

CLAIMS

What is claimed is:

1. A search space SS monitoring method, applied to user equipment UE, wherein the method comprises:

5 obtaining target information, wherein the target information comprises at least one of the following: configuration information of a first target SS and blind detection resource allocation information of the first target SS, the configuration information is used to indicate the number of blind detections in the first target SS, the blind detection resource allocation information is used to allocate the number of
10 blind detections to an SS in the first target SS, and the number of blind detections comprises at least one of the following: the number of downlink control channel candidates and the number of channel estimations; and

monitoring a second target SS in the first target SS based on the target information.

15 2. The method according to claim 1, wherein the first target SS comprises at least one of the following: an SS for self-scheduling of a primary cell, an SS for scheduling the primary cell by a secondary cell, another SS, an SS for joint scheduling, and an SS for single scheduling, wherein

the another SS comprises at least one of the following: an SS for
20 self-scheduling of the secondary cell and an SS for scheduling another secondary cell by the secondary cell.

3. The method according to claim 1, wherein the configuration information comprises at least one of the following: the number of blind detections in an SS for self-scheduling of a primary cell, the number of blind detections in an SS for
25 scheduling the primary cell by a secondary cell, the number of blind detections in an SS of the primary cell, the number of blind detections in an SS of the secondary cell, the number of blind detections in an SS for self-scheduling of the secondary cell, the number of blind detections in an SS for scheduling another secondary cell by the

secondary cell, the number of blind detections in an SS for scheduling a cell other than the primary cell by the secondary cell, the joint number of blind detections in an SS of the primary cell and an SS of the secondary cell, the number of blind detections in an SS of a scheduling cell, the number of blind detections in an SS for joint scheduling, the number of blind detections in an SS for single scheduling, and the number of blind detections corresponding to a scheduled cell in an SS for joint scheduling

4. The method according to claim 1, wherein the number of blind detections in the first target SS, indicated by the configuration information, satisfies at least one of the following:

the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE; and

the joint number of blind detections in at least two SSs in the first target SS is less than or equal to the maximum joint number of blind detections of the UE.

5. The method according to claim 1, wherein the number of blind detections in at least one SS in the second target SS is less than or equal to the maximum number of blind detections of the UE;

and/or

the joint number of blind detections in at least two SSs in the second target SS is less than or equal to the maximum joint number of blind detections of the UE.

~~6. The method according to claim 1, wherein at any unit time point, the second target SS is one SS.~~

~~7~~6. The method according to any one of claims 1 to ~~6~~5, wherein the maximum number of blind detections of the UE comprises at least one of the following: the maximum number X of blind detections corresponding to self-scheduling of the primary cell of the UE, the maximum number Y of blind detections corresponding to scheduling the primary cell from the secondary cell of the UE, the maximum number P of blind detections supported by the UE in the primary cell, the maximum number S of blind detections supported by the UE in the secondary cell, the maximum number F of blind detections corresponding to self-scheduling of the secondary cell

of the UE, the maximum number O of blind detections corresponding to scheduling the another secondary cell by the secondary cell of the UE, the maximum number N of blind detections corresponding to scheduling the cell other than the primary cell by the secondary cell of the UE, and the maximum joint number T of blind detections supported by the UE in the primary cell and the secondary cell, wherein X, Y, P, S, F, O, and N are all natural numbers.

~~87.~~ The method according to claim ~~76~~, wherein that the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE or that the number of blind detections in at least one SS in the second target SS is less than or equal to the maximum number of blind detections of the UE comprises at least one of the following: the number of blind detections in the SS for self-scheduling of the primary cell is less than or equal to X, the number of blind detections in the SS for scheduling the primary cell from the secondary cell is less than or equal to Y, and the number of blind detections in the another SS is less than or equal to S_1 ; or,

~~9. The method according to claim 7,~~ wherein that the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE or that the number of blind detections in at least one SS in the second target SS is less than or equal to the maximum number of blind detections of the UE comprises at least one of the following: the number of blind detections in the SS for self-scheduling of the primary cell is less than or equal to X, the number of blind detections in the SS for scheduling the primary cell from the secondary cell is less than or equal to Y, and the number of blind detections in the SS for self-scheduling of the primary cell is less than or equal to P_1 ; or,

~~10. The method according to claim 7,~~ wherein that the joint number of blind detections in at least two SSs in the first target SS is less than or equal to the maximum joint number of blind detections of the UE or that the joint number of blind detections in at least two SSs in the second target SS is less than or equal to the maximum joint number of blind detections of the UE comprises at least one of the

following: the number of blind detections in a third target SS is less than or equal to a first value, the number of blind detections in the third target SS is less than or equal to P, and the number of blind detections in a fourth target SS is less than or equal to S, wherein

the third target SS comprises the SS for self-scheduling of the primary cell and the SS for scheduling the primary cell from the secondary cell, the first value is a sum of X and Y, and the fourth target SS comprises the SS for scheduling the primary cell from the secondary cell and the another SS.

~~11. The method according to any one of claims 1 to 6, wherein the maximum number of blind detections of the UE comprises at least one of the following: the maximum number I of blind detections in the scheduling cell of the UE, the maximum number J of blind detections corresponding to joint scheduling of the UE, the maximum number K of blind detections corresponding to single scheduling of the UE, and the maximum number J_i of blind detections corresponding to the scheduled cell in M cells of the UE, wherein, $i=0, 1, \dots, M-1$, the M cells are cells in a plurality of cells for joint scheduling, M is a positive integer, and J and J_i are both natural numbers.~~

~~12. The method according to claim 11, wherein that the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE or that the number of blind detections in at least one SS in the second target SS is less than or equal to the maximum number of blind detections of the UE comprises at least one of the following: the number of blind detections in the SS for joint scheduling is less than or equal to J, and the number of blind detections corresponding to the scheduled cell in the SS for joint scheduling is less than or equal to J_i .~~

~~13. The method according to claim 11, wherein that the joint number of blind detections in at least two SSs in the first target SS is less than or equal to the maximum joint number of blind detections of the UE or that the joint number of blind detections in at least two SSs in the second target SS is less than or equal to the maximum joint number of blind detections of the UE comprises: the number of blind~~

~~detections in a fifth target SS is less than or equal to I, wherein the fifth target SS comprises the SS for joint scheduling and the SS for single scheduling, and I is a natural number.~~

5 ~~14. The method according to claim 1, wherein the method further comprises:
sending first information to a network device, wherein the first information is
used to indicate the maximum number of blind detections of the UE.~~

~~15. The method according to claim 1, 4 or 5, wherein the maximum number of
blind detections of the UE is prescribed by a protocol, or determined by the UE, or
configured by a network device.~~

10 ~~16~~8. The method according to claim 1, wherein the blind detection resource
allocation information comprises at least one of the following: priority information
of the first target SS, a weight of the first target SS, and a target excess of the first
target SS, wherein the target excess is an excess number of blind detections in the
first target SS relative to the maximum number of blind detections of the UE.

15 ~~17. The method according to claim 16, wherein the monitoring a second target
SS in the first target SS based on the target information comprises:~~

~~allocating the number of blind detections to the second target SS based on the
priority information of the first target SS and a priority order of the first target SS,
and monitoring the second target SS.~~

20 ~~18. The method according to claim 17, wherein a priority of an SS for
self-scheduling of a primary cell is higher than a priority of an SS for scheduling the
primary cell by a secondary cell;~~

~~and/or~~

25 ~~a priority of a common search space CSS in another SS is higher than a priority
of a UE-specific search space USS in the another SS;~~

~~and/or~~

~~a priority of the SS for scheduling the primary cell from the secondary cell is
higher than or lower than a priority of the another SS.~~

30 ~~19. The method according to claim 18, wherein a priority of a CSS in the SS for
self-scheduling of the primary cell is higher than a priority of a USS in the SS for~~

~~self-scheduling of the primary cell, and the priority of the USS in the SS for self-scheduling of the primary cell is higher than the priority of the SS for scheduling the primary cell from the secondary cell;~~

~~or~~

~~a priority of a CSS in the SS for self-scheduling of the primary cell is higher than the priority of the SS for scheduling the primary cell from the secondary cell, and the priority of the SS for scheduling the primary cell from the secondary cell is higher than a priority of a USS in the SS for self-scheduling of the primary cell;~~

~~or~~

~~a priority of a CSS in the SS for self-scheduling of the primary cell is higher than the priority of the SS for scheduling the primary cell from the secondary cell.~~

~~20. The method according to claim 18, wherein the priority of the SS for scheduling the primary cell from the secondary cell is higher than the priority of the CSS in the another SS, and the priority of the CSS in the another SS is higher than the priority of the USS in the another SS.~~

~~21. The method according to claim 18, wherein the priority of the CSS in the another SS is higher than the priority of the SS for scheduling the primary cell from the secondary cell, and the priority of the SS for scheduling the primary cell from the secondary cell is higher than the priority of the USS in the another SS;~~

~~or~~

~~the priority of the CSS in the another SS is higher than the priority of the USS in the another SS, and the priority of the USS in the another SS is higher than the priority of the SS for scheduling the primary cell from the secondary cell.~~

~~22. The method according to claim 17, wherein the allocating the number of blind detections to the second target SS based on the priority information of the first target SS and a priority order of the first target SS, and monitoring the second target SS comprises:~~

~~allocating the number of blind detections to the second target SS based on the priority information of the first target SS and an order of the identifier of the first target SS, and monitoring the second target SS;~~

~~and/or~~

~~allocating the number of blind detections to the second target SS based on the priority information of the first target SS and an order of identifiers of the cells corresponding to the first target SS, and monitoring the second target SS;~~

5

~~and/or~~

~~preferentially allocating the number of blind detections to the second target SS associated with a preset downlink control information DCI format or a preset DCI type, and monitoring the second target SS;~~

~~and/or~~

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~~preferentially allocating the number of blind detections to the second target SS associated with a preset cell, and monitoring the second target SS.~~

239. The method according to claim 168, wherein the monitoring a second target SS in the first target SS based on the target information comprises:

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allocating the number of blind detections to all SSs in the first target SS based on the weight of the first target SS, and monitoring all the SSs in the first target SS.

2410. The method according to claim 239, wherein a sum of the weighted number of blind detections in an SS for self-scheduling of a primary cell and the weighted number of blind detections in an SS for scheduling the primary cell by a secondary cell is less than or equal to P;

20

~~and/or~~

a sum of the weighted number of blind detections in the SS for scheduling the primary cell from the secondary cell and the weighted number of blind detections in an SS in another SS is less than or equal to S.

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~~25. The method according to claim 23, wherein a sum of the weighted number of blind detections in an SS for joint scheduling of a scheduling cell and the weighted number of blind detections in an SS for single scheduling of the scheduling cell is less than or equal to the maximum number I of blind detections in the scheduling cell of the UE.~~

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~~26. The method according to claim 16, wherein the monitoring a second target SS in the first target SS based on the target information comprises:~~

~~allocating, based on the target excess of the first target SS, the number of blind detections to the first target SS or an SS having an excess in the first target SS, and monitoring the first target SS or the SS having the excess in the first target SS.~~

5 ~~27. The method according to claim 26, wherein the number of blind detections corresponding to an SS for scheduling a primary cell from a secondary cell is a difference between the number of blind detections configured for the SS for scheduling the primary cell from the secondary cell and a total excess of blind detections corresponding to the SS for scheduling the primary cell from the secondary cell;~~

10 ~~and/or~~

~~the number of blind detections in an SS for self-scheduling of the primary cell is a difference between the number of blind detections configured for the SS for self-scheduling of the primary cell and a total excess of blind detections corresponding to the SS for self-scheduling of the primary cell;~~

15 ~~and/or~~

~~the number of blind detections in an SS for joint scheduling is a difference between the number of blind detections configured for the SS for joint scheduling and a total excess of blind detections corresponding to the SS for joint scheduling.~~

20 ~~28. The method according to claim 16, wherein the priority information of the first target SS is configured by a network device, or prescribed by a protocol, or determined by the UE;~~

~~the weight of the first target SS is configured by the network device, or prescribed by the protocol, or determined by the UE;~~

25 ~~the target excess is configured by the network device, or prescribed by the protocol, or determined by the UE; and~~

~~the weight of the first target SS and/or the target excess are/is determined by at least one of the following: an associated cell type, the number of associated cells, an associated subcarrier spacing SCS, an associated SS type, a time domain resource of an associated SS, a frequency domain resource of an associated SS, an associated SS~~

~~period, an associated DCI format, the maximum number of blind detections of the UE, a total excess of blind detections, and a parameter configuration.~~

~~29. The method according to claim 2, wherein the SS for scheduling the primary cell from the secondary cell and/or the SS for joint scheduling are/is associated with at least one of the following: a preset cell type, the preset number of cells, a preset SCS, a preset period, a preset DCI format, a preset DCI type, a preset aggregation level, a preset time domain length, a preset time domain position, a preset frequency domain position, and a preset identifier.~~

3011. A search space SS monitoring method, applied to a network device, wherein the method comprises:

sending target information to user equipment UE, wherein

the target information comprises at least one of the following: first configuration information of a first target SS and blind detection resource allocation information of the first target SS, the first configuration information is used to indicate the number of blind detections in the first target SS, the blind detection resource allocation information is used to allocate the number of blind detections to an SS in the first target SS, the number of blind detections comprises at least one of the following: the number of downlink control channel candidates and the number of channel estimations, and the target information is used by the UE to monitor a second target SS in the first target SS.

3112. The method according to claim 3011, wherein the first target SS comprises at least one of the following: an SS for self-scheduling of a primary cell, an SS for scheduling the primary cell by a secondary cell, another SS, an SS for joint scheduling, and an SS for single scheduling, wherein

the another SS comprises at least one of the following: an SS for self-scheduling of the secondary cell and an SS for scheduling another secondary cell by the secondary cell.

3213. The method according to claim 3011, wherein the first configuration information comprises at least one of the following: the number of blind detections in an SS for self-scheduling of a primary cell, the number of blind detections in an

SS for scheduling the primary cell by a secondary cell, the number of blind detections in an SS of the primary cell, the number of blind detections in an SS of the secondary cell, the number of blind detections in an SS for self-scheduling of the secondary cell, the number of blind detections in an SS for scheduling another secondary cell by the secondary cell, the number of blind detections in an SS for scheduling a cell other than the primary cell by the secondary cell, the joint number of blind detections in an SS of the primary cell and an SS of the secondary cell, the number of blind detections in an SS of a scheduling cell, the number of blind detections in an SS for joint scheduling, the number of blind detections in an SS for single scheduling, and the number of blind detections corresponding to a scheduled cell in an SS for joint scheduling.

3314. The method according to claim 3011, wherein the number of blind detections in the first target SS, indicated by the first configuration information, satisfies at least one of the following:

the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE; and

the joint number of blind detections in at least two SSs in the first target SS is less than or equal to the maximum joint number of blind detections of the UE.

3415. The method according to claim 3011, wherein the method further comprises:

receiving first information sent by the UE, wherein the first information is used to indicate the maximum number of blind detections of the UE.

3516. The method according to claim 30-11 or 3314, wherein the method further comprises:

sending second configuration information to the UE, wherein the second configuration information is used to configure the maximum number of blind detections for the UE.

3617. The method according to claim 3011, wherein the blind detection resource allocation information comprises at least one of the following: priority information of the first target SS, a weight of the first target SS, and a target excess

of the first target SS, wherein the target excess is an excess number of blind detections in the first target SS relative to the maximum number of blind detections of the UE.

~~37~~18. User equipment UE, wherein the UE comprises an obtaining module and a monitoring module, wherein

the obtaining module is configured to obtain target information, wherein the target information comprises at least one of the following: configuration information of a first target search space SS and blind detection resource allocation information of the first target SS, the configuration information is used to indicate the number of blind detections in the first target SS, the blind detection resource allocation information is used to allocate the number of blind detections to an SS in the first target SS, and the number of blind detections comprises at least one of the following: the number of downlink control channel candidates and the number of channel estimations; and

the monitoring module is configured to monitor a second target SS in the first target SS based on the target information obtained by the obtaining module.

~~38~~19. The UE according to claim ~~37~~18, wherein the first target SS comprises at least one of the following: an SS for self-scheduling of a primary cell, an SS for scheduling the primary cell by a secondary cell, another SS, an SS for joint scheduling, and an SS for single scheduling, wherein

the another SS comprises at least one of the following: an SS for self-scheduling of the secondary cell and an SS for scheduling another secondary cell by the secondary cell.

~~39. The UE according to claim 37, wherein the configuration information comprises at least one of the following: the number of blind detections in an SS for self-scheduling of a primary cell, the number of blind detections in an SS for scheduling the primary cell by a secondary cell, the number of blind detections in an SS of the primary cell, the number of blind detections in an SS of the secondary cell, the number of blind detections in an SS for self-scheduling of the secondary cell, the number of blind detections in an SS for scheduling another secondary cell by the~~

~~secondary cell, the number of blind detections in an SS for scheduling a cell other than the primary cell by the secondary cell, the joint number of blind detections in an SS of the primary cell and an SS of the secondary cell, the number of blind detections in an SS of a scheduling cell, the number of blind detections in an SS for joint scheduling, the number of blind detections in an SS for single scheduling, and the number of blind detections corresponding to a scheduled cell in an SS for joint scheduling.~~

~~40. The UE according to claim 37, wherein the number of blind detections in the first target SS, indicated by the configuration information, satisfies at least one of the following:~~

~~the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE; and~~

~~the joint number of blind detections in at least two SSs in the first target SS is less than or equal to the maximum joint number of blind detections of the UE.~~

~~41. The UE according to claim 37, wherein the number of blind detections in at least one SS in the second target SS is less than or equal to the maximum number of blind detections of the UE;~~

~~and/or~~

~~the joint number of blind detections in at least two SSs in the second target SS is less than or equal to the maximum joint number of blind detections of the UE.~~

~~42. The UE according to claim 37, wherein at any unit time point, the second target SS is one SS.~~

~~43. The UE according to any one of claims 37 to 42, wherein the maximum number of blind detections of the UE comprises at least one of the following: the maximum number X of blind detections corresponding to self-scheduling of the primary cell of the UE, the maximum number Y of blind detections corresponding to scheduling the primary cell from the secondary cell of the UE, the maximum number P of blind detections supported by the UE in the primary cell, the maximum number S of blind detections supported by the UE in the secondary cell, the maximum number F of blind detections corresponding to self-scheduling of the secondary cell~~

of the UE, the maximum number O of blind detections corresponding to scheduling the another secondary cell by the secondary cell of the UE, the maximum number N of blind detections corresponding to scheduling the cell other than the primary cell by the secondary cell of the UE, and the maximum joint number T of blind detections supported by the UE in the primary cell and the secondary cell, wherein X , Y , P , S , F , O , and N are all natural numbers.

44. The UE according to claim 43, wherein that the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE or that the number of blind detections in at least one SS in the second target SS is less than or equal to the maximum number of blind detections of the UE comprises at least one of the following: the number of blind detections in the SS for self-scheduling of the primary cell is less than or equal to X , the number of blind detections in the SS for scheduling the primary cell from the secondary cell is less than or equal to Y , and the number of blind detections in the another SS is less than or equal to S .

45. The UE according to claim 43, wherein that the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE or that the number of blind detections in at least one SS in the second target SS is less than or equal to the maximum number of blind detections of the UE comprises at least one of the following: the number of blind detections in the SS for self-scheduling of the primary cell is less than or equal to X , the number of blind detections in the SS for scheduling the primary cell from the secondary cell is less than or equal to Y , and the number of blind detections in the SS for self-scheduling of the primary cell is less than or equal to P .

46. The UE according to claim 43, wherein that the joint number of blind detections in at least two SSs in the first target SS is less than or equal to the maximum joint number of blind detections of the UE or that the joint number of blind detections in at least two SSs in the second target SS is less than or equal to the maximum joint number of blind detections of the UE comprises at least one of the following: the number of blind detections in a third target SS is less than or equal to

a first value, the number of blind detections in the third target SS is less than or equal to P, and the number of blind detections in a fourth target SS is less than or equal to S, wherein

the third target SS comprises the SS for self-scheduling of the primary cell and the SS for scheduling the primary cell from the secondary cell, the first value is a sum of X and Y, and the fourth target SS comprises the SS for scheduling the primary cell from the secondary cell and the another SS.

47. The UE according to any one of claims 37 to 42, wherein the maximum number of blind detections of the UE comprises at least one of the following: the maximum number I of blind detections in the scheduling cell of the UE, the maximum number J of blind detections corresponding to joint scheduling of the UE, the maximum number K of blind detections corresponding to single scheduling of the UE, and the maximum number J_i of blind detections corresponding to the scheduled cell in M cells of the UE, wherein, $i=0, 1, \dots, M-1$, the M cells are cells in a plurality of cells for joint scheduling, M is a positive integer, and J and J_i are both natural numbers.

48. The UE according to claim 47, wherein that the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE or that the number of blind detections in at least one SS in the second target SS is less than or equal to the maximum number of blind detections of the UE comprises at least one of the following: the number of blind detections in the SS for joint scheduling is less than or equal to J, and the number of blind detections corresponding to the scheduled cell in the SS for joint scheduling is less than or equal to J_i .

49. The UE according to claim 47, wherein that the joint number of blind detections in at least two SSs in the first target SS is less than or equal to the maximum joint number of blind detections of the UE or that the joint number of blind detections in at least two SSs in the second target SS is less than or equal to the maximum joint number of blind detections of the UE comprises: the number of blind detections in a fifth target SS is less than or equal to I, wherein the fifth target SS

~~comprises the SS for joint scheduling and the SS for single scheduling, and I is a natural number.~~

~~50. The UE according to claim 37, wherein the UE further comprises a sending module, wherein~~

~~5 the sending module is configured to send first information to a network device, wherein the first information is used to indicate the maximum number of blind detections of the UE.~~

~~51. The UE according to claim 37, 40, or 41, wherein the maximum number of blind detections of the UE is prescribed by a protocol, or determined by the UE, or~~
~~10 configured by a network device.~~

~~52. The UE according to claim 37, wherein the blind detection resource allocation information comprises at least one of the following: priority information of the first target SS, a weight of the first target SS, and a target excess of the first target SS, wherein the target excess is an excess number of blind detections in the~~
~~15 first target SS relative to the maximum number of blind detections of the UE.~~

~~53. The UE according to claim 52, wherein the monitoring module is specifically configured to allocate the number of blind detections to the second target SS based on the priority information of the first target SS and a priority order of the first target SS, and monitor the second target SS.~~

~~20 54. The UE according to claim 53, wherein a priority of an SS for self-scheduling of a primary cell is higher than a priority of an SS for scheduling the primary cell by a secondary cell;~~

~~and/or~~

~~25 a priority of a common search space CSS in another SS is higher than a priority of a UE-specific search space USS in the another SS;~~

~~and/or~~

~~a priority of the SS for scheduling the primary cell from the secondary cell is higher than or lower than a priority of the another SS.~~

~~30 55. The UE according to claim 54, wherein a priority of a CSS in the SS for self-scheduling of the primary cell is higher than a priority of a USS in the SS for~~

~~self-scheduling of the primary cell, and the priority of the USS in the SS for self-scheduling of the primary cell is higher than the priority of the SS for scheduling the primary cell from the secondary cell;~~

~~or~~

~~a priority of a CSS in the SS for self-scheduling of the primary cell is higher than the priority of the SS for scheduling the primary cell from the secondary cell, and the priority of the SS for scheduling the primary cell from the secondary cell is higher than a priority of a USS in the SS for self-scheduling of the primary cell;~~

~~or~~

~~a priority of a CSS in the SS for self-scheduling of the primary cell is higher than the priority of the SS for scheduling the primary cell from the secondary cell.~~

~~56. The UE according to claim 54, wherein the priority of the SS for scheduling the primary cell from the secondary cell is higher than the priority of the CSS in the another SS, and the priority of the CSS in the another SS is higher than the priority of the USS in the another SS.~~

~~57. The UE according to claim 54, wherein the priority of the CSS in the another SS is higher than the priority of the SS for scheduling the primary cell from the secondary cell, and the priority of the SS for scheduling the primary cell from the secondary cell is higher than the priority of the USS in the another SS;~~

~~or~~

~~the priority of the CSS in the another SS is higher than the priority of the USS in the another SS, and the priority of the USS in the another SS is higher than the priority of the SS for scheduling the primary cell from the secondary cell.~~

~~58. The UE according to claim 53, wherein the monitoring module is specifically configured to:~~

~~allocate the number of blind detections to the second target SS based on the priority information of the first target SS and an order of the identifier of the first target SS, and monitor the second target SS;~~

~~and/or~~

~~allocate the number of blind detections to the second target SS based on the priority information of the first target SS and an order of identifiers of the cells corresponding to the first target SS, and monitor the second target SS;~~

~~and/or~~

~~preferentially allocate the number of blind detections to the second target SS associated with a preset downlink control information DCI format or a preset DCI type, and monitor the second target SS;~~

~~and/or~~

~~preferentially allocate the number of blind detections to the second target SS associated with a preset cell, and monitor the second target SS.~~

~~59. The UE according to claim 52, wherein the monitoring module is specifically configured to allocate the number of blind detections to all SSs in the first target SS based on the weight of the first target SS, and monitor all the SSs in the first target SS.~~

~~60. The UE according to claim 59, wherein a sum of the weighted number of blind detections in an SS for self-scheduling of a primary cell and the weighted number of blind detections in an SS for scheduling the primary cell by a secondary cell is less than or equal to P;~~

~~and/or~~

~~a sum of the weighted number of blind detections in the SS for scheduling the primary cell from the secondary cell and the weighted number of blind detections in an SS in another SS is less than or equal to S.~~

~~61. The UE according to claim 59, wherein a sum of the weighted number of blind detections in an SS for joint scheduling of a scheduling cell and the weighted number of blind detections in an SS for single scheduling of the scheduling cell is less than or equal to the maximum number I of blind detections in the scheduling cell of the UE.~~

~~62. The UE according to claim 52, wherein the monitoring module is specifically configured to allocate, based on the target excess of the first target SS, the number of blind detections to the first target SS or an SS having an excess in the~~

~~first target SS, and monitor the first target SS or the SS having the excess in the first target SS.~~

~~63. The UE according to claim 62, wherein the number of blind detections corresponding to an SS for scheduling a primary cell from a secondary cell is a difference between the number of blind detections configured for the SS for scheduling the primary cell from the secondary cell and a total excess of blind detections corresponding to the SS for scheduling the primary cell from the secondary cell;~~

~~and/or~~

~~the number of blind detections in an SS for self-scheduling of the primary cell is a difference between the number of blind detections configured for the SS for self-scheduling of the primary cell and a total excess of blind detections corresponding to the SS for self-scheduling of the primary cell;~~

~~and/or~~

~~the number of blind detections in an SS for joint scheduling is a difference between the number of blind detections configured for the SS for joint scheduling and a total excess of blind detections corresponding to the SS for joint scheduling.~~

~~64. The UE according to claim 52, wherein the priority information of the first target SS is configured by a network device, or prescribed by a protocol, or determined by the UE;~~

~~the weight of the first target SS is configured by the network device, or prescribed by the protocol, or determined by the UE;~~

~~the target excess is configured by the network device, or prescribed by the protocol, or determined by the UE; and~~

~~the weight of the first target SS and/or the target excess are/is determined by at least one of the following: an associated cell type, the number of associated cells, an associated subcarrier spacing SCS, an associated SS type, a time domain resource of an associated SS, a frequency domain resource of an associated SS, an associated SS period, an associated DCI format, the maximum number of blind detections of the UE, a total excess of blind detections, and a parameter configuration.~~

~~65. The UE according to claim 38, wherein the SS for scheduling the primary cell from the secondary cell and/or the SS for joint scheduling are/is associated with at least one of the following: a preset cell type, the preset number of cells, a preset SCS, a preset period, a preset DCI format, a preset DCI type, a preset aggregation level, a preset time domain length, a preset time domain position, a preset frequency domain position, and a preset identifier.~~

~~66~~20. A network device, wherein the network device comprises a sending module, wherein

the sending module is configured to send target information to user equipment UE, wherein

the target information comprises at least one of the following: first configuration information of a first target search space SS and blind detection resource allocation information of the first target SS, the first configuration information is used to indicate the number of blind detections in the first target SS, the blind detection resource allocation information is used to allocate the number of blind detections to an SS in the first target SS, the number of blind detections comprises at least one of the following: the number of downlink control channel candidates and the number of channel estimations, and the target information is used by the UE to monitor a second target SS in the first target SS.

~~67. The network device according to claim 66, wherein the first target SS comprises at least one of the following: an SS for self-scheduling of a primary cell, an SS for scheduling the primary cell by a secondary cell, another SS, an SS for joint scheduling, and an SS for single scheduling, wherein~~

~~the another SS comprises at least one of the following: an SS for self-scheduling of the secondary cell and an SS for scheduling another secondary cell by the secondary cell.~~

~~68. The network device according to claim 66, wherein the first configuration information comprises at least one of the following: the number of blind detections in an SS for self-scheduling of a primary cell, the number of blind detections in an SS for scheduling the primary cell by a secondary cell, the number of blind~~

~~detections in an SS of the primary cell, the number of blind detections in an SS of the secondary cell, the number of blind detections in an SS for self-scheduling of the secondary cell, the number of blind detections in an SS for scheduling another secondary cell by the secondary cell, the number of blind detections in an SS for scheduling a cell other than the primary cell by the secondary cell, the joint number of blind detections in an SS of the primary cell and an SS of the secondary cell, the number of blind detections in an SS of a scheduling cell, the number of blind detections in an SS for joint-scheduling, the number of blind detections in an SS for single-scheduling, and the number of blind detections corresponding to a scheduled cell in an SS for joint-scheduling.~~

~~69. The network device according to claim 66, wherein the number of blind detections in the first target SS, indicated by the first configuration information, satisfies at least one of the following:~~

~~the number of blind detections in at least one SS in the first target SS is less than or equal to the maximum number of blind detections of the UE; and~~

~~the joint number of blind detections in at least two SSs in the first target SS is less than or equal to the maximum joint number of blind detections of the UE.~~

~~70. The network device according to claim 66, wherein the network device further comprises a receiving module, wherein~~

~~the receiving module is configured to receive first information sent by the UE, wherein the first information is used to indicate the maximum number of blind detections of the UE.~~

~~71. The network device according to claim 66 or 69, wherein the sending module is further configured to send second configuration information to the UE, wherein the second configuration information is used to configure the maximum number of blind detections for the UE.~~

~~72. The network device according to claim 66, wherein the blind detection resource allocation information comprises at least one of the following: priority information of the first target SS, a weight of the first target SS, and a target excess of the first target SS, wherein the target excess is an excess number of blind~~

detections in the first target SS relative to the maximum number of blind detections of the UE.

73. User equipment UE, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the search space SS monitoring method according to any one of claims 1 to 29 are implemented.

74. A network device, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein the computer program is executed by the processor, the steps of the search space SS monitoring method according to any one of claims 30 to 36 are implemented.

75. A computer readable storage medium, wherein the computer readable storage medium stores a computer program, and when the computer program is executed by a processor, the steps of the search space SS monitoring method according to any one of claims 1 to 29 are implemented, or the steps of the SS monitoring method according to any one of claims 30 to 36 are implemented.

76. A computer program product, wherein the program product is executed by at least one processor to implement the search space SS monitoring method according to any one of claims 1 to 29, or the SS monitoring method according to any one of claims 30 to 36.

77. User equipment UE, wherein the UE is configured to perform the search space SS monitoring method according to any one of claims 1 to 29.

78. A network device, wherein the network device is configured to perform the search space SS monitoring method according to any one of claims 30 to 36.