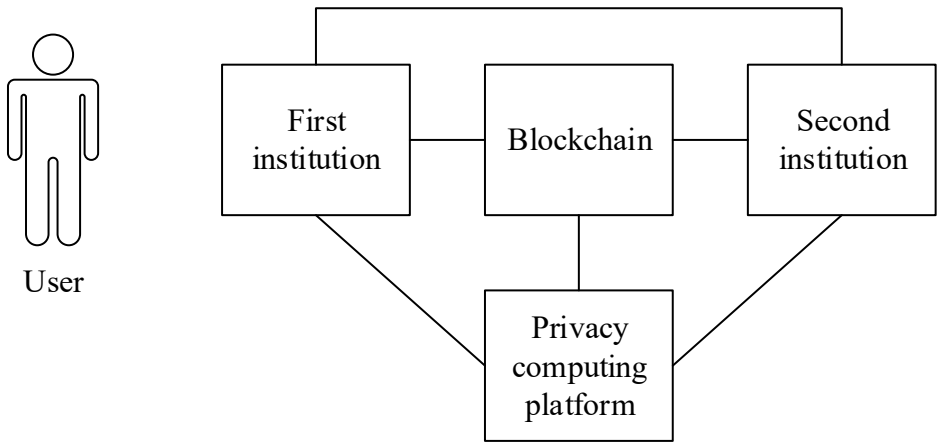
User
First institution
Blockchain
Second institution
Privacy computing platform

FIG. 1

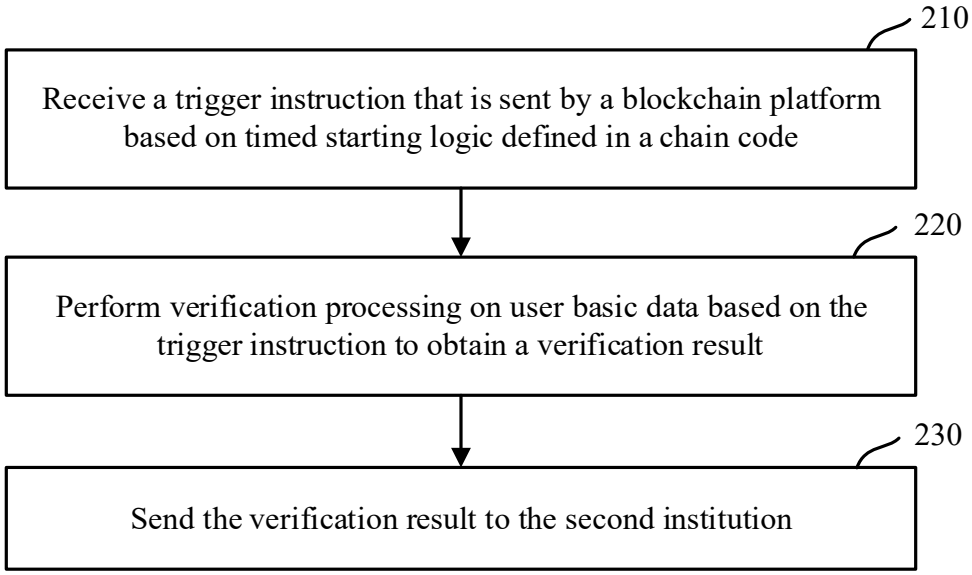
210
Receive a trigger instruction that is sent by a blockchain platform based on timed starting logic defined in a chain code
220
Perform verification processing on user basic data based on the trigger instruction to obtain a verification result
230
Send the verification result to the second institution

FIG. 2

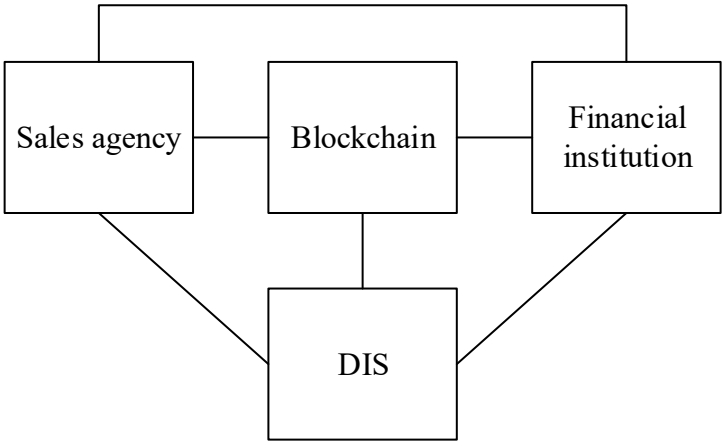
Sales agency
Blockchain
Financial institution
DIS

FIG. 3

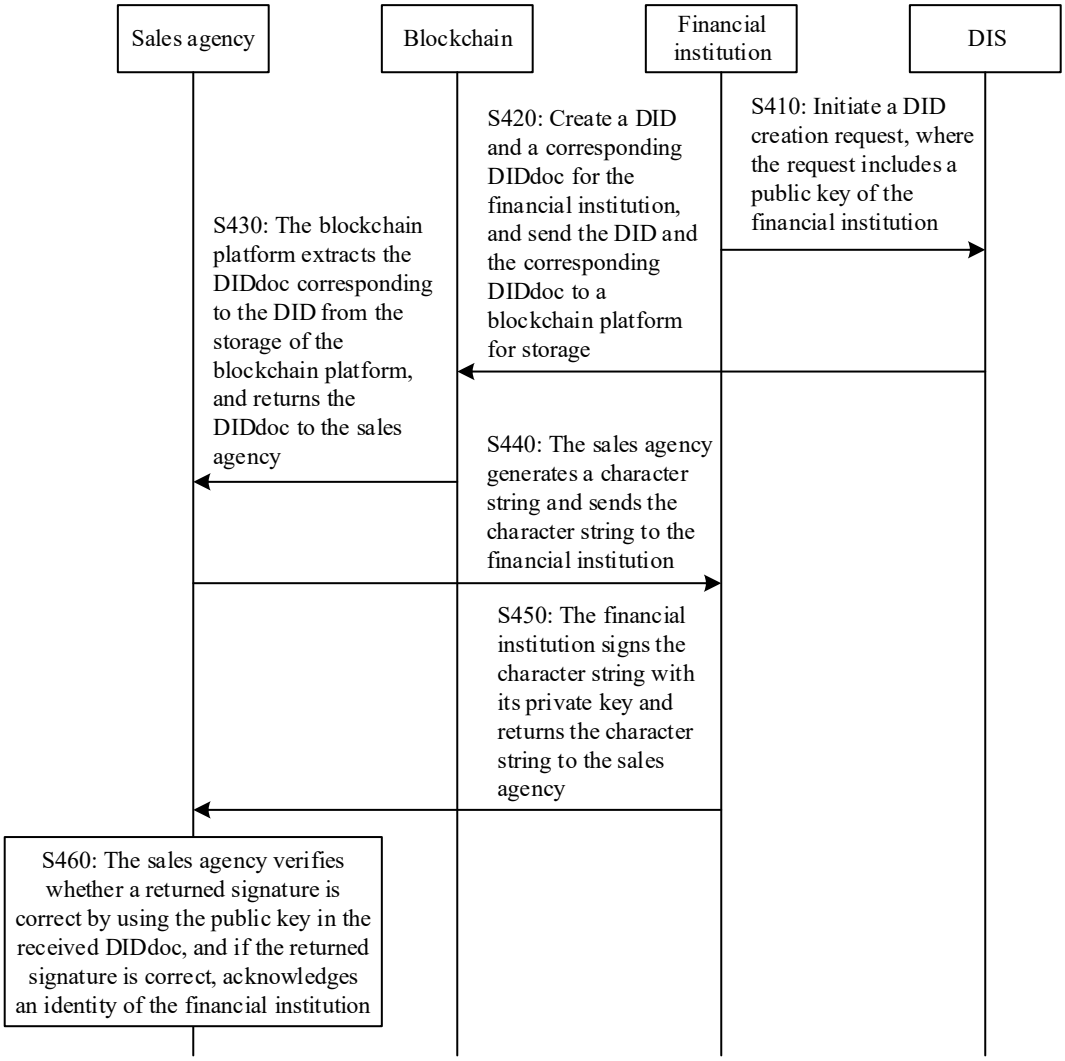
Sales agency
Blockchain
Financial institution
DIS
S410: Initiate a DID creation request, where the request includes a public key of the financial institution
S420: Create a DID and a corresponding DIDdoc for the financial institution, and send the DID and the corresponding DIDdoc to a blockchain platform for storage
S430: The blockchain platform extracts the DIDdoc corresponding to the DID from the storage of the blockchain platform, and returns the DIDdoc to the sales agency
S440: The sales agency generates a character string and sends the character string to the financial institution
S450: The financial institution signs the character string with its private key and returns the character string to the sales agency
S460: The sales agency verifies whether a returned signature is correct by using the public key in the received DIDdoc, and if the returned signature is correct, acknowledges an identity of the financial institution

FIG. 4

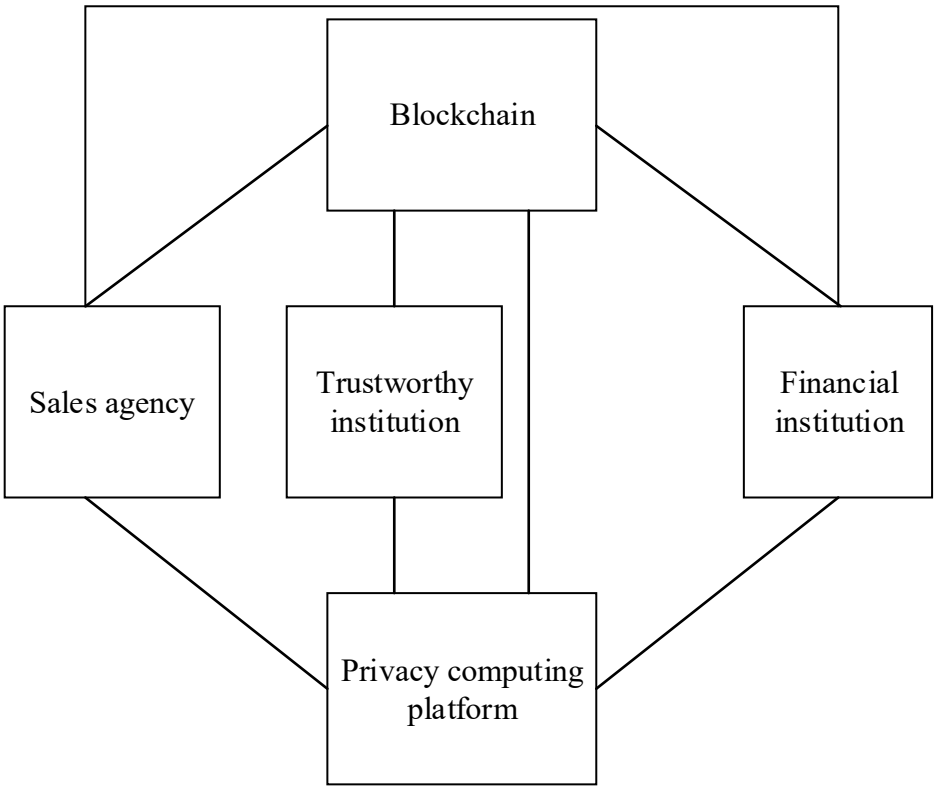
Blockchain
Sales agency
Trustworthy institution
Financial institution
Privacy computing platform

FIG. 5

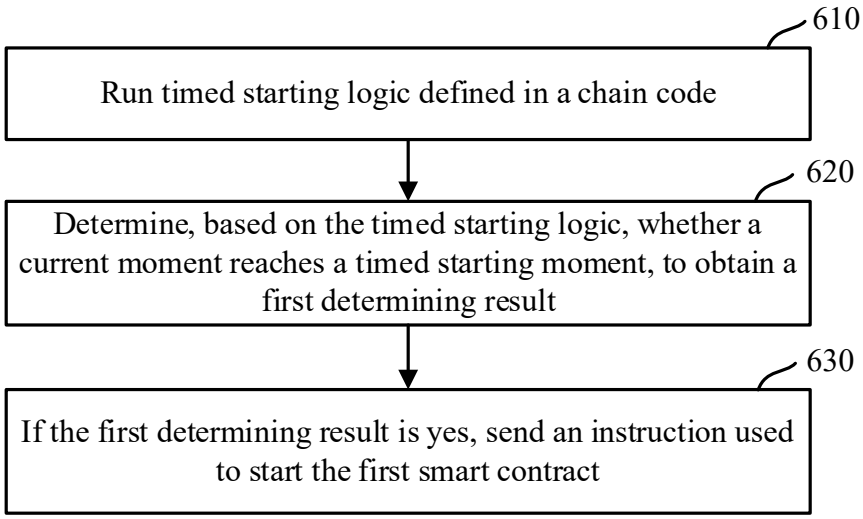
610
Run timed starting logic defined in a chain code
620
Determine, based on the timed starting logic, whether a current moment reaches a timed starting moment, to obtain a first determining result
630
If the first determining result is yes, send an instruction used to start the first smart contract

FIG. 6

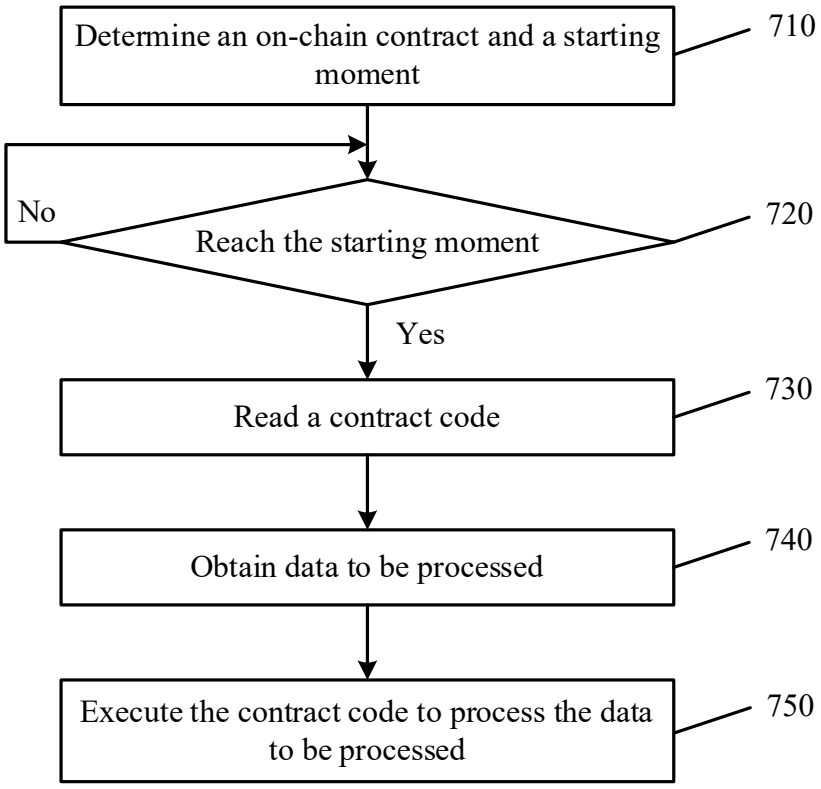
Determine an on-chain contract and a starting moment
710
No
Reach the starting moment
720
Yes
Read a contract code
730
Obtain data to be processed
740
Execute the contract code to process the data to be processed
750

FIG. 7

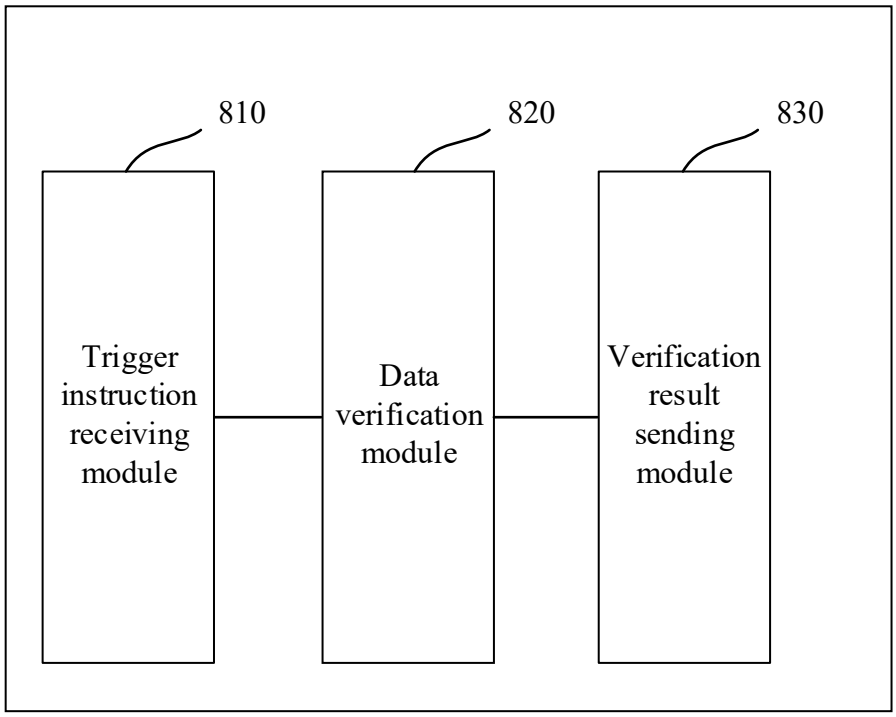
810
820
830
Trigger instruction receiving module
Data verification module
Verification result sending module

FIG. 8

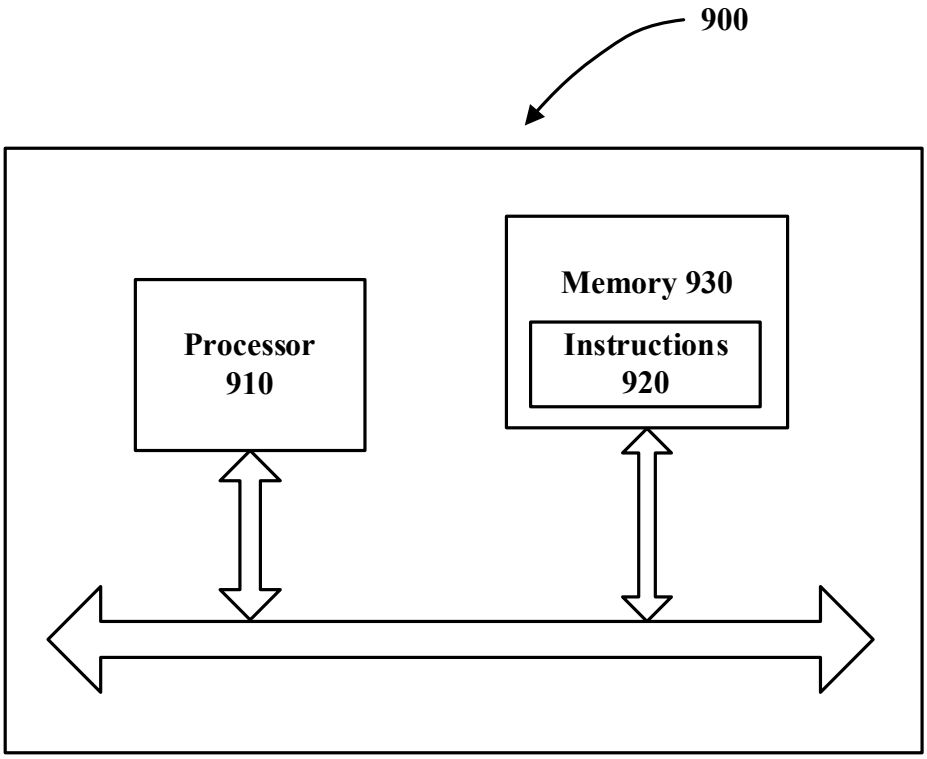
900
Memory 930
Instructions 920
Processor 910

FIG. 9