

WHAT IS CLAIMED IS:

1. A method of receiving a synchronization signal and physical broadcast channel (SS/PBCH) block by a user equipment (UE) operating on a frequency band above 6GHz in a wireless communication system, the method comprising:

receiving system information including (i) first information related to one or more SS/PBCH block groups and (ii) second information related to one or more SS/PBCH blocks within each of the one or more of SS/PBCH block groups; and

receiving the SS/PBCH block based on the first information and the second information,

wherein the first information informs the UE of the one or more SS/PBCH block groups, in each of which the one or more SS/PBCH blocks are transmitted,

wherein the second information informs the UE of the one or more transmitted SS/PBCH blocks within each of the one or more SS/PBCH block groups,

wherein the second information is commonly used for the one or more SS/PBCH block groups informed by the first information,

wherein each of the one or more transmitted SS/PBCH blocks includes a primary synchronization signal (PSS), a secondary synchronization signal (SSS), and a physical broadcast channel (PBCH) signal, and

wherein the first information is in a form of a bitmap and a length of the bitmap is 8 bits.

2. The method of claim 1, wherein a value 1 in the bitmap indicates that the SS/PBCH blocks are transmitted.

3. The method of claim 1, wherein the second information is in a form of a bitmap.

4. The method of claim 3, wherein a value 0 in the bitmap indicates that the corresponding SS/PBCH block is not transmitted while the value 1 indicates that the corresponding SS/PBCH block is transmitted.

5. The method of claim 1, wherein the second information comprises a number of the one or more transmitted SS/PBCH blocks.

6. The method of claim 1, wherein the system information is received in a system information block (SIB).

7. The method of claim 1, wherein the UE assumes that reception occasions on a PBCH, PSS and SSS are in consecutive symbols and form a SS/PBCH block.

8. A user equipment (UE) configured to operate on a frequency band above 6GHz and to receive a synchronization signal and physical broadcast channel (SS/PBCH) block in a wireless communication system, the UE comprising:

a transceiver;

at least one processor; and

at least one computer memory operably connectable to the at least one processor and storing instructions that, when executed by the at least one processor, perform operations comprising:

receiving, through the transceiver, system information including (i) first information related to one or more SS/PBCH block groups and (ii) second information related to one or more SS/PBCH blocks within each of the one or more of SS/PBCH block groups, and

receiving, through the transceiver, the SS/PBCH block based on the first information and the second information,

wherein the first information informs the UE of the one or more SS/PBCH block groups, in each of which the one or more SS/PBCH blocks are transmitted,

wherein the second information informs the UE of the one or more transmitted SS/PBCH blocks within each of the one or more SS/PBCH block groups,

wherein the second information is commonly used for the one or more SS/PBCH block groups informed by the first information,

wherein each of the one or more transmitted SS/PBCH blocks includes a primary synchronization signal (PSS), a secondary synchronization signal (SSS), and a physical broadcast channel (PBCH) signal, and

wherein the first information is in a form of a bitmap and a length of the bitmap is 8 bits.

9. The UE of claim 8, wherein a value 1 in the bitmap indicates that the SS/PBCH blocks are transmitted.

10. The UE of claim 8, wherein the second information is in a form of a bitmap.

11. The UE of claim 10, wherein a value 0 in the bitmap indicates that the corresponding SS/PBCH block is not transmitted while the value 1 indicates that the corresponding SS/PBCH block is transmitted.

12. The UE of claim 8, wherein the second information comprises a number of the one or more transmitted SS/PBCH blocks.

13. The UE of claim 8, wherein the system information is received in a system information block (SIB).

14. The UE of claim 8, wherein the UE assumes that reception occasions on a PBCH, PSS and SSS are in consecutive symbols and form a SS/PBCH block.

15. An apparatus configured to control a user equipment (UE) to operate on a frequency band above 6GHz and to receive a synchronization signal and physical broadcast channel (SS/PBCH) block in a wireless communication system, the apparatus comprising:

at least one processor; and

at least one computer memory operably connectable to the at least one processor and storing instructions that, when executed by the at least one processor, perform operations comprising:

receiving system information including (i) first information related to one or more SS/PBCH block groups and (ii) second information related to one or more SS/PBCH blocks within each of the one or more of SS/PBCH block groups, and

receiving the SS/PBCH block based on the first information and the second information,

wherein the first information informs the UE of the one or more SS/PBCH block groups, in each of which the one or more SS/PBCH blocks are transmitted,

wherein the second information informs the UE of the one or more transmitted SS/PBCH blocks within each of the one or more SS/PBCH block groups,

wherein the second information is commonly used for the one or more SS/PBCH block groups informed by the first information,

wherein each of the one or more transmitted SS/PBCH blocks includes a primary synchronization signal (PSS), a secondary synchronization signal (SSS), and a physical broadcast channel (PBCH) signal, and

wherein the first information is in a form of a bitmap and a length of the bitmap is 8 bits.

16. The apparatus of claim 15, wherein a value 1 in the bitmap indicates that the SS/PBCH blocks are transmitted.

17. The apparatus of claim 15, wherein the second information is in a form of a bitmap.

18. The apparatus of claim 17, wherein a value 0 in the bitmap indicates that the corresponding SS/PBCH block is not transmitted while the value 1 indicates that the corresponding SS/PBCH block is transmitted.