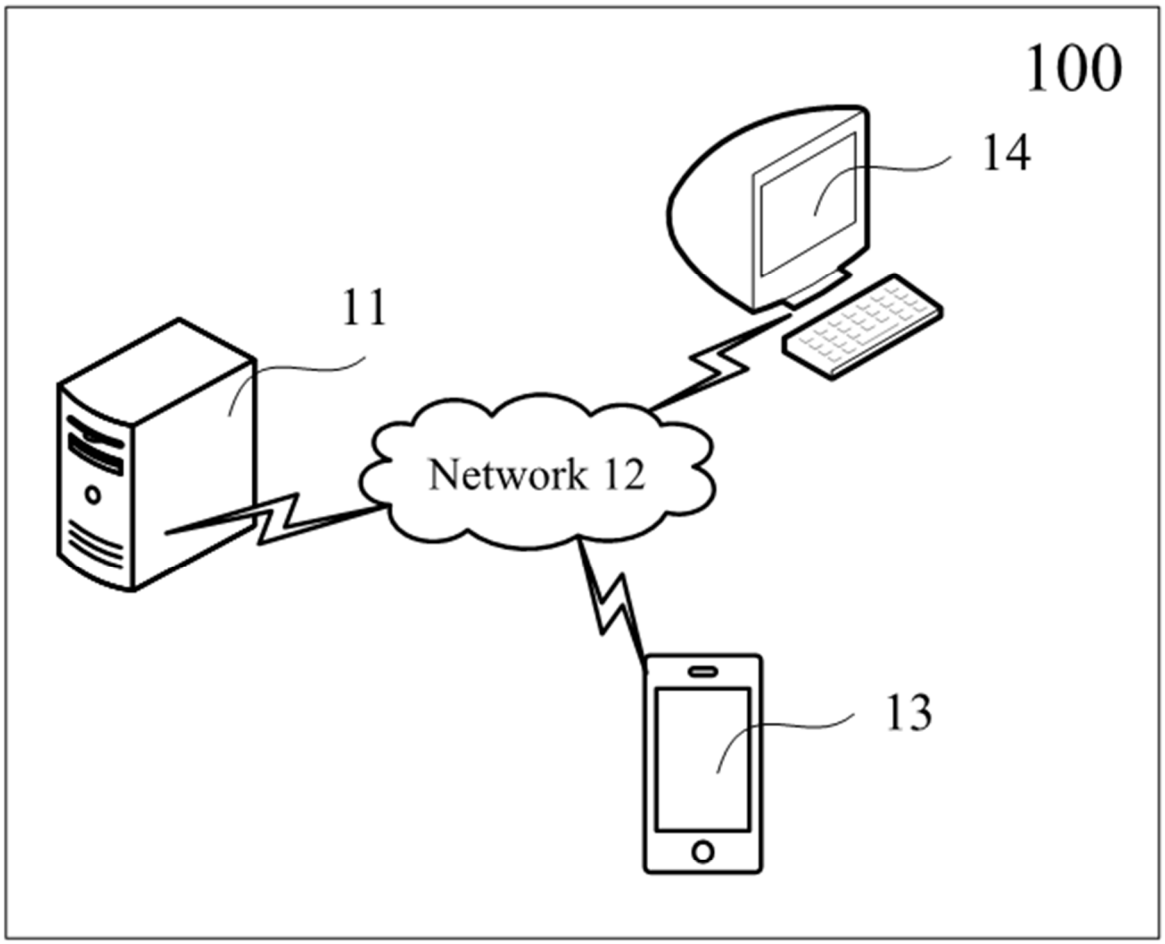

FIG. 1

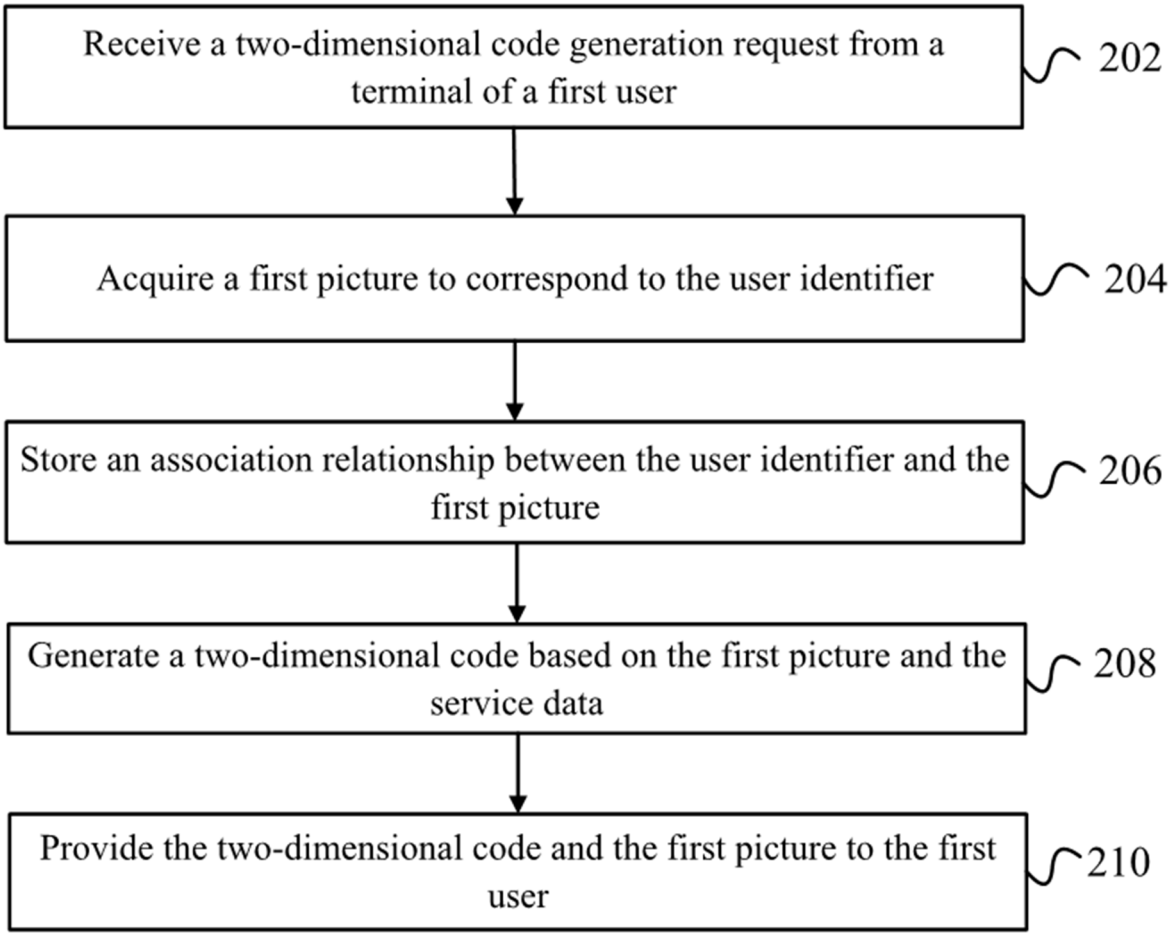
Receive a two-dimensional code generation request from a terminal of a first user
202
Acquire a first picture to correspond to the user identifier
204
Store an association relationship between the user identifier and the first picture
206
Generate a two-dimensional code based on the first picture and the service data
208
Provide the two-dimensional code and the first picture to the first user
210

FIG. 2

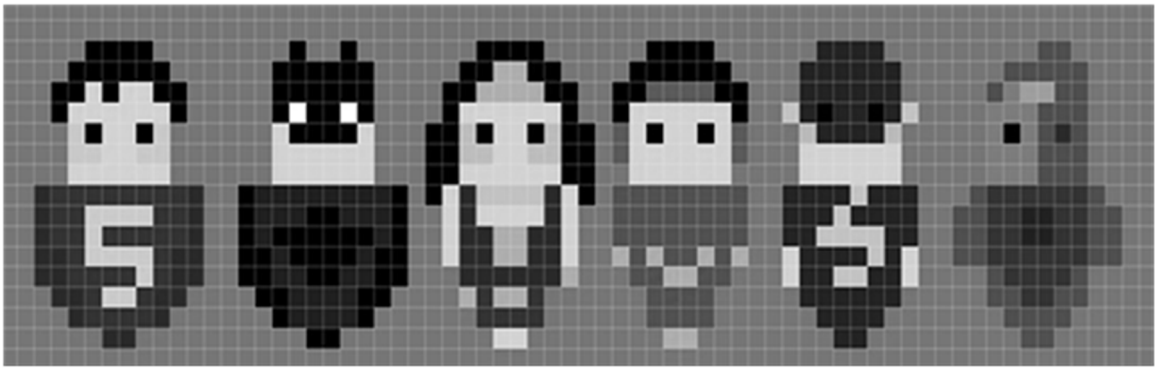

FIG. 3

FIG. 4

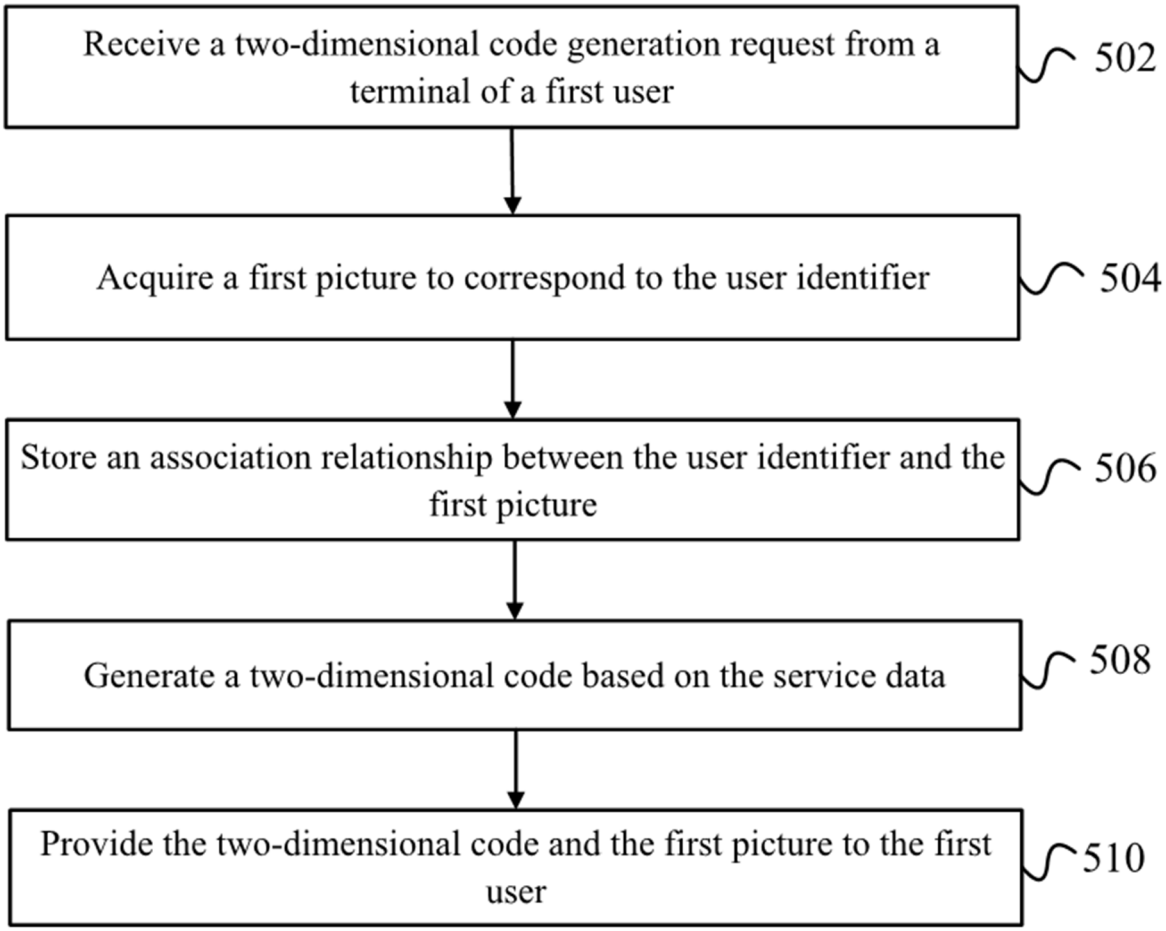
Receive a two-dimensional code generation request from a terminal of a first user
502
Acquire a first picture to correspond to the user identifier
504
Store an association relationship between the user identifier and the first picture
506
Generate a two-dimensional code based on the service data
508
Provide the two-dimensional code and the first picture to the first user
510

FIG. 5

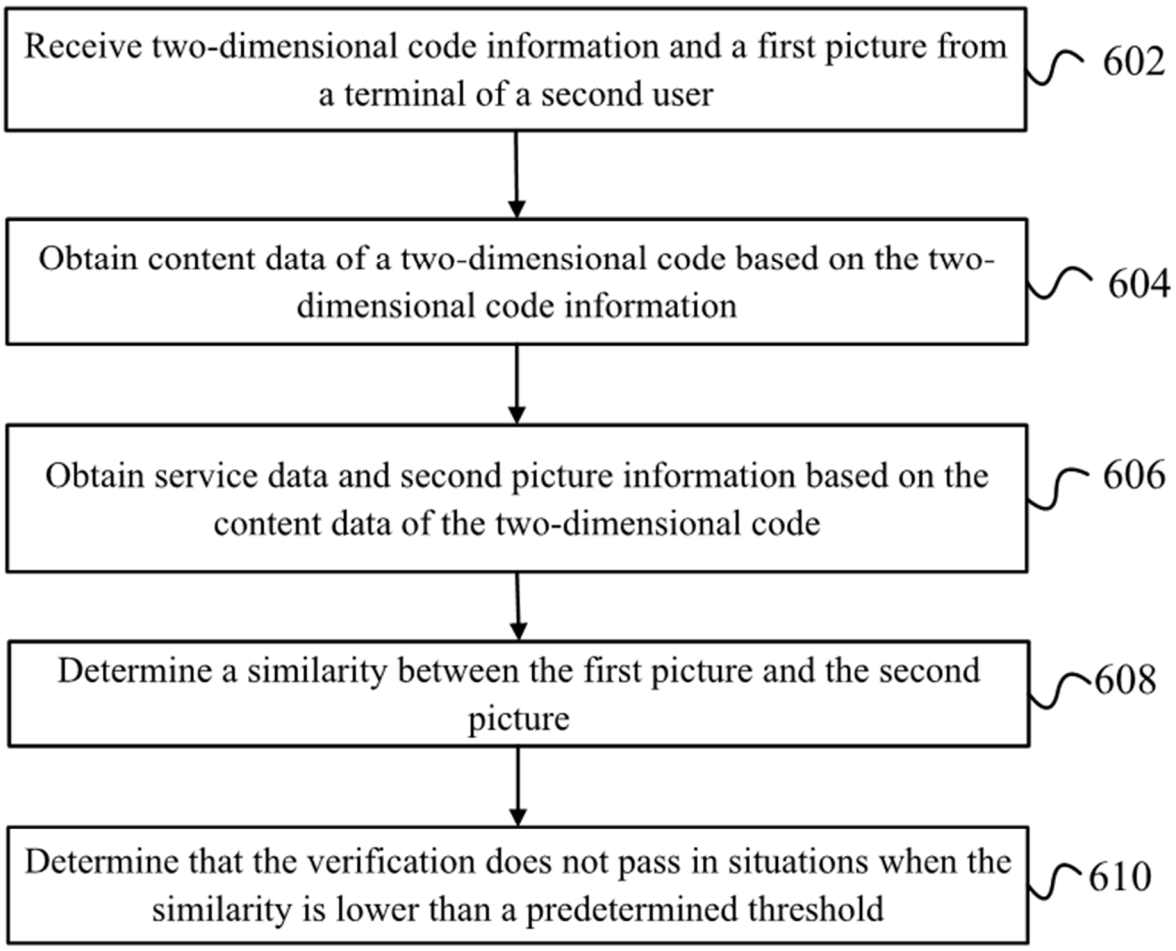
Receive two-dimensional code information and a first picture from a terminal of a second user
602
Obtain content data of a two-dimensional code based on the two-dimensional code information
604
Obtain service data and second picture information based on the content data of the two-dimensional code
606
Determine a similarity between the first picture and the second picture
608
Determine that the verification does not pass in situations when the similarity is lower than a predetermined threshold
610

FIG. 6

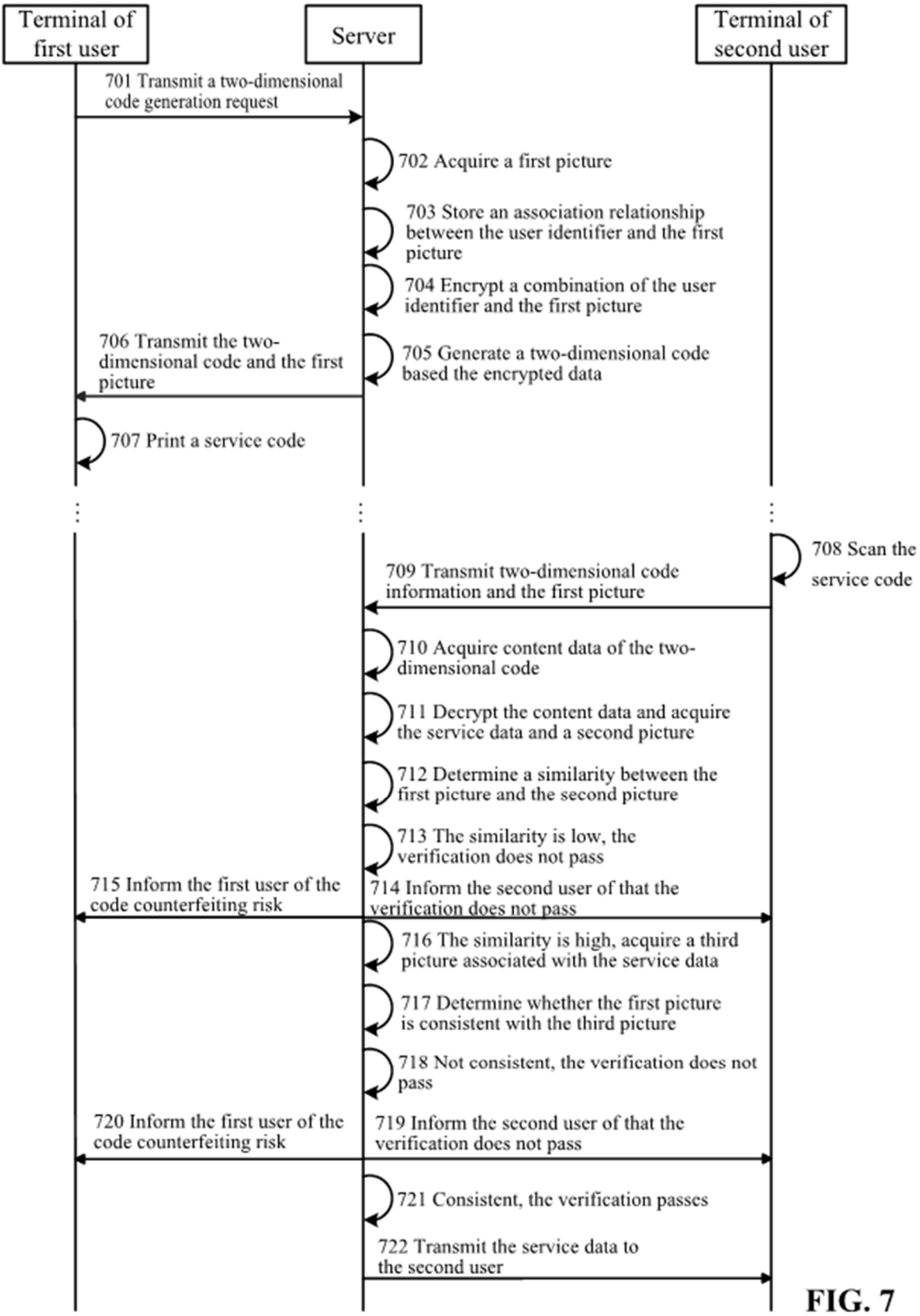
Terminal of first user
Server
Terminal of second user
701 Transmit a two-dimensional code generation request
702 Acquire a first picture
703 Store an association relationship between the user identifier and the first picture
704 Encrypt a combination of the user identifier and the first picture
705 Generate a two-dimensional code based the encrypted data
706 Transmit the two-dimensional code and the first picture
707 Print a service code
708 Scan the service code
709 Transmit two-dimensional code information and the first picture
710 Acquire content data of the two-dimensional code
711 Decrypt the content data and acquire the service data and a second picture
712 Determine a similarity between the first picture and the second picture
713 The similarity is low, the verification does not pass
714 Inform the second user of that the verification does not pass
715 Inform the first user of the code counterfeiting risk
716 The similarity is high, acquire a third picture associated with the service data
717 Determine whether the first picture is consistent with the third picture
718 Not consistent, the verification does not pass
719 Inform the second user of that the verification does not pass
720 Inform the first user of the code counterfeiting risk
721 Consistent, the verification passes
722 Transmit the service data to the second user

FIG. 7

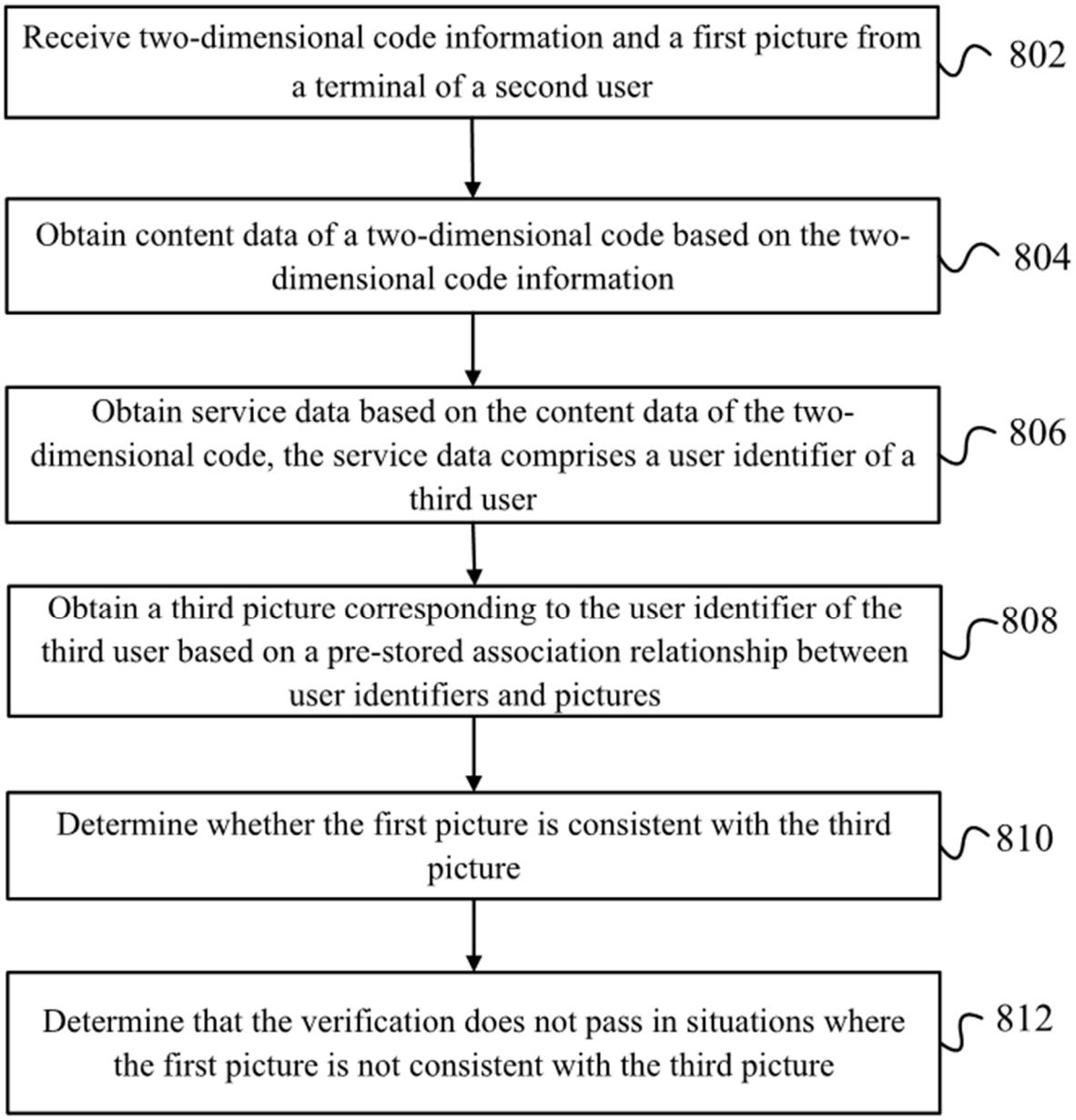
Receive two-dimensional code information and a first picture from a terminal of a second user
802
Obtain content data of a two-dimensional code based on the two-dimensional code information
804
Obtain service data based on the content data of the two-dimensional code, the service data comprises a user identifier of a third user
806
Obtain a third picture corresponding to the user identifier of the third user based on a pre-stored association relationship between user identifiers and pictures
808
Determine whether the first picture is consistent with the third picture
810
Determine that the verification does not pass in situations where the first picture is not consistent with the third picture
812

FIG. 8

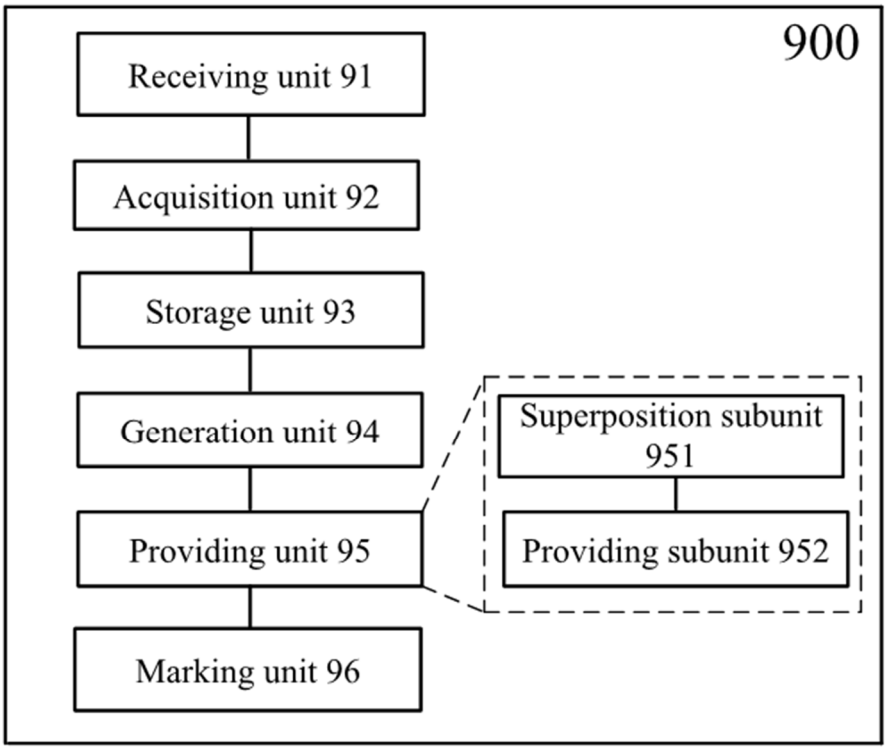
900
Receiving unit 91
Acquisition unit 92
Storage unit 93
Generation unit 94
Providing unit 95
Marking unit 96
Superposition subunit 951
Providing subunit 952

FIG. 9

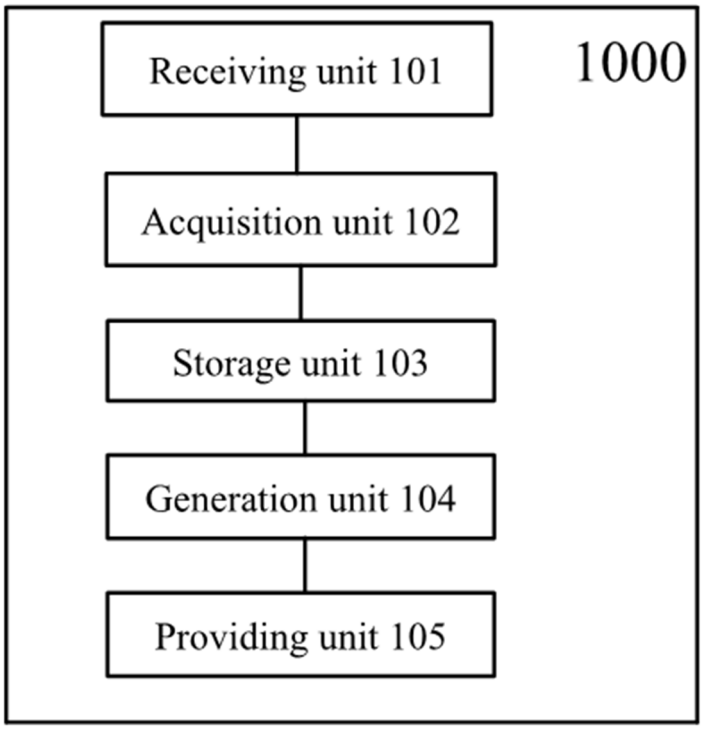
1000
Receiving unit 101
Acquisition unit 102
Storage unit 103
Generation unit 104
Providing unit 105

FIG. 10

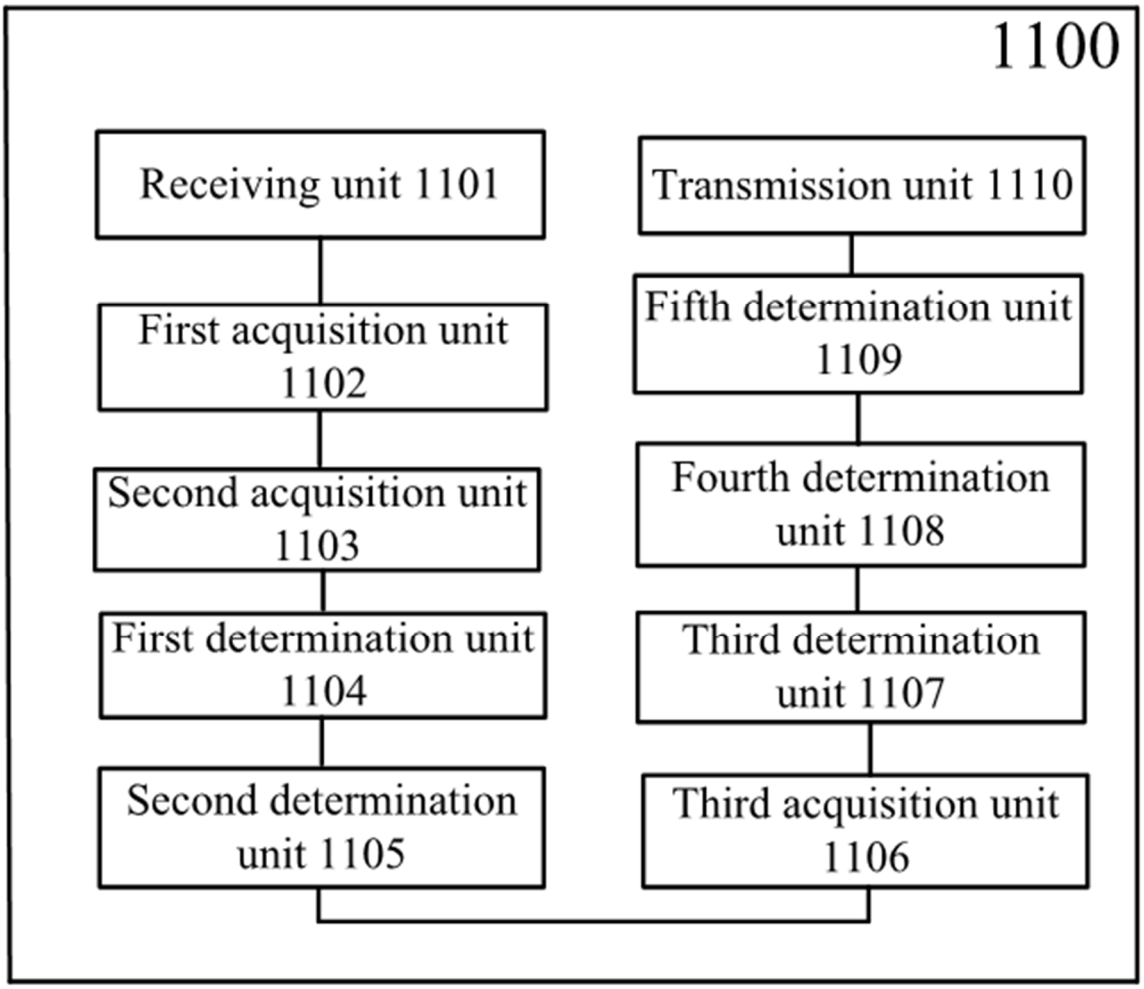
1100
Receiving unit 1101
First acquisition unit 1102
Second acquisition unit 1103
First determination unit 1104
Second determination unit 1105
Transmission unit 1110
Fifth determination unit 1109
Fourth determination unit 1108
Third determination unit 1107
Third acquisition unit 1106

FIG. 11

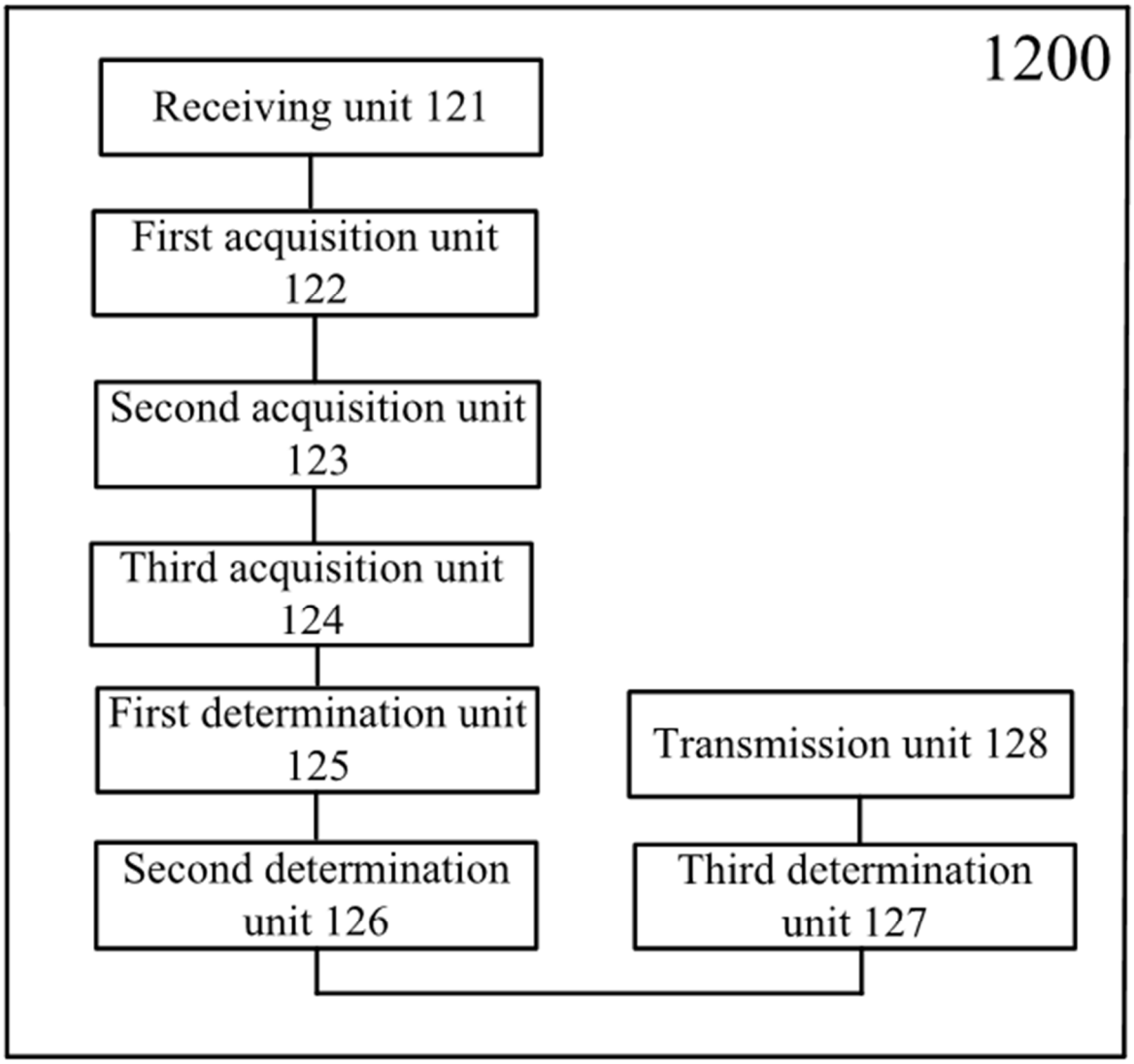
1200
Receiving unit 121
First acquisition unit 122
Second acquisition unit 123
Third acquisition unit 124
First determination unit 125
Second determination unit 126
Transmission unit 128
Third determination unit 127

FIG. 12