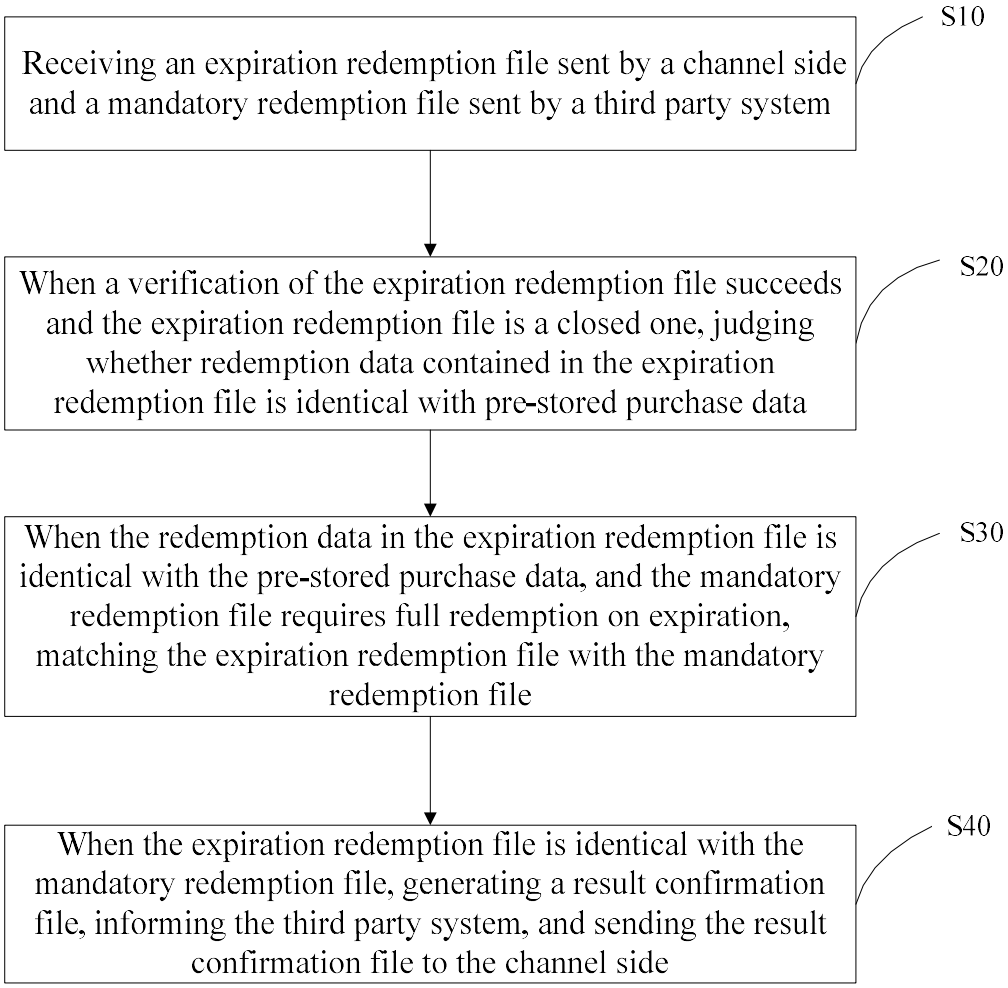

Receiving an expiration redemption file sent by a channel side and a mandatory redemption file sent by a third party system
S10
When a verification of the expiration redemption file succeeds and the expiration redemption file is a closed one, judging whether redemption data contained in the expiration redemption file is identical with pre-stored purchase data
S20
When the redemption data in the expiration redemption file is identical with the pre-stored purchase data, and the mandatory redemption file requires full redemption on expiration, matching the expiration redemption file with the mandatory redemption file
S30
When the expiration redemption file is identical with the mandatory redemption file, generating a result confirmation file, informing the third party system, and sending the result confirmation file to the channel side
S40

FIG. 1

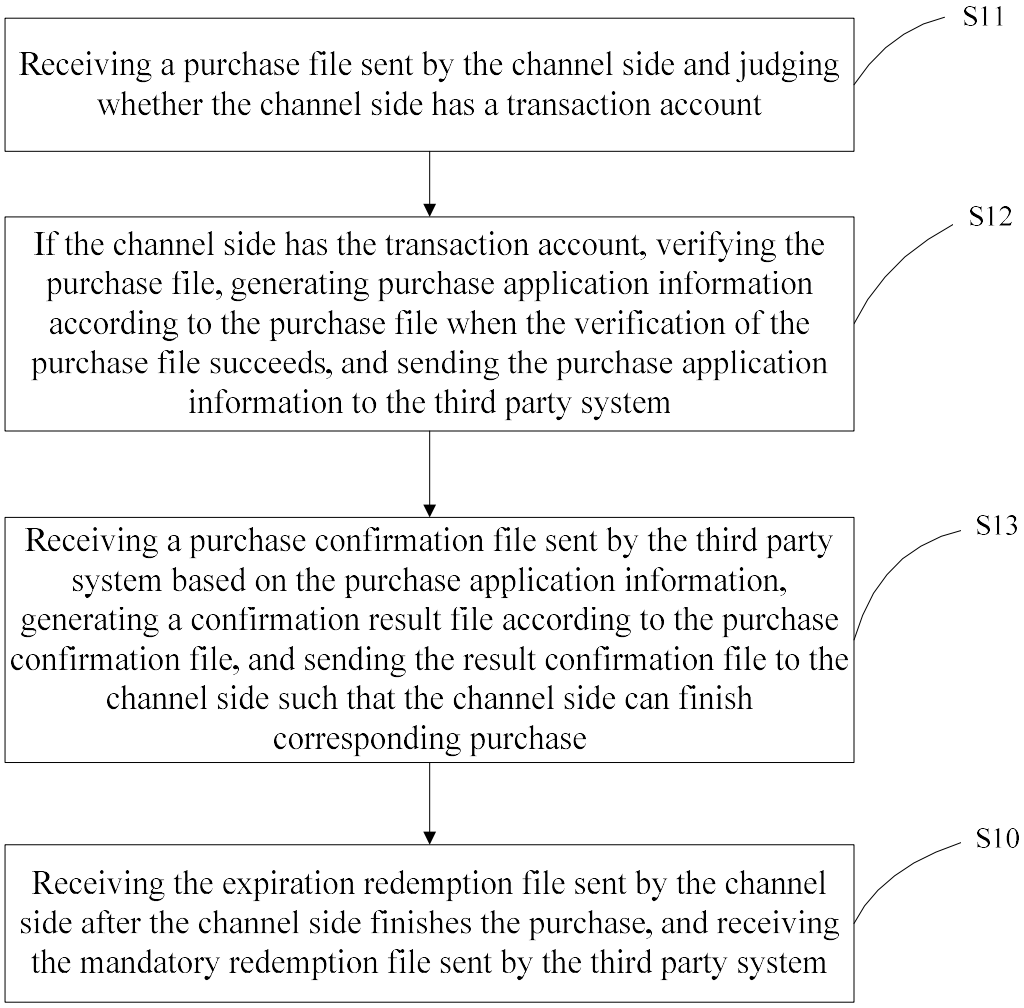

Receiving a purchase file sent by the channel side and judging whether the channel side has a transaction account
S11
If the channel side has the transaction account, verifying the purchase file, generating purchase application information according to the purchase file when the verification of the purchase file succeeds, and sending the purchase application information to the third party system
S12
Receiving a purchase confirmation file sent by the third party system based on the purchase application information, generating a confirmation result file according to the purchase confirmation file, and sending the result confirmation file to the channel side such that the channel side can finish corresponding purchase
S13
Receiving the expiration redemption file sent by the channel side after the channel side finishes the purchase, and receiving the mandatory redemption file sent by the third party system
S10

FIG. 2

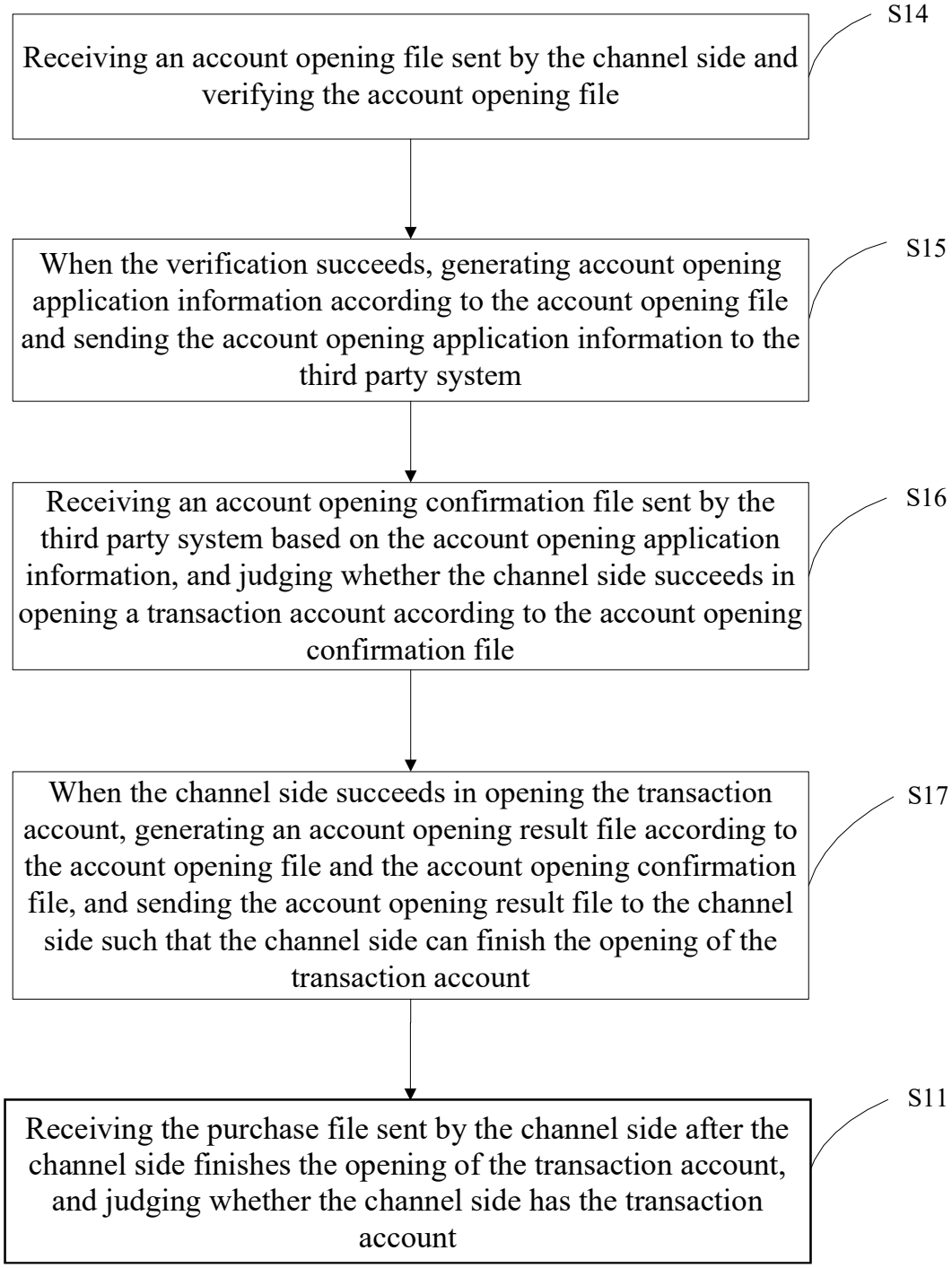

Receiving an account opening file sent by the channel side and verifying the account opening file
S14
When the verification succeeds, generating account opening application information according to the account opening file and sending the account opening application information to the third party system
S15
Receiving an account opening confirmation file sent by the third party system based on the account opening application information, and judging whether the channel side succeeds in opening a transaction account according to the account opening confirmation file
S16
When the channel side succeeds in opening the transaction account, generating an account opening result file according to the account opening file and the account opening confirmation file, and sending the account opening result file to the channel side such that the channel side can finish the opening of the transaction account
S17
Receiving the purchase file sent by the channel side after the channel side finishes the opening of the transaction account, and judging whether the channel side has the transaction account
S11

FIG. 3

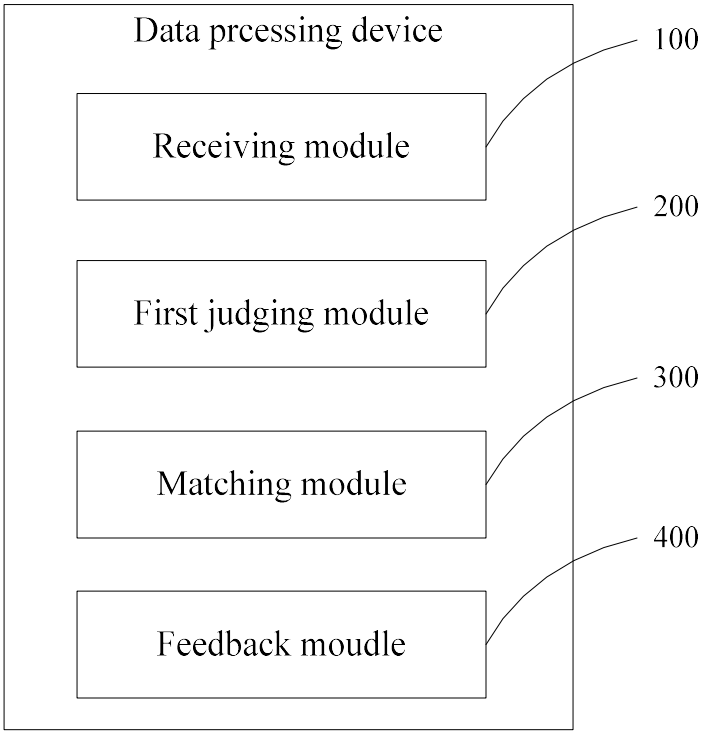

Data prcessing device
Receiving module
First judging module
Matching module
Feedback moudle
100
200
300
400

FIG. 4

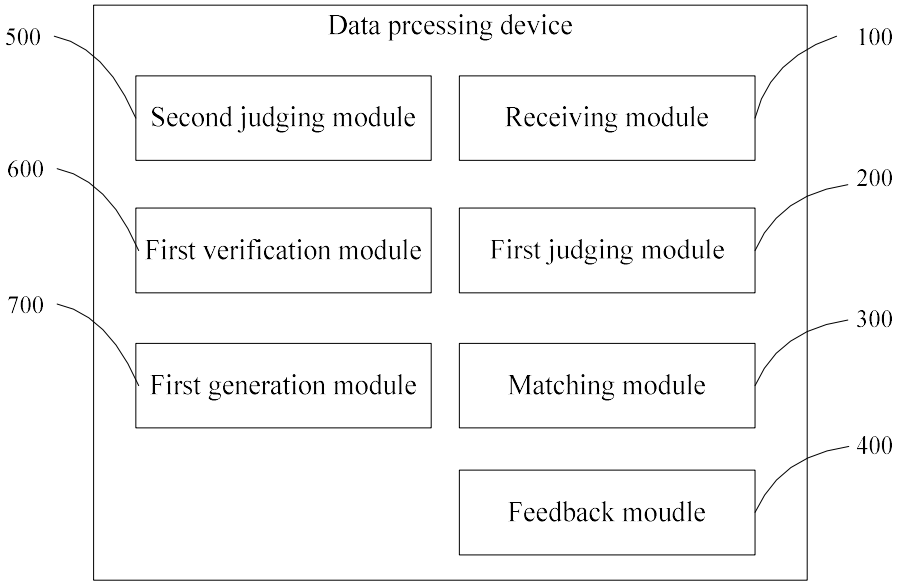

Data prcessing device
Second judging module
Receiving module
First verification module
First judging module
First generation module
Matching module
Feedback moudle
500
100
600
200
700
300
400

FIG. 5

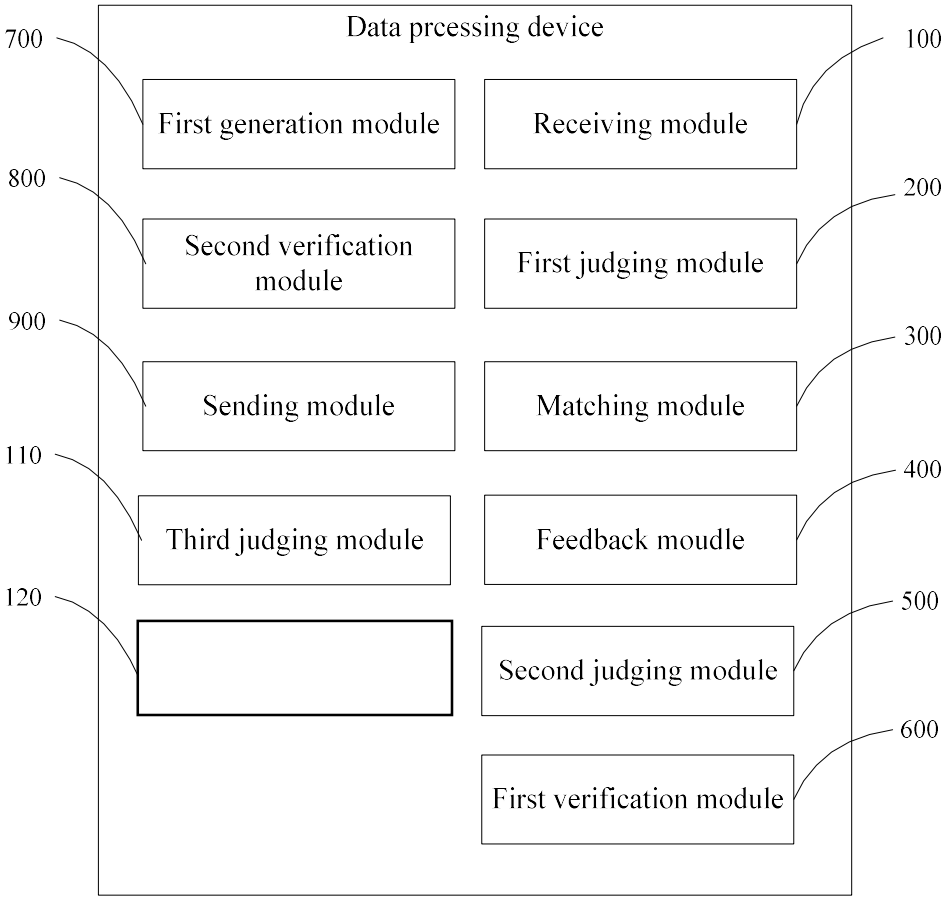

Data prcessing device
700
First generation module
100
Receiving module
800
Second verification module
200
First judging module
900
Sending module
300
Matching module
110
Third judging module
400
Feedback moudle
120
500
Second judging module
600
First verification module

FIG. 6

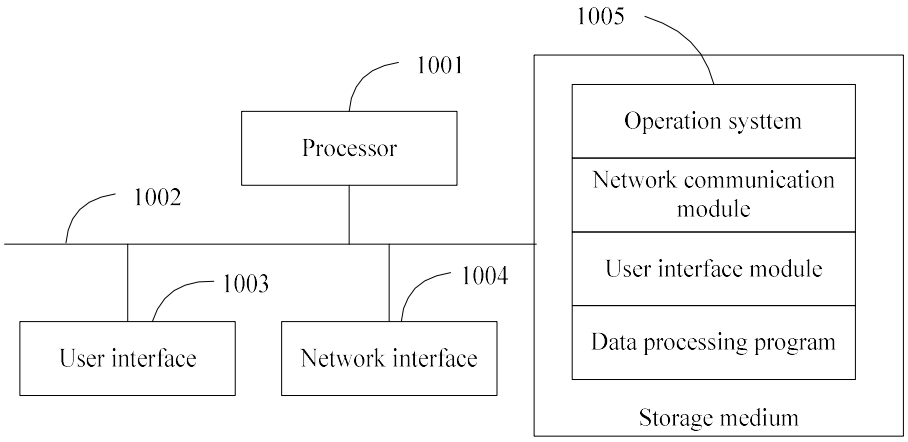

1005
1001
Processor
Operation systtem
Network communication module
1002
User interface module
1003
1004
Data processing program
User interface
Network interface
Storage medium

FIG. 7