CLAIMS

1. A method, comprising:

receiving first indication information, wherein the first indication information indicates a first uplink transmission resource;

determining whether the first uplink transmission resource overlaps a first sidelink transmission resource in time domain;

when the first uplink transmission resource overlaps the first sidelink transmission resource in time domain, determining a first configured maximum output power based on a first maximum power reduction, wherein the first maximum power reduction is a maximum power reduction corresponding to a con-current mode; and

determining a transmitted power for a first uplink transmission and a transmitted power for a first sidelink transmission based on the first configured maximum output power, wherein a sum of the transmitted power for the first uplink transmission and the transmitted power for the first sidelink transmission does not exceed the first configured maximum output power, the first uplink transmission is carried on the first uplink transmission resource, and the first sidelink transmission is carried on the first sidelink transmission resource.

2. The method according to claim 1, wherein the method further comprises:

when the first uplink transmission resource does not overlap the first sidelink transmission resource in time domain,

determining the first configured maximum output power based on the first maximum power reduction; and

determining the transmitted power for the first uplink transmission or the transmitted power for the first sidelink transmission based on the first configured maximum output power, wherein the transmitted power for the first uplink transmission or the transmitted power for the first sidelink transmission does not exceed the first configured maximum output power.

3. The method according to claim 1, wherein the method further comprises:

when the first uplink transmission resource does not overlap the first sidelink transmission resource in time domain,

determining a second configured maximum output power based on a second maximum power reduction, wherein the second maximum power reduction is a maximum power reduction corresponding to a carrier on which the first uplink transmission resource is located; and

determining the transmitted power for the first uplink transmission based on the second

configured maximum output power, wherein the transmitted power for the first uplink transmission does not exceed the second configured maximum output power; or

determining a third configured maximum output power based on a third maximum power reduction, wherein the third maximum power reduction is a maximum power reduction corresponding to a carrier on which the first sidelink transmission resource is located; and

determining the transmitted power for the first sidelink transmission based on the third configured maximum output power, wherein the transmitted power for the first sidelink transmission does not exceed the third configured maximum output power.

4. The method according to claim 1, wherein when the first uplink transmission resource overlaps the first sidelink transmission resource in time domain, and a priority of the first uplink transmission is higher than a priority of the first sidelink transmission,

the determining a transmitted power for a first uplink transmission and a transmitted power for a first sidelink transmission based on the first configured maximum output power comprises:

determining the transmitted power for the first uplink transmission, wherein the transmitted power for the first uplink transmission is a smaller value between the transmitted power for the first uplink transmission and the first configured maximum output power, the transmitted power for the first uplink transmission is determined based on a second maximum power reduction, and the second maximum power reduction is a maximum power reduction corresponding to a carrier on which the first uplink transmission resource is located; and

determining the transmitted power for the first sidelink transmission based on the first configured maximum output power and the transmitted power for the first uplink transmission.

5. The method according to claim 1, wherein when the first uplink transmission resource overlaps the first sidelink transmission resource in time domain, and a priority of the first sidelink transmission is higher than a priority of the first uplink transmission,

the determining a transmitted power for a first uplink transmission and a transmitted power for a first sidelink transmission based on the first configured maximum output power comprises:

determining the transmitted power for the first sidelink transmission, wherein the transmitted power for the first sidelink transmission is a smaller value between the transmitted power for the first sidelink transmission and the first configured maximum output power, the transmitted power for the first sidelink transmission is determined based on a third maximum power reduction, and the third maximum power reduction is a maximum power reduction corresponding to a carrier on which the first sidelink transmission resource is located; and

determining the transmitted power for the first uplink transmission based on the first configured maximum output power and the transmitted power for the first sidelink transmission.

6. The method according to claim 1, wherein the first maximum power reduction is determined based on the first uplink transmission resource and the first sidelink transmission resource.

7. The method according to claim 1, wherein the method further comprises:

receiving second indication information, wherein the second indication information indicates a second uplink transmission resource;

when the second uplink transmission resource overlaps the first sidelink transmission resource in time domain, determining a fourth configured maximum output power based on a fourth maximum power reduction, wherein the fourth maximum power reduction is a maximum power reduction corresponding to the con-current mode, and the fourth maximum power reduction is determined based on the second uplink transmission resource and the first sidelink transmission resource; and

when the fourth configured maximum output power is greater than the first configured maximum output power, determining a transmitted power for a second uplink transmission based on the first configured maximum output power, wherein a sum of the transmitted power for the second uplink transmission and the transmitted power for the first sidelink transmission does not exceed the first configured maximum output power, and the second uplink transmission is carried on the second uplink transmission resource.

8. The method according to claim 1, wherein

the first uplink transmission resource and the first sidelink transmission resource are located in a same frequency band.

9. A communication apparatus, comprising:

a transceiver module, configured to receive first indication information, wherein the first indication information indicates a first uplink transmission resource; and

a processing module, configured to determine whether the first uplink transmission resource overlaps a first sidelink transmission resource in time domain, wherein

when the first uplink transmission resource overlaps the first sidelink transmission resource in time domain, the processing module is further configured to determine a first configured maximum output power based on a first maximum power reduction, wherein the first maximum power reduction is a maximum power reduction corresponding to a con-current mode; and

the processing module is further configured to determine a transmitted power for a first uplink transmission and a transmitted power for a first sidelink transmission based on the first configured maximum output power, wherein a sum of the transmitted power for the first uplink transmission and the transmitted power for the first sidelink transmission does not exceed the first configured maximum output power, the first uplink transmission is carried on the first uplink transmission resource, and the first sidelink transmission is carried on the first sidelink transmission resource.

10. The communication apparatus according to claim 9, wherein when the first uplink transmission resource does not overlap the first sidelink transmission resource in time domain,

the processing module is further configured to determine a second configured maximum output power based on a second maximum power reduction, wherein the second maximum power reduction is a maximum power reduction corresponding to a carrier on which the first uplink transmission resource is located; and

the processing module is further configured to determine the transmitted power for the first uplink transmission based on the second configured maximum output power, wherein the transmitted power for the first uplink transmission does not exceed the second configured maximum output power; or

the processing module is further configured to determine a third configured maximum output power based on a third maximum power reduction, wherein the third maximum power reduction is a maximum power reduction corresponding to a carrier on which the first sidelink transmission resource is located; and

the processing module is further configured to determine the transmitted power for the first sidelink transmission based on the third configured maximum output power, wherein the transmitted power for the first sidelink transmission does not exceed the third configured maximum output power.

11. The communication apparatus according to claim 9, wherein the first maximum power reduction is determined based on the first uplink transmission resource and the first sidelink transmission resource.

12. The communication apparatus according to claim 9, wherein

the transceiver module is further configured to receive second indication information, wherein the second indication information indicates a second uplink transmission resource;

when the second uplink transmission resource overlaps the first sidelink transmission resource in time domain, the processing module is further configured to determine a fourth configured maximum output power based on a fourth maximum power reduction, wherein the fourth maximum power reduction is a maximum power reduction corresponding to the con-current mode, and the fourth maximum power reduction is determined based on the second uplink transmission resource and the first sidelink transmission resource; and

when the fourth configured maximum output power is greater than the first configured maximum output power, the processing module is further configured to determine a transmitted power for a second uplink transmission based on the first configured maximum output power, wherein a sum of the transmitted power for the second uplink transmission and the transmitted power for the first sidelink transmission does not exceed the first configured maximum output power, and the second

uplink transmission is carried on the second uplink transmission resource.

13. The communication apparatus according to any one of claims 9 to 12, wherein

the first uplink transmission resource and the first sidelink transmission resource are located in a same frequency band.

14. The communication apparatus according to any one of claims 9 to 13, wherein the communication apparatus comprises a terminal device or a chip of a terminal device.

15. A computer program, wherein the computer program comprises computer instructions, and when the computer instructions are run on a communication apparatus, the communication apparatus is enabled to perform the method according to any one of claims 1 to 8.