FIGURES

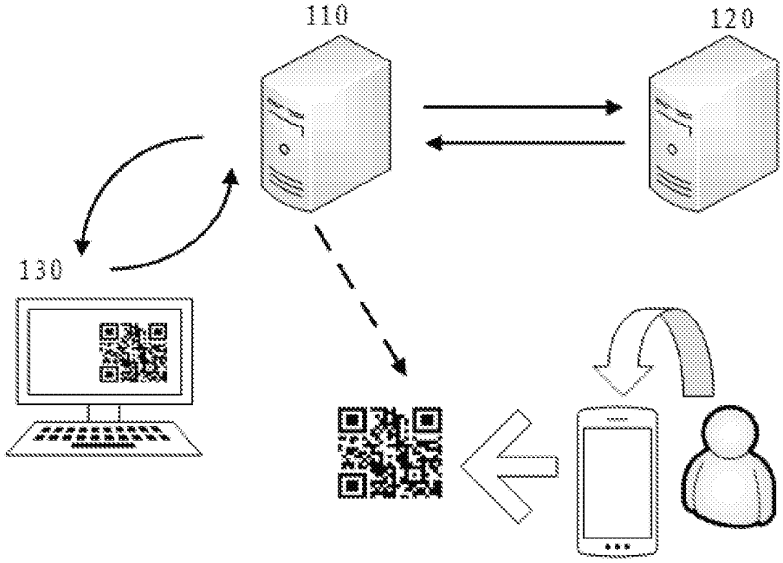


FIG. 1

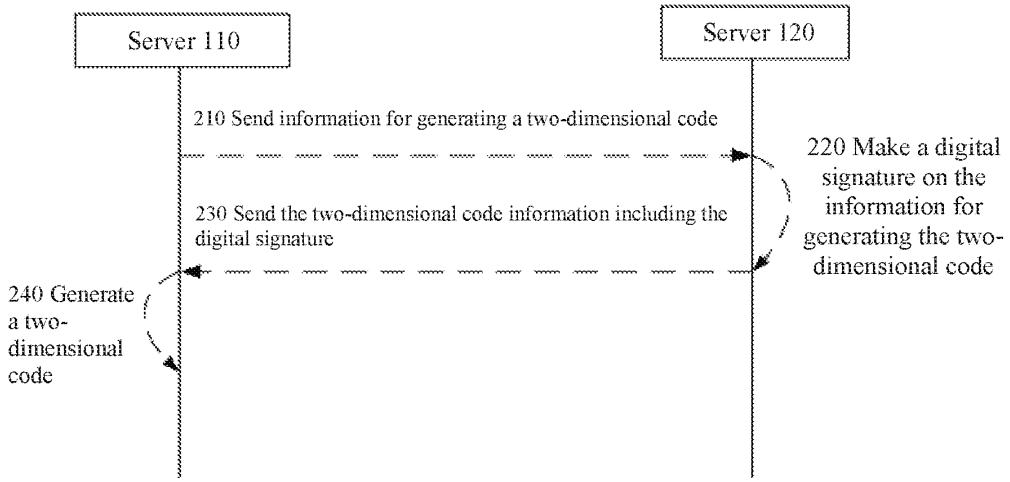


FIG. 2

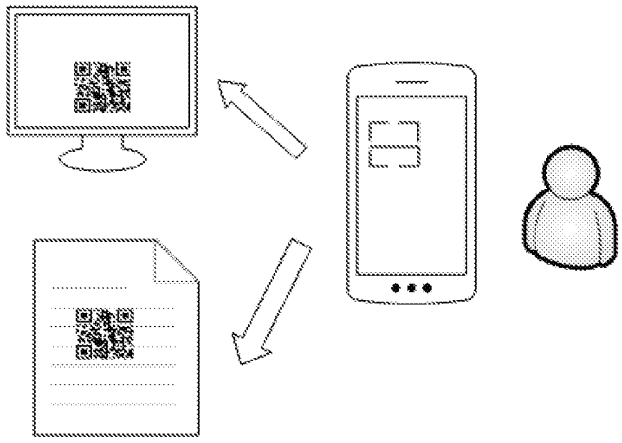


FIG. 3

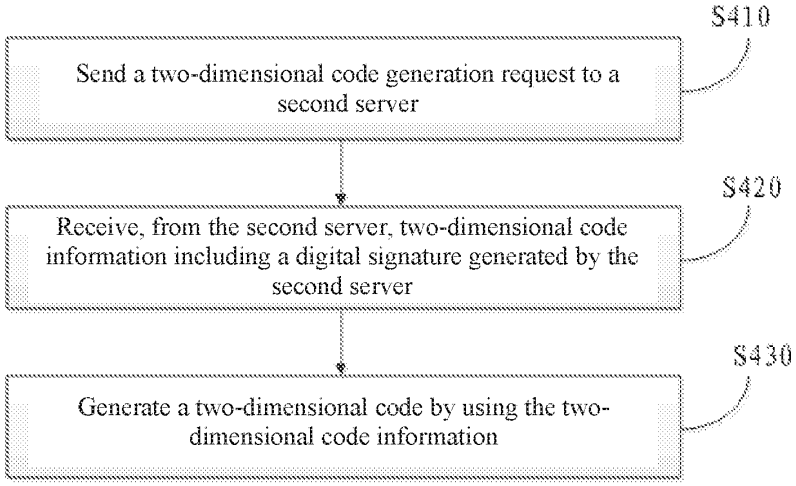

S410
Send a two-dimensional code generation request to a second server
S420
Receive, from the second server, two-dimensional code information including a digital signature generated by the second server
S430
Generate a two-dimensional code by using the two-dimensional code information

FIG. 4

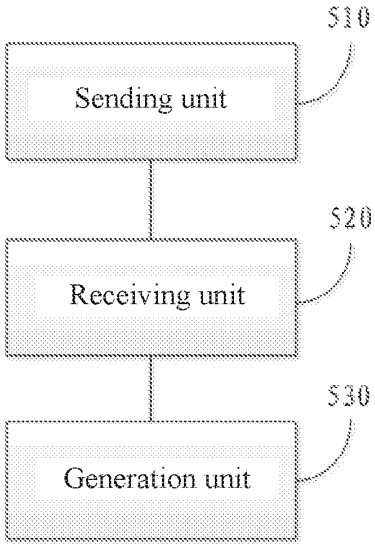

S10
Sending unit
S20
Receiving unit
S30
Generation unit

FIG. 5

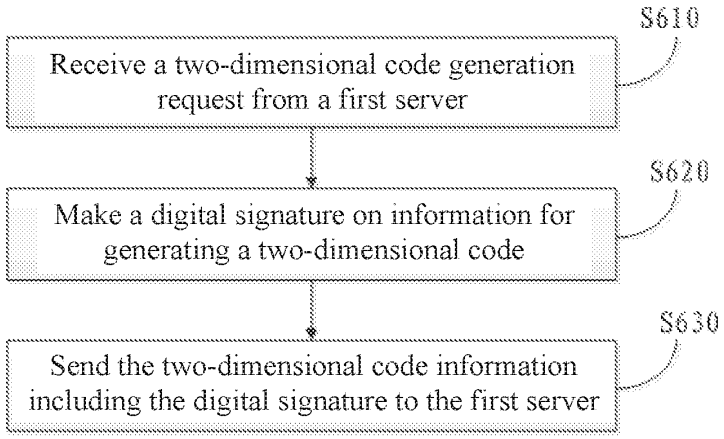

S610
Receive a two-dimensional code generation request from a first server
S620
Make a digital signature on information for generating a two-dimensional code
S630
Send the two-dimensional code information including the digital signature to the first server

FIG. 6

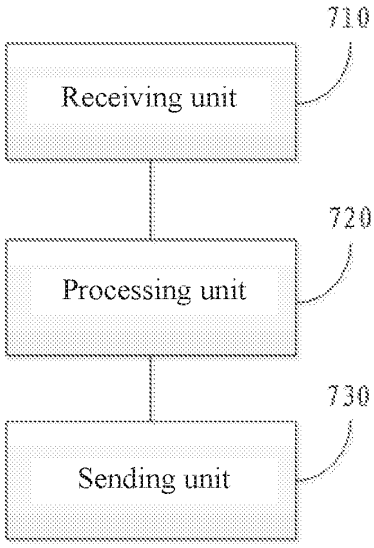

710
Receiving unit
720
Processing unit
730
Sending unit

FIG. 7

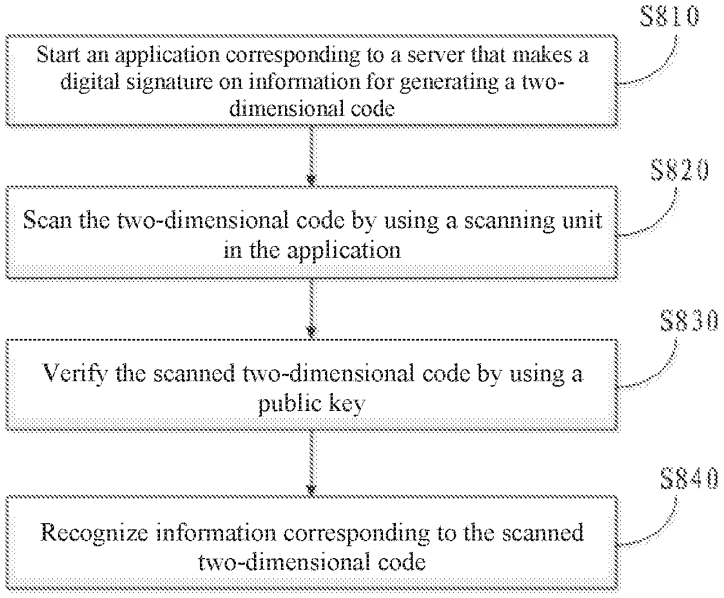

S810
Start an application corresponding to a server that makes a digital signature on information for generating a two-dimensional code
S820
Scan the two-dimensional code by using a scanning unit in the application
S830
Verify the scanned two-dimensional code by using a public key
S840
Recognize information corresponding to the scanned two-dimensional code

FIG. 8

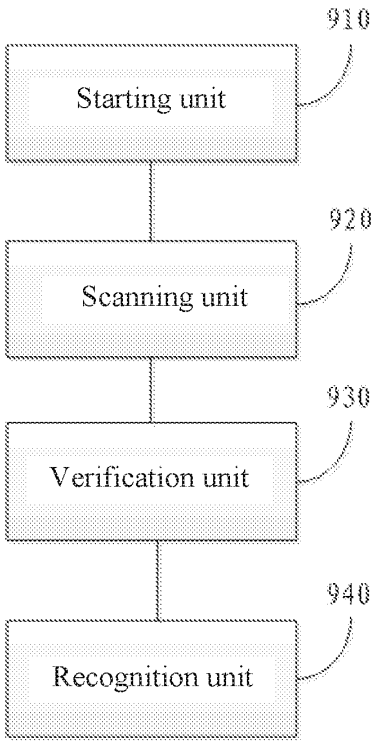

910
Starting unit
920
Scanning unit
930
Verification unit
940
Recognition unit

FIG. 9

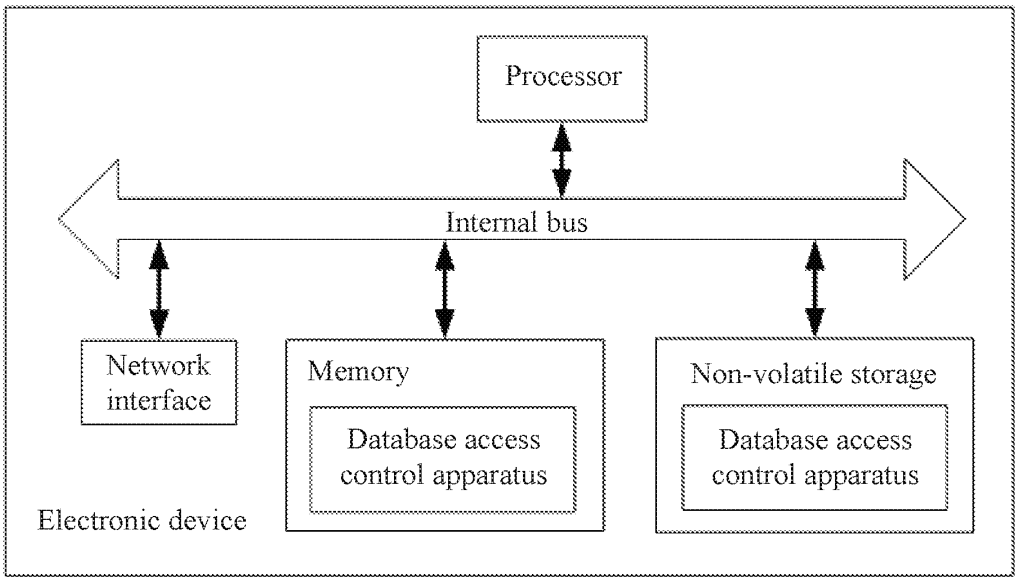

Processor
Internal bus
Network interface
Memory
Database access control apparatus
Non-volatile storage
Database access control apparatus
Electronic device

FIG. 10

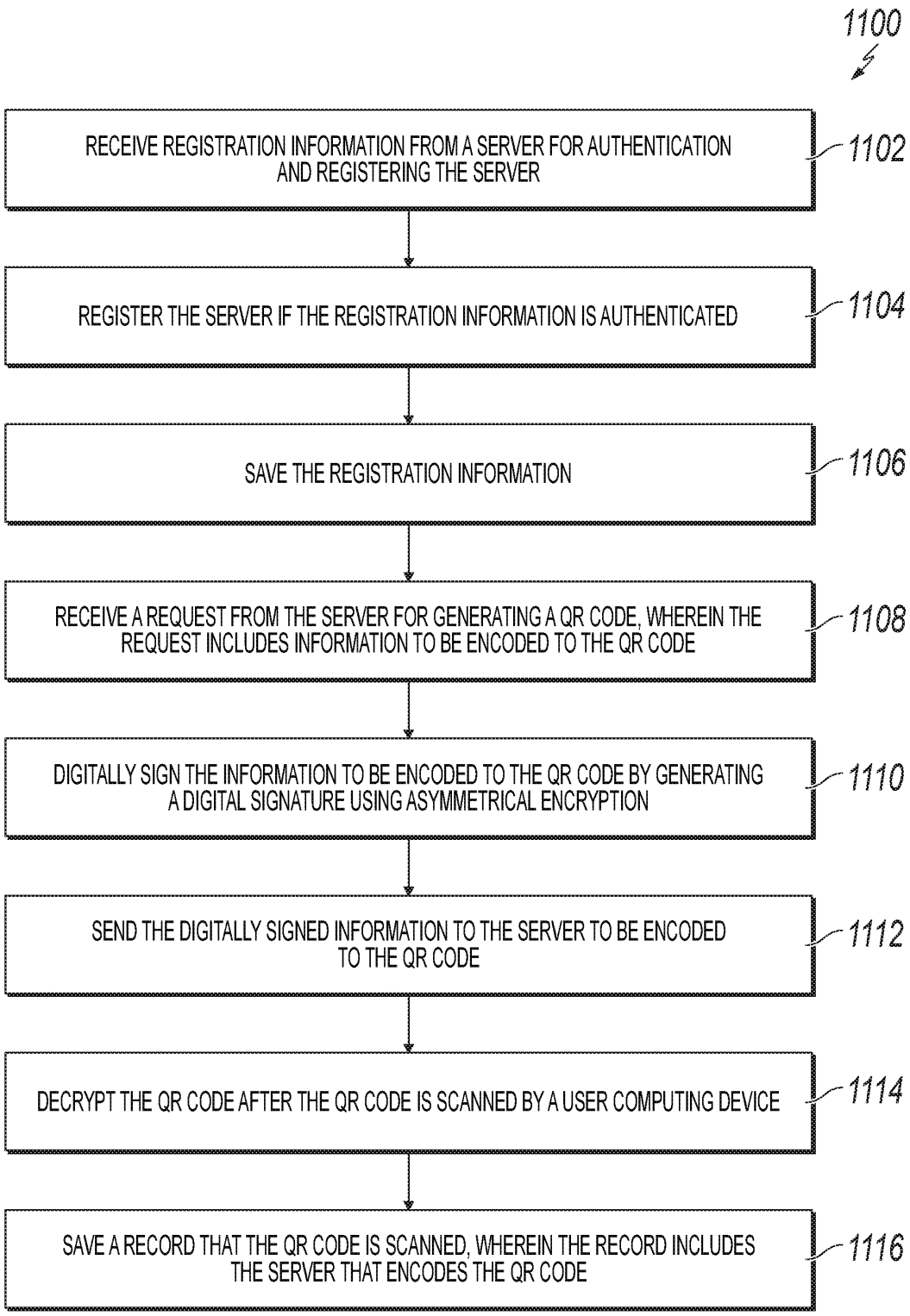

1100
RECEIVE REGISTRATION INFORMATION FROM A SERVER FOR AUTHENTICATION AND REGISTERING THE SERVER
1102
REGISTER THE SERVER IF THE REGISTRATION INFORMATION IS AUTHENTICATED
1104
SAVE THE REGISTRATION INFORMATION
1106
RECEIVE A REQUEST FROM THE SERVER FOR GENERATING A QR CODE, WHEREIN THE REQUEST INCLUDES INFORMATION TO BE ENCODED TO THE QR CODE
1108
DIGITALLY SIGN THE INFORMATION TO BE ENCODED TO THE QR CODE BY GENERATING A DIGITAL SIGNATURE USING ASYMMETRICAL ENCRYPTION
1110
SEND THE DIGITALLY SIGNED INFORMATION TO THE SERVER TO BE ENCODED TO THE QR CODE
1112
DECRYPT THE QR CODE AFTER THE QR CODE IS SCANNED BY A USER COMPUTING DEVICE
1114
SAVE A RECORD THAT THE QR CODE IS SCANNED, WHEREIN THE RECORD INCLUDES THE SERVER THAT ENCODES THE QR CODE
1116

FIG. 11