CLAIMS

1. A communication method, wherein the method is applied to an ambient power (AMP) station (STA), and the method comprises:

receiving a wireless power transfer (WPT) signal, and receiving communication indication information, wherein the communication indication information is information for indicating the AMP STA to perform communication; and

receiving an excitation signal, and sending a reflected signal of the excitation signal.

2. The method according to claim 1, wherein

the receiving the WPT signal comprises: receiving the WPT signal from a first communication apparatus;

the receiving the communication indication information comprises: receiving the communication indication information from the first communication apparatus; and

the receiving the excitation signal comprises: receiving the excitation signal from the first communication apparatus.

3. The method according to claim 2, wherein the sending the reflected signal of the excitation signal comprises:

sending the reflected signal of the excitation signal to an access point (AP).

4. The method according to claim 1, wherein

the receiving the WPT signal comprises: receiving the WPT signal from an excitation apparatus;

the receiving the communication indication information comprises: receiving the communication indication information from a relay apparatus; or receiving the communication indication information from an access point (AP); and

the receiving the excitation signal comprises: receiving the excitation signal from the excitation apparatus.

5. The method according to claim 4, wherein the sending the reflected signal of the excitation signal comprises:

sending the reflected signal of the excitation signal to the relay apparatus.

6. The method according to claim 4, wherein the sending the reflected signal of the excitation signal comprises:

sending the reflected signal of the excitation signal to the AP.

7. The method according to any one of claims 1 to 6, wherein a link for transmitting the WPT signal is a WPT link, or a link for transmitting the excitation signal is a communication link.

8. The method according to claim 7, wherein a frequency band supported by the

communication link is different from a frequency band supported by the WPT link.

9. The method according to claim 7, wherein a frequency band supported by the communication link is the same as a frequency band supported by the WPT link, and the communication link is a unidirectional communication link.

10. A communication method, wherein the method is applied to an excitation apparatus, and the method comprises:

receiving power transfer indication information from an access point (AP), wherein the power transfer indication information is information for indicating an ambient power (AMP) station (STA) to receive a wireless power transfer (WPT) signal; and

sending a WPT signal to the AMP STA based on the power transfer indication information.

11. The method according to claim 10, wherein the receiving the power transfer indication information from the access point (AP) comprises:

receiving indication information, wherein the indication information comprises the power transfer indication information and communication indication information, and the communication indication information is information for indicating the AMP STA to perform communication.

12. The method according to claim 10 or 11, wherein the power transfer indication information comprises at least one of an identifier of the AMP STA or wake-up information of the AMP STA.

13. The method according to claim 12, wherein the power transfer indication information further comprises at least one of the following: transmission time of the WPT signal, waveform information of the WPT signal, and wake-up information of the excitation apparatus.

14. The method according to any one of claims 11 to 13, wherein the communication indication information comprises at least one of the following:

control information, scheduling information, and a data type to be reported by the AMP STA.

15. The method according to any one of claims 10 to 14, wherein sending the WPT signal to the AMP STA based on the power transfer indication information comprises:

sending the WPT signal to the AMP STA on a WPT link based on the power transfer indication information.

16. The method according to any one of claims 11 to 15, wherein the method further comprises:

sending an excitation signal to the AMP STA on a communication link.

17. The method according to claim 15 or 16, wherein the frequency band supported by the WPT link comprises 2.4 GHz or lower than 1 GHz.

18. A communication apparatus, comprising a processor, wherein the processor is configured

to perform the method according to any one of claims 1 to 17.

19. A communication apparatus, comprising a logic circuit and an interface, wherein the logic circuit is coupled to the interface; and

the interface is configured to input and/or output information, and the logic circuit is configured to perform the method according to any one of claims 1 to 9, or the logic circuit is configured to perform the method according to any one of claims 10 to 17.

20. A computer-readable storage medium, wherein the computer-readable storage medium is configured to store a computer program, and when the computer program is executed, the method according to any one of claims 1 to 17 is performed.