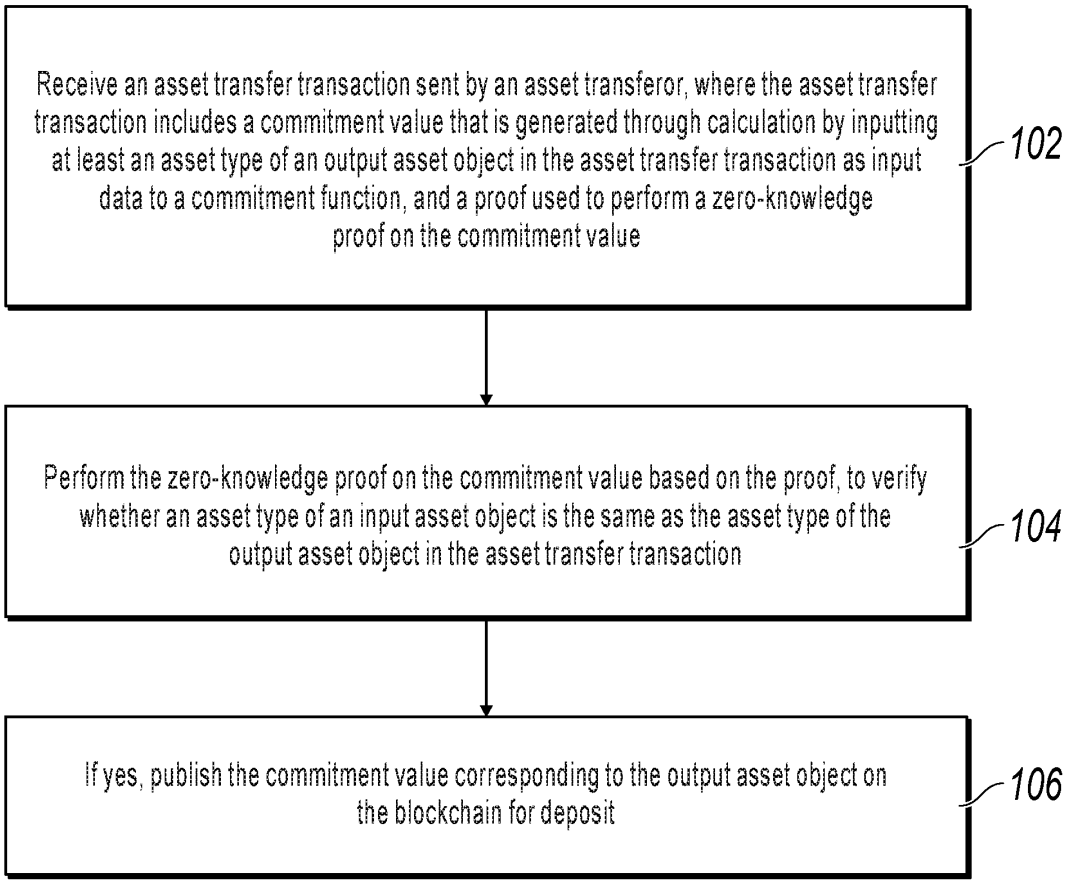

Receive an asset transfer transaction sent by an asset transferor, where the asset transfer transaction includes a commitment value that is generated through calculation by inputting at least an asset type of an output asset object in the asset transfer transaction as input data to a commitment function, and a proof used to perform a zero-knowledge proof on the commitment value
102
Perform the zero-knowledge proof on the commitment value based on the proof, to verify whether an asset type of an input asset object is the same as the asset type of the output asset object in the asset transfer transaction
104
If yes, publish the commitment value corresponding to the output asset object on the blockchain for deposit
106

FIG. 1

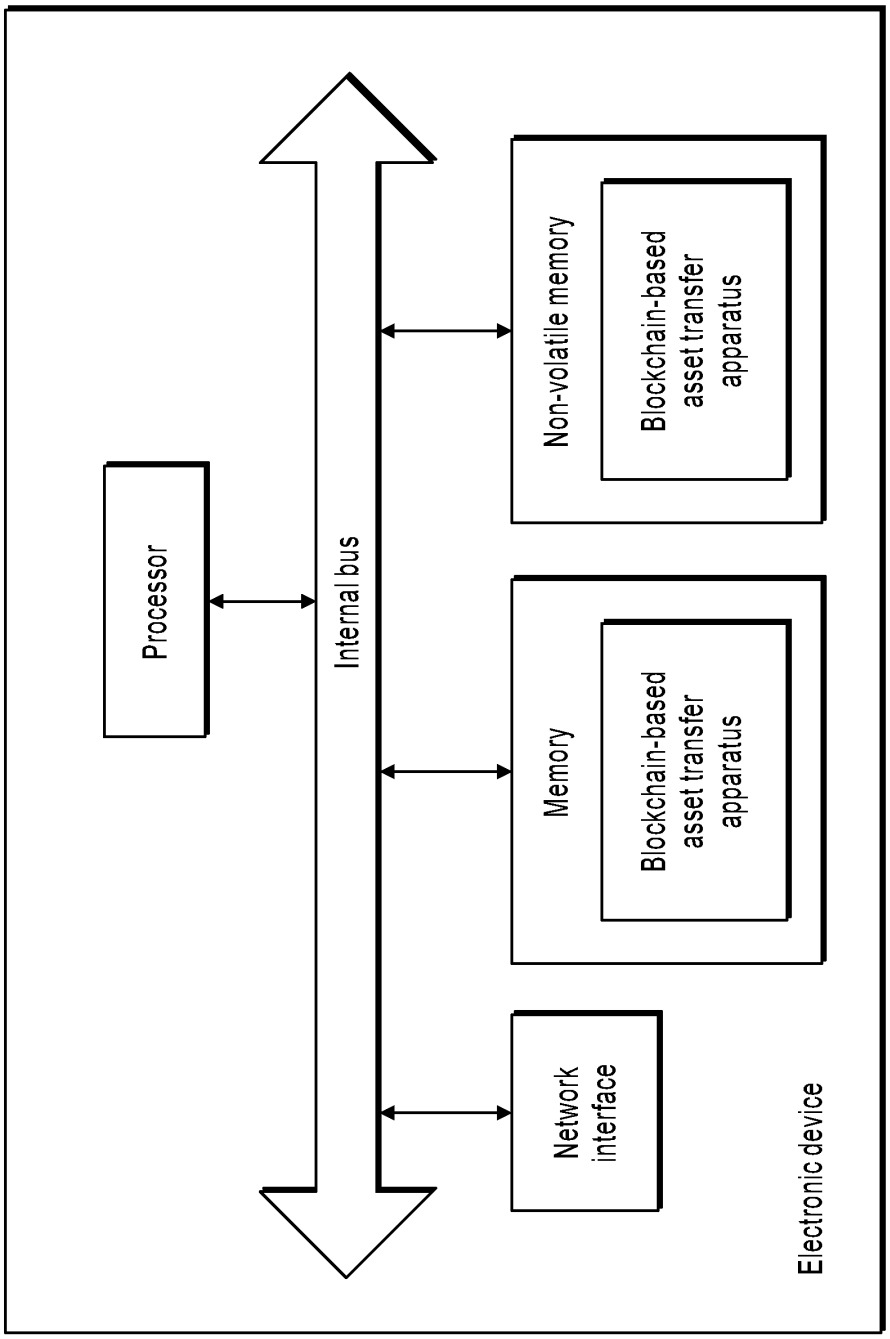

Processor
Internal bus
Non-volatile memory
Blockchain-based asset transfer apparatus
Memory
Blockchain-based asset transfer apparatus
Network interface
Electronic device

FIG. 2

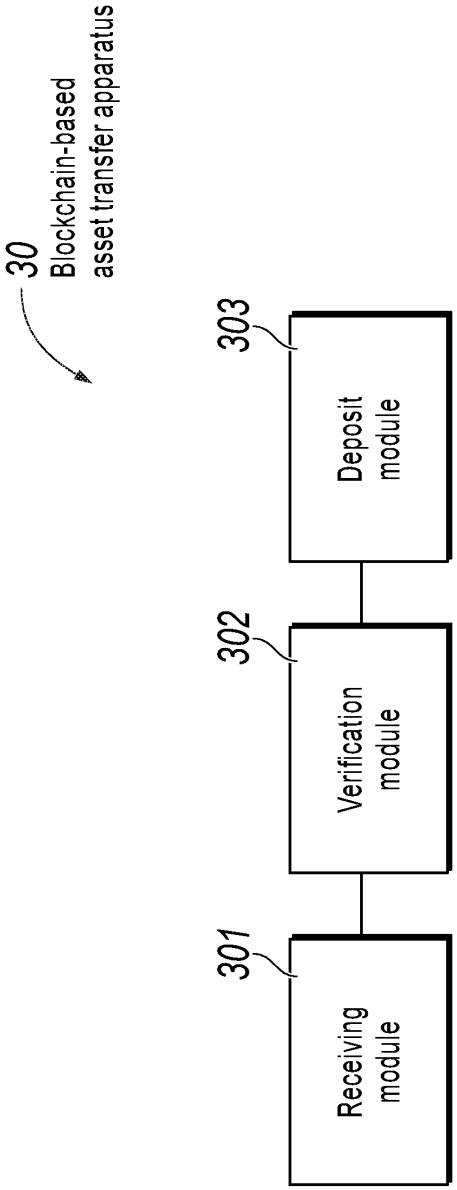

30
Blockchain-based asset transfer apparatus
303
Deposit module
302
Verification module
301
Receiving module

FIG. 3