CLAIMS

What is claimed is:

1. A resource determining method, comprising:

determining, in a time unit n based on at least two resource reservation period parameters $\{P_1', P_2', \ldots, P_T'\}$, a sensing time unit set corresponding to a candidate time unit t_y, wherein the sensing time unit set comprises: $\left\{\{t_{y-1\times P_1'}, t_{y-2\times P_1'}, \ldots, t_{y-M\times P_1'}\}, \{t_{y-1\times P_2'}, t_{y-2\times P_2'}, \ldots, t_{y-M\times P_2'}\}, \ldots, \{t_{y-1\times P_T'}, t_{y-2\times P_T'}, \ldots, t_{y-M\times P_T'}\}\right\}$, wherein T is a positive integer greater than or equal to 2, M is a positive integer greater than or equal to 2, the candidate time unit t_y is located in a resource selection window after the time unit n, and the sensing time unit set is located before the time unit n; and

excluding, based on a sensing result in the sensing time unit set, an unavailable candidate resource unit in the candidate time unit t_y.

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

receiving first configuration signaling, wherein the first configuration signaling indicates configuration information of M.

3. The method according to claim 1 or 2, further comprising:

converting at least two resource reservation period intervals $\{P_1, P_2, \ldots, P_T\}$ to obtain the at least two resource reservation period parameters $\{P_1', P_2', \ldots, P_T'\}$, whereinthe at least two resource reservation period intervals $\{P_1, P_2, \ldots, P_T\}$ are preconfigured.

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

receiving second configuration signaling, wherein the second configuration signaling indicates the at least two resource reservation period intervals $\{P_1, P_2, \ldots, P_T\}$; and

converting at least two resource reservation period intervals $\{P_1, P_2, \ldots, P_T\}$ to obtain the at least two resource reservation period parameters $\{P_1', P_2', \ldots, P_T'\}$.

5. The method according to claim 3 or 4, wherein the second configuration signaling further comprises configuration information of a sidelink resource pool, and the resource selection window, the sensing time unit set, and the time unit n belong to the sidelink resource pool.

6. The method according to any one of claims 2 to 4, wherein the first configuration signaling or the second configuration signaling is a system information block SIB, radio resource control

RRC signaling, or physical layer control information.

7. The method according to any one of claims 1 to 6, wherein M is equal to 2, the sensing time unit set comprises $\left\{\{t_{y-1\times P_i'}, t_{y-2\times P_i'}\}\right\}$, P_i' is a resource reservation period parameter of the at least two resource reservation period parameters, and $i = 1,2,\dots,T$.

8. The method according to any one of claims 1 to 7, wherein M is determined based on one or more values of the at least one resource reservation period parameter $\{P_1', P_2', \dots, P_T'\}$.

9. A communication apparatus, comprising:

a processing module, configured to determine, in a time unit n based on at least two resource reservation period parameters $\{P_1', P_2', \dots, P_T'\}$, a sensing time unit set corresponding to a candidate time unit t_y, wherein the sensing time unit set comprises: $\left\{\{t_{y-1\times P_1'}, t_{y-2\times P_1'}, \dots, t_{y-M\times P_1'}\}, \{t_{y-1\times P_2'}, t_{y-2\times P_2'}, \dots, t_{y-M\times P_2'}\}, \dots, \{t_{y-1\times P_T'}, t_{y-2\times P_T'}, \dots, t_{y-M\times P_T'}\}\right\}$, wherein T is a positive integer greater than or equal to 2, M is a positive integer greater than or equal to 2, the candidate time unit t_y is located in a resource selection window after the time unit n, and the sensing time unit set is located before the time unit n; and

the processing module is further configured to exclude, based on a sensing result in the sensing time unit set, an unavailable candidate resource unit in the candidate time unit t_y.

10. The apparatus according to claim 9, further comprises:

a transceiver module, configured to receive first configuration signaling, wherein the first configuration signaling indicates configuration information of M.

11. The apparatus according to claim 9 or 10, wherein the processing module is further configured to:

convert at least two resource reservation period intervals $\{P_1, P_2, \dots, P_T\}$ to obtain the at least two resource reservation period parameters $\{P_1', P_2', \dots, P_T'\}$.

12. The appatatus according to claim 11, wherein the transceiver module is further configured to receive second configuration signaling, wherein the second configuration signaling indicates the at least two resource reservation period intervals $\{P_1, P_2, \dots, P_T\}$.

13. The apparatus according to claim 12, wherein the second configuration signaling further comprises configuration information of a sidelink resource pool, and the resource selection window, the sensing time unit set, and the time unit n belong to the sidelink resource pool.

14. The apparatus according to any one of claims 9 to 13, wherein the first configuration signaling or the second configuration signaling is a system information block SIB, radio resource control RRC signaling, or physical layer control information.

15. The apparatus according to any one of claims 9 to 14, wherein M is equal to 2, the sensing time unit set comprises $\left\{\{t_{y-1\times P_i'}, t_{y-2\times P_i'}\}\right\}$, P_i' is a resource reservation period parameter of the at least two resource reservation period parameters, and $i = 1,2,\ldots,T$.

16. The apparutus according to any one of claims 9 to 15, wherein M is determined based on one or more values of the at least one resource reservation period parameter $\{P_1', P_2', \ldots, P_T'\}$.

17. A computer-readable storage medium, comprising instructions, wherein when the instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 8 or according to any one of claims 9 to 16.

18. An apparatus comprising a processor and a storage medium storing instructions for execution by the processor such that, when the instruction are executed, the processor is configured to cause the apparatus to carry out the method according to any one of claims 1 to 8 or according to any one of claims 9 to 16.