CLAIMS

[Claim 1] A communication method, wherein the method comprises:

determining a paging occasion based on an identifier of a terminal device; and monitoring a paging message on the paging occasion, wherein an index i_s of the paging occasion satisfies the following formula:

i_s=floor (UE_ID/N) mod Ns; and

floor is a floor operation, UE_ID is the identifier of the terminal device, N is a quantity of paging frames in a paging cycle, and if the terminal device runs in a network energy saving mode, Ns is greater than 4.

[Claim 2] The method according to claim 1, wherein Ns is a quantity of paging occasions POs corresponding to the paging frame PF.

[Claim 3] The method according to claim 1 or 2, wherein Ns is 8 or 16.

[Claim 4] The method according to any one of claims 1 to 3, wherein N is T/32, T/64, T/128, or T/256, and T is the paging cycle.

[Claim 5] The method according to any one of claims 1 to 4, wherein if the terminal device runs in the network energy saving mode, a quantity of bits of the identifier of the terminal device is greater than a quantity of bits for the terminal device that does not run in the network energy saving mode.

[Claim 6] The method according to claim 5, wherein if the terminal device runs in the network energy saving mode, the quantity of bits of the identifier of the terminal device is greater than 12.

[Claim 7] The method according to claim 5 or 6, wherein the terminal device runs in the network energy saving mode, the identifier of the terminal device is 5G-S-TMSI mod 4096, and 5G-S-TMSI is a 5G temporary mobile subscription identifier of the terminal device.

[Claim 8] A communication method, wherein the method comprises:

determining a paging occasion based on an identifier of a terminal device; and sending a paging message on the paging occasion, wherein an index i_s of the paging occasion satisfies the following formula:

i_s=floor (UE_ID/N) mod Ns; and

floor is a floor operation, UE_ID is the identifier of the terminal device, N is a quantity of paging frames in a paging cycle, and if the terminal device runs in a network energy saving mode, Ns is greater than 4.

[Claim 9] The method according to claim 8, wherein Ns is a quantity of paging occasions POs corresponding to the paging frame PF.

[Claim 10] The method according to claim 8 or 9, wherein Ns is 8 or 16.

[Claim 11] The method according to any one of claims 8 to 10, wherein N is T/32, T/64, T/128, or T/256, and T is the paging cycle.

[Claim 12] The method according to any one of claims 8 to 11, wherein if the terminal device runs in the network energy saving mode, a quantity of bits of the identifier of the terminal device is greater than a quantity of bits for the terminal device that does not run in the network energy saving mode.

[Claim 13] The method according to claim 12, wherein if the terminal device runs in the network energy saving mode, the quantity of bits of the identifier of the terminal device is greater than 12.

[Claim 14] The method according to claim 12 or 13, wherein the terminal device runs in the network energy saving mode, the identifier of the terminal device is 5G-S-TMSI mod 4096, and 5G-S-TMSI is a 5G temporary mobile subscription identifier of the terminal device.

[Claim 15] A communication apparatus, comprising a unit or module configured to perform the method according to any one of claims 1 to 7, comprising a unit or module configured to perform the method according to any one of claims 8 to 14.

[Claim 16] A communication apparatus, comprising a processor and a memory, wherein the memory is configured to store program instructions, and when the processor executes the program instructions, the method according to any one of claims 1 to 7 is performed, the method according to any one of claims 8 to 14 is performed.

[Claim 17] A computer-readable storage medium, wherein the computer storage medium stores computer-readable instructions, and when the computer-readable instructions are run on a communication apparatus, the method according to any one of claims 1 to 7 is performed, the method according to any one of claims 8 to 14 is performed.