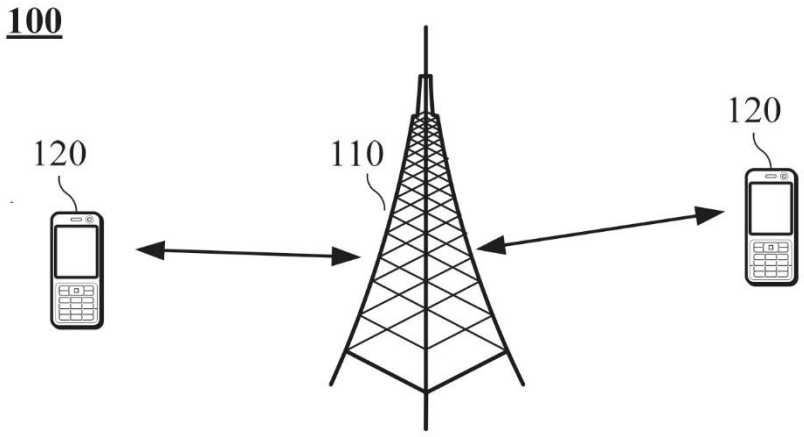
100
120
110
120

FIG. 1

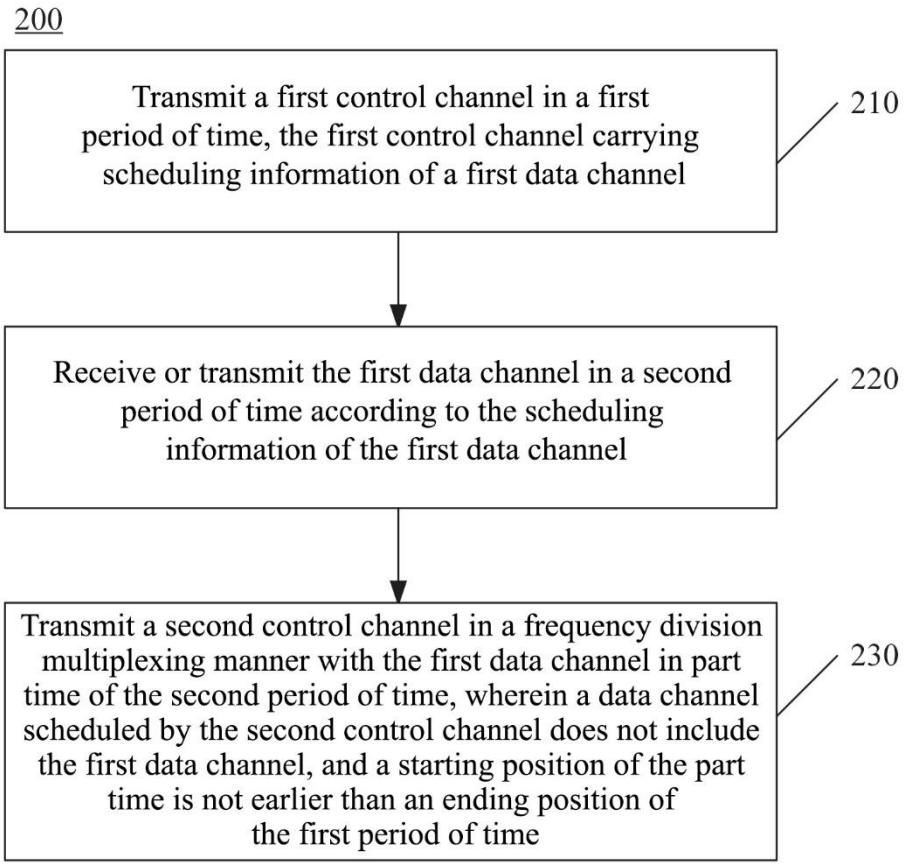
200
Transmit a first control channel in a first period of time, the first control channel carrying scheduling information of a first data channel
210
Receive or transmit the first data channel in a second period of time according to the scheduling information of the first data channel
220
Transmit a second control channel in a frequency division multiplexing manner with the first data channel in part time of the second period of time, wherein a data channel scheduled by the second control channel does not include the first data channel, and a starting position of the part time is not earlier than an ending position of the first period of time
230

FIG. 2

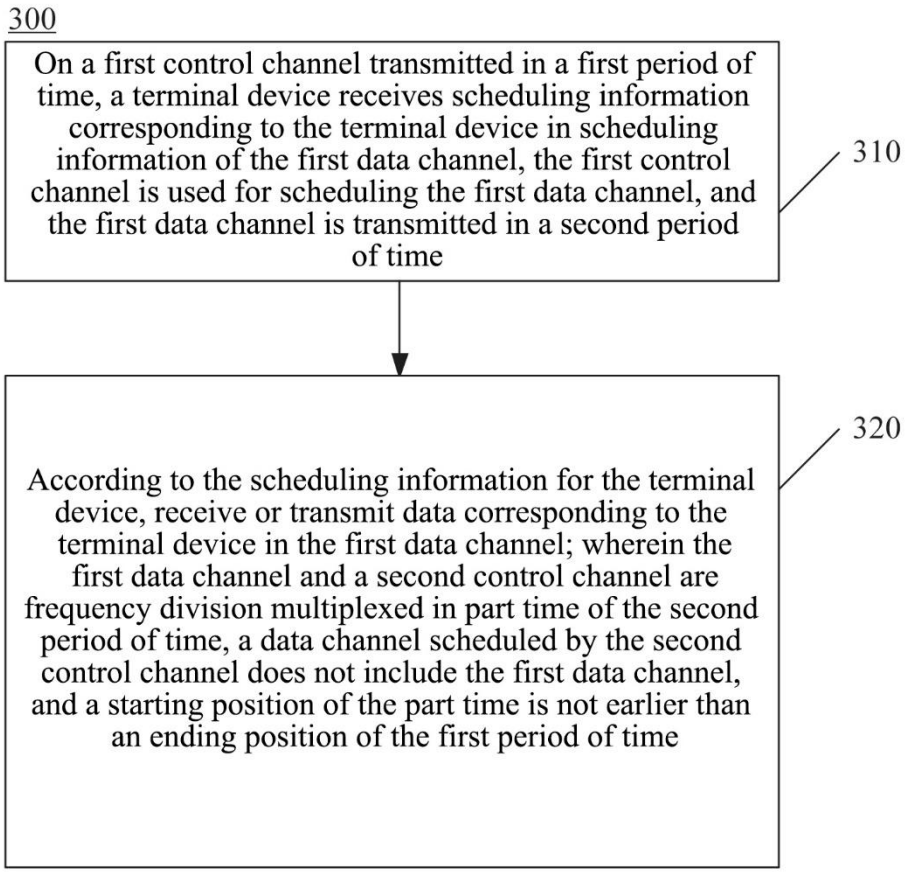
300
On a first control channel transmitted in a first period of time, a terminal device receives scheduling information corresponding to the terminal device in scheduling information of the first data channel, the first control channel is used for scheduling the first data channel, and the first data channel is transmitted in a second period of time
310
According to the scheduling information for the terminal device, receive or transmit data corresponding to the terminal device in the first data channel; wherein the first data channel and a second control channel are frequency division multiplexed in part time of the second period of time, a data channel scheduled by the second control channel does not include the first data channel, and a starting position of the part time is not earlier than an ending position of the first period of time
320

FIG. 3

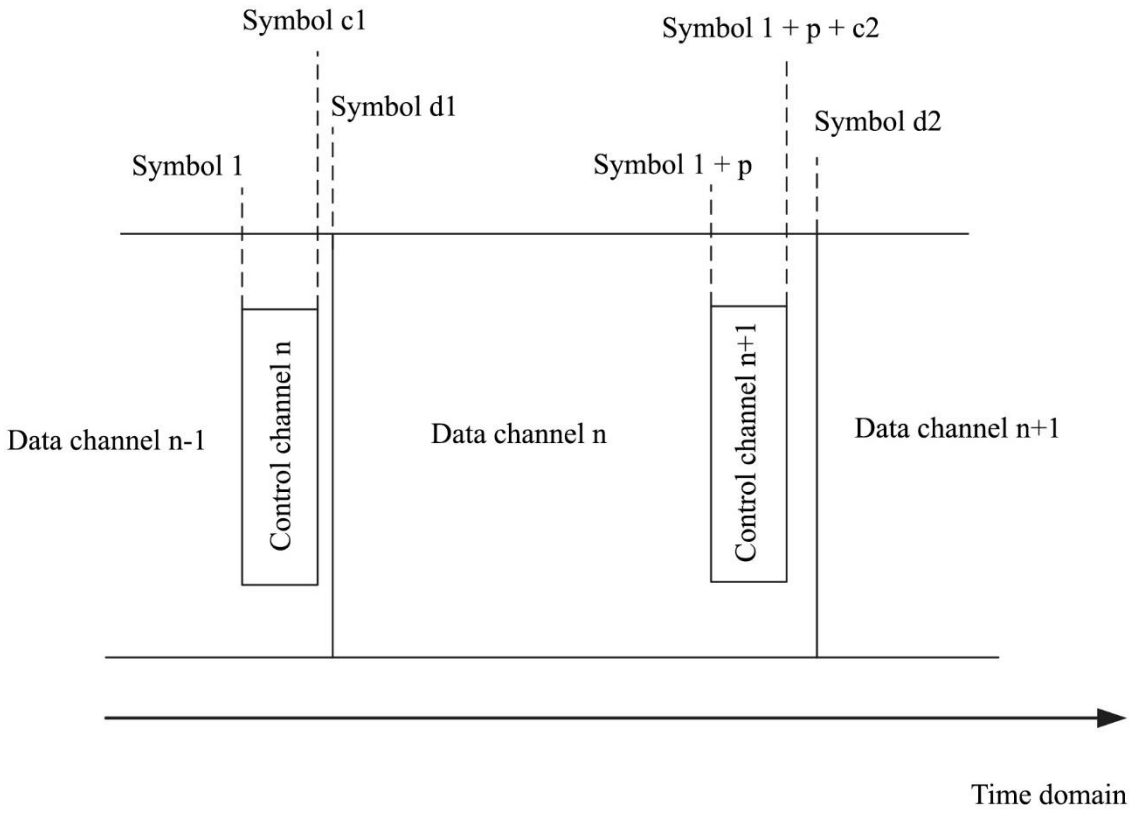
Symbol c1
Symbol 1 + p + c2
Symbol d1
Symbol d2
Symbol 1
Symbol 1 + p
Control channel n
Control channel n+1
Data channel n-1
Data channel n
Data channel n+1
Time domain

FIG. 4

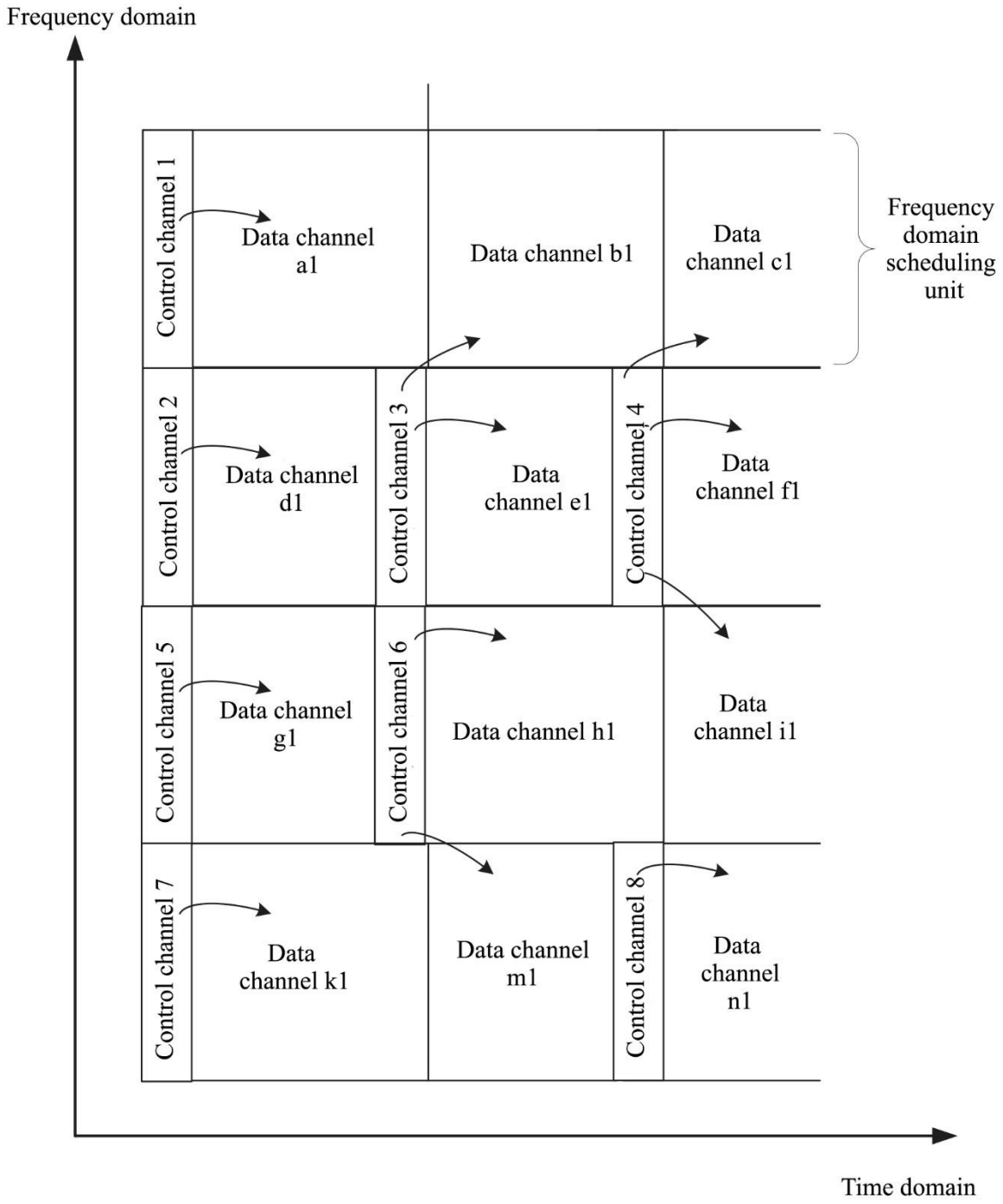
Frequency domain
Control channel 1
Data channel a1
Data channel b1
Data channel c1
Frequency domain scheduling unit
Control channel 2
Data channel d1
Control channel 3
Data channel e1
Control channel 4
Data channel f1
Control channel 5
Data channel g1
Control channel 6
Data channel h1
Data channel i1
Control channel 7
Data channel k1
Data channel m1
Control channel 8
Data channel n1
Time domain

FIG. 5a

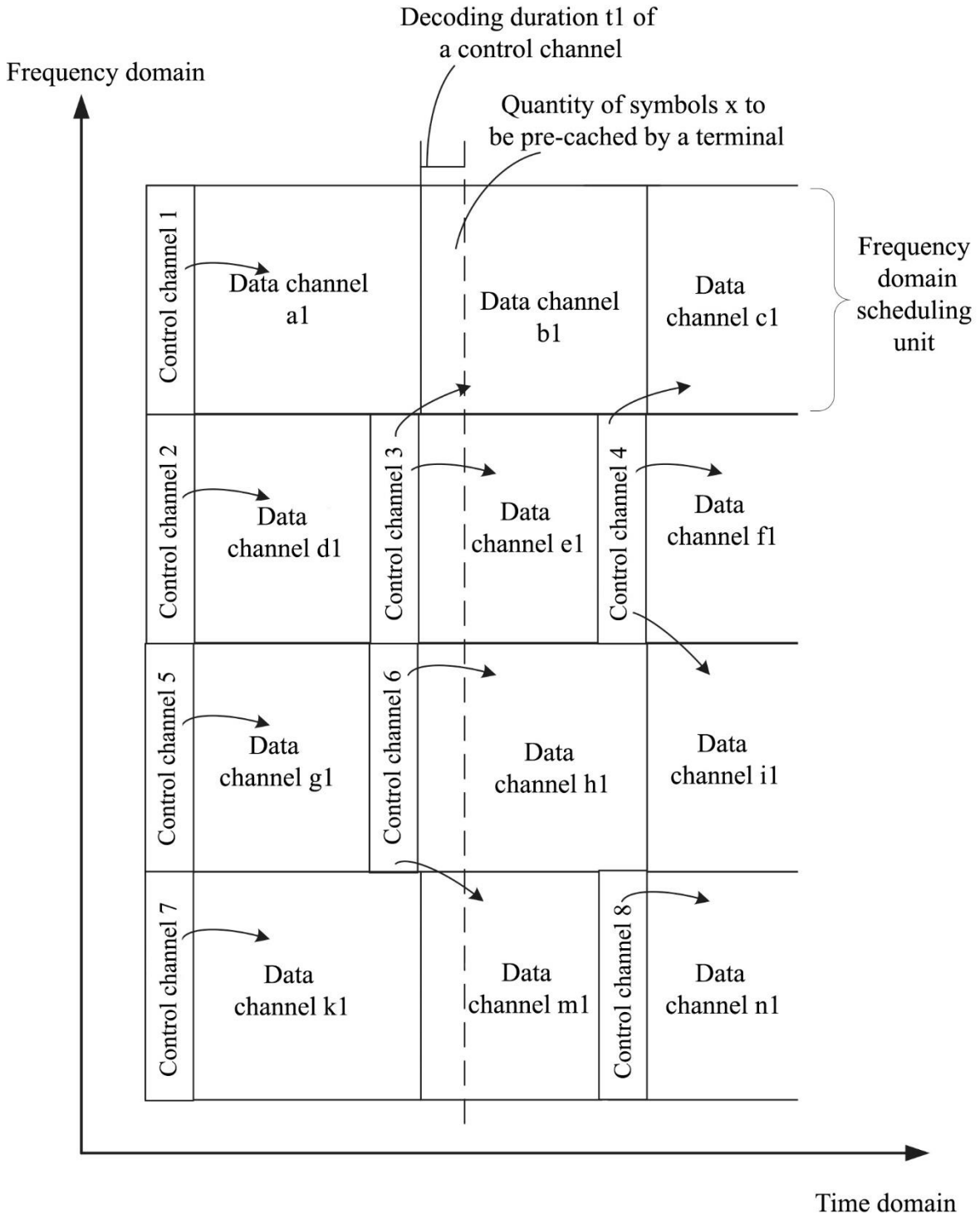
Decoding duration t1 of a control channel
Frequency domain
Quantity of symbols x to be pre-cached by a terminal
Control channel 1
Data channel a1
Data channel b1
Data channel c1
Frequency domain scheduling unit
Control channel 2
Data channel d1
Control channel 3
Data channel e1
Control channel 4
Data channel f1
Control channel 5
Data channel g1
Control channel 6
Data channel h1
Data channel i1
Control channel 7
Data channel k1
Data channel m1
Control channel 8
Data channel n1
Time domain

FIG. 5b

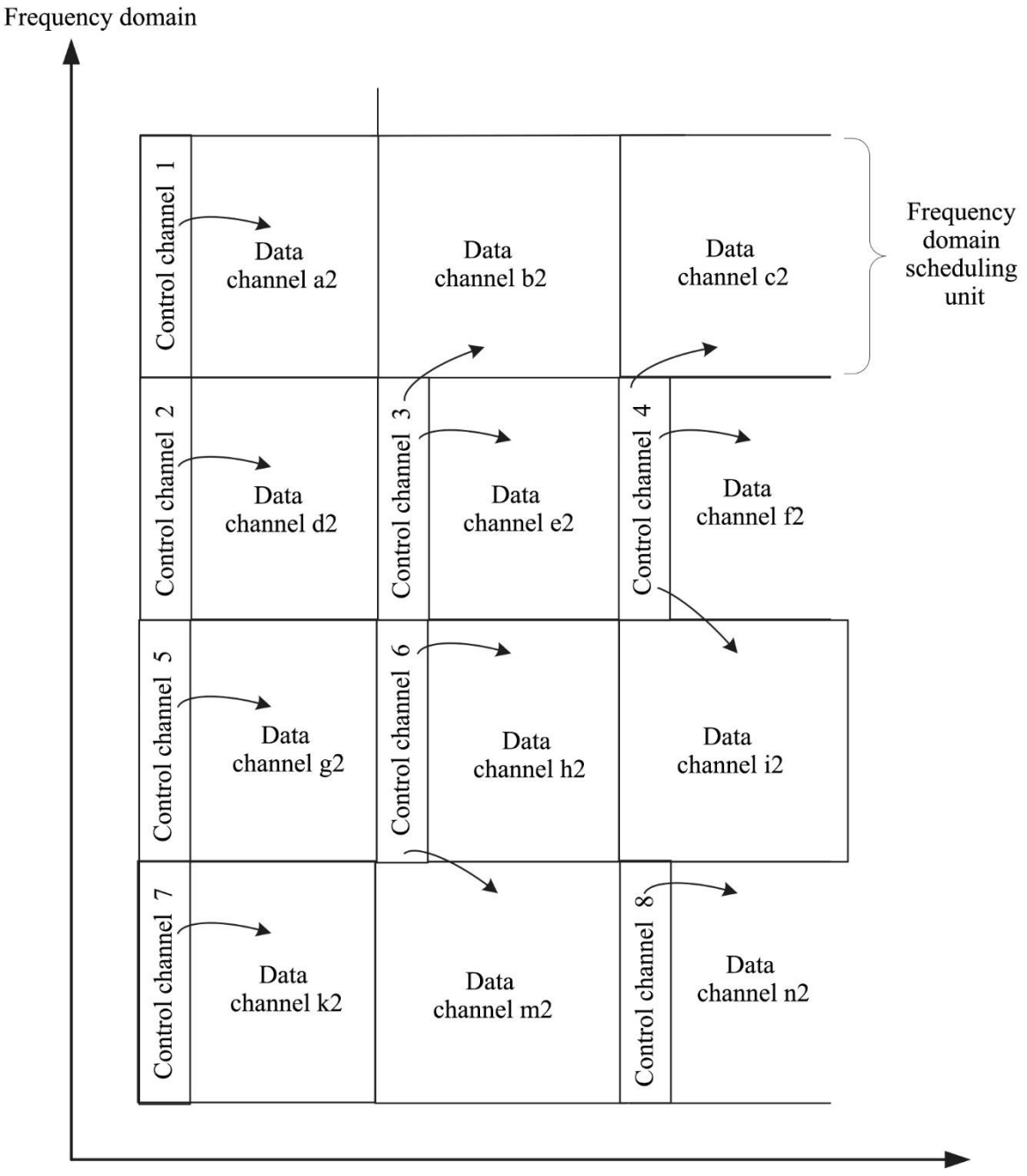
Frequency domain
Control channel 1
Data channel a2
Data channel b2
Data channel c2
Frequency domain scheduling unit
Control channel 2
Data channel d2
Control channel 3
Data channel e2
Control channel 4
Data channel f2
Control channel 5
Data channel g2
Control channel 6
Data channel h2
Data channel i2
Control channel 7
Data channel k2
Data channel m2
Control channel 8
Data channel n2

FIG. 5c

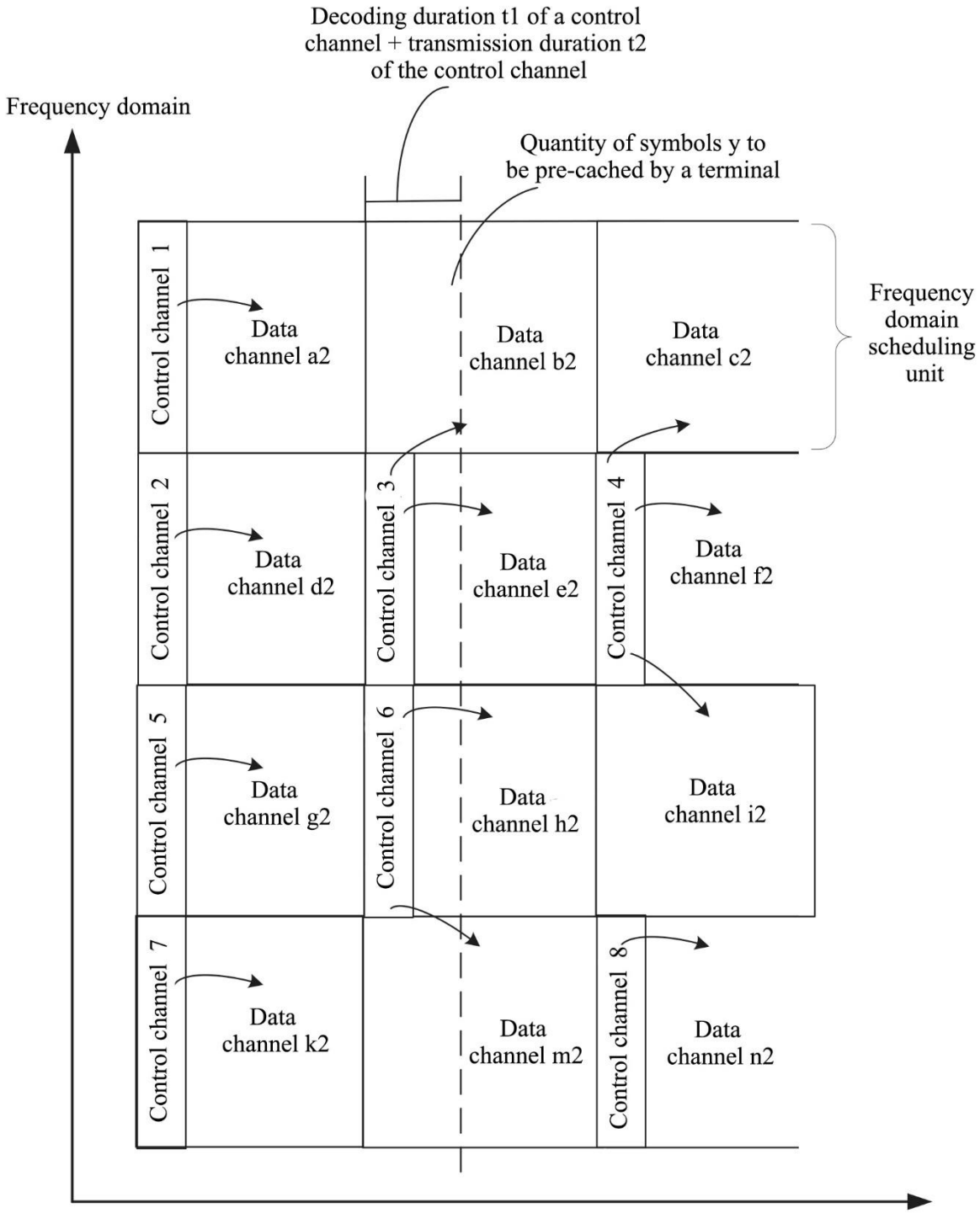
Decoding duration t1 of a control channel + transmission duration t2 of the control channel
Frequency domain
Quantity of symbols y to be pre-cached by a terminal
Control channel 1
Data channel a2
Data channel b2
Data channel c2
Frequency domain scheduling unit
Control channel 2
Data channel d2
Control channel 3
Data channel e2
Control channel 4
Data channel f2
Control channel 5
Data channel g2
Control channel 6
Data channel h2
Data channel i2
Control channel 7
Data channel k2
Data channel m2
Control channel 8
Data channel n2

FIG. 5d

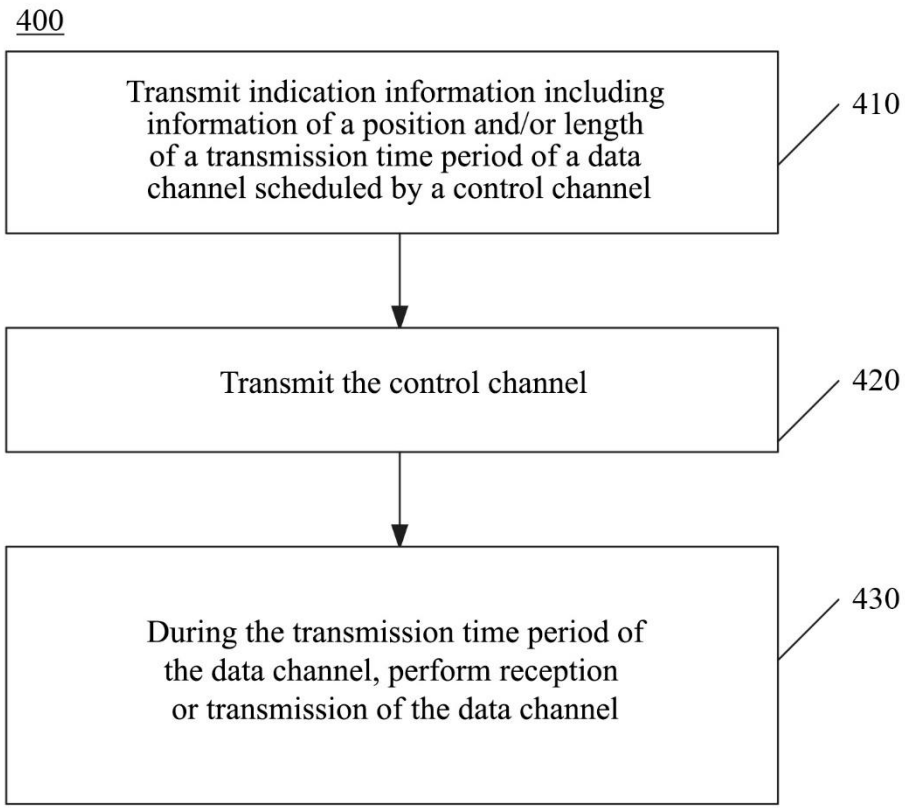
400
Transmit indication information including information of a position and/or length of a transmission time period of a data channel scheduled by a control channel
410
Transmit the control channel
420
During the transmission time period of the data channel, perform reception or transmission of the data channel
430

FIG. 6

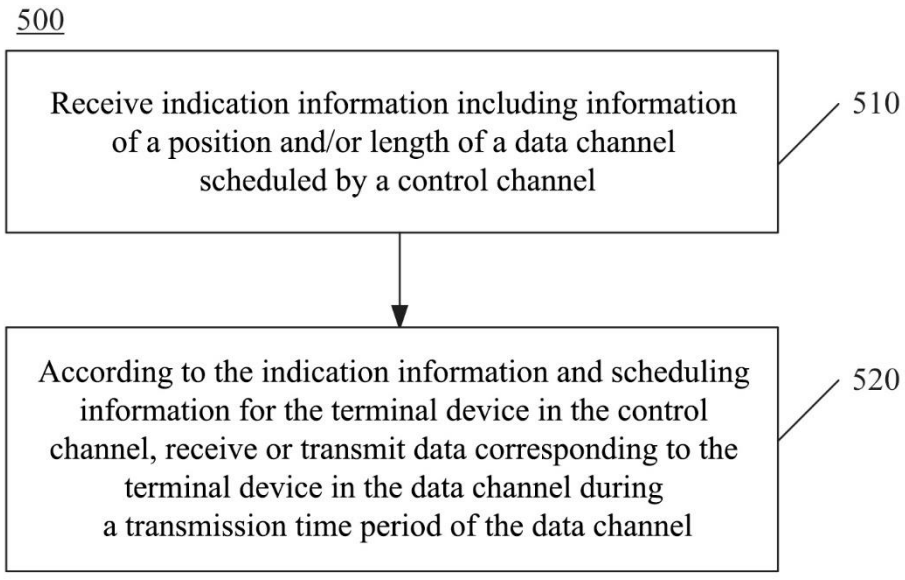
500
Receive indication information including information of a position and/or length of a data channel scheduled by a control channel
510
According to the indication information and scheduling information for the terminal device in the control channel, receive or transmit data corresponding to the terminal device in the data channel during a transmission time period of the data channel
520

FIG. 7

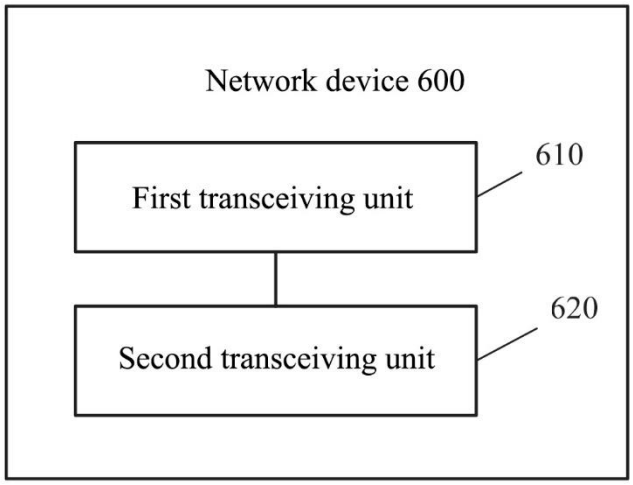
Network device 600
First transceiving unit
610
Second transceiving unit
620

FIG. 8

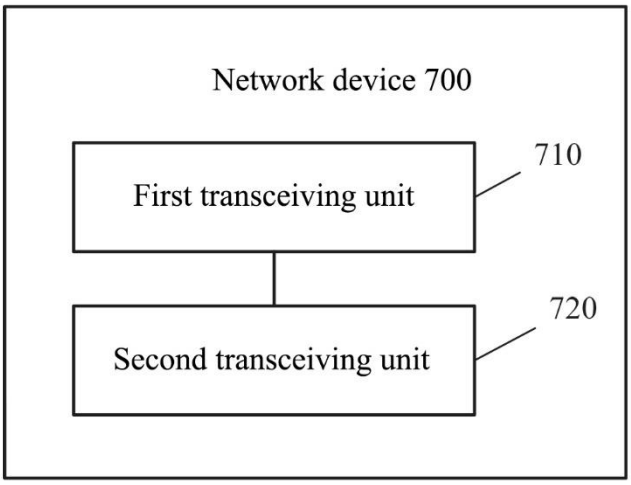
Network device 700
First transceiving unit
710
Second transceiving unit
720

FIG. 9

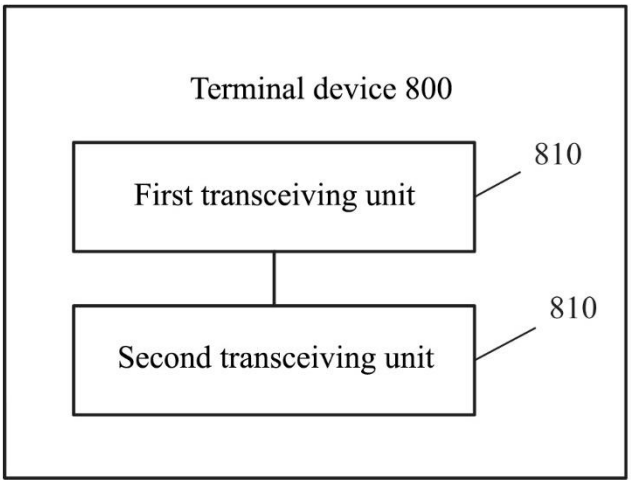
Terminal device 800
First transceiving unit
810
Second transceiving unit
810

FIG. 10

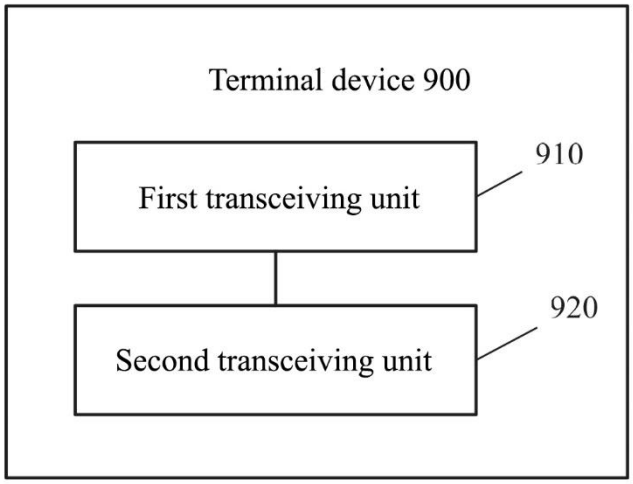
Terminal device 900
First transceiving unit
910
Second transceiving unit
920

FIG. 11

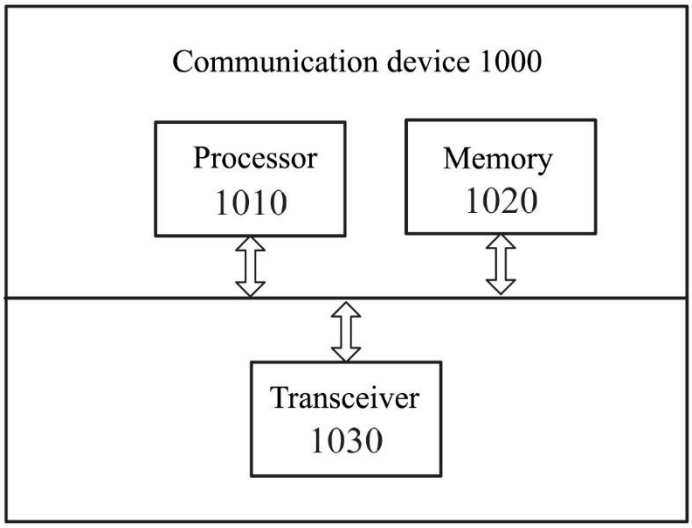
Communication device 1000
Processor
1010
Memory
1020
Transceiver
1030

FIG. 12

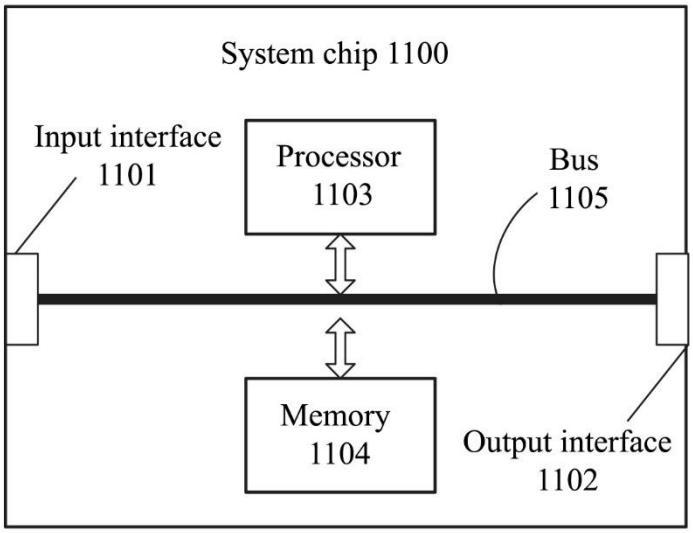
System chip 1100
Input interface
1101
Processor
1103
Bus
1105
Memory
1104
Output interface
1102

FIG. 13