CLAIMS

1. An uplink transmission method, performed by a terminal device, or performed by a chip or a circuit of a terminal device, comprising:

receiving first signaling from a network device, wherein the first signaling indicates the terminal device to send a first signal in a first slot set, the first signaling carries first indication information, second indication information, third indication information, and fourth indication information, the first indication information indicates a quantity N1 of slots in the first slot set, the second indication information indicates a first reference slot, the third indication information indicates a start symbol in a slot, the fourth indication information indicates a symbol length L in a slot, N1 and L are positive integers, and the first signal is carried on a first physical uplink shared channel PUSCH or a first physical uplink control channel PUCCH;

determining the first slot set, wherein the first slot set is a set of N1 slots that start from the first reference slot and are closest to the first reference slot and that do not meet a first condition, and the first condition comprises:

a first symbol set of a first slot comprises a non-subband full duplex SBFD symbol and an SBFD symbol, wherein

the non-SBFD symbol comprises at least one of a flexible symbol or an uplink symbol, the first slot is a slot traversed forward from the first reference slot, the first symbol set of the first slot is determined based on the third indication information and the fourth indication information, and the first symbol set comprises L consecutive symbols; and

sending the first signal to the network device on a first symbol set corresponding to each slot in the first slot set.

2. An uplink transmission method, performed by a terminal device, or performed by a chip or a circuit of a terminal device, comprising:

receiving first signaling from a network device, wherein the first signaling indicates the terminal device to send a first signal in a first slot set, the first signaling carries first indication information, second indication information, third indication information, and fourth indication information, the first indication information indicates a quantity N1 of slots in the first slot set, the second indication information indicates a first reference slot, the third indication information indicates a start symbol in a slot, the fourth indication information indicates a symbol length L in a slot, N1 and L are positive integers, and the first signal is carried on a first physical uplink shared channel PUSCH or a first physical uplink control channel PUCCH;

determining the first slot set, wherein the first slot set is a set of slots in a second slot set other than a slot that meets a first condition, the second slot set comprises N1 consecutive slots

comprising the first reference slot and a subsequent slot, and the first condition comprises:

a first symbol set of a first slot comprises a non-subband full duplex SBFD symbol and an SBFD symbol, wherein

the non-SBFD symbol comprises at least one of a flexible symbol or an uplink symbol, the first slot is a slot traversed forward from the first reference slot, the first symbol set of the first slot is determined based on the third indication information and the fourth indication information, and the first symbol set comprises L consecutive symbols; and

sending the first signal to the network device on a first symbol set corresponding to each slot in the first slot set.

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

receiving first information from the network device, wherein the first information indicates that simultaneous transmission on a non-SBFD symbol and an SBFD symbol in one slot is not supported.

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

receiving second information from the network device, wherein the second information comprises a first parameter, a second parameter, and a third parameter, the first parameter indicates whether the network device needs to switch an antenna panel, the second parameter indicates whether the network device needs to switch a filter, and the third parameter indicates whether the network device indicates the terminal device to perform timing advance TA adjustment; and

when an operation indicated by at least one of the first parameter, the second parameter, and the third parameter needs to be performed, determining that the network device does not support simultaneous transmission on a non-SBFD symbol and an SBFD symbol in one slot.

5. An uplink transmission method, performed by a network device, or performed by a chip or a circuit of a network device, comprising:

sending first signaling to a terminal device, wherein the first signaling indicates the terminal device to send a first signal in a first slot set, the first signaling carries first indication information, second indication information, third indication information, and fourth indication information, the first indication information indicates a quantity N1 of slots in the first slot set, the second indication information indicates a first reference slot, the third indication information indicates a start symbol in a slot, the fourth indication information indicates a symbol length L in a slot, N1 and L are positive integers, and the first signal is carried on a first physical uplink shared channel PUSCH or a first physical uplink control channel PUCCH;

determining the first slot set, wherein the first slot set is a set of N1 slots that start from the first reference slot and are closest to the first reference slot and that do not meet a first condition, and the first condition comprises:

a first symbol set of a first slot comprises a non-subband full duplex SBFD symbol and an SBFD symbol, wherein

the non-SBFD symbol comprises at least one of a flexible symbol or an uplink symbol, the first slot is a slot traversed forward from the first reference slot, the first symbol set of the first slot is determined based on the third indication information and the fourth indication information, and the first symbol set comprises L consecutive symbols; and

receiving the first signal from the terminal device on a first symbol set corresponding to each slot in the first slot set.

6. An uplink transmission method, performed by a network device, or performed by a chip or a circuit of a network device, comprising:

sending first signaling to a terminal device, wherein the first signaling indicates the terminal device to send a first signal in a first slot set, the first signaling carries first indication information, second indication information, third indication information, and fourth indication information, the first indication information indicates a quantity N1 of slots in the first slot set, the second indication information indicates a first reference slot, the third indication information indicates a start symbol in a slot, the fourth indication information indicates a symbol length L in a slot, N1 and L are positive integers, and the first signal is carried on a first physical uplink shared channel PUSCH or a first physical uplink control channel PUCCH;

determining the first slot set, wherein the first slot set is a set of slots in a second slot set other than a slot that meets a first condition, the second slot set comprises N1 consecutive slots comprising the first reference slot and a subsequent slot, and the first condition comprises:

a first symbol set of a first slot comprises a non-subband full duplex SBFD symbol and an SBFD symbol, wherein

the non-SBFD symbol comprises at least one of a flexible symbol or an uplink symbol, the first slot is a slot traversed forward from the first reference slot, the first symbol set of the first slot is determined based on the third indication information and the fourth indication information, and the first symbol set comprises L consecutive symbols; and

receiving the first signal from the terminal device on a first symbol set corresponding to each slot in the first slot set.

7. The method according to claim 5 or 6, wherein the method further comprises:

sending first information to the terminal device, wherein the first information indicates that simultaneous transmission on a non-SBFD symbol and an SBFD symbol in one slot is not supported.

8. The method according to claim 5 or 6, wherein the method further comprises:

sending second information to the terminal device, wherein the second information comprises

a first parameter, a second parameter, and a third parameter, the first parameter indicates whether the network device needs to switch an antenna panel, the second parameter indicates whether the network device needs to switch a filter, the third parameter indicates whether the network device indicates the terminal device to perform timing advance TA adjustment, and an operation indicated by at least one of the first parameter, the second parameter, and the third parameter needs to be performed.

9. An uplink transmission method, performed by a terminal device, or performed by a chip or a circuit of a terminal device, comprising:

receiving first signaling from a network device, wherein the first signaling indicates the terminal device to send a first signal in a first slot set, the first signaling carries first indication information, second indication information, third indication information, and fourth indication information, the first indication information indicates a quantity N1 of slots in the first slot set, the second indication information indicates a first reference slot, the third indication information indicates a start symbol in a slot, the fourth indication information indicates a symbol length L in a slot, N1 and L are positive integers, and the first signal is carried on a first physical uplink shared channel PUSCH or a first physical uplink control channel PUCCH;

determining the first slot set, wherein the first slot set is a set of N1 slots that start from the first reference slot and are closest to the first reference slot and that do not meet a second condition, and the second condition comprises:

a symbol type of at least one symbol in a first symbol set of a first slot is different from a first symbol type, wherein

the first symbol type is non-subband full duplex SBFD symbol or SBFD symbol, the non-SBFD symbol comprises at least one of a flexible symbol or an uplink symbol, the first slot is a slot traversed forward from the first reference slot, a first symbol set of any slot is determined based on the third indication information and the fourth indication information, and the first symbol set comprises L consecutive symbols; and

sending the first signal to the network device on a first symbol set corresponding to each slot in the first slot set.

10. An uplink transmission method, performed by a terminal device, or performed by a chip or a circuit of a terminal device, comprising:

receiving first signaling from a network device, wherein the first signaling indicates the terminal device to send a first signal in a first slot set, the first signaling carries first indication information, second indication information, third indication information, and fourth indication information, the first indication information indicates a quantity N1 of slots in the first slot set, the second indication information indicates a first reference slot, the third indication information

indicates a start symbol in a slot, the fourth indication information indicates a symbol length L in a slot, N1 and L are positive integers, and the first signal is carried on a first physical uplink shared channel PUSCH or a first physical uplink control channel PUCCH;

determining the first slot set, wherein the first slot set is a set of slots in a second slot set other than a slot that meets a second condition, the second slot set comprises N1 consecutive slots comprising the first reference slot and a subsequent slot, and the second condition comprises:

a symbol type of at least one symbol in a first symbol set of a first slot is different from a first symbol type, wherein

the first symbol type is non-subband full duplex SBFD symbol or SBFD symbol, the non-SBFD symbol comprises at least one of a flexible symbol or an uplink symbol, the first slot is a slot traversed forward from the first reference slot, a first symbol set of any slot is determined based on the third indication information and the fourth indication information, and the first symbol set comprises L consecutive symbols; and

sending the first signal to the network device on a first symbol set corresponding to each slot in the first slot set.

11. The method according to claim 9 or 10, wherein

any symbol in a first symbol set of the first reference slot is a non-SBFD symbol, and the first symbol type is non-SBFD symbol; or

any symbol in a first symbol set of the first reference slot is an SBFD symbol, and the first symbol type is SBFD symbol.

12. The method according to claim 9 or 10, wherein when a first symbol set of the first reference slot comprises a downlink symbol, the first symbol type is determined based on a second slot, wherein the second slot is a 1st slot that is after the first reference slot and in which all symbols in a first symbol set are SBFD symbols or non-SBFD symbols, and when any symbol in the first symbol set of the second slot is a non-SBFD symbol, the first symbol type is non-SBFD symbol, or when any symbol in the first symbol set of the second slot is an SBFD symbol, the first symbol type is SBFD symbol.

13. The method according to claim 9 or 10, wherein when a first symbol set of the first reference slot comprises an SBFD symbol and a non-SBFD symbol, the first symbol type is determined based on a second slot, wherein the second slot is a 1st slot that is after the first reference slot and in which all symbols in a first symbol set are SBFD symbols or non-SBFD symbols, and when any symbol in the first symbol set of the second slot is a non-SBFD symbol, the first symbol type is non-SBFD symbol, or when any symbol in the first symbol set of the second slot is an SBFD symbol, the first symbol type is SBFD symbol.

14. The method according to claim 9 or 10, wherein the first signaling further comprises the

first symbol type.

15. The method according to claim 9 or 10, wherein the first signaling further comprises a first frequency range, and the first frequency range is a frequency range for sending the first signal; and

if the first frequency range is not completely comprised in a frequency range of an uplink subband of an SBFD symbol, the first symbol type is non-SBFD symbol; or if the first frequency range is completely comprised in a frequency range of an uplink subband of an SBFD symbol, the first symbol type is SBFD symbol.

16. An uplink transmission method, performed by a network device, or performed by a chip or a circuit of a network device, comprising:

sending first signaling to a terminal device, wherein the first signaling indicates the terminal device to send a first signal in a first slot set, the first signaling carries first indication information, second indication information, third indication information, and fourth indication information, the first indication information indicates a quantity N1 of slots in the first slot set, the second indication information indicates a first reference slot, the third indication information indicates a start symbol in a slot, the fourth indication information indicates a symbol length L in a slot, N1 and L are positive integers, and the first signal is carried on a first physical uplink shared channel PUSCH or a first physical uplink control channel PUCCH;

determining the first slot set, wherein the first slot set is a set of N1 slots that start from the first reference slot and are closest to the first reference slot and that do not meet a second condition, and the second condition comprises:

a symbol type of at least one symbol in a first symbol set of a first slot is different from a first symbol type, wherein

the first symbol type is non-subband full duplex SBFD symbol or SBFD symbol, the non-SBFD symbol comprises at least one of a flexible symbol or an uplink symbol, the first slot is a slot traversed forward from the first reference slot, a first symbol set of any slot is determined based on the third indication information and the fourth indication information, and the first symbol set comprises L consecutive symbols; and

receiving the first signal from the terminal device on a first symbol set corresponding to each slot in the first slot set.

17. An uplink transmission method, performed by a network device, or performed by a chip or a circuit of a network device, comprising:

sending first signaling to a terminal device, wherein the first signaling indicates the terminal device to send a first signal in a first slot set, the first signaling carries first indication information, second indication information, third indication information, and fourth indication information, the

first indication information indicates a quantity N1 of slots in the first slot set, the second indication information indicates a first reference slot, the third indication information indicates a start symbol in a slot, the fourth indication information indicates a symbol length L in a slot, N1 and L are positive integers, and the first signal is carried on a first physical uplink shared channel PUSCH or a first physical uplink control channel PUCCH;

determining the first slot set, wherein the first slot set is a set of slots in a second slot set other than a slot that meets a second condition, the second slot set comprises N1 consecutive slots comprising the first reference slot and a subsequent slot, and the second condition comprises:

a symbol type of at least one symbol in a first symbol set of a first slot is different from a first symbol type, wherein

the first symbol type is non-subband full duplex SBFD symbol or SBFD symbol, the non-SBFD symbol comprises at least one of a flexible symbol or an uplink symbol, the first slot is a slot traversed forward from the first reference slot, a first symbol set of any slot is determined based on the third indication information and the fourth indication information, and the first symbol set comprises L consecutive symbols; and

receiving the first signal from the terminal device on a first symbol set corresponding to each slot in the first slot set.

18. The method according to claim 16 or 17, wherein

any symbol in a first symbol set of the first reference slot is a non-SBFD symbol, and the first symbol type is non-SBFD symbol; or

any symbol in a first symbol set of the first reference slot is an SBFD symbol, and the first symbol type is SBFD symbol.

19. The method according to claim 16 or 17, wherein when a first symbol set of the first reference slot comprises a downlink symbol, the first symbol type is determined based on a second slot, wherein the second slot is a 1^{st} slot that is after the first reference slot and in which all symbols in a first symbol set are SBFD symbols or non-SBFD symbols, and when any symbol in the first symbol set of the second slot is a non-SBFD symbol, the first symbol type is non-SBFD symbol, or when any symbol in the first symbol set of the second slot is an SBFD symbol, the first symbol type is SBFD symbol.

20. The method according to claim 16 or 17, wherein when a first symbol set of the first reference slot comprises an SBFD symbol and a non-SBFD symbol, the first symbol type is determined based on a second slot, wherein the second slot is a 1^{st} slot that is after the first reference slot and in which all symbols in a first symbol set are SBFD symbols or non-SBFD symbols, and when any symbol in the first symbol set of the second slot is a non-SBFD symbol, the first symbol type is non-SBFD symbol, or when any symbol in the first symbol set of the second slot is an

SBFD symbol, the first symbol type is SBFD symbol.

21. The method according to claim 16 or 17, wherein the first signaling further comprises the first symbol type.

22. The method according to claim 16 or 17, wherein the first signaling further comprises a first frequency range, and the first frequency range is a frequency range for sending the first signal; and

if the first frequency range is not completely comprised in a frequency range of an uplink subband of an SBFD symbol, the first symbol type is non-SBFD symbol; or if the first frequency range is completely comprised in a frequency range of an uplink subband of an SBFD symbol, the first symbol type is SBFD symbol.

23. A communication apparatus, wherein the communication apparatus comprises at least one processor and at least one memory, the at least one memory is configured to store a computer program or instructions, and the at least one processor is configured to execute the computer program or the instructions in the memory, so that the method according to any one of claims 1 to 4 is performed, or the method according to any one of claims 9 to 15 is performed, or the method according to any one of claims 5 to 8 is performed, or the method according to any one of claims 16 to 22 is performed.

24. A computer-readable storage medium, wherein the computer-readable storage medium stores computer instructions, and when the computer instructions are run on a computer, the method according to any one of claims 1 to 4 is performed, or the method according to any one of claims 9 to 15 is performed, or the method according to any one of claims 5 to 8 is performed, or the method according to any one of claims 16 to 22 is performed.

25. A computer program product, wherein the computer program product comprises computer program code, and when the computer program code is run on a computer, the method according to any one of claims 1 to 4 is performed, or the method according to any one of claims 9 to 15 is performed, or the method according to any one of claims 5 to 8 is performed, or the method according to any one of claims 16 to 22 is performed.