CLAIMS

What is claimed is:

1. A resource transmission method, ~~applied to~~ performed by a network-side device and comprising:

sending downlink control information DCI, wherein configuration information of the DCI does not comprise both a repetition count and a resource row index 2, and the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels.

~~sending downlink control information DCI, the DCI being used to indicate that a terminal is to perform transmission of at least one shared channel; wherein~~

~~in a case that the shared channels are at least two in quantity, each of the at least two shared channels is repeatedly transmitted N times, N being an integer greater than 1.~~

2. The method according to claim 1, wherein:

a first resource index table indicated in the configuration information of the DCI includes no resource row index 2, and the DCI is used to indicate that the terminal is to perform transmission of one shared channel; or,

a second resource index table indicated in the configuration information of the DCI includes the resource row index 2, and the DCI is used to indicate that the terminal is to perform transmission of at least two shared channels.

~~2~~3. The method according to claim 1, wherein the shared channel is a physical uplink shared channel PUSCH or a physical downlink shared channel PDSCH.

~~3~~4. The method according to claim 1 or ~~2~~3, wherein the shared channel is a dynamic grant based shared channel.

~~4~~5. The method according to claim ~~3~~4, wherein in a case that a first resource index table indicated in the configuration information of the DCI includes no resource row index 2, the DCI is used to indicate that the terminal is to perform transmission of one shared channel, the shared channel is repeatedly transmitted N times, and N is an integer greater than 1 ~~in a case that configuration information of the DCI indicates a first~~

~~resource index table, the DCI is used to indicate that the terminal is to perform transmission of one shared channel and repeatedly transmit the shared channel N times; wherein~~

~~the first resource index table comprises no resource row index 2, the resource row index 2 being used to indicate that the terminal is to transmit at least two shared channels~~.

~~5~~6. The method according to claim ~~3~~4, wherein in a case that a second resource index table indicated in the configuration information of the DCI includes the resource row index 2, the DCI is used to indicate that the terminal is to perform transmission of at least two shared channels, and at least one of the shared channels is transmitted once ~~in a case that configuration information of the DCI indicates a second resource index table, the DCI is used to indicate that the terminal is to perform transmission of at least one shared channel and transmit the at least one shared channel once; wherein~~

~~the second resource index table comprises at least one resource row index 2, the resource row index 2 being used to indicate that the terminal is to transmit at least two shared channels~~.

~~6~~7. The method according to claim ~~3~~4, wherein in a case that configuration information of the DCI indicates a resource row index 2 and that the configuration information comprises a repetition count, the DCI is used to indicate that the terminal is to perform transmission of at least one shared channel and transmit the shared channel at least once~~; wherein~~

~~the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels~~.

~~7~~8. The method according to claim ~~6~~7, wherein in a case that the configuration information of the DCI indicates one shared channel, the DCI is used to indicate that the terminal is to perform transmission of the one shared channel and repeatedly transmit the one shared channel K times, K being the repetition count.

~~8~~9. The method according to claim ~~6~~7, wherein in a case that the configuration information of the DCI indicates at least two shared channels, the DCI is used to

indicate that the terminal is to perform transmission of the at least two shared channels and transmit each of the at least two shared channels once.

~~9~~10. The method according to claim ~~6~~7, wherein in a case that the DCI indicates that time domain resources for shared channels are transmitted in one slot, the DCI is used to indicate that the terminal is to perform transmission of at least one shared channel and repeatedly transmit each of the at least one shared channel K times, K being the repetition count.

~~10~~11. The method according to claim ~~6~~7, wherein in a case that the DCI indicates that time domain resources for shared channels are transmitted in different slots, the DCI is used to indicate that the terminal is to perform transmission of at least one shared channel and transmit each of the at least one shared channel once.

~~11~~12. The method according to claim ~~6~~7, wherein the DCI is used to indicate that the terminal is to perform transmission of at least one shared channel in a preset slot and repeatedly transmit each of the at least one shared channel K times, without transmitting any shared channel in a slot other than the preset slot, wherein

K is the repetition count.

~~12~~13. The method according to claim ~~11~~12, wherein the preset slot is obtained by the terminal based on a slot in which an uplink grant is located plus a preset slot offset.

~~13~~14. The method according to claim 1 or ~~2~~3, wherein in a case that the shared channel is PUSCH, the PUSCH is a configured grant based PUSCH; and in a case that the shared channel is PDSCH, the PDSCH is a semi-persistent scheduling SPS PDSCH.

~~14~~15. The method according to claim ~~13~~14, wherein in a case that configuration information comprises a repetition count, the DCI is used to indicate a resource row index 1; wherein

the resource row index 1 is used to indicate that the terminal is to transmit one shared channel.

~~15. The method according to claim 13, wherein in a case that configuration information of the DCI indicates a resource row index 2 and that the configuration information comprises a repetition count, if the configuration information of the DCI indicates at least two shared channels, and the at least two shared channels have a same~~

~~symbol length, the DCI is used to indicate that the terminal is to perform transmission of the at least two shared channels and transmit the at least two shared channels based on a preset rule; wherein~~

~~the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels, and the preset rule is: performing K transmissions of a first shared channel in the at least two shared channels within a transmission resource period of a configured grant, and if there is a remaining transmission position in the transmission resource period, performing transmission of a shared channel in the at least two shared channels other than the first shared channel in the remaining transmission position.~~

~~16. The method according to claim 13, wherein in a case that configuration information of the DCI indicates a resource row index 2 and that the configuration information comprises a repetition count, if the configuration information of the DCI indicates at least two shared channels, the DCI is used to indicate that the terminal is to perform K transmissions of a first shared channel in the at least two shared channels, without transmitting any shared channel in the at least two shared channels other than the first shared channel; wherein~~

~~the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels, and K is the repetition count.~~

~~17. A resource transmission method, applied to a terminal and comprising:~~

~~receiving downlink control information DCI; and~~

~~performing transmission of at least one shared channel according to the DCI; wherein~~

~~in a case that the shared channels are at least two in quantity, each of the at least two shared channels is repeatedly transmitted N times, N being an integer greater than 1.~~

~~18. The method according to claim 17, wherein the shared channel is a physical uplink shared channel PUSCH or a physical downlink shared channel PDSCH.~~

~~19. The method according to claim 17 or 18, wherein the shared channel is a dynamic grant based shared channel.~~

~~20. The method according to claim 19, wherein in a case that configuration information of the DCI indicates a first resource index table, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of one shared channel and repeatedly transmitting the shared channel N times; wherein~~

~~the first resource index table comprises no resource row index 2, the resource row index 2 being used to indicate that the terminal is to transmit at least two shared channels.~~

~~21. The method according to claim 19, wherein in a case that configuration information of the DCI indicates a second resource index table, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of at least one shared channel and transmitting the at least one shared channel once; wherein~~

~~the second resource index table comprises at least one resource row index 2, the resource row index 2 being used to indicate that the terminal is to transmit at least two shared channels.~~

~~22. The method according to claim 19, wherein in a case that configuration information of the DCI indicates a resource row index 2 and that the configuration information comprises a repetition count, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of at least one shared channel and transmitting the at least one shared channel at least once; wherein~~

~~the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels.~~

~~23. The method according to claim 22, wherein in a case that the configuration information of the DCI indicates one shared channel, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of one shared channel and repeatedly transmitting the one shared channel K times, K being the repetition count.~~

~~24. The method according to claim 22, wherein in a case that the configuration information of the DCI indicates at least two shared channels, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of the at least two shared channels and transmitting each of the at least two shared channels once.~~

~~25. The method according to claim 22, wherein in a case that the configuration information of the DCI indicates that time domain resources for shared channels are transmitted in one slot, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of the at least one shared channel in one slot and repeatedly transmitting each of the at least one shared channel K times, K being the repetition count.~~

~~26. The method according to claim 22, wherein in a case that the configuration information of the DCI indicates that time domain resources for shared channels are transmitted in different slots, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of the at least one shared channel in different slots and transmitting each of the at least one shared channel once.~~

~~27. The method according to claim 22, wherein the configuration information of the DCI is used to indicates transmission of at least one shared channel for the terminal in a preset slot, and the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of the at least one shared channel in the preset slot and repeatedly transmitting each of the at least one shared channel K times, without transmitting any shared channel in a slot other than the preset slot, wherein~~

~~K is the repetition count.~~

~~28. The method according to claim 27, wherein the preset slot is obtained by the terminal based on a slot in which an uplink grant is located plus a preset slot offset.~~

~~29. The method according to claim 17 or 18, wherein in a case that the shared channel is PUSCH, the PUSCH is a configured grant based PUSCH; and in a case that the shared channel is PDSCH, the PDSCH is a semi-persistent scheduling SPS PDSCH.~~

~~30. The method according to claim 29, wherein in a case that configuration information comprises a repetition count, the DCI is used to indicate a resource row index 1; wherein~~

~~the resource row index 1 is used to indicate that the terminal is to transmit one shared channel.~~

~~31. The method according to claim 29, wherein in a case that configuration information of the DCI indicates a resource row index 2 and that the configuration information comprises a repetition count, if the configuration information of the DCI indicates at least two shared channels, and the at least two shared channels have a same symbol length, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~according to the DCI, performing transmission of the at least two shared channels and transmitting the at least two shared channels based on a preset rule; wherein~~

~~the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels, and the preset rule is: performing K transmissions of a first shared channel in the at least two shared channels within a transmission resource period of a configured grant, and if there is a remaining transmission position in the transmission resource period, performing transmission of a shared channel in the at least two shared channels other than the first shared channel in the remaining transmission position.~~

~~32. The method according to claim 29, wherein in a case that configuration information of the DCI indicates a resource row index 2 and that the configuration information comprises a repetition count, if the configuration information of the DCI indicates at least two shared channels, the performing transmission of at least one shared channel according to the DCI comprises:~~

~~performing K transmissions of a first shared channel in the at least two shared channels according to the DCI, without transmitting any shared channel in the at least two shared channels other than the first shared channel; wherein~~

~~the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels, and K is the repetition count.~~

~~33. A resource transmission apparatus, applied to a network side device and comprising:~~

~~a sending module, configured to send downlink control information DCI, the DCI being used to indicate that a terminal is to perform transmission of at least one shared channel; wherein~~

~~in a case that the shared channels are at least two in quantity, each of the at least two shared channels is repeatedly transmitted N times, N being an integer greater than 1.~~

~~34. A resource transmission apparatus, applied to a terminal and comprising:~~

~~a first receiving module, configured to receive downlink control information DCI; and~~

~~a first execution module, configured to perform transmission of at least one shared channel according to the DCI; wherein~~

~~in a case that the shared channels are at least two in quantity, each of the at least two shared channels is repeatedly transmitted N times, N being an integer greater than 1.~~

~~35. A resource transmission method, comprising:~~

~~receiving, by a terminal, downlink control information DCI;~~

~~performing, by the terminal, transmission of one shared channel according to the DCI in a case that a first resource index table indicated in configuration information of the DCI comprises no resource row index 2;~~

~~or,~~

~~performing, by the terminal, transmission of at least two shared channels according to the DCI in a case that a second resource index table indicated in configuration information of the DCI comprises a resource row index 2;~~

~~or,~~

~~performing, by the terminal, transmission of at least one shared channel according to the DCI in a case that configuration information of the DCI indicates a resource row index 2 and that the configuration information comprises a repetition count; wherein~~

~~the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels.~~

~~36. The method according to claim 35, wherein the shared channel is a physical uplink shared channel PUSCH or a physical downlink shared channel PDSCH.~~

~~37. The method according to claim 35 or 36, wherein the shared channel is a dynamic grant based shared channel.~~

~~38. The method according to claim 37, wherein the performing transmission of one shared channel according to the DCI in a case that a first resource index table indicated in configuration information of the DCI comprises no resource row index 2 comprises:~~

~~according to the DCI, performing transmission of one shared channel and repeatedly transmitting the shared channel N times, N being an integer greater than 1.~~

~~39. The method according to claim 37, wherein the performing transmission of at least two shared channels according to the DCI in a case that a second resource index table indicated in configuration information of the DCI comprises a resource row index 2 comprises:~~

~~according to the DCI, performing transmission of the at least two shared channels and transmitting the at least two shared channels once.~~

~~40. The method according to claim 35, wherein in a case that the configuration information of the DCI comprises the repetition count, the configuration information of the DCI comprises no resource row index 2.~~

~~41. A resource transmission apparatus, comprising:~~

~~a second receiving module, configured to receive downlink control information DCI; and~~

~~a second execution module, configured to perform transmission of one shared channel according to the DCI in a case that a first resource index table indicated in configuration information of the DCI comprises no resource row index 2;~~

~~or,~~

~~perform transmission of at least two shared channels according to the DCI in a case that a second resource index table indicated in configuration information of the DCI comprises a resource row index 2;~~

~~or,~~

~~perform transmission of at least one shared channel according to the DCI in a case that configuration information of the DCI indicates a resource row index 2 and that the configuration information comprises a repetition count; wherein~~

~~the resource row index 2 is used to indicate that the terminal is to transmit at least two shared channels.~~

~~42. The resource transmission apparatus according to claim 41, wherein the shared channel is a physical uplink shared channel PUSCH or a physical downlink shared channel PDSCH.~~

~~43. The resource transmission apparatus according to claim 41 or 42, wherein the shared channel is a dynamic grant based shared channel.~~

~~44. The resource transmission apparatus according to claim 43, wherein the second execution module is specifically configured to: according to the DCI, perform transmission of one shared channel and repeatedly transmit the shared channel N times, N being an integer greater than 1.~~

~~45. The resource transmission apparatus according to claim 43, wherein the second execution module is specifically configured to: according to the DCI, perform transmission of the at least two shared channels and transmit the at least two shared channels once.~~

~~46. The resource transmission apparatus according to claim 41, wherein in a case that the configuration information of the DCI comprises the repetition count, the configuration information of the DCI comprises no resource row index 2.~~

~~47. A terminal, comprising a processor, a memory, and a program or instructions stored in the memory and capable of running on the processor, wherein when the program or instructions are executed by the processor, the steps of the resource transmission method according to any one of claims 35 to 40 are implemented.~~

~~48. A communications device,~~ 16. A network-side device, comprising a processor, a memory, and a program or instructions stored in the memory and capable of running on the processor, wherein when the program or instructions are executed by the processor, the steps of the resource transmission method according to any one of claims 1 to ~~16~~15 are implemented~~, or when the program or instructions are executed by the processor, the steps of the resource transmission method according to any one of claims 17 to 32 are implemented~~.

~~49~~17. A readable storage medium, wherein the readable storage medium stores a program or instructions, and when the program or instructions are executed by a processor, the steps of the resource transmission method according to any one of claims 1 to ~~16~~15 are implemented~~; or when the program or instructions are executed by a processor, the steps of the resource transmission method according to any one of claims 17 to 32 are implemented; or when the program or instructions are executed by a processor, the resource transmission method according to any one of claims 35 to 40 is implemented~~.

~~50. A chip, wherein the chip comprises a processor and a communications interface, the communications interface is coupled to the processor, and the processor is configured to run a program or instructions, to implement the resource transmission method according to any one of claims 1 to 32, or the resource transmission method according to any one of claims 35 to 40.~~

~~51. A computer program product, wherein the computer program product is executed by at least one processor to implement the resource transmission method according to any one of claims 1 to 32, or the resource transmission method according to any one of claims 35 to 40.~~

~~52. A communications device, configured to perform the resource transmission method according to any one of claims 1 to 32, or the resource transmission method according to any one of claims 35 to 40.~~