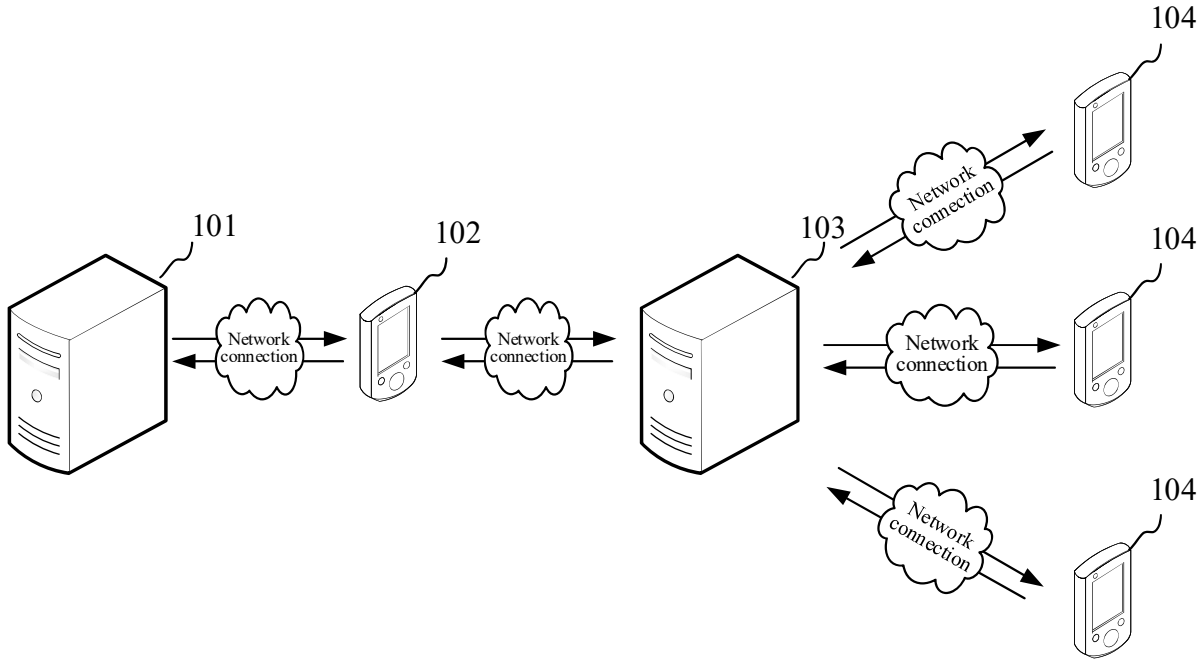
101
102
103
104
104
104
Network connection
Network connection
Network connection
Network connection
Network connection

FIG. 1

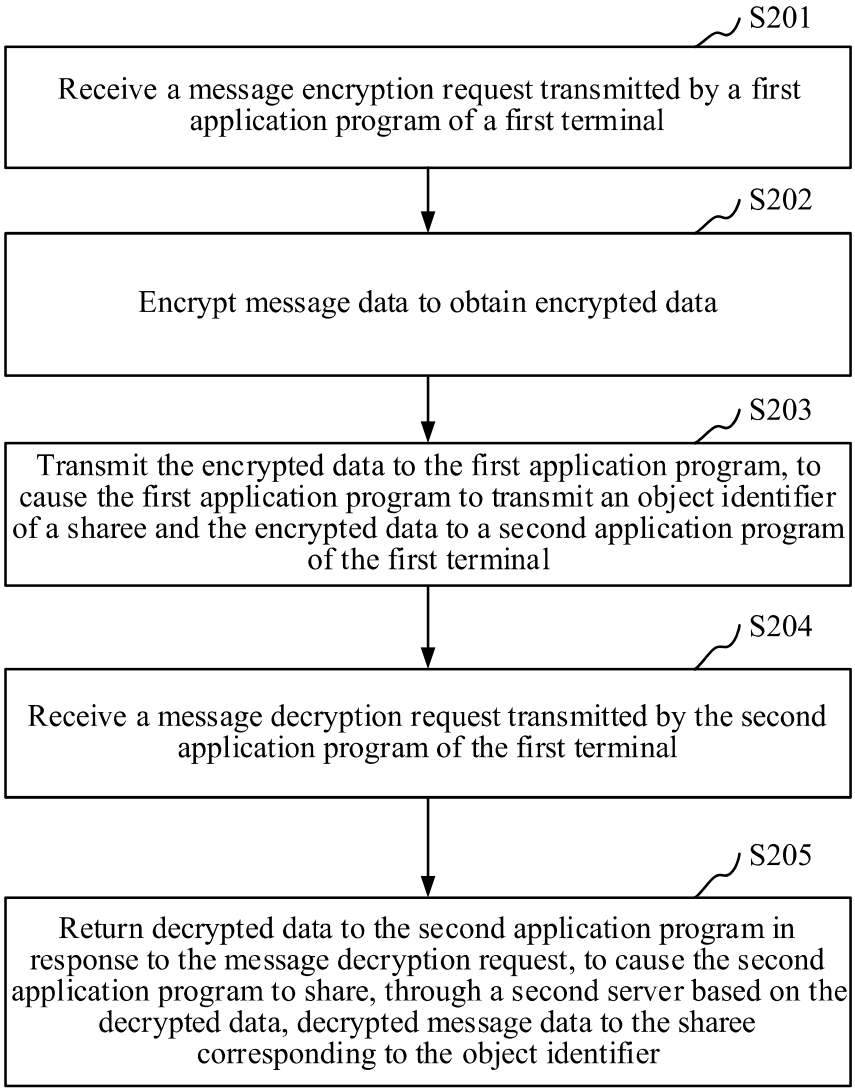
S201
Receive a message encryption request transmitted by a first application program of a first terminal
S202
Encrypt message data to obtain encrypted data
S203
Transmit the encrypted data to the first application program, to cause the first application program to transmit an object identifier of a sharee and the encrypted data to a second application program of the first terminal
S204
Receive a message decryption request transmitted by the second application program of the first terminal
S205
Return decrypted data to the second application program in response to the message decryption request, to cause the second application program to share, through a second server based on the decrypted data, decrypted message data to the sharee corresponding to the object identifier

FIG. 2

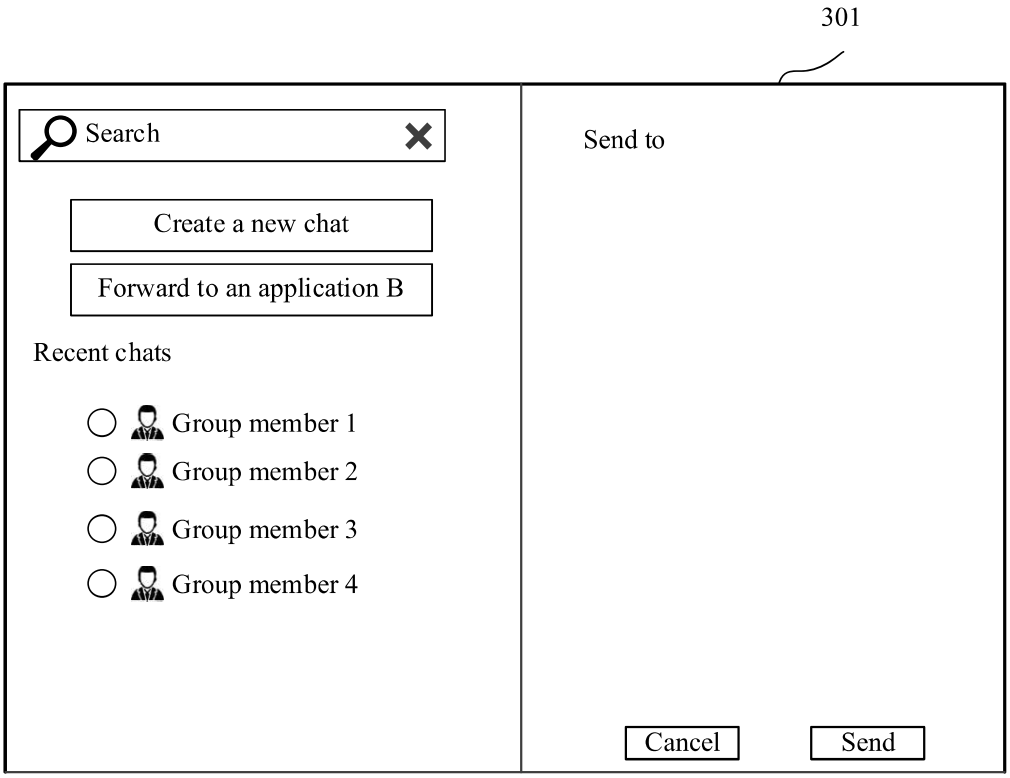
301
Search
Send to
Create a new chat
Forward to an application B
Recent chats
Group member 1
Group member 2
Group member 3
Group member 4
Cancel
Send

FIG. 3

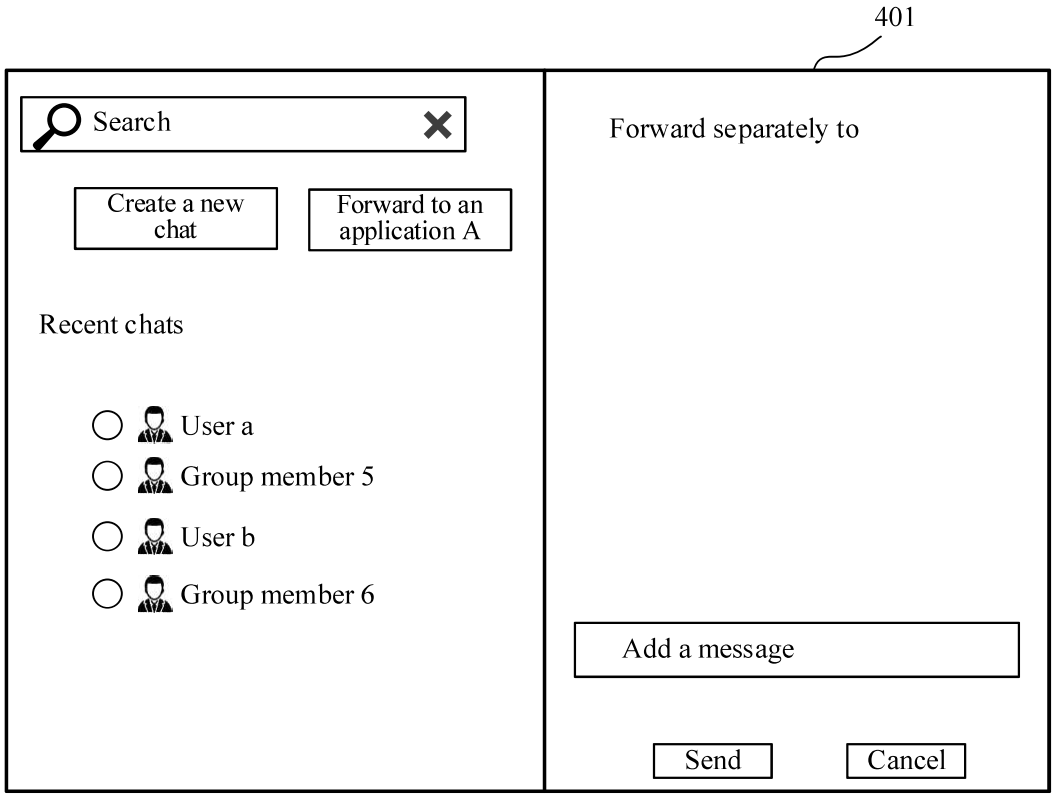
401
Search
Forward separately to
Create a new chat
Forward to an application A
Recent chats
User a
Group member 5
User b
Group member 6
Add a message
Send
Cancel

FIG. 4

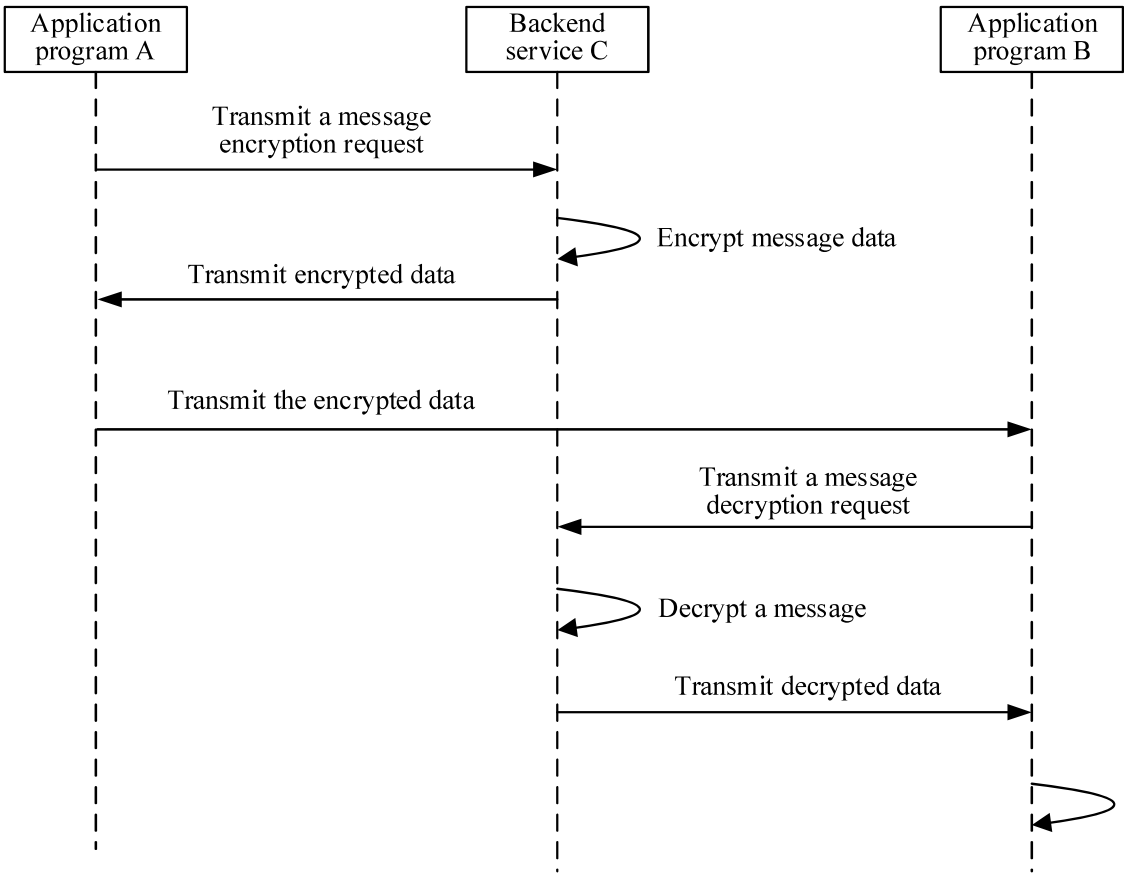
Application program A
Backend service C
Application program B
Transmit a message encryption request
Encrypt message data
Transmit encrypted data
Transmit the encrypted data
Transmit a message decryption request
Decrypt a message
Transmit decrypted data

FIG. 5

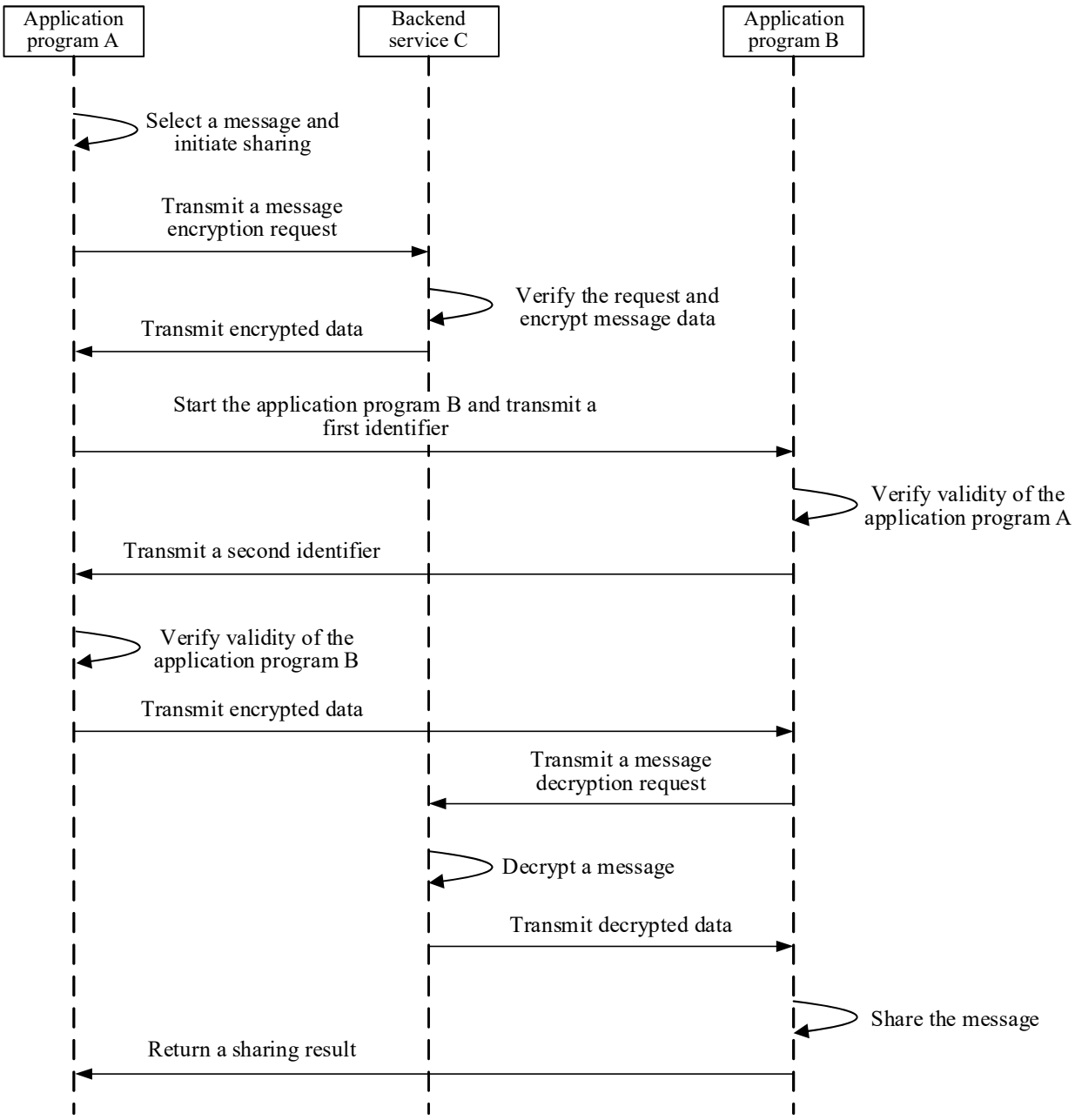
Application program A
Backend service C
Application program B
Select a message and initiate sharing
Transmit a message encryption request
Verify the request and encrypt message data
Transmit encrypted data
Start the application program B and transmit a first identifier
Verify validity of the application program A
Transmit a second identifier
Verify validity of the application program B
Transmit encrypted data
Transmit a message decryption request
Decrypt a message
Transmit decrypted data
Share the message
Return a sharing result

FIG. 6

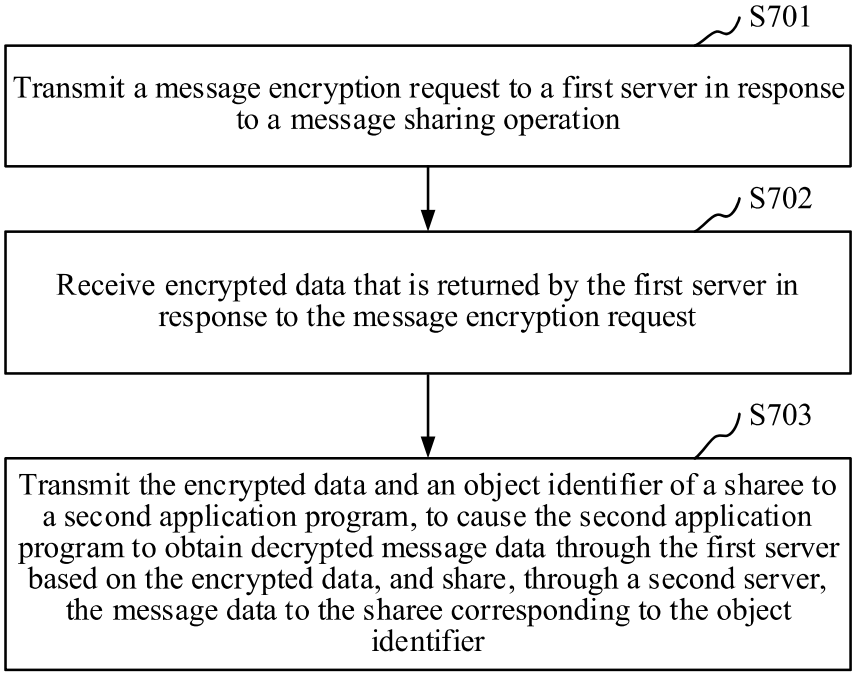
S701
Transmit a message encryption request to a first server in response to a message sharing operation
S702
Receive encrypted data that is returned by the first server in response to the message encryption request
S703
Transmit the encrypted data and an object identifier of a sharee to a second application program, to cause the second application program to obtain decrypted message data through the first server based on the encrypted data, and share, through a second server, the message data to the sharee corresponding to the object identifier

FIG. 7

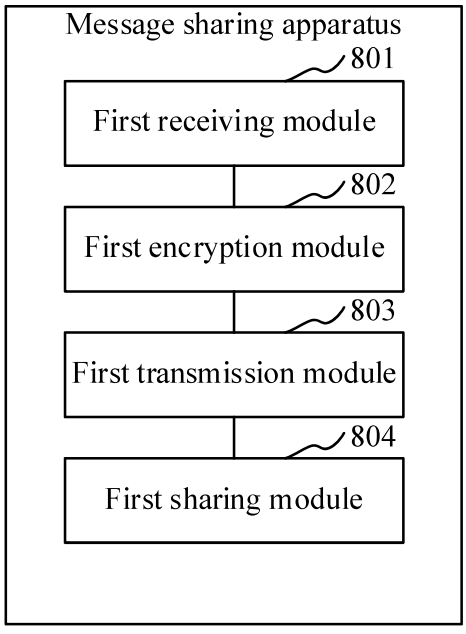
Message sharing apparatus
801
First receiving module
802
First encryption module
803
First transmission module
804
First sharing module

FIG. 8

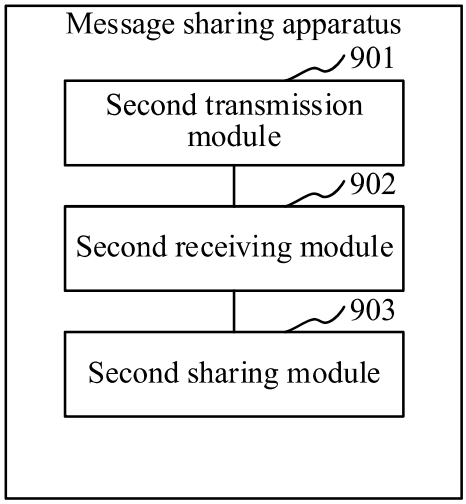
Message sharing apparatus
901
Second transmission module
902
Second receiving module
903
Second sharing module

FIG. 9

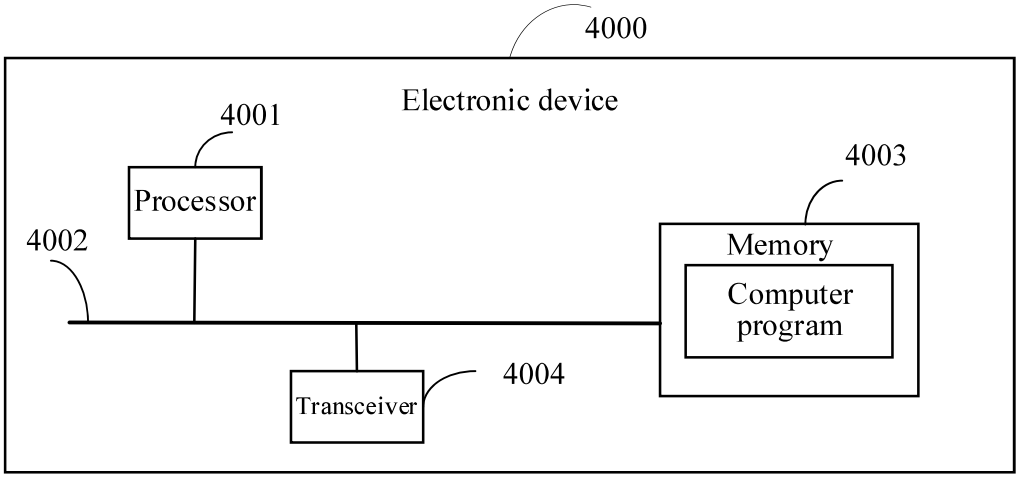
4000
Electronic device
4001
Processor
4002
4003
Memory
Computer program
Transceiver
4004

FIG. 10