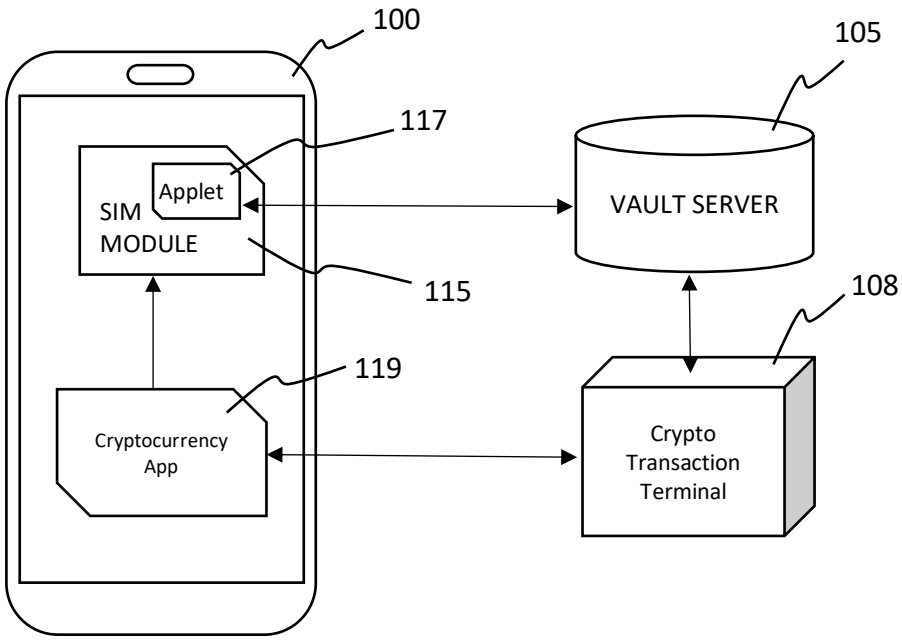
100
105
117
Applet
SIM
MODULE
VAULT SERVER
115
108
119
Cryptocurrency
App
Crypto
Transaction
Terminal

FIG. 1

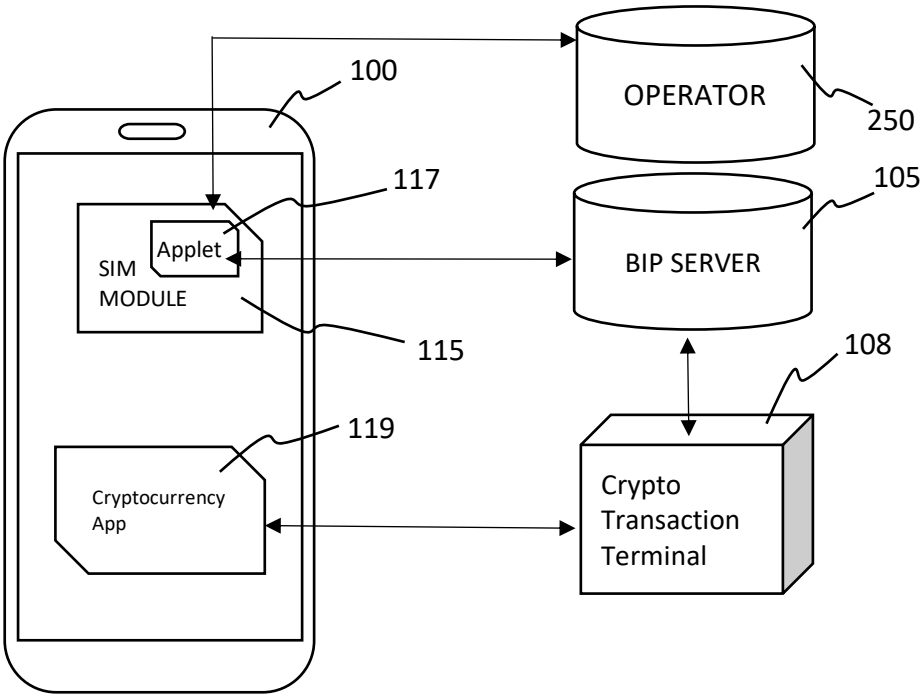
100
OPERATOR
250
117
105
Applet
SIM
MODULE
BIP SERVER
115
108
119
Cryptocurrency
App
Crypto
Transaction
Terminal

FIG. 2

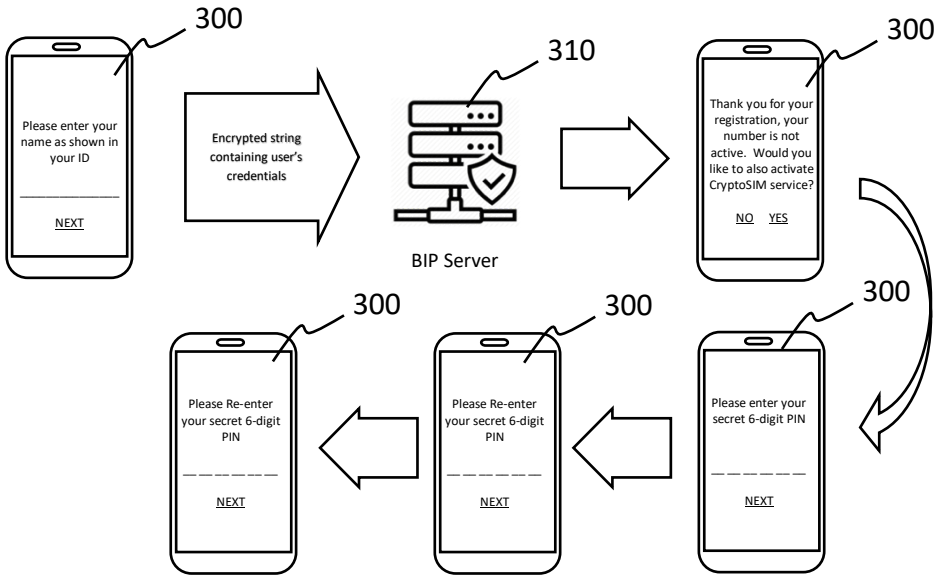
300
Please enter your name as shown in your ID
NEXT
Encrypted string containing user's credentials
310
BIP Server
300
Thank you for your registration, your number is not active. Would you like to also activate CryptoSIM service?
NO YES
300
Please enter your secret 6-digit PIN
NEXT
300
Please Re-enter your secret 6-digit PIN
NEXT
300
Please Re-enter your secret 6-digit PIN
NEXT

FIG. 3A

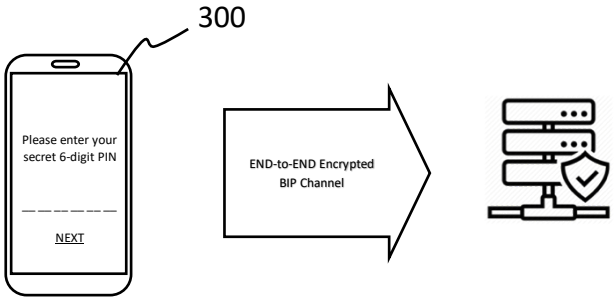
300
Please enter your secret 6-digit PIN
NEXT
END-to-END Encrypted BIP Channel

FIG. 3B

MyWALLET
Email:
Password:
Retype Password:
REGISTER
MyWALLET
We have sent a verification like to your email. Please open your email and click the link before continuing.
CONTINUE
MyWALLET
Enter Your PIN:
CONTINUE

FIG. 3C

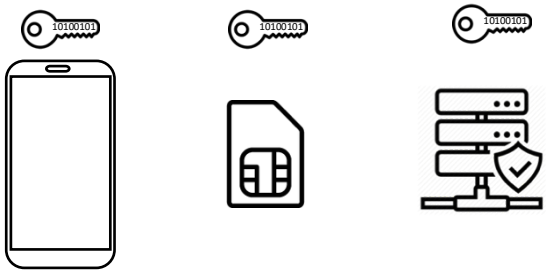
10100101
10100101
10100101

FIG. 4

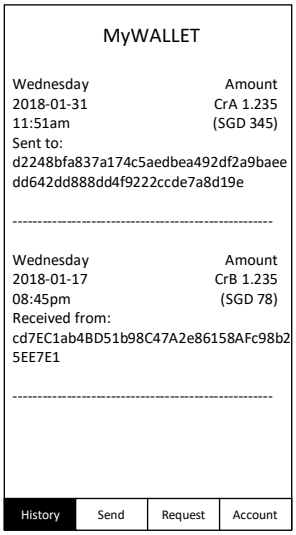

FIG. 5A

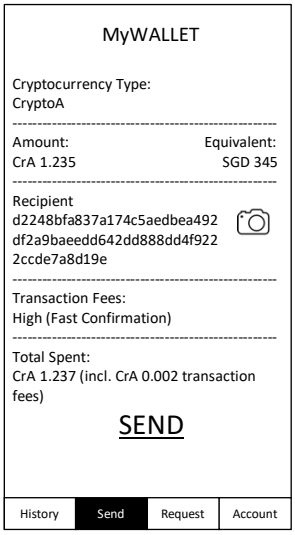

FIG. 5B

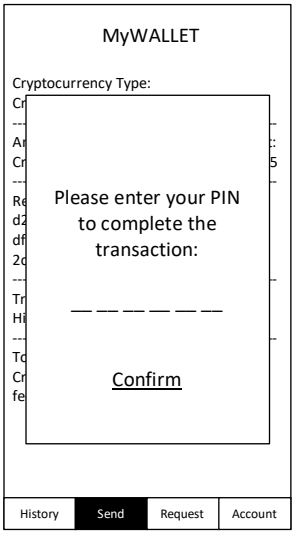

FIG. 5C

FIG. 5D

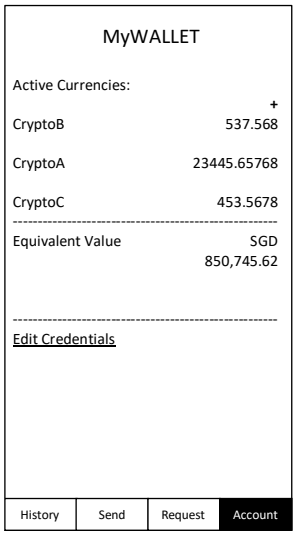

FIG. 5E

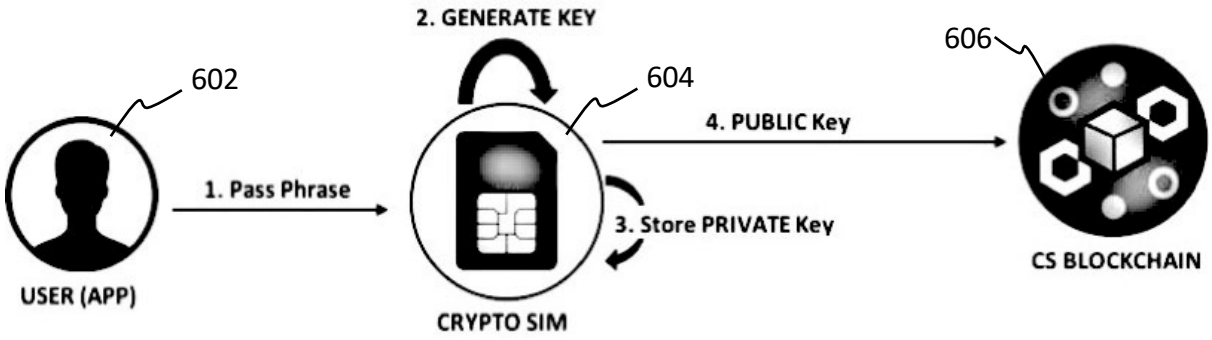
2. GENERATE KEY
606
602
604
4. PUBLIC Key
1. Pass Phrase
3. Store PRIVATE Key
CS BLOCKCHAIN
USER (APP)
CRYPTO SIM

FIG. 6A

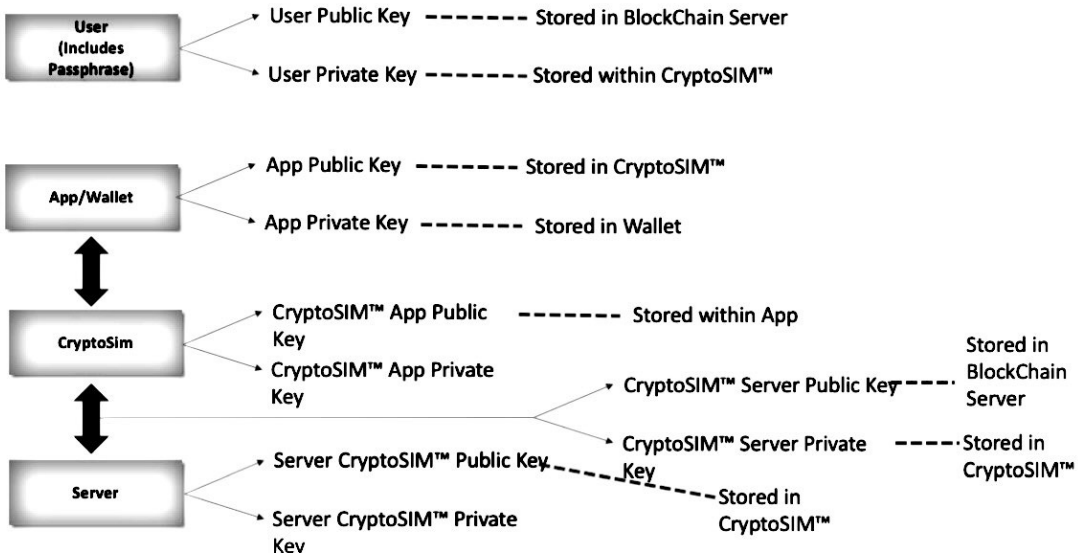
User (Includes Passphrase)
User Public Key
Stored in BlockChain Server
User Private Key
Stored within CryptoSIM™
App/Wallet
App Public Key
Stored in CryptoSIM™
App Private Key
Stored in Wallet
CryptoSim
CryptoSIM™ App Public Key
Stored within App
CryptoSIM™ App Private Key
CryptoSIM™ Server Public Key
Stored in BlockChain Server
CryptoSIM™ Server Private Key
Stored in CryptoSIM™
Server
Server CryptoSIM™ Public Key
Stored in CryptoSIM™
Server CryptoSIM™ Private Key

FIG. 6B

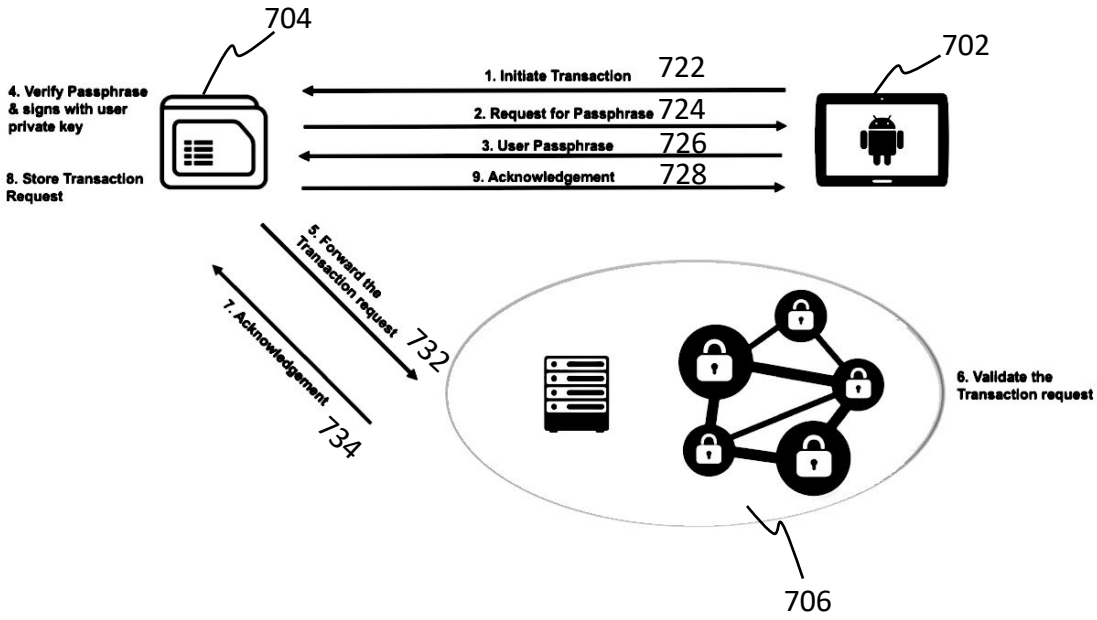
704
702
1. Initiate Transaction
722
2. Request for Passphrase
724
3. User Passphrase
726
9. Acknowledgement
728
4. Verify Passphrase & signs with user private key
8. Store Transaction Request
5. Forward the Transaction request
732
7. Acknowledgement
734
6. Validate the Transaction request
706

FIG. 7