

allocation, thereby avoiding a confusion in behavior of the UE.

[00121] FIG. 4 is a block diagram illustrating an apparatus for indicating information according to an example. The apparatus may be located in a base station. As shown in FIG. 4, the apparatus includes a generating module 41 and a sending module 42.

5 **[00122]** The generating module 41 is configured to generate a resource allocation informing format. The resource allocation informing format includes a first informing format or a second informing format. The first informing format indicates that each of reserve statuses in a PRB resource assignment field is configured for indicating a resource allocation scheme. The second informing format indicates that one or more of the reserve statuses in the PRB resource assignment field is
10 configured for indicating an early termination of uplink transmission while each of remaining reserve statuses is configured for indicating the resource allocation scheme.

[00123] The sending module 42 is configured to send the resource allocation informing format generated by the generating module 41 to UE.

[00124] The resource allocation informing format may be sent to the UE after being generated.

15 **[00125]** In the above embodiments, by generating the resource allocation informing format and transmitting it to the UE, the UE can interpret a received current reserve status correctly even if the UE is configured simultaneously with two functions comprising an early termination of uplink transmission and a flexible resource allocation, thereby avoiding a confusion in behavior of the UE.

[00126] FIG. 5 is a block diagram illustrating another apparatus for indicating information
20 according to an example. As shown in FIG. 5, on a basis of the above embodiment shown in FIG. 4, the generating module 41 may include a first generating submodule 411 or the second generating submodule 412.

[00127] The first generating submodule 411 is configured to generate the second informing format when the UE is configured with a function for the early termination of uplink transmission.

25 **[00128]** The second generating submodule 412 is configured to generate the first informing format when the UE is not configured with the function for the early termination of uplink transmission.

[00129] In one or more embodiments, the resource allocation informing format may be generated based on the function configured in the UE. For example, the second informing format may be generated when the UE is configured with the function for the early termination of uplink
30 transmission, and the first informing format may be generated when the UE is not configured with the function for the early termination of uplink transmission.

[00130] In some embodiments, the generated first informing format may be as shown in Table 3:

Table 3. The meanings of the PBR resource assignment field in the first informing format

PRB resource assignment field	Physical meaning
00000 (0) -10100(20)	indicating a PRB resource allocation scheme within NB
reserve statuses 10101(21)-11111 (31)	indicating a resource allocation scheme

[00131] In some embodiments, the generated second informing format may be as shown in Table 4:

Table 4. The meanings of the PBR resource assignment field in the second informing format

PRB resource assignment field	Physical meaning
00000 (0) -10100(20)	indicating a PRB resource allocation scheme within NB
reserve statuses 10101(21)-11110 (30)	indicating a resource allocation scheme
reserve status 11111 (31)	indicating an early termination of uplink transmission

[00132] It should be noted that the foregoing Table 3 and Table 4 are only examples. In practical applications, the meanings of the PBR resource assignment field indicated by the first informing format and the second informing format may be varied.

[00133] In the above embodiments, how to generate the resource allocation informing format is flexible and diverse.

[00134] FIG. 6 is a block diagram illustrating another apparatus for indicating information according to an example. As shown in FIG. 6, on a basis of the embodiment shown in FIG. 4, the generating module 41 may include a third generating submodule 413, a fourth generating submodule 414, or the fifth generating submodule 415.

[00135] The third generating submodule 413 is configured to generate the second informing format when the UE is configured with a function for the early termination of uplink transmission and is currently performing an uplink transmission.

[00136] The fourth generating submodule 414 is configured to generate the first informing format when the UE is configured with the function for the early termination of uplink transmission but is not currently performing the uplink transmission.

[00137] The fifth generating submodule 415 is configured to generate the first informing format when the UE is not configured with the function for the early termination of uplink transmission.

[00138] In one or more embodiments, the resource allocation informing format may be generated based on both the function configured in the UE and whether the UE is currently performing the

CLAIMS

1. A method of indicating information, being applicable to a base station, comprising:

generating a resource allocation informing format that comprises one of reserve statuses in a physical resource block (PRB) resource assignment field is configured for indicating an early termination of uplink transmission while each of remaining reserve statuses is configured for indicating the resource allocation scheme; and

sending the resource allocation informing format to user equipment (UE);

wherein the PRB resource assignment field is a 5-bits bitmap, and the reserve status 11111 is configured for indicating the early termination of uplink transmission;

wherein each of the reserve statuses 10101 -11110 is configured for indicating the resource allocation scheme;

wherein each of statuses 00000 -10100 is configured for indicating a PRB resource allocation scheme within a narrowband (NB).

2. The method according to claim 1, wherein generating the resource allocation informing format comprises:

generating the resource allocation informing format in response to that the UE is configured with a function for the early termination of uplink transmission.

3. The method according to claim 1, wherein generating the resource allocation informing format comprises:

generating the resource allocation informing format in response to that the UE is configured with a function for the early termination of uplink transmission and is currently performing an uplink transmission.

4. A method of interpreting information, being applicable to user equipment (UE), comprising:

receiving a resource allocation informing format sent by a base station, wherein the resource allocation informing format comprises one of reserve statuses in a physical resource block (PRB) resource assignment field is configured for indicating an early termination of uplink transmission while each of remaining reserve statuses is configured for indicating the resource allocation scheme;

determining an interpreting scheme for interpreting the PRB resource assignment field based on a current state, wherein the interpreting scheme corresponding to the resource allocation informing format;

interpreting a received current reserve status based on the determined interpreting scheme;
and

performing an operation based on an interpreted result;

wherein the PRB resource assignment field is a 5-bits bitmap, and the reserve status
5 11111 is configured for indicating the early termination of uplink transmission;

wherein each of the reserve statuses 10101 -11110 is configured for indicating the
resource allocation scheme;

wherein each of statuses 00000 -10100 is configured for indicating a PRB resource
allocation scheme within a narrowband (NB).

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5. The method according to claim 4, wherein in response to determining that the current
state comprises a current configuration, determining the interpreting scheme for interpreting
the PRB resource assignment field based on the current state comprises:

determining the interpreting scheme in response to that the UE is configured with a
15 function for the early termination of uplink transmission.

6. The method according to claim 4, wherein in response to determining that the current
state comprises a current configuration and a current operation, determining the interpreting
scheme for interpreting the PRB resource assignment field based on the current state
20 comprises:

determining the interpreting scheme in response to that the UE is configured with a
function for the early termination of uplink transmission and is currently performing an uplink
transmission.

25 7. The method according to any one of claims 4-6, wherein performing the operation
based on the interpreted result comprises:

terminating an ongoing repetition transmission of uplink data in response to that the
interpreted result is the current reserve status indicating the early termination of uplink
transmission.

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8. A base station, comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to:

generate a resource allocation informing format that comprises one of reserve statuses in a physical resource block (PRB) resource assignment field is configured for indicating an early termination of uplink transmission while each of remaining reserve statuses is configured for indicating the resource allocation scheme; and

5 send the resource allocation informing format to user equipment (UE);

 wherein the PRB resource assignment field is a 5-bits bitmap, and the reserve status 11111 is configured for indicating the early termination of uplink transmission;

 wherein each of the reserve statuses 10101 -11110 is configured for indicating the resource allocation scheme;

10 wherein each of statuses 00000 -10100 is configured for indicating a PRB resource allocation scheme within a narrowband (NB).

9. A user equipment, comprising:

a processor; and

15 a memory for storing instructions executable by the processor;

 wherein the processor is configured to:

 receive a resource allocation informing format sent by a base station, wherein the resource allocation informing format comprises one of reserve statuses in a physical resource block (PRB) resource assignment field is configured for indicating an early termination of uplink transmission while each of remaining reserve statuses is configured for indicating the resource allocation scheme;

20 determine an interpreting scheme for interpreting the PRB resource assignment field based on a current state, wherein the interpreting scheme corresponding to the resource allocation informing format;

25 interpret a received current reserve status based on the determined interpreting scheme; and

 perform an operation based on an interpreted result;

 wherein the PRB resource assignment field is a 5-bits bitmap, and the reserve status 11111 is configured for indicating the early termination of uplink transmission;

30 wherein each of the reserve statuses 10101 -11110 is configured for indicating the resource allocation scheme;

 wherein each of statuses 00000 -10100 is configured for indicating a PRB resource allocation scheme within a narrowband (NB).