

CLAIMS

[Claim 1]

A sidelink feedback method, comprising:

acquiring, by a first terminal device, first configuration information, wherein the first
5 configuration information is used to determine a maximum number of sidelink feedback channels
that can be simultaneously transmitted by the first terminal device;

determining, by the first terminal device, the maximum number of sidelink feedback channels
that can be simultaneously transmitted by the first terminal device based on the first configuration
information;

10 determining, by the first terminal device, transmission power of the sidelink feedback
channels to be transmitted in a case where the number of sidelink feedback channels to be
transmitted is two or more than two; and

equally allocating, by the first terminal device, transmission power for the sidelink feedback
channels to be transmitted according to maximum transmission power of the first terminal device.

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[Claim 2]

The method as claimed in claim 1, wherein acquiring the first configuration information by
the first terminal device further comprises:

acquiring, by the first terminal device, the first configuration information according to pre-
20 configured information.

[Claim 3]

The method as claimed in claim 2, wherein the pre-configured information comprises
capability information of the first terminal device.

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[Claim 4]

The method as claimed in any one of claims 1 to 3, wherein the method further comprises:

transmitting, by the first terminal device, all sidelink feedback channels that need to be transmitted in a case where a number of sidelink feedback channels that need to be transmitted is less than or equal to the maximum number of sidelink feedback channels that can be simultaneously transmitted by the first terminal device.

[Claim 5]

The method as claimed in any one of claims 1 to 3, wherein the method further comprises:

determining M is equal to the maximum number of sidelink feedback channels that can be transmitted simultaneously by the first terminal device;

determining, by the first terminal device, among the sidelink feedback channels that need to be transmitted, M sidelink feedback channels with highest priorities as sidelink feedback channels to be transmitted according to a priority of data corresponding to the sidelink feedback channels that need to be transmitted in a case where a number of sidelink feedback channels that need to be transmitted is greater than the maximum number of sidelink feedback channels that can be simultaneously transmitted by the first terminal device.

[Claim 6]

The method as claimed in any one of claims 1-5, further comprising:

determining, by the first terminal device, power of the sidelink feedback channels to be transmitted according to a priority of data corresponding to the sidelink feedback channels to be transmitted.

[Claim 7]

The method as claimed in claim 6, wherein determining the power of the sidelink feedback channels to be transmitted according to the priority of sidelink data corresponding to the sidelink feedback channels to be transmitted by the first terminal device further comprises:

- 5 in a case where a sum of transmission power of the sidelink feedback channels to be transmitted is greater than maximum transmission power of the first terminal device, not allocating, by the first terminal device, the transmission power to the sidelink feedback channels corresponding to the sidelink data with low priority.

10 [Claim 8]

A first terminal device, comprising:

a processing unit, configured to:

- 15 acquire first configuration information, wherein the first configuration information is used to determine a maximum number of sidelink feedback channels that can be simultaneously transmitted by the first terminal device;

 determine the maximum number of sidelink feedback channels that can be simultaneously transmitted by the first terminal device based on the first configuration information;

 determine transmission power of the sidelink feedback channels to be transmitted in a case where the number of sidelink feedback channels to be transmitted is two or more than two;

20 and

 equally allocate transmission power for the sidelink feedback channels to be transmitted according to maximum transmission power of the first terminal device.

[Claim 9]

- 25 The first terminal device as claimed in claim 8, wherein the processing unit is configured to

acquire the first configuration information according to pre-configured information.

[Claim 10]

5 The first terminal device as claimed in claim 9, wherein the pre-configured information comprises capability information of the first terminal device.

[Claim 11]

The first terminal device as claimed in any one of claims 8 to 10, wherein the first terminal device further comprises:

10 a second transmission unit, configured to transmit all sidelink feedback channels that need to be transmitted in a case where a number of sidelink feedback channels that need to be transmitted is less than or equal to the maximum number of sidelink feedback channels that can be simultaneously transmitted by the first terminal device.

15 [Claim 12]

The first terminal device as claimed in any one of claims 8 to 10, wherein the processing unit is further configured to determine M is equal to the maximum number of sidelink feedback channels that can be transmitted simultaneously by the first terminal device, and determine, among the sidelink feedback channels that need to be transmitted, M sidelink feedback channels with a
20 highest priorities as sidelink feedback channels to be transmitted according to a priority of data corresponding to the sidelink feedback channels that need to be transmitted in a case where a number of sidelink feedback channels that need to be transmitted is greater than the maximum number of sidelink feedback channels that can be simultaneously transmitted by the first terminal device.

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[Claim 13]

The first terminal device as claimed in claim 8, wherein the processing unit is further configured to determine power of the sidelink feedback channels to be transmitted according to a priority of data corresponding to the sidelink feedback channels to be transmitted.

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[Claim 14]

The first terminal device as claimed in claim 13, wherein the processing unit is further configured to, in a case where a sum of transmission power of the sidelink feedback channels to be transmitted is greater than maximum transmission power of the first terminal device, not to allocate the transmission power to the sidelink feedback channels corresponding to the data with low priority.

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[Claim 15]

A first terminal device, being configured to perform the sidelink feedback method as claimed in any one of claims 1 to 7 when running the computer program.

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[Claim 16]

A storage medium, storing an executable program, wherein the executable program executes the sidelink feedback method as claimed in any one of claims 1 to 7 when being executed by a processor.

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