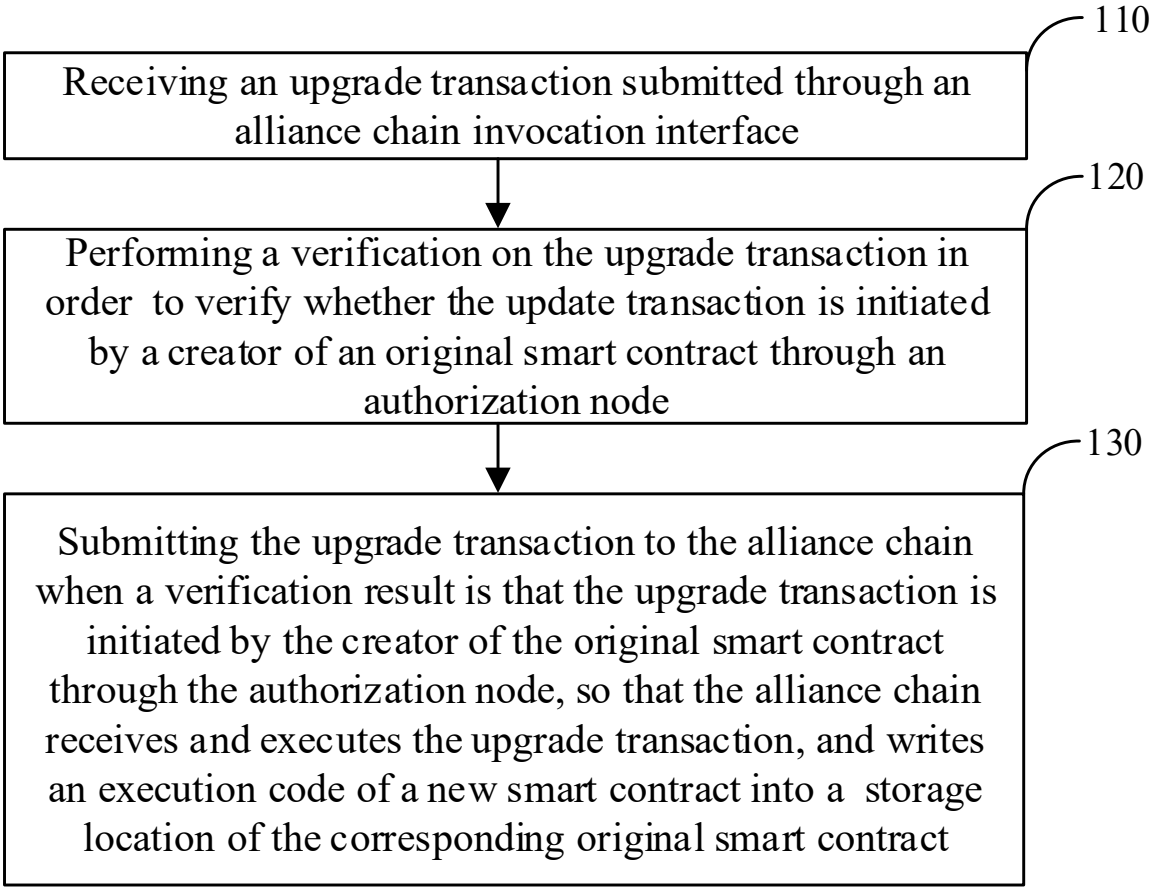

110
Receiving an upgrade transaction submitted through an alliance chain invocation interface
120
Performing a verification on the upgrade transaction in order to verify whether the update transaction is initiated by a creator of an original smart contract through an authorization node
130
Submitting the upgrade transaction to the alliance chain when a verification result is that the upgrade transaction is initiated by the creator of the original smart contract through the authorization node, so that the alliance chain receives and executes the upgrade transaction, and writes an execution code of a new smart contract into a storage location of the corresponding original smart contract

FIG. 1

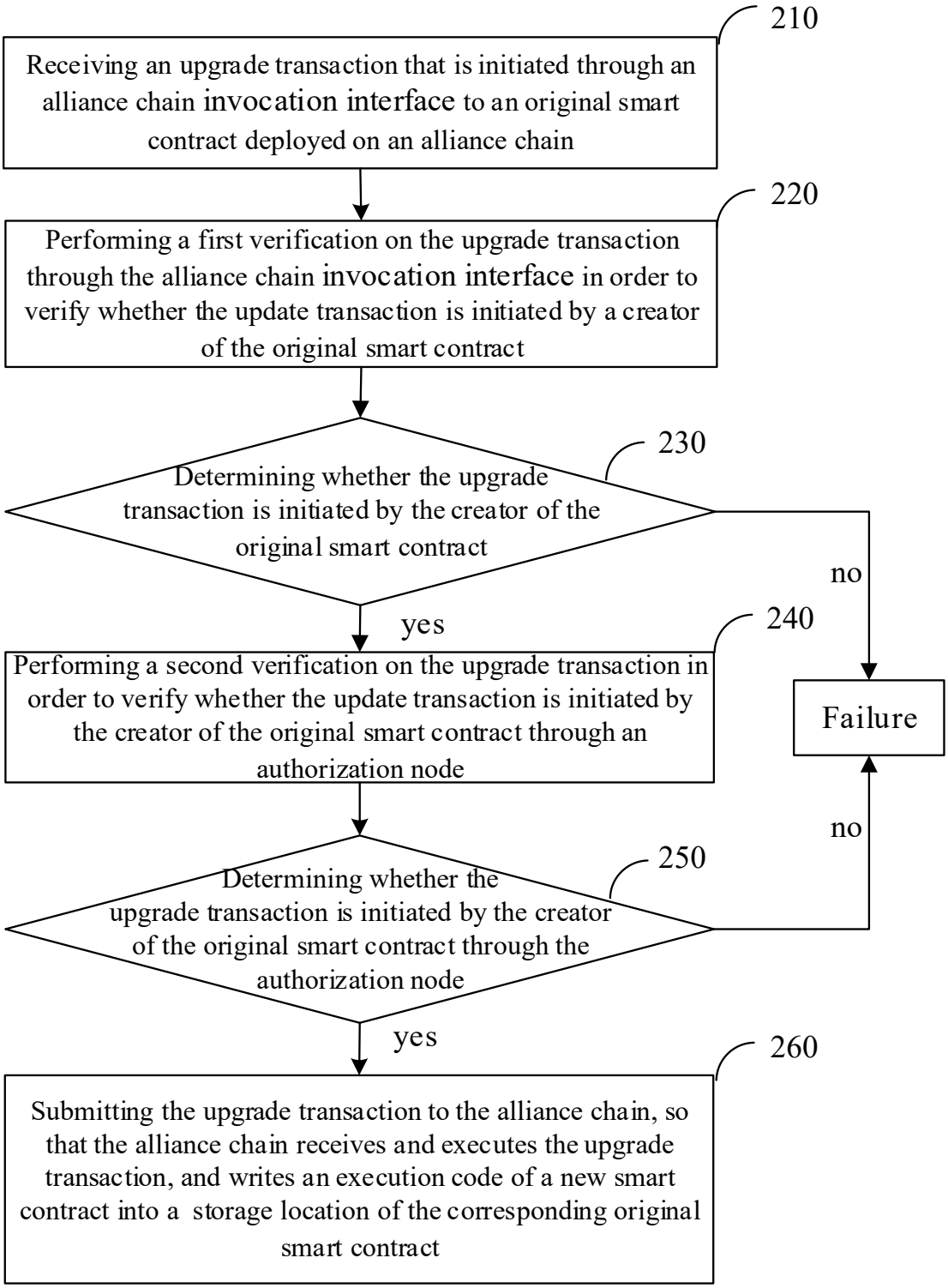

210
Receiving an upgrade transaction that is initiated through an alliance chain invocation interface to an original smart contract deployed on an alliance chain
220
Performing a first verification on the upgrade transaction through the alliance chain invocation interface in order to verify whether the update transaction is initiated by a creator of the original smart contract
230
Determining whether the upgrade transaction is initiated by the creator of the original smart contract
no
yes
240
Performing a second verification on the upgrade transaction in order to verify whether the update transaction is initiated by the creator of the original smart contract through an authorization node
Failure
no
250
Determining whether the upgrade transaction is initiated by the creator of the original smart contract through the authorization node
yes
260
Submitting the upgrade transaction to the alliance chain, so that the alliance chain receives and executes the upgrade transaction, and writes an execution code of a new smart contract into a storage location of the corresponding original smart contract

FIG. 2

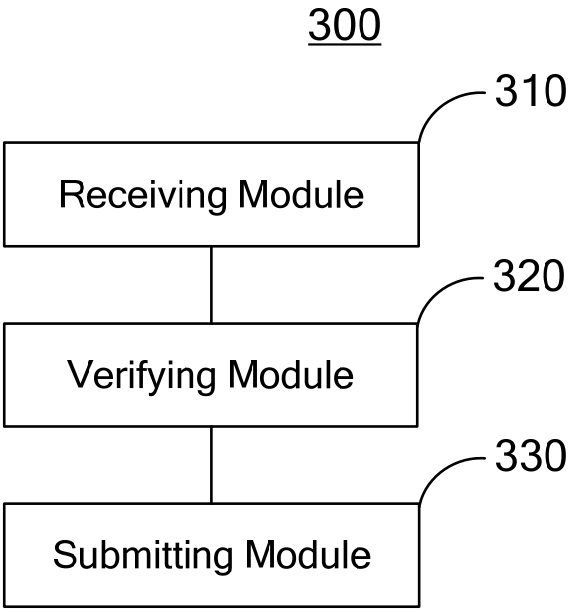

300
310
Receiving Module
320
Verifying Module
330
Submitting Module

FIG. 3

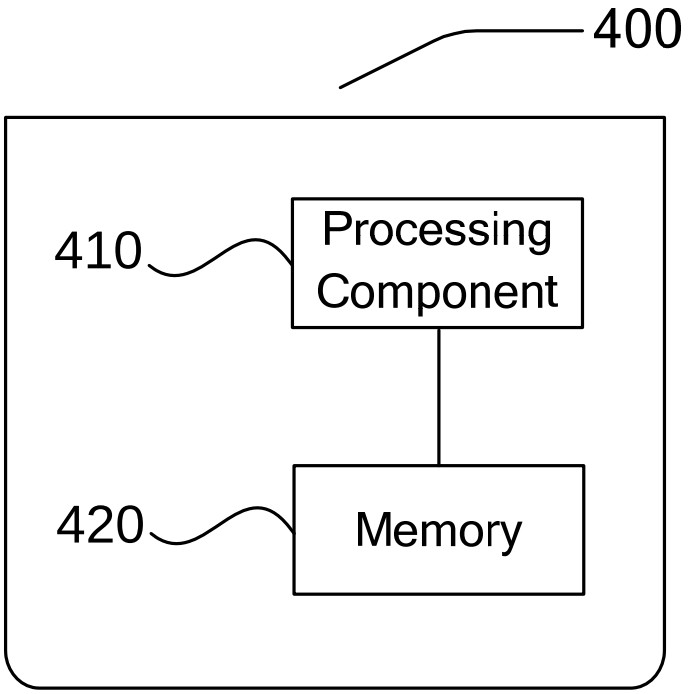

400
410
Processing Component
420
Memory

FIG. 4