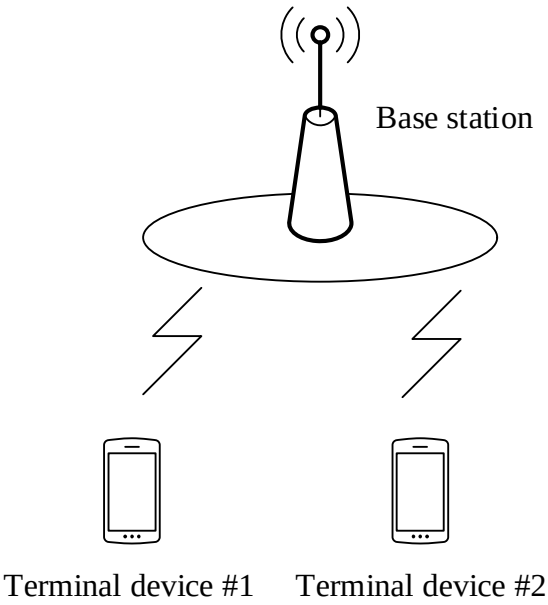

Base station
Terminal device #1
Terminal device #2

FIG. 1

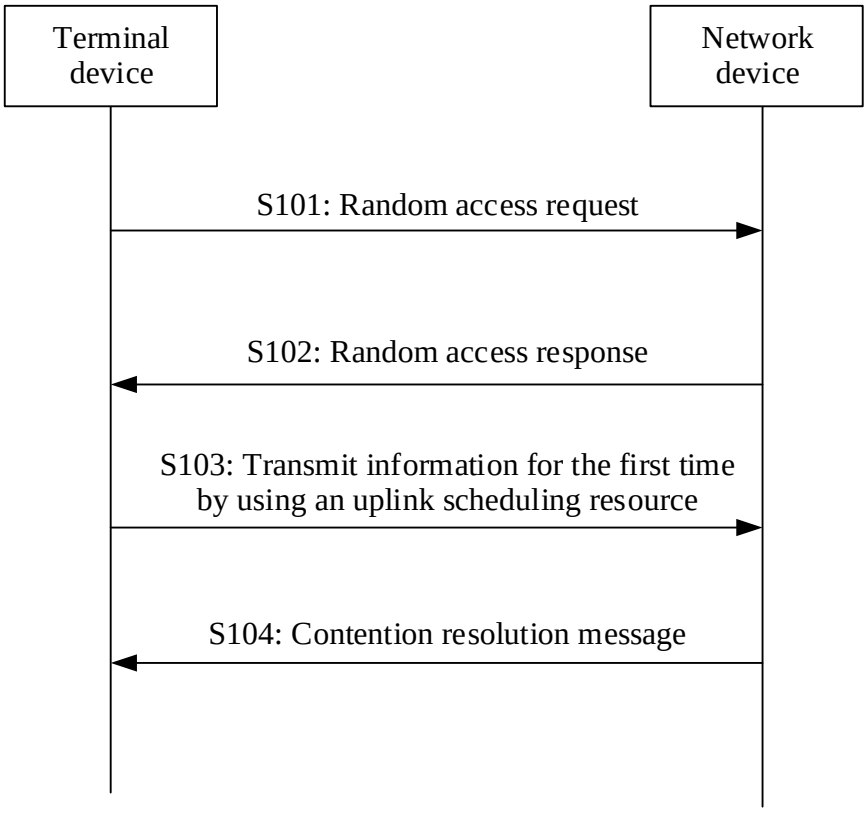

Terminal device
Network device
S101: Random access request
S102: Random access response
S103: Transmit information for the first time by using an uplink scheduling resource
S104: Contention resolution message

FIG. 2

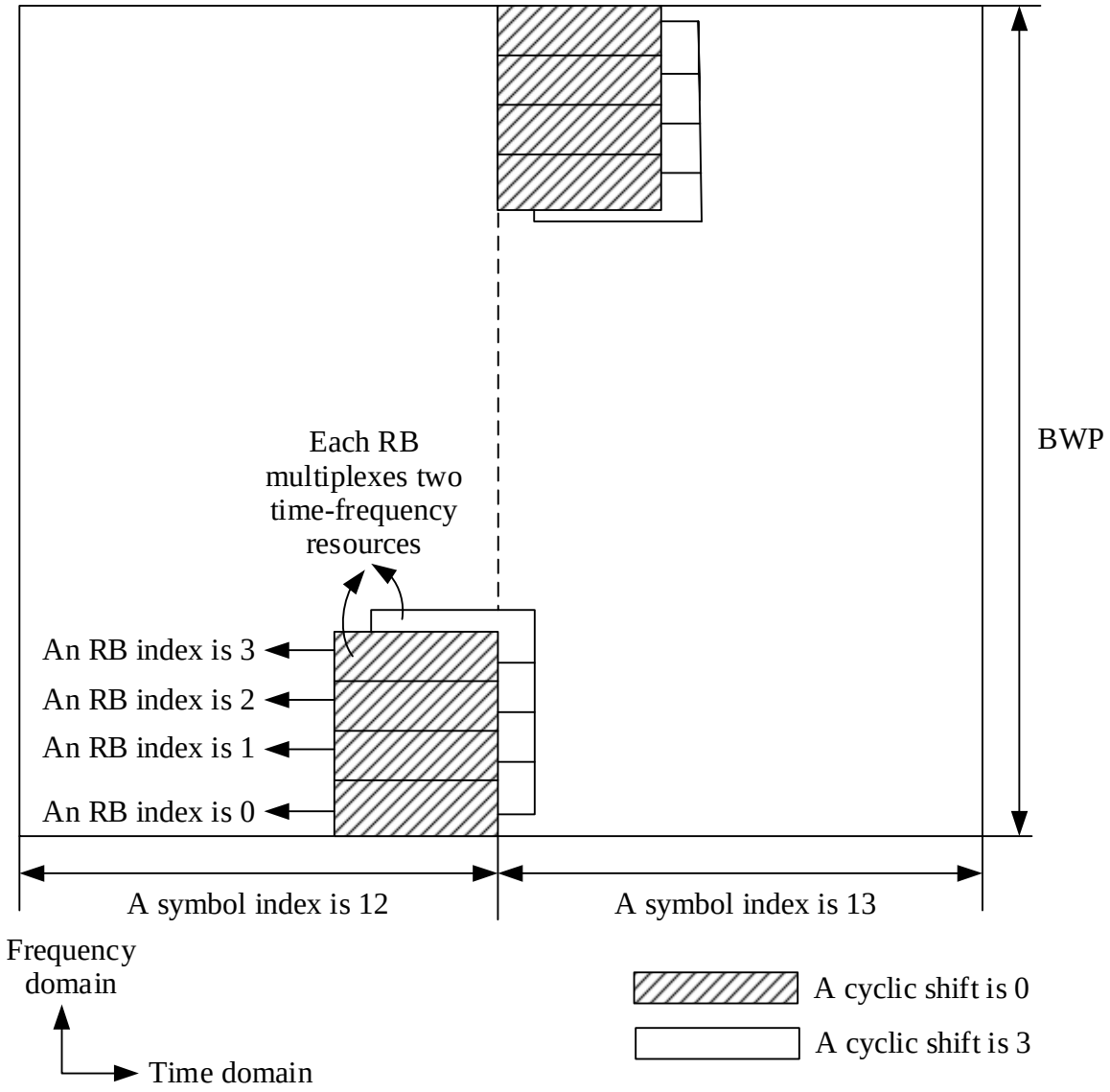

Each RB multiplexes two time-frequency resources
BWP
An RB index is 3
An RB index is 2
An RB index is 1
An RB index is 0
A symbol index is 12
A symbol index is 13
Frequency domain
Time domain
A cyclic shift is 0
A cyclic shift is 3

FIG. 3

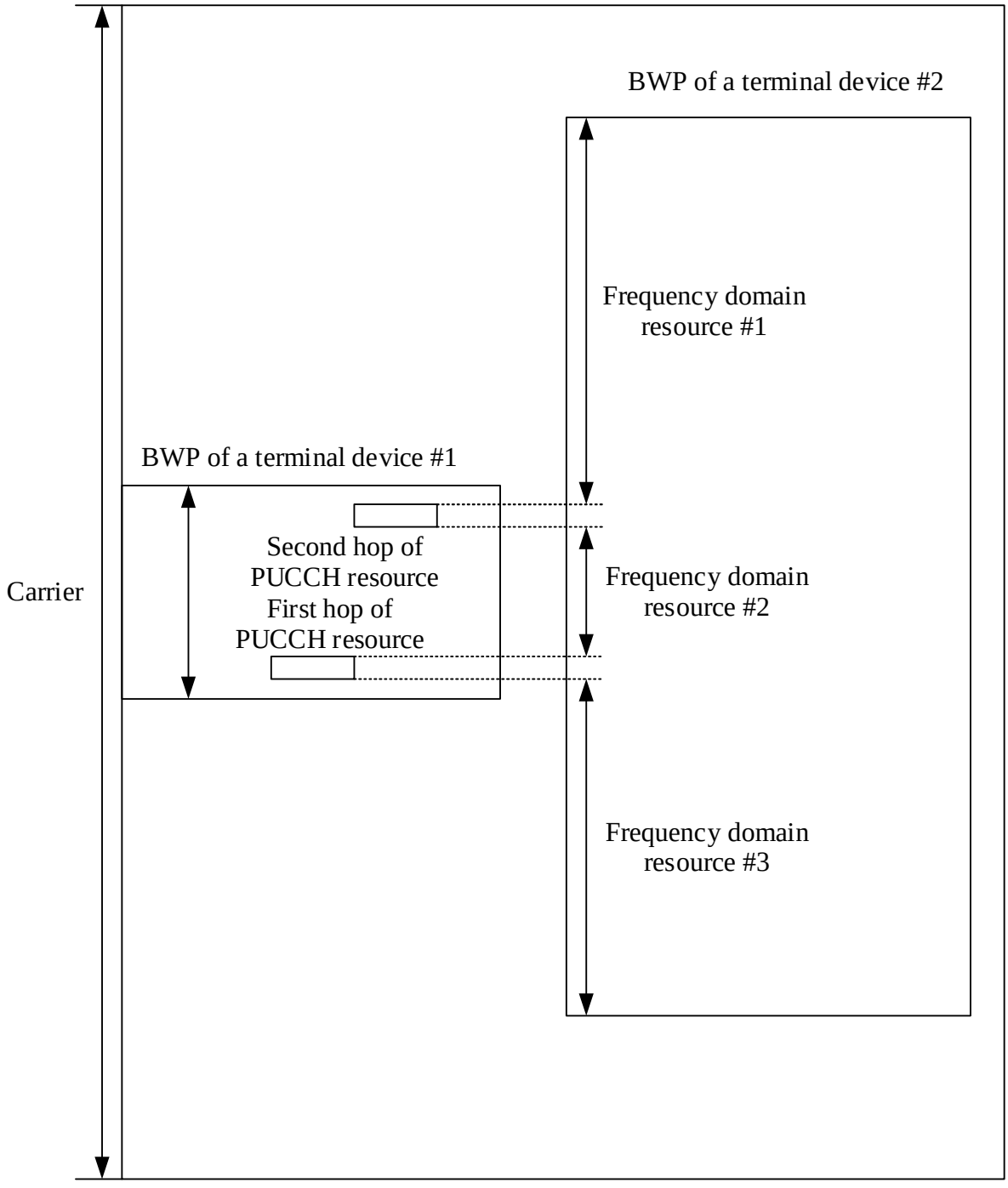

BWP of a terminal device #2
Frequency domain resource #1
BWP of a terminal device #1
Second hop of PUCCH resource
First hop of PUCCH resource
Carrier
Frequency domain resource #2
Frequency domain resource #3

FIG. 4

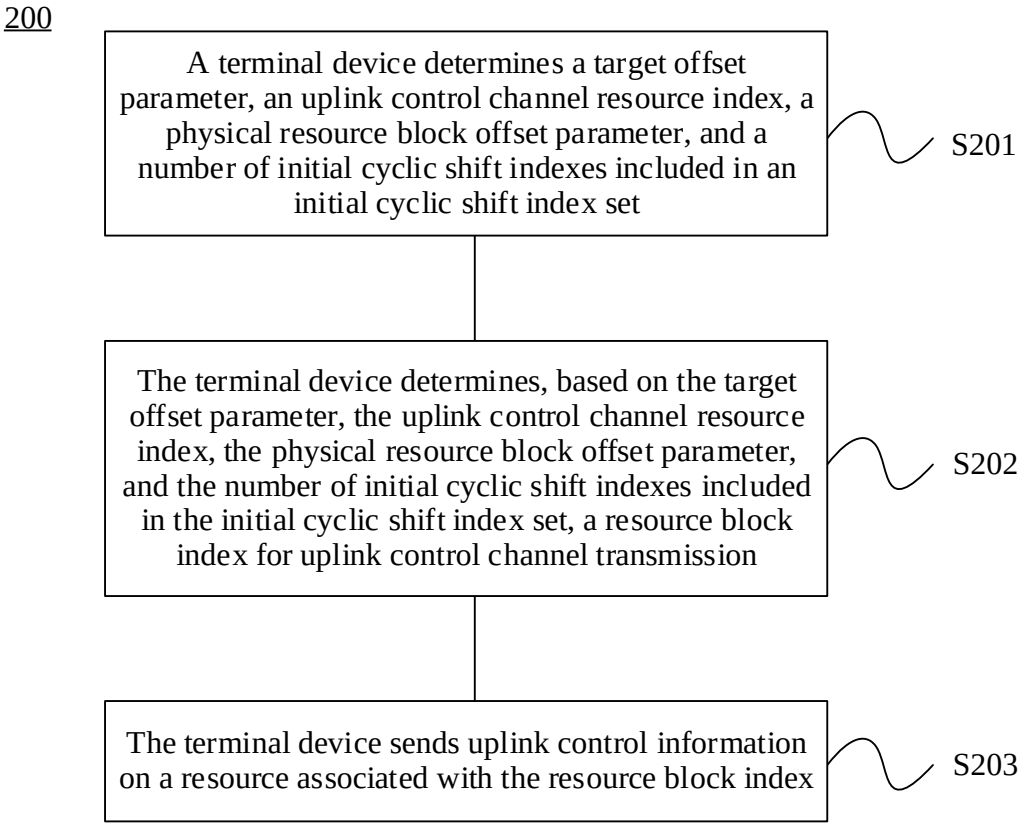

200
A terminal device determines a target offset parameter, an uplink control channel resource index, a physical resource block offset parameter, and a number of initial cyclic shift indexes included in an initial cyclic shift index set
S201
The terminal device determines, based on the target offset parameter, the uplink control channel resource index, the physical resource block offset parameter, and the number of initial cyclic shift indexes included in the initial cyclic shift index set, a resource block index for uplink control channel transmission
S202
The terminal device sends uplink control information on a resource associated with the resource block index
S203

FIG. 5

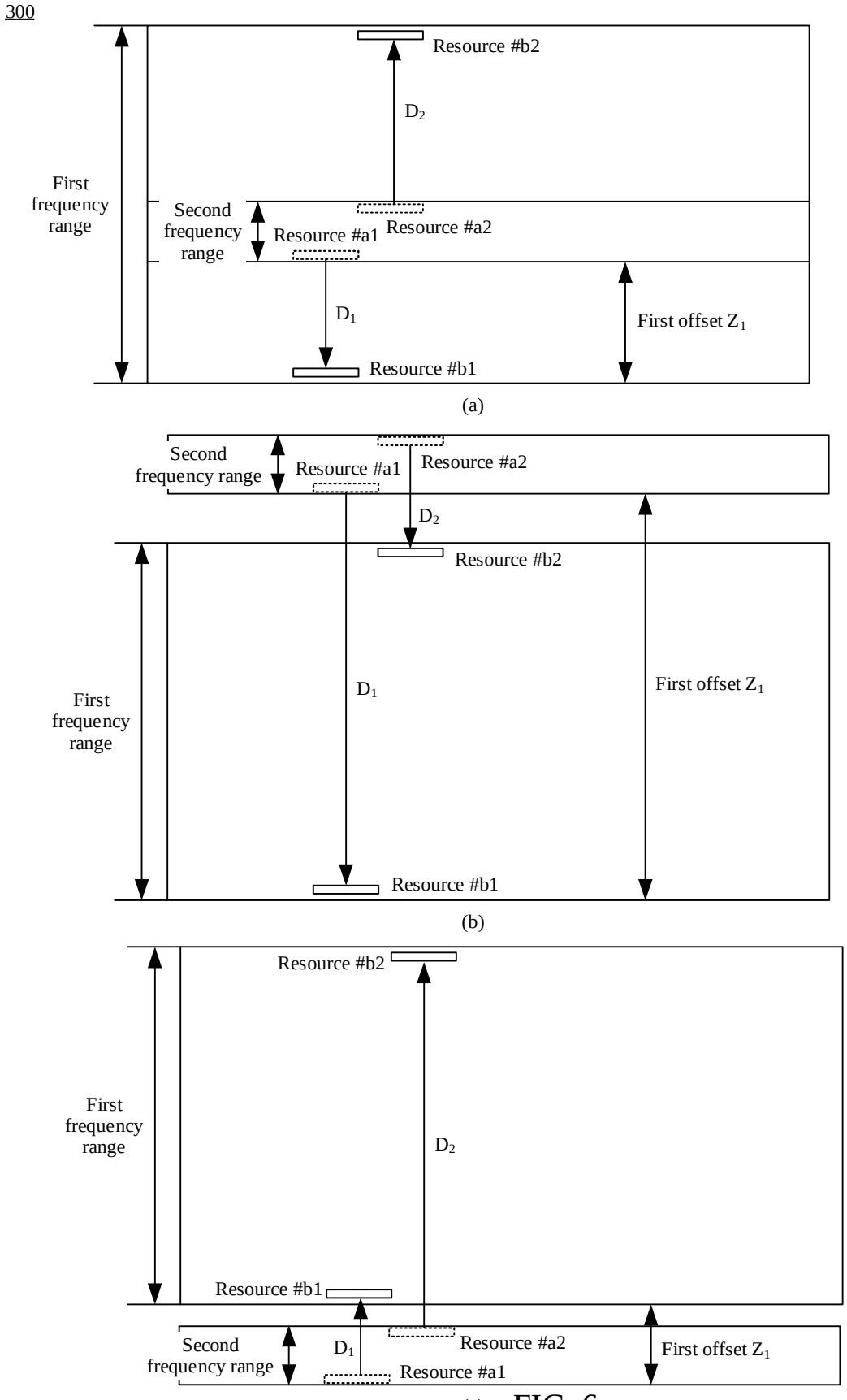

300
Resource #b2
D2
First frequency range
Second frequency range
Resource #a1
Resource #a2
D1
First offset Z1
Resource #b1
(a)
Second frequency range
Resource #a1
Resource #a2
D2
Resource #b2
First frequency range
D1
First offset Z1
Resource #b1
(b)
Resource #b2
First frequency range
D2
Resource #b1
Second frequency range
D1
Resource #a2
Resource #a1
First offset Z1
(c)

FIG. 6

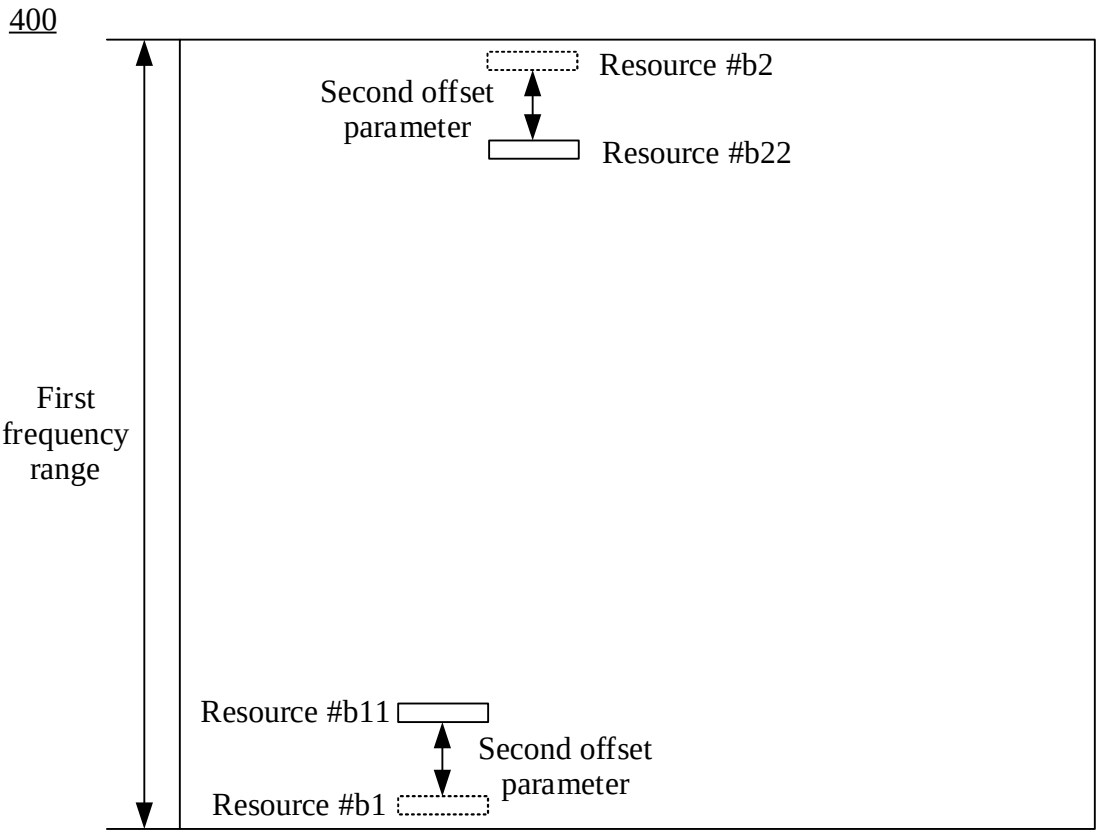

400
Resource #b2
Second offset parameter
Resource #b22
First frequency range
Resource #b11
Second offset parameter
Resource #b1

FIG. 7

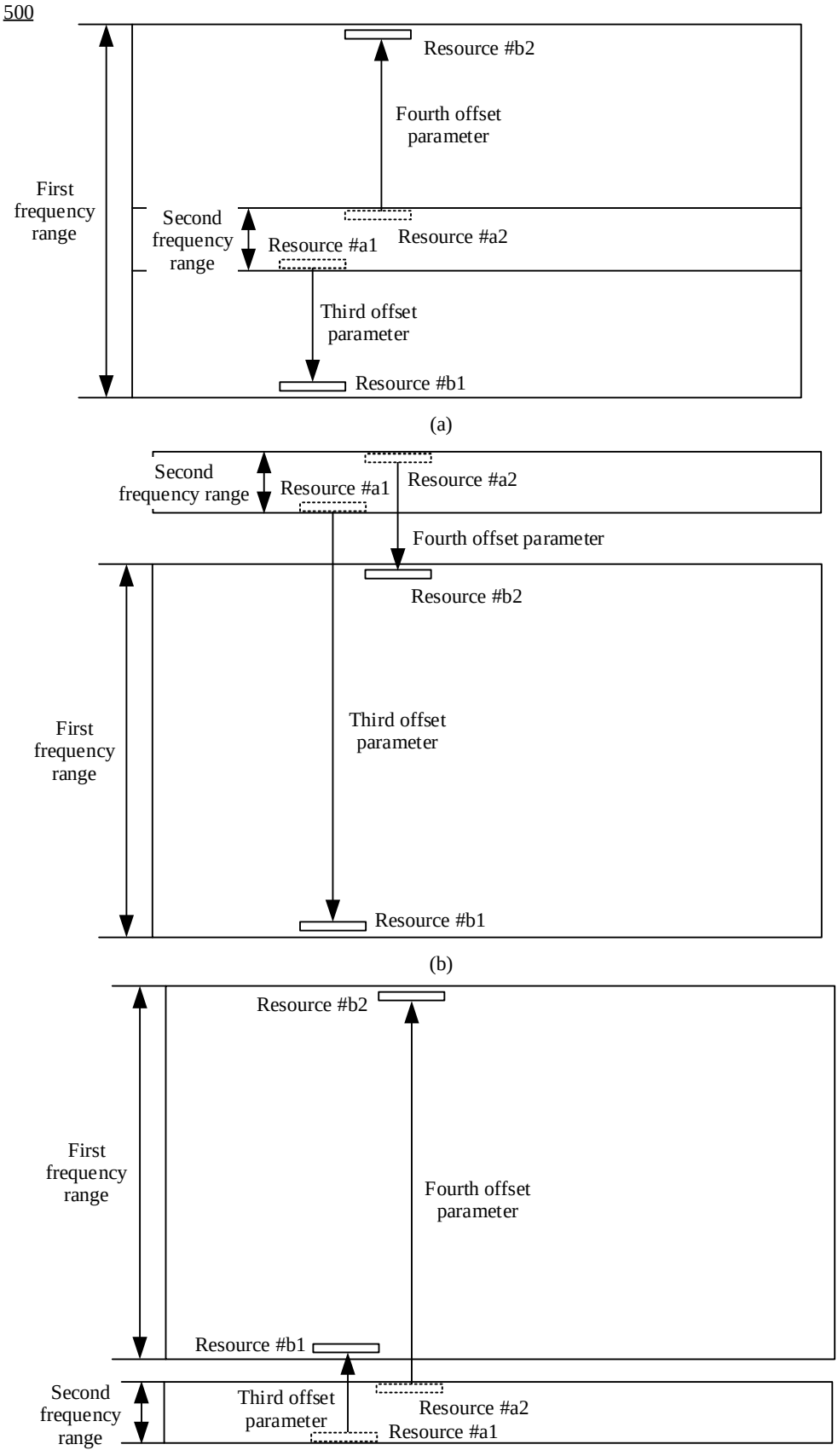

500
Resource #b2
Fourth offset parameter
First frequency range
Second frequency range
Resource #a1
Resource #a2
Third offset parameter
Resource #b1
(a)
Second frequency range
Resource #a1
Resource #a2
Fourth offset parameter
Resource #b2
First frequency range
Third offset parameter
Resource #b1
(b)
Resource #b2
First frequency range
Fourth offset parameter
Resource #b1
Second frequency range
Third offset parameter
Resource #a2
Resource #a1
(c)

FIG. 8

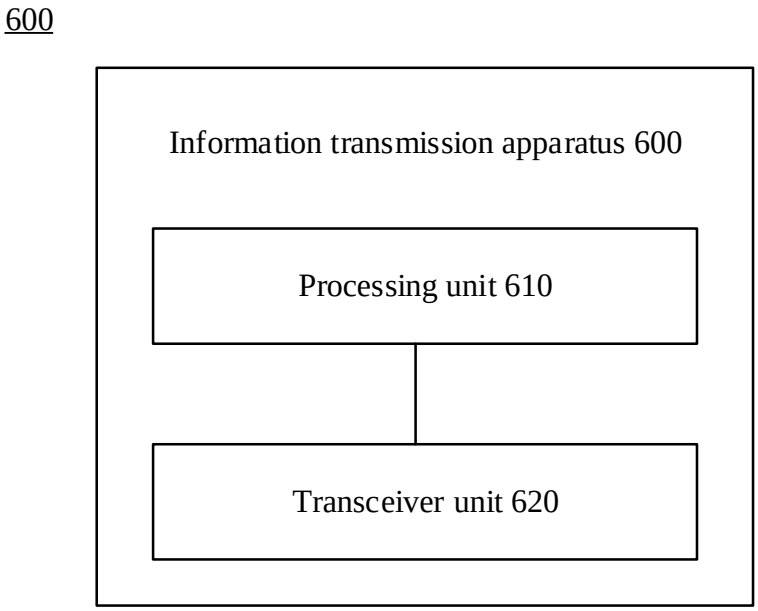

600
Information transmission apparatus 600
Processing unit 610
Transceiver unit 620

FIG. 9

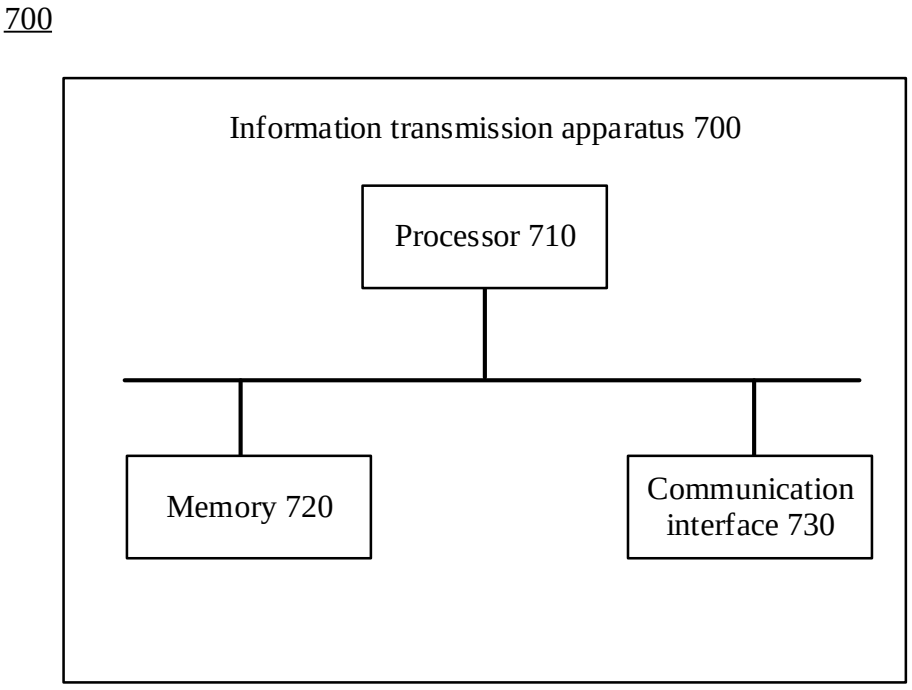

700
Information transmission apparatus 700
Processor 710
Memory 720
Communication interface 730

FIG. 10

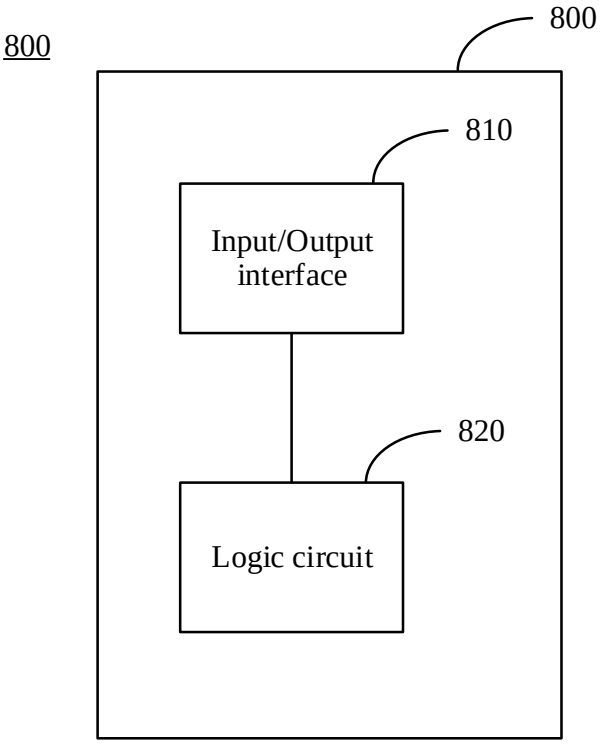


FIG. 11