

CLAIMS

What is claimed is:

1. An uplink control information transmission method, comprising:

receiving indication information, wherein the indication information is used to indicate a first
5 physical uplink control channel PUCCH resource and a quantity N of repeated transmissions, and
N is a positive integer;

determining the first PUCCH resource and the quantity N of repeated transmissions in a target
PUCCH resource set based on the indication information; and

repeatedly transmitting uplink control information UCI for N times by using the first PUCCH
10 resource and the quantity N of repeated transmissions, wherein N is a positive integer, and time
domain resources used for the N times of repeated transmitting of the UCI are resources in N sub-
slots, wherein the indication information is PUCCH resource indicator, PRI, in downlink control
information DCI.

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

determining the target PUCCH resource set in at least two PUCCH resource sets based on a
quantity of bits of the UCI, wherein the at least two PUCCH resource sets are configured for the
terminal device.

20 3. The method according to claim 1 or 2, wherein

the quantity N of repeated transmissions is configured for the first PUCCH resource in the
target PUCCH resource set.

4. The method according to any one of claims 1 to 3, wherein a PUCCH resource in each of
25 the N times of repeated of the UCI occupies a same number of symbols in time domain.

5. The method according to any one of claims 1 to 4, wherein each of PUCCH resources used
for the N times of repeated transmitting of the UCI has a same start position and a same number
of symbols in different sub-slots.

30

6. An uplink control information transmission method, comprising:

determining a first PUCCH resource and a quantity N of repeated transmissions in a target PUCCH resource set, wherein N is a positive integer;

sending indication information, wherein the indication information is used to indicate the first PUCCH resource and the quantity N of repeated transmissions in the target PUCCH resource set; and

repeatedly receiving uplink control information UCI for N times by using the first PUCCH resource and the quantity N of repeated transmissions, wherein N is a positive integer, and time domain resources used for the N times of repeated transmitting of the UCI are resources in N sub-slots, wherein the indication information is PUCCH resource indicator, PRI, in downlink control information DCI.

8. The method according to claim 7, wherein before the determining a first PUCCH resource and a quantity N of repeated transmissions in a target PUCCH resource set, the method further comprises:

sending configuration information, wherein the configuration information comprises a quantity of repeated transmissions corresponding to a PUCCH resource in a PUCCH resource set.

9. The method according to claim 7 or 8, wherein a PUCCH resource used for each of the N times of repeated transmitting of the UCI occupies a same number of symbols in time domain.

10. The method according to any one of claims 7 to 9, wherein each of PUCCH resources used for the N times of repeated transmitting of the UCI has a same start position and a same number of symbols in different sub-slots.

11. A communication apparatus, comprising at least one processor, wherein the at least one processor is connected to a memory, and the at least one processor is configured to read and execute a program stored in the memory, to enable the apparatus to perform the method according to any one of claims 1 to 10.

13. A chip, wherein the chip is coupled to a memory, and is configured to read and execute program instructions stored in the memory, to implement the method according to any one of claims 1 to 10.

5 14. A computer-readable storage medium, wherein the computer-readable storage medium stores computer instructions; and when the instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 10.

10 15. A computer program product, wherein when the computer program product is invoked by a computer, the computer is enabled to perform the method according to any one of claims 1 to 10.