WHAT IS CLAIMED IS:

1. A method for controlling a sidelink (SL), performed by a first user equipment (UE) and comprising:

monitoring an SL channel within a timing duration that is during a first timer running, wherein the first timer is configured to start after an SL transmission.

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

starting the first timer in response to the SL transmission; or

starting the first timer after receiving a feedback indication returned after the SL transmission.

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

starting the first timer after sending an SL medium access control (MAC) protocol data unit (PDU).

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

starting a second timer after sending an SL MAC PDU;

starting the first timer after the second timer expires.

5. The method according to any one of claims 1 to 4, wherein monitoring the SL channel comprises at least one of:

monitoring a physical sidelink control channel (PSCCH); ~~and/~~or

monitoring a physical sidelink shared channel (PSSCH).

6. The method according to any one of claims 1 to 5, further comprising:

determining the timing duration of the first timer.

7. The method according to claim 6, wherein determining the timing duration of the first timer comprises:

determining the timing duration of the first timer based on a destination address of the SL transmission.

8. The method according to claim 7, further comprising one of following:

pre-configuring the destination address of the SL transmission and the timing duration of the first timer corresponding to the destination address;

obtaining the destination address of the SL transmission and the timing duration

of the first timer corresponding to the destination address which are configured by a base station;

configuring the destination address of the SL transmission and the timing duration of the first timer corresponding to the destination address via a high layer of the first UE;

receiving a destination address and the timing duration of the first timer which are sent by a second UE in response to the first UE establishing a unicast connection with the second UE, wherein the destination address comprises an address of the second UE.

9. The method according to claim 6, wherein determining the timing duration of the first timer comprises:

determining the timing duration of the first timer based on a logical channel mapped to the SL transmission.

10. The method according to claim 9, wherein determining the timing duration of the first timer based on the logical channel mapped to the SL transmission comprises:

selecting, from the first timers in a plurality of logical channels, a longest timing duration as the timing duration of the first timer started after the SL transmission in response to the logical channel mapped to the SL transmission being the plurality of logical channels configured with the first timers.

11. The method according to claim 9, further comprising one of following:

pre-configuring the logical channel mapped to the SL transmission and the timing duration of the first timer corresponding to the logical channel;

obtaining the logical channel mapped to the SL transmission and the timing duration of the first timer corresponding to the logical channel which are configured by a base station;

configuring the logical channel mapped to the SL transmission and the timing duration of the first timer corresponding to the logical channel via a high layer of the first UE;

receiving the logical channel and the timing duration of the first timer corresponding to the logical channel which are sent by a second UE in response to the

first UE establishing a unicast connection with the second UE.

12. The method according to claim 11, wherein receiving the timing duration of the first timer sent by the second UE comprises:

receiving the timing duration of the first timer sent by the second UE via an SL radio resource control (RRC) message; or

receiving the timing duration of the first timer sent by the second UE via an SL MAC control element (CE).

13. The method according to claim 7, further comprising:

not starting the first timer in response to the first timer being not configured for a UE indicated by the destination address of the SL transmission.

14. An apparatus for controlling a sidelink (SL), applied to a first user equipment (UE) and comprising:

a monitoring module configured to monitor an SL channel within a timing duration that is during a first timer running, wherein the first timer is configured to start after an SL transmission.

15. The apparatus according to claim 14, further comprising:

a starting module configured to start the first timer in response to the SL transmission; or

a starting module configured to start the first timer after receiving a feedback indication returned after the SL transmission.

16. The apparatus according to claim 14 or 15, further comprising:

a starting module configured to start the first timer after sending an SL medium access control (MAC) protocol data unit (PDU).

17. The apparatus according to claim 14 or 15, further comprising:

a starting module configured to start a second timer after sending an SL MAC PDU; and start the first timer after the second timer expires.

18. The apparatus according to any one of claims 14 to 17, wherein

the monitoring module configured to monitor a physical sidelink control channel (PSCCH), and/or monitor a physical sidelink shared channel (PSSCH).

~~19. The apparatus according to any one of claims 14 to 18, further comprising:~~

~~the determining module configured to determine the timing duration of the first timer.~~

~~20. The apparatus according to claim 19, wherein~~

~~the determining module configured to determine the timing duration of the first timer based on a destination address of the SL transmission.~~

~~21. The apparatus according to claim 20, wherein the determining module is configured to:~~

~~pre-configure the destination address of the SL transmission and the timing duration of the first timer corresponding to the destination address;~~

~~obtain the destination address of the SL transmission and the timing duration of the first timer corresponding to the destination address which are configured by a base station;~~

~~configure the destination address of the SL transmission and the timing duration of the first timer corresponding to the destination address;~~

~~receive a destination address and the timing duration of the first timer which are sent by a second UE in response to the first UE establishing a unicast connection with the second UE, wherein the destination address comprises an address of the second UE.~~

~~22. The apparatus according to claim 19, wherein~~

~~the determining module is configured to determine the timing duration of the first timer based on a logical channel mapped to the SL transmission.~~

~~23. The apparatus according to claim 22, wherein~~

~~the determining module is configured to select, from the first timers in a plurality of logical channels, a longest timing duration as the timing duration of the first timer started after the SL transmission in response to the logical channel mapped to the SL transmission being the plurality of logical channels configured with the first timers.~~

~~24. The apparatus according to claim 22, wherein the determining module is configured to:~~

~~pre-configure the logical channel mapped to the SL transmission and the timing~~

~~duration of the first timer corresponding to the logical channel;~~

~~obtain the logical channel mapped to the SL transmission and the timing duration of the first timer corresponding to the logical channel which are configured by a base station;~~

~~configure the logical channel mapped to the SL transmission and the timing duration of the first timer corresponding to the logical channel;~~

~~receive the logical channel and the timing duration of the first timer corresponding to the logical channel which are sent by a second UE in response to the first UE establishing a unicast connection with the second UE.~~

~~25. The apparatus according to claim 24, wherein~~

~~the determining module is configured to receive the timing duration of the first timer sent by the second UE via an SL radio resource control (RRC) message; or~~

~~the determining module is configured to receive the timing duration of the first timer sent by the second UE via an SL MAC control element (CE).~~

~~26. The apparatus according to claim 20, wherein~~

~~the starting module is configured to not start the first timer in response to the first timer being not configured for a UE indicated by the destination address of the SL transmission.~~

~~27~~19. A communication device, comprising:

a processor;

a memory for storing instructions executable by the processor;

wherein the processor is configured to implement the method for controlling the SL according to any one of claims 1 to 13 when running the executable instructions.

~~28~~20. A computer storage medium having stored therein a computer executable program that, when executed by a processor, causes the method for controlling the SL according to any one of claims 1 to 13 to be implemented.