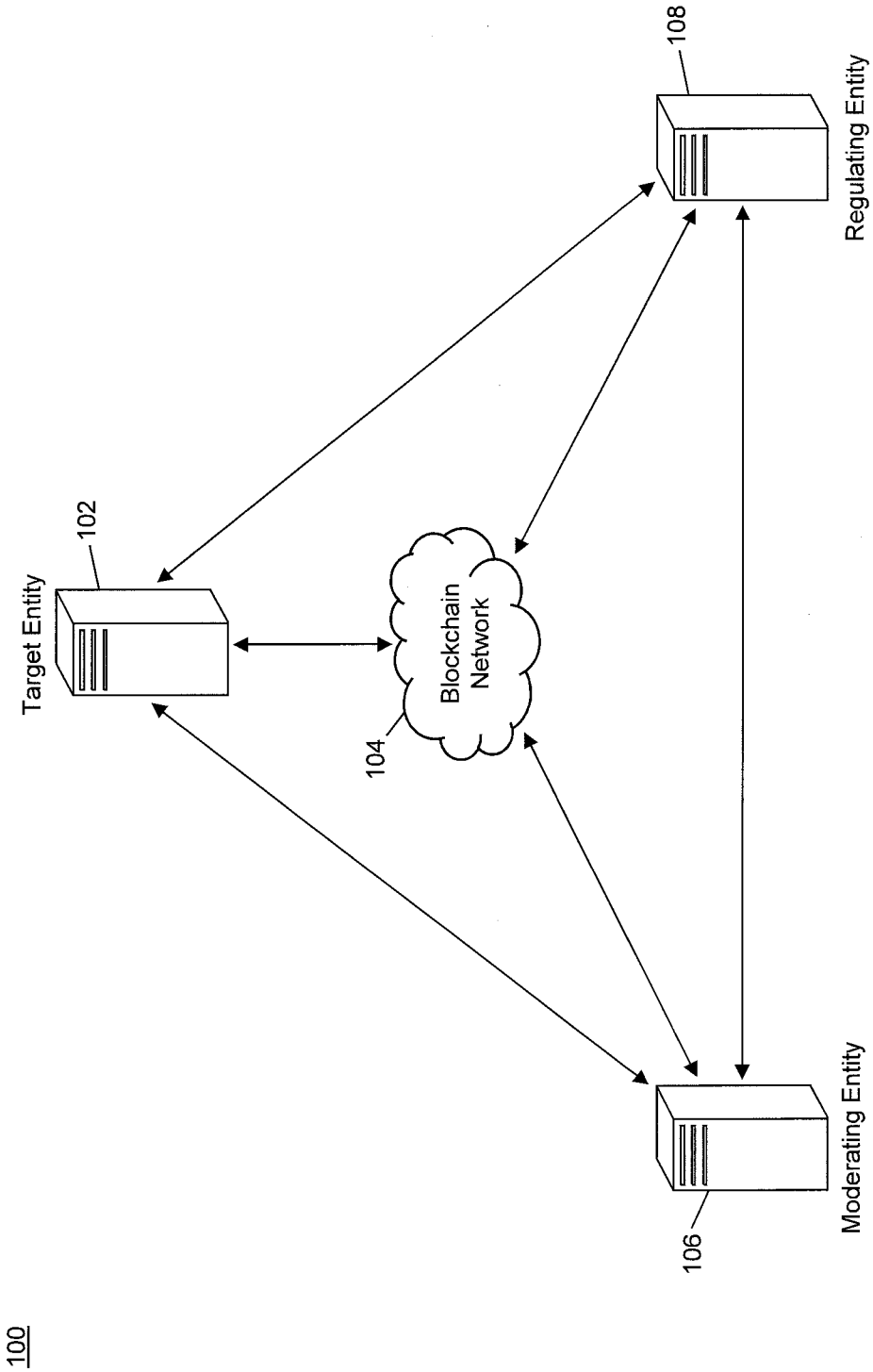

100
Target Entity
102
Blockchain Network
104
Moderating Entity
106
Regulating Entity
108

FIG. 1

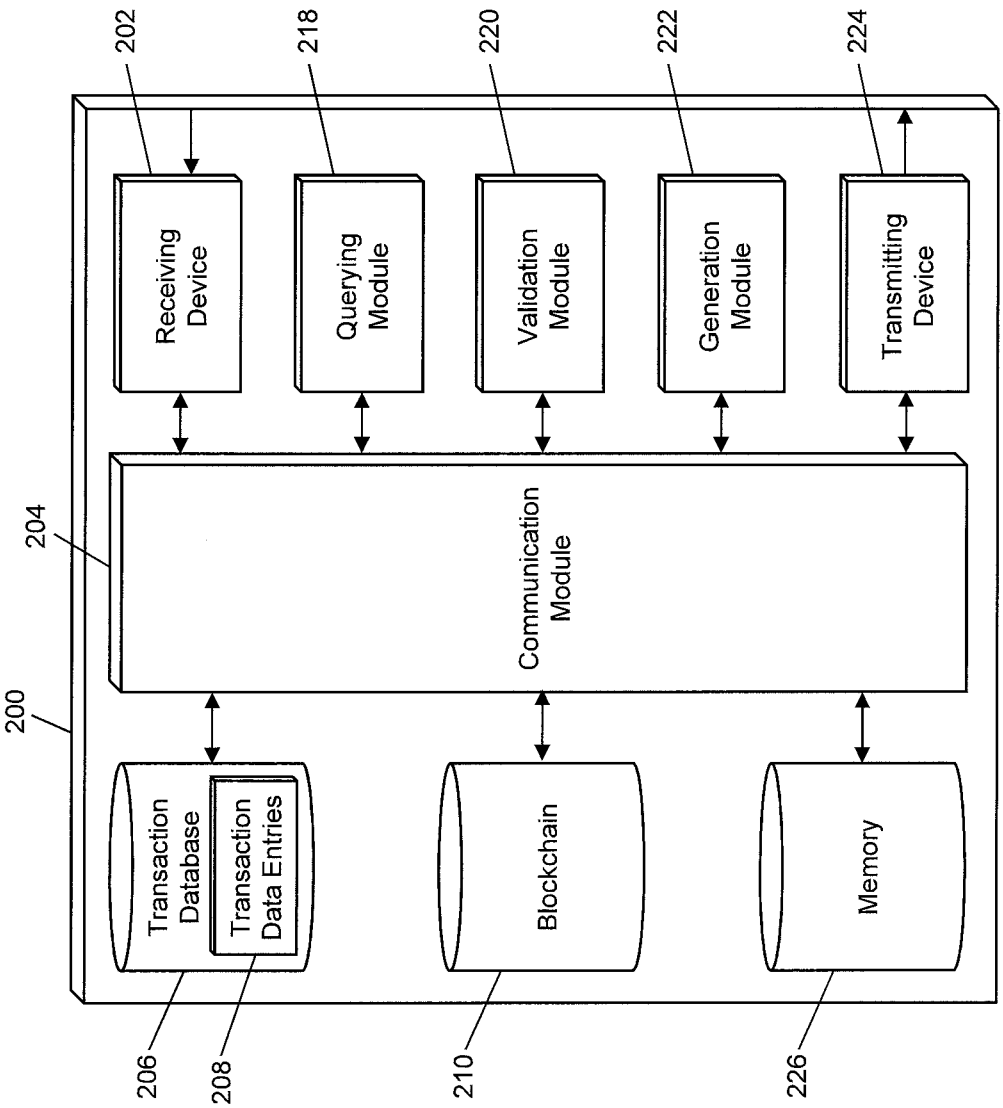

200
202
218
220
222
224
204
Receiving Device
Querying Module
Validation Module
Generation Module
Transmitting Device
Communication Module
Transaction Database
Transaction Data Entries
Blockchain
Memory
206
208
210
226

FIG. 2

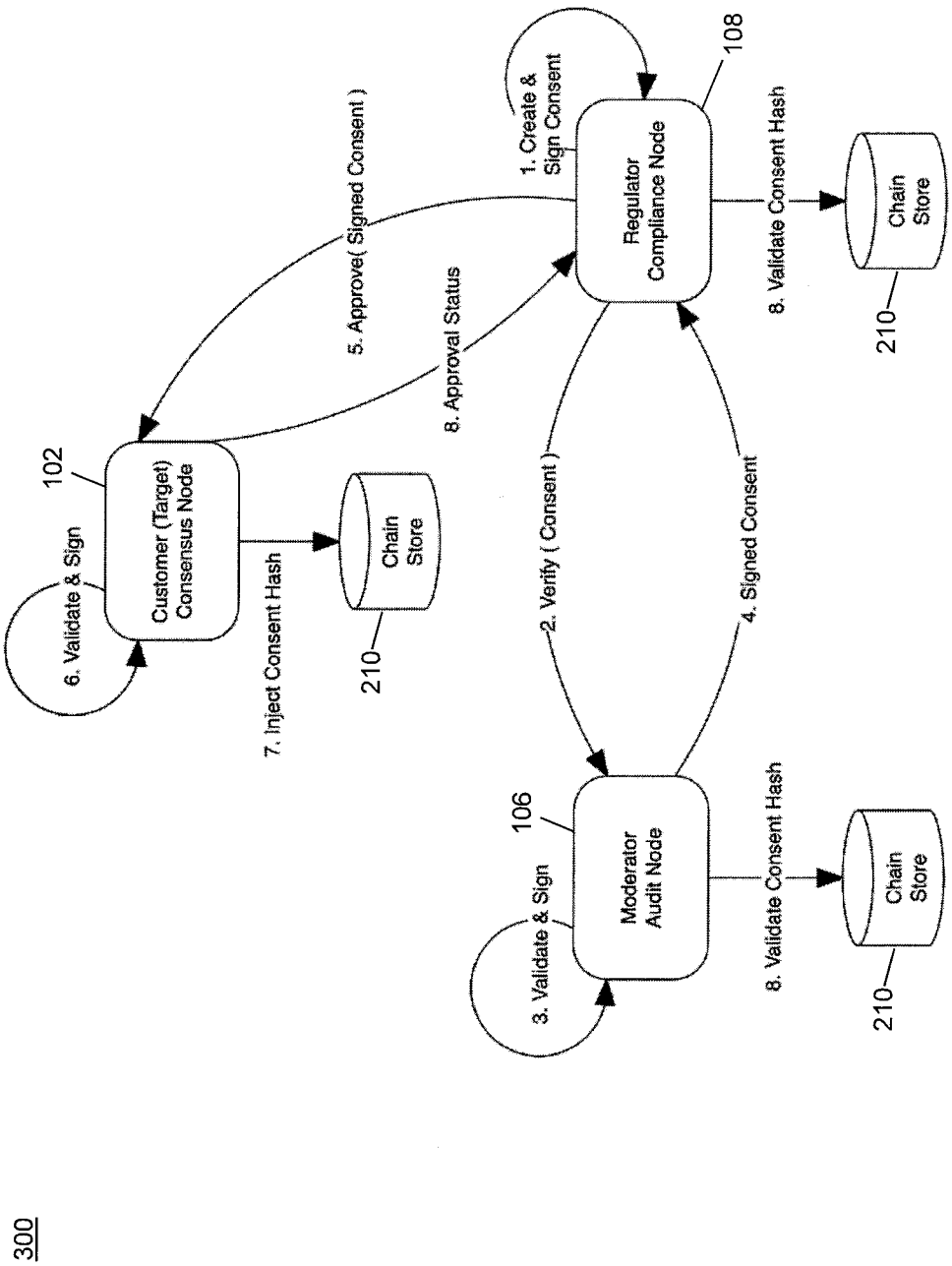

300
102
Customer (Target) Consensus Node
6. Validate & Sign
7. Inject Consent Hash
Chain Store
210
5. Approve(Signed Consent)
8. Approval Status
1. Create & Sign Consent
108
Regulator Compliance Node
8. Validate Consent Hash
Chain Store
210
2. Verify (Consent)
4. Signed Consent
106
Moderator Audit Node
3. Validate & Sign
8. Validate Consent Hash
Chain Store
210

FIG. 3

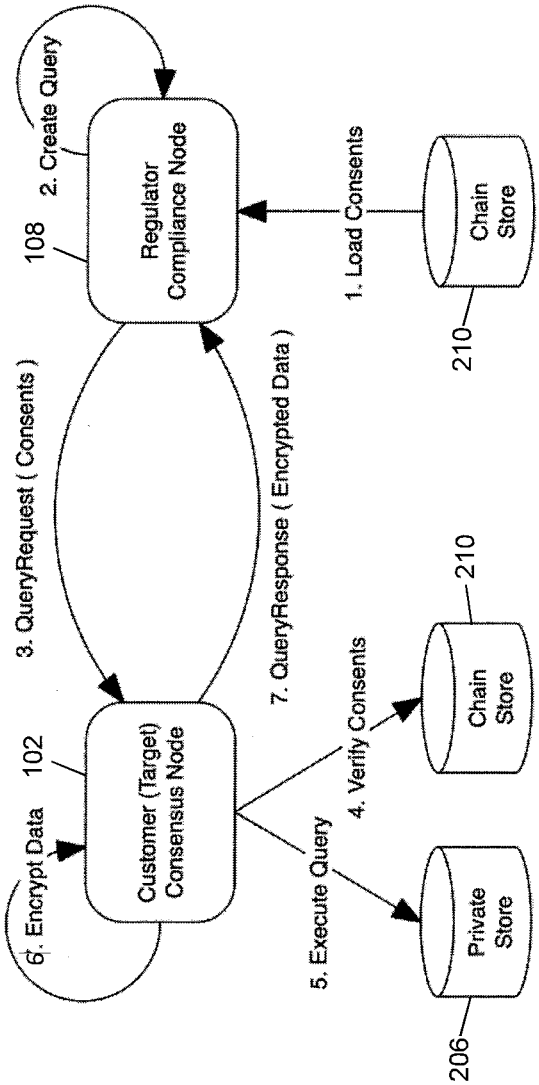

400
Regulator Compliance Node
108
2. Create Query
1. Load Consents
Chain Store
210
3. QueryRequest (Consents)
7. QueryResponse (Encrypted Data)
Customer (Target) Consensus Node
102
6. Encrypt Data
4. Verify Consents
5. Execute Query
Chain Store
210
Private Store
206

FIG. 4

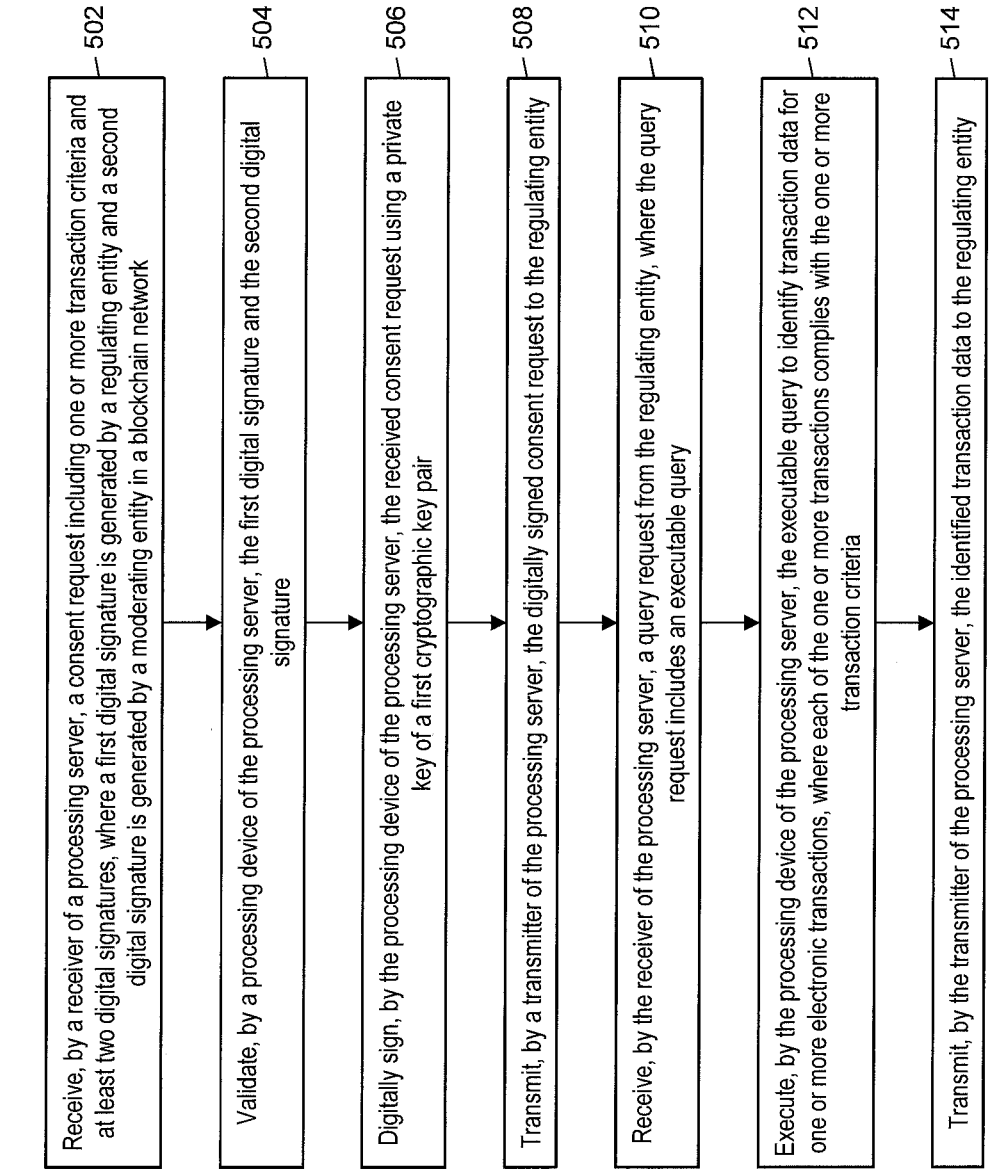

500
Receive, by a receiver of a processing server, a consent request including one or more transaction criteria and at least two digital signatures, where a first digital signature is generated by a regulating entity and a second digital signature is generated by a moderating entity in a blockchain network
502
Validate, by a processing device of the processing server, the first digital signature and the second digital signature
504
Digitally sign, by the processing device of the processing server, the received consent request using a private key of a first cryptographic key pair
506
Transmit, by a transmitter of the processing server, the digitally signed consent request to the regulating entity
508
Receive, by the receiver of the processing server, a query request from the regulating entity, where the query request includes an executable query
510
Execute, by the processing device of the processing server, the executable query to identify transaction data for one or more electronic transactions, where each of the one or more transactions complies with the one or more transaction criteria
512
Transmit, by the transmitter of the processing server, the identified transaction data to the regulating entity
514

FIG. 5

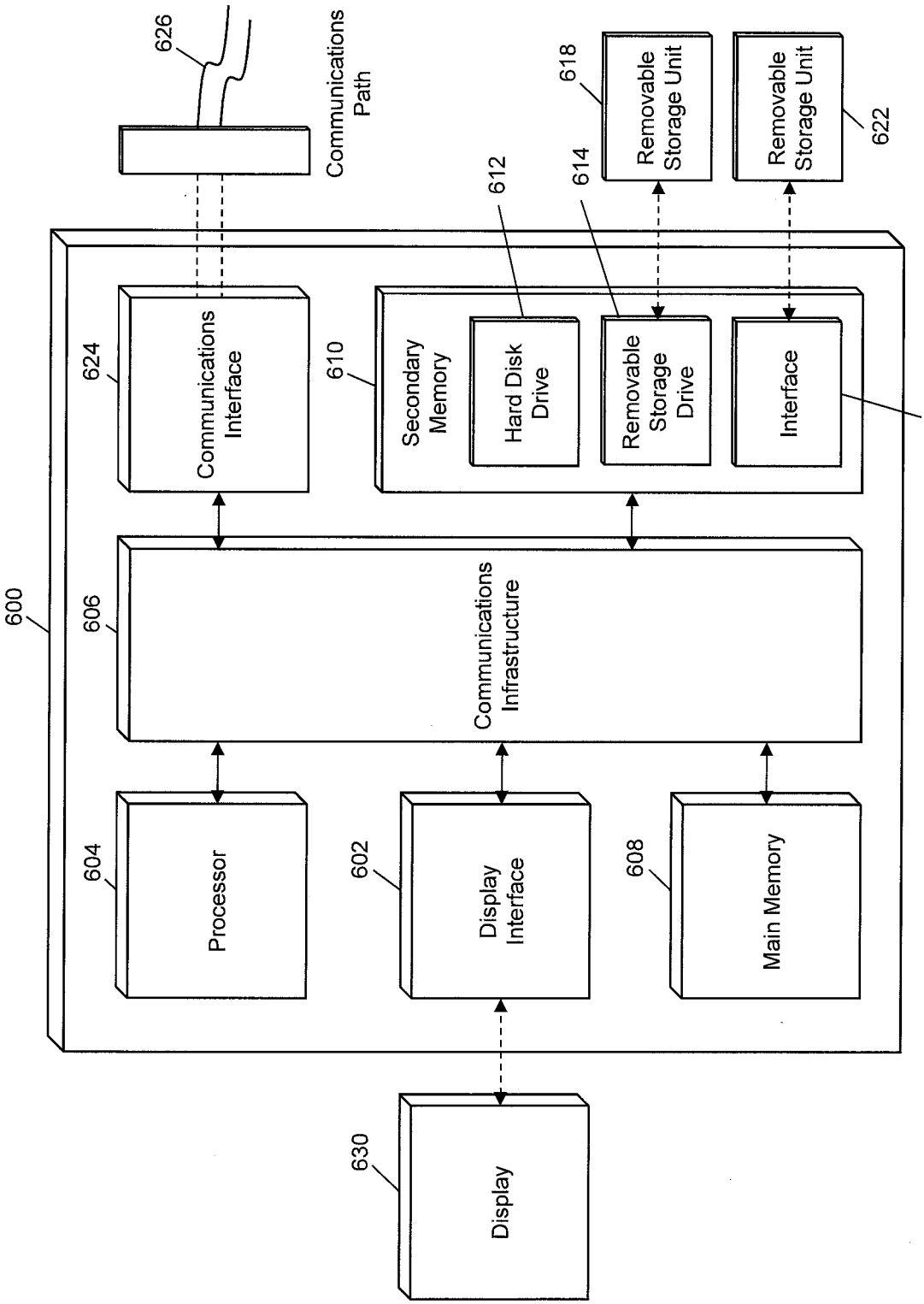

626
Communications Path
618
Removable Storage Unit
622
Removable Storage Unit
612
614
624
Communications Interface
610
Secondary Memory
Hard Disk Drive
Removable Storage Drive
Interface
620
600
606
Communications Infrastructure
604
Processor
602
Display Interface
608
Main Memory
630
Display

FIG. 6