

CLAIMS

[Claim 1] A communication method, comprising:

pairing, by a first device, with a data source device through an identifier of a device group to obtain pairing information, wherein the first device is any device in the device group, and the pairing information is information based on which a connection between any device in the device group and the data source device is established, wherein the pairing information is generated according to the identifier of the device group and an identifier of the data source device;

transmitting, by the first device, a notification message to other devices in the device group except the first device, wherein the notification message is configured to update status of the other devices to be invisible to a device outside the device group; and

synchronizing, by the first device, the pairing information with at least one second device in the device group, wherein the pairing information is configured to enable a second device to establish a connection with the data source device according to the pairing information when a preset condition is met.

[Claim 2] The method according to claim 1, wherein the pairing information comprises a link key.

[Claim 3] The method according to claim 1 or 2, wherein after pairing, by the first device, with the data source device through the identifier of the device group to obtain the pairing information, the method further comprises:

establishing, by the first device, a connection with the data source device according to the pairing information.

[Claim 4] The method according to any one of claims 1 to 3, wherein the preset condition comprises at least one of the following conditions:

a link between the first device and the data source device being malfunctioning;
battery power of the first device being less than a first threshold;
device status of the first device being abnormal; or

signal quality between the first device and the data source device being less than a second threshold.

[Claim 5] The method according to any one of claims 1 to 4, wherein synchronizing, by the first device, the pairing information with the at least one second
5 device in the device group comprises:

storing, by the first device, the pairing information in a preset storage area accessible to the at least one second device.

[Claim 6] The method according to any one of claims 1 to 4, wherein synchronizing, by the first device, the pairing information with the at least one second
10 device in the device group comprises:

transmitting, by the first device, the pairing information to the at least one second device.

[Claim 7] The method according to any one of claims 1 to 6, wherein the at least one second device is a device except the first device in the device group.

15 [Claim 8] The method according to any one of claims 1 to 7, wherein before pairing, by the first device, with the data source device through the identifier of the device group to obtain the pairing information, status of each device in the device group is visible to a device outside the device group.

[Claim 9] The method according to any one of claims 1 to 8, wherein an
20 identifier of a device in the device group that is visible to a device outside the device group is the identifier of the device group.

[Claim 10] The method according to any one of claims 1 to 9, wherein before pairing, by the first device, with the data source device through the identifier of the device group to obtain the pairing information, the method further comprises:

25 pairing and connecting, by the first device, with other devices in the device group to construct the device group.

[Claim 11] The method according to any one of claims 1 to 10, wherein the identifier of the device group is determined according to a preset addressing rule.

[Claim 12] The method according to any one of claims 1 to 10, wherein the
30 identifier of the device group is same as an identifier of one device in the device

group.

[Claim 13] The method according to any one of claims 1 to 12, wherein the device in the device group is a wireless transceiving device or a wired transceiving device.

5 [Claim 14] The method according to claim 13, wherein the wireless transceiving device is a Bluetooth device.

[Claim 15] The method according to claim 14, wherein the Bluetooth device is a Bluetooth audio device.

10 [Claim 16] The method according to claim 15, wherein the Bluetooth audio device is a Bluetooth earbud or a Bluetooth speaker.

[Claim 17] A communication method, comprising:

obtaining, by a second device, pairing information synchronized by a first device, wherein the first device and the second device are both devices in a same device group, and the pairing information is generated by pairing the first device with a data source device through an identifier of the device group, wherein the pairing information is generated according to the identifier of the device group and an identifier of the data source device;

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receiving, by the second device, a notification message transmitted by the first device;

20 updating, by the second device, status of the second device to be invisible to a device outside the device group according to the notification message; and

establishing, by the second device, a connection with the data source device according to the pairing information, when a preset condition is met.

[Claim 18] The method according to claim 17, wherein the preset condition comprises at least one of the following conditions:

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a link between the first device and the data source device being malfunctioning;

battery power of the first device being less than a first threshold;

device status of the first device being abnormal; or

signal quality between the first device and the data source device being less than a second threshold.

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[Claim 19] The method according to claim 17 or 18, wherein obtaining, by the second device, the pairing information synchronized by the first device comprises:

obtaining, by the second device, the pairing information in a preset storage area, wherein the pairing information is stored in the preset storage area by the first device.

5 [Claim 20] The method according to claim 17 or 18, wherein obtaining, by the second device, the pairing information synchronized by the first device comprises:

receiving, by the second device, the pairing information transmitted by the first device.

[Claim 21] A communication apparatus, applied to a first device, comprising a
10 processing module and a transceiving module, wherein

the processing module is configured to pair the first device with a data source device through an identifier of a device group to obtain pairing information, wherein the first device is any device in the device group, and the pairing information is information based on which a connection between a device in the device group and
15 the data source device is established, wherein the pairing information is generated according to the identifier of the device group and an identifier of the data source device;

the transceiving module is configured to:

transmit a notification message to other devices in the device group except the
20 first device, wherein the notification message is configured to update status of the other devices to be invisible to a device outside the device group; and

synchronize the pairing information with at least one second device in the device group, wherein the pairing information is configured to enable the second device to establish a connection with the data source device according to the pairing
25 information when a preset condition is met.

[Claim 22] The apparatus according to claim 21, wherein the pairing information comprises a link key.

[Claim 23] The apparatus according to claim 21 or 22, wherein

the processing module is further configured to establish a connection with the
30 data source device according to the pairing information after the processing module

pairs the first device with the data source device through the identifier of the device group to obtain the pairing information.

[Claim 24] The apparatus according to any one of claims 21 to 23, wherein the preset condition comprises at least one of the following conditions:

- 5 a link between the first device and the data source device being malfunctioning;
- battery power of the first device being less than a first threshold;
- device status of the first device being abnormal; or
- signal quality between the first device and the data source device being less than a second threshold.

- 10 [Claim 25] The apparatus according to any one of claims 21 to 24, wherein the transceiving module is specifically configured to:

 store the pairing information in a preset storage area accessible to the at least one second device.

- 15 [Claim 26] The apparatus according to any one of claims 21 to 24, wherein the transceiving module is specifically configured to:

 transmit the pairing information to the at least one second device.

[Claim 27] The apparatus according to any one of claims 21 to 26, wherein the at least one second device is a device except the first device in the device group.

- 20 [Claim 28] The apparatus according to any one of claims 21 to 27, wherein before the processing module pairs the first device with the data source device through the identifier of the device group to obtain the pairing information, status of each device in the device group is visible to a device outside the device group.

- 25 [Claim 29] The apparatus according to any one of claims 21 to 28, wherein an identifier of a device in the device group that is visible to a device outside the device group is the identifier of the device group.

- 30 [Claim 30] The apparatus according to any one of claims 21 to 29, wherein the processing module is further configured to pair and connect the first device with other devices in the device group to construct the device group before the processing module pairs the first device with the data source device through the identifier of the device group to obtain the pairing information.

[Claim 31] The apparatus according to any one of claims 21 to 30, wherein the identifier of the device group is determined according to a preset addressing rule.

[Claim 32] The apparatus according to any one of claims 21 to 30, wherein the identifier of the device group is same as an identifier of one device in the device group.

[Claim 33] The apparatus according to any one of claims 21 to 32, wherein the device in the device group is a wireless transceiving device or a wired transceiving device.

[Claim 34] The apparatus according to claim 33, wherein the wireless transceiving device is a Bluetooth device.

[Claim 35] The apparatus according to claim 34, wherein the Bluetooth device is a Bluetooth audio device.

[Claim 36] The apparatus according to claim 35, wherein the Bluetooth audio device is a Bluetooth earbud or a Bluetooth speaker.

[Claim 37] A communication apparatus, applied to a second device, comprising a processing module and a transceiving module, wherein

the transceiving module is configured to:

obtain pairing information synchronized by a first device, wherein the first device and the second device are both devices in a same device group, and the pairing information is generated by pairing the first device with a data source device through an identifier of the device group, wherein the pairing information is generated according to the identifier of the device group and an identifier of the data source device; and

receive a notification message transmitted by the first device;

the processing module is configured to:

update status of the second device to be invisible to a device outside the device group according to the notification message; and

establish a connection with the data source device according to the pairing information when a preset condition is met.

[Claim 38] The apparatus according to claim 37, wherein the preset condition

comprises at least one of the following conditions:

a link between the first device and the data source device being malfunctioning;

battery power of the first device being less than a first threshold;

device status of the first device being abnormal; or

5 signal quality between the first device and the data source device being less than
a second threshold.

[Claim 39] The apparatus according to claim 37 or 38, wherein the transceiving
module is specifically configured to obtain the pairing information in a preset storage
area, wherein the pairing information is stored by the first device in the preset storage
10 area.

[Claim 40] The apparatus according to claim 37 or 38, wherein the transceiving
module is specifically configured to receive the pairing information transmitted by the
first device.

[Claim 41] A communication apparatus, comprising a memory and a processor,
15 wherein the processor executes program instructions in the memory to implement the
communication method according to any one of claims 1 to 16.

[Claim 42] A communication apparatus, comprising a memory and a processor,
wherein the processor executes program instructions in the memory to implement the
communication method according to any one of claims 17 to 20.

20 [Claim 43] A device group, comprising the communication apparatus according
to claim 41 and at least one communication apparatus according to claim 42.

[Claim 44] A communication system, comprising the device group according to
claim 43 and a data source device, wherein a device in the device group is configured
to be paired with the data source device through the identifier of the device group.

25 [Claim 45] A computer-readable storage medium comprising a computer
program stored thereon, where when the program is executed by a processor, the
communication method according to any one of claims 1 to 20 is implemented.