

CLAIMS

- 5 1. A method for transmitting a sounding reference signal (SRS), comprising:
determining, by a terminal device within a slot, multiple Orthogonal Frequency
Division Multiplexing (OFDM) symbols for sending an SRS of the terminal device;
determining, by the terminal device according to a frequency-domain resource
hopping pattern, an index of each of the multiple OFDM symbols and an index of the
10 slot, a frequency-domain resource for sending the SRS on each of the OFDM symbols;
and
sending, by the terminal device, the SRS to a network device according to the
frequency-domain resource for sending the SRS.
- 15 2. The method of claim 1, wherein the frequency-domain resource hopping pattern is
 $f(k) = \text{mod} [g(m) + k \times d(i), N]$, $f(k)$ being a frequency-domain start position of a
frequency-domain resource for sending the SRS in an OFDM symbol with an index k
in the slot, k being a positive integer, $d(i)$ being a hopping parameter obtained based on
a hopping ID i , $g(m)$ being a value of a frequency-domain resource position obtained
20 based on an index m of the slot, and N being an allowable maximum value of a hopping
start position.
3. A terminal device, comprising:
a determination unit, configured to determine multiple Orthogonal Frequency
25 Division Multiplexing (OFDM) symbols for sending a sounding reference signal (SRS)
of the terminal device within a slot, wherein
the determination unit is further configured to determine, according to a
frequency-domain resource hopping pattern of the terminal device, an index of
each of the multiple OFDM symbols and an index of the slot, a frequency-
30 domain resource for sending the SRS on each of the OFDM symbols; and
a sending unit, configured to send the SRS to a network device according to the
frequency-domain resource for sending the SRS determined by the determination unit.

4. The terminal device of claim 3, wherein the frequency-domain resource hopping pattern is $f(k)=\text{mod}[g(m)+k \times d(i), N]$, $f(k)$ being a frequency-domain start position of a frequency-domain resource for sending the SRS in an OFDM symbol with an index k in the slot, k being a positive integer, $d(i)$ being a hopping parameter obtained based on a hopping ID i , $g(m)$ being a value of a frequency-domain resource position obtained based on an index m of the slot, and N being an allowable maximum value of a hopping start position.

5. A network device, comprising:
10 a determination unit, configured to determine multiple Orthogonal Frequency Division Multiplexing (OFDM) symbols for receiving a sounding reference signal (SRS) sent by a terminal device within a slot, wherein
the determination unit is further configured to determine, according to a frequency-domain resource hopping pattern, an index of each of the multiple
15 OFDM symbols and an index of the slot, a frequency-domain resource for receiving the SRS on each of the OFDM symbols; and
a receiving unit, configured to receive, according to the frequency-domain resource for receiving the SRS determined by the determination unit, the SRS sent by the terminal device.

20 6. The network device of claim 5, wherein the frequency-domain resource hopping pattern is $f(k)=\text{mod}[g(m)+k \times d(i), N]$, $f(k)$ being a frequency-domain start position of a frequency-domain resource for receiving the SRS in an OFDM symbol with an index k in the slot, k being a positive integer, $d(i)$ being a hopping parameter obtained based on a hopping ID i , $g(m)$ being a value of a frequency-domain resource position obtained based on an index m of the slot, and N being an allowable maximum value of a hopping start position.