

CLAIMS

What is claimed is:

1. A method for stopping monitoring a physical downlink control channel (PDCCH), performed by a terminal device or a chip of the terminal device, comprising:
 - 5 receiving first downlink control information (DCI) from a network device on an active downlink (DL) bandwidth part (BWP), wherein the first DCI indicates the terminal device to stop monitoring a PDCCH within a first duration, and the PDCCH on which monitoring is stopped comprises a PDCCH in a type 3 common search space set and a PDCCH in a terminal device-specific search space set;
 - 10 running a timer, wherein the timer is used for BWP switching, and an expiration moment of the timer and a BWP switch delay are earlier than an end moment of the first duration;
stopping monitoring the PDCCH within the first duration and before the BWP switch delay ends; and
performing DL BWP switching when the timer expires, and monitoring the PDCCH on a
15 switched-to DL BWP.
2. The method according to claim 1, wherein the running a timer comprises:
starting or restarting the timer when the terminal device receives indication information from the network device on the active DL BWP, wherein
the indication information is used to schedule the terminal device to transmit a physical
20 downlink shared channel (PDSCH) or a physical uplink shared channel (PUSCH), or the indication information indicates the terminal device to perform DL BWP switching, and the indication information is carried in the first DCI or DCI other than the first DCI.
3. The method according to claim 1 or 2, wherein a length of the first duration is configured through radio resource control (RRC) or indicated by the first DCI.
- 25 4. The method according to any one of claims 1 to 3, wherein a start of the first duration is a beginning of next slot for the first DCI.
5. The method according to any one of claim 1 to 4, wherein the method further comprises:
performing PDCCH monitoring on the switched-to BWP based on a configured search space set when no SSSG is configured on the switched-to BWP; or,
30 performing PDCCH monitoring on the switched-to BWP based on a search space set within a SSSG with an index 0 when at least one SSSG including the SSSG with the index 0 is configured on the switched-to BWP.
6. A method for stopping monitoring a physical downlink control channel (PDCCH),

performed by a network device or a chip of the network device, comprising:

sending first downlink control information (DCI) to a terminal device on an active downlink DL bandwidth part BWP, wherein the first DCI indicates the terminal device to stop monitoring a PDCCH within a first duration, and the PDCCH on which monitoring is stopped comprises a PDCCH in a type 3 common search space set and a PDCCH in a terminal device-specific search space set;

running a timer, wherein the timer is used for BWP switching and an expiration moment of the timer is earlier than an end moment of the first duration;

suspending running of the timer within the first duration;

continuing to run the timer after the first duration; and

performing DL BWP switching when the timer expires.

7. The method according to claim 6, wherein a length of the first duration is configured through radio resource control (RRC) or indicated by the first DCI.

8. The method according to claim 6 or 7, wherein a start of the first duration is a beginning of next slot for the first DCI.

9. An apparatus, which is configured to perform the method according to any one of claims 1 to 5, any one of claims 6 to 8.

10. A communication apparatus, comprising a processor and a transceiver, wherein the transceiver communicates with another apparatus, the processor is coupled to a memory, the memory is configured to store a computer program, and when the processor invokes the computer program, the apparatus is enabled to perform the method according to any one of claims 1 to 5, or the method according to any one of claims 6 to 8.

11. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is run on a computer, the method according to any one of claims 1 to 5, or the method according to any one of claims 6 to 8 is performed.

12. A computer program product, wherein the computer program product comprises instructions, and when the instructions are executed, the method according to any one of claims 1 to 5, or the method according to any one of claims 6 to 8 is performed.