

CLAIMS

What is claimed is:

1. A resource allocation method, comprising:

receiving, by a terminal device, first indication information, the first indication
5 information being used for indicating frequency domain units comprised in a first interlace
index on a first band width part (BWP); and

determining, by the terminal device, the frequency domain units comprised in the first
interlace index on the first BWP according to a first offset value and the first indication
information;

10 wherein the first offset value is determined according to the first BWP, a first SCS,
and a value of M; wherein the first SCS is a first SCS corresponding to the first BWP, the
value of M representing the total quantity of the interlaces comprised in the first BWP.

2. The method according to claim 1, wherein

the first offset value is configured for determining frequency domain units comprised
15 in a basic interlace index on the first BWP.

3. The method according to claim 1, wherein the determining, by the terminal device,
the frequency domain units comprised in the first interlace index on a first BWP according
to a first offset value and the first indication information comprises:

determining, by the terminal device, frequency domain units comprised in a basic
20 interlace index on the first BWP according to the first offset value; and

determining, by the terminal device, the frequency domain units comprised in the first
interlace index on the first BWP according to the frequency domain units comprised in the
basic interlace index and the first indication information.

4. The method according to claim 2 or 3, wherein a frequency domain unit X
25 comprised in the basic interlace index on the first BWP satisfies that:

$\text{Mod}(X, M) = \text{the first offset value}$, wherein

Mod represents a modulus operation, X represents an index of the frequency domain unit comprised in the basic interlace index, a value of X ranges from 0 to N-1, M represents a total quantity of interlaces comprised in the first BWP, N represents a total quantity of frequency domain units comprised in the first BWP, and M and N are positive integers.

5 5. The method according to claim 1, wherein the first offset value is configured for determining the frequency domain units comprised in in the first interlace index on the first BWP.

6. The method according to claim 1 or 5, wherein a frequency domain unit Y comprised in the first interlace index on the first BWP satisfies that:

10 $\text{Mod}(Y, M) = \text{the first offset value}$, wherein

Mod represents a modulus operation, Y represents an index of the frequency domain unit comprised in the first interlace index, and a value of Y ranges from 0 to N-1, M represents a total quantity of interlaces comprised in the first BWP, N represents a total quantity of frequency domain units comprised in the first BWP, and M and N are positive
15 integers.

7. The method according to any one of claims 1 to 6, wherein

the first offset value is preset; or

the first offset value is indicated to the terminal device by the network device according to second indication information.

20 8. The method according to claim 1, wherein

the value of M is preset; or

the value of M is determined according to the first BWP and the first SCS; or

the value of M is indicated to the terminal device by the network device according to third indication information.

25 9. The method according to any one of claims 1 to 8, further comprising a first frequency domain unit set comprises the frequency domain units comprised in the first

interlace index on the first BWP, wherein the first frequency domain unit set is configured for transmitting an uplink channel.

10. The method according to any one of claims 1 to 8, wherein

the frequency domain units comprised in the first interlace index on the first BWP
5 comprise at least a first sub-interlace and a second sub-interlace, wherein

the first sub-interlace comprises a M_{th} frequency domain unit in the frequency domain units comprised in the first interlace index, the second sub-interlace comprises a N_{th} frequency domain unit in the frequency domain units comprised in the first interlace index, wherein M is odd and N is even, or

10 the first sub-interlace comprises first P frequency domain units in the frequency domain units comprised in the first interlace index, the second sub-interlace comprises last Q frequency domain units in the frequency domain units, wherein P and Q are positive integers.

11. The method according to claim 10, wherein

15 a first frequency domain unit set comprises frequency domain units comprised in the first sub-interlace, or the first frequency domain unit set comprises frequency domain units comprised in the second sub-interlace,

wherein the first frequency domain unit set is configured for transmitting an uplink channel.

20 12. The method according to claim 11, wherein

the uplink channel comprises at least one of a physical random access channel, PRACH and a physical uplink control channel, PUCCH.

13. The method according to claim 9, 11 or 12, wherein

an orthogonal frequency division multiplexing, OFDM, waveform is configured for
25 signal transmission in the uplink channel; or

a single carrier waveform is configured for signal transmission in the uplink channel.

14. The method according to claim 13, wherein

in case that the single carrier waveform is configured for signal transmission in the uplink channel, quantity of frequency domain units for uplink channel transmission in the first frequency domain unit set is able to be integrally divided by 2, 3, and 5.

5 15. A terminal device, configured to perform the method according to any one of claims 1-14.