocessing manner adopted by a terminal device for the target uplink information;

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a transmission mode adopted by the terminal device for transmission of the target uplink information, the transmission mode being a Multiple Input Multiple

Output (MIMO) mode;

a number of frequency-domain resources adopted by the terminal device for transmission of the target uplink information;

5 transmit power adopted by the terminal device for transmission of the target uplink information; or

a resource index of a resource adopted by the terminal device for transmission of the target uplink information.

10 15. The device of claim 14, wherein the determination unit is specifically configured to:

determine a first transmission mode adopted for transmission of the target uplink information in the first time unit, the first transmission mode being a predetermined transmission mode.

15 16. The device of claim 14, further comprising:

a first receiving unit, configured to, before the first transmission manner adopted for transmission of the target uplink information in the first time unit is determined, receive a first transmission mode adopted for transmission of the target uplink information in the first time unit from the network device.

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17. The device of any one of claims 14-16, wherein the determination unit is specifically configured to:

25 determine a number of first frequency-domain resources adopted for transmission of the target uplink information in the first time unit according to at least one of the following information: a number of second frequency-domain resources adopted for transmission of the target uplink information in the first time unit, a number of uplink time resources in the first time unit or a number of uplink time resources in the second time unit; or

30 determine the number of the first frequency-domain resources according to a predetermined parameter or a predetermined rule.

18. The device of any one of claims 14-16, further comprising:

a second receiving unit, configured to, before the first transmission manner

adopted for transmission of the target uplink information in the first time unit is determined, receive a number of first frequency-domain resources adopted for transmission of the target uplink information in the first time unit from the network device.

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19. The device of claim 17 or 18, wherein the number of the first frequency-domain resources is associated with A and B , where A and B are positive numbers, A is the number of the second frequency-domain resources or a predetermined parameter and B is a predetermined parameter, a parameter determined according to the predetermined rule or a parameter received by the device from the network device.

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20. The device of claim 19, wherein B is associated with M , k and x , where M is the number of the uplink time resources in the second time unit, x is the number of the uplink time resources in the first time unit, k is a positive integer and k is a predetermined parameter or a parameter received by the device from the network device; or

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B is associated with M , t and x , where M is the number of the uplink time resources in the second time unit, x is the number of the uplink time resources in the first time unit, t is a positive number and t is a predetermined parameter or a parameter received by the device from the network device; or

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B is associated with q and x , where x is the number of the uplink time resources in the first time unit, q is a positive number and q is a predetermined parameter or a parameter received by the device from the network device.

25 21. The device of any one of claims 14-20, further comprising:

a third receiving unit, configured to, before the first transmission manner adopted for transmission of the target uplink information in the first time unit is determined, receive a first transmit power control command sent by the network device, the first transmit power control command being configured to adjust transmit power for transmission of the target uplink information in the first time unit or the first transmit power control command being configured to adjust the transmit power for transmission of the target uplink information in the first time unit and transmit power for transmission of the target uplink information in the second time unit;

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wherein the determination unit is specifically configured to:

determine a first transmit power adopted for transmission of the target uplink information in the first time unit according to the first transmit power control command.

- 5 22. The device of any one of claims 14-21, wherein the determination unit is specifically configured to:

 determine a first resource index adopted for transmission of the target uplink information in the first time unit according to first information, the first information being different from second information and the second information being configured
10 for the device to determine a second resource index adopted for transmission of the target uplink information in the second time unit.

23. The device of any one of claims 14-21, wherein the determination unit is specifically configured to:

15 determine a first resource index adopted for transmission of the target uplink information in the first time unit according to third information and a first algorithm, the first algorithm being different from a second algorithm and the second algorithm being configured for the device to determine a second resource index adopted for transmission of the target uplink information in the second time unit according to the
20 third information.

24. The device of any one of claims 14-23, wherein responsive to determining that the type of the target uplink information is the periodic CSI, the first preprocessing manner is to select information with a highest priority in the periodic CSI for transmission; or

25 responsive to determining that the type of the target uplink information is the ACK/NACK information, the first preprocessing manner is to perform bundling across the ACK/NACK information.