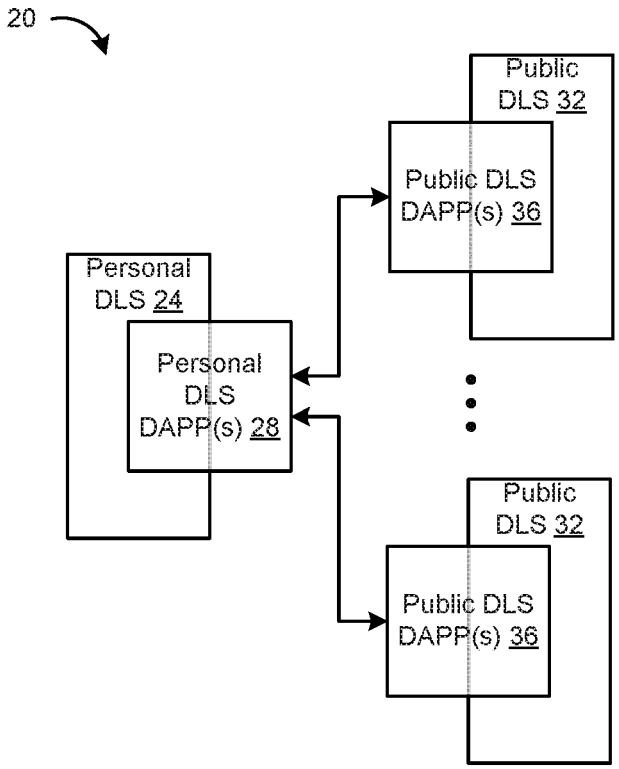

20
Public DLS 32
Public DLS DAPP(s) 36
Personal DLS 24
Personal DLS DAPP(s) 28
Public DLS 32
Public DLS DAPP(s) 36

FIG. 1

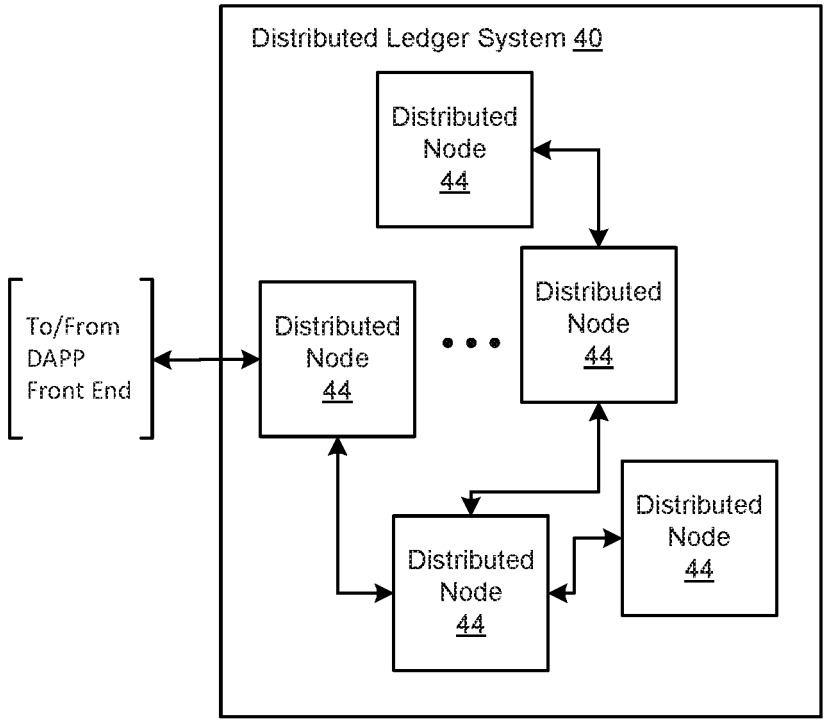

Distributed Ledger System 40
Distributed Node 44
To/From DAPP Front End
Distributed Node 44
Distributed Node 44
Distributed Node 44
Distributed Node 44

FIG. 2

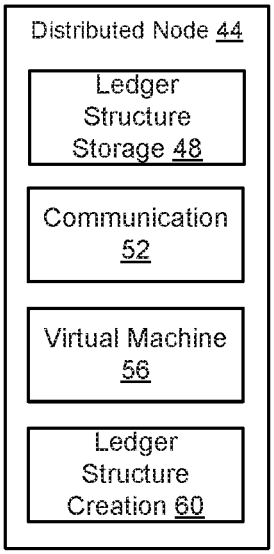

Distributed Node 44
Ledger Structure Storage 48
Communication 52
Virtual Machine 56
Ledger Structure Creation 60

FIG. 3

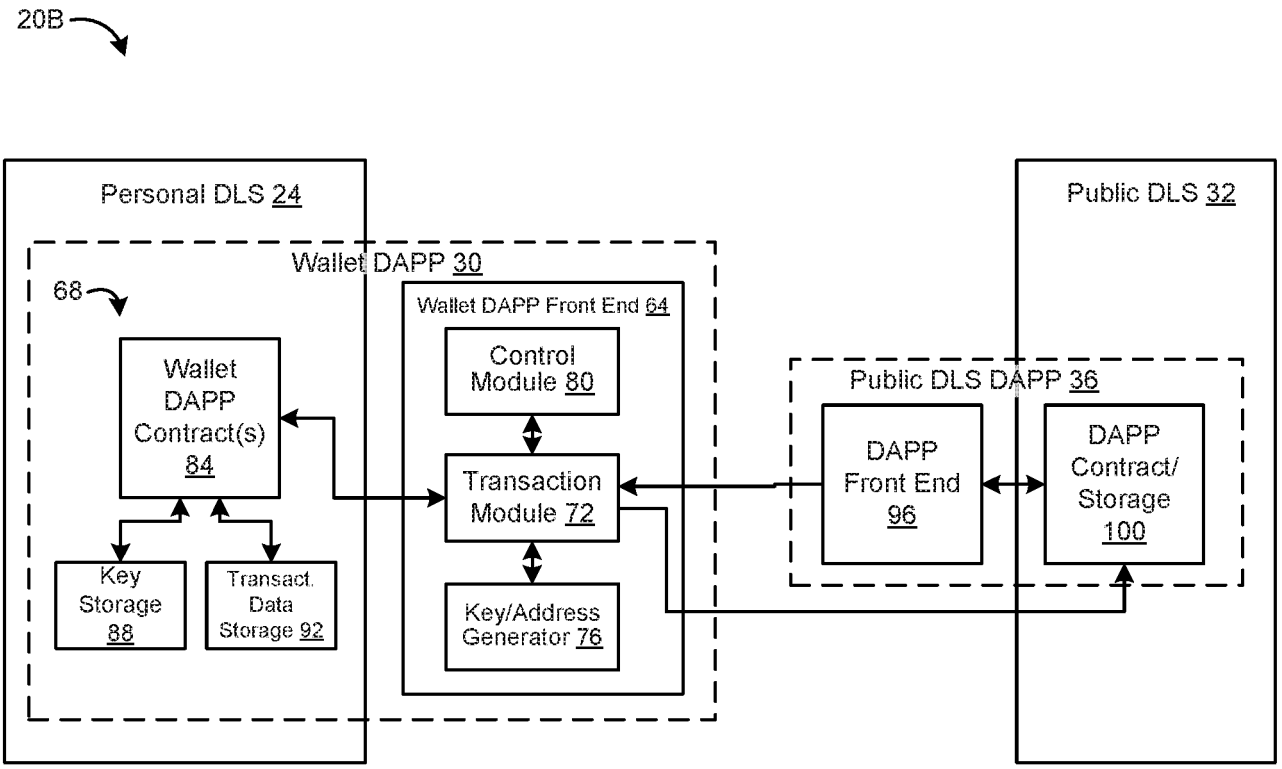

20B
Personal DLS 24
Wallet DAPP 30
68
Wallet DAPP Front End 64
Control Module 80
Wallet DAPP Contract(s) 84
Transaction Module 72
Key/Address Generator 76
Key Storage 88
Transact. Data Storage 92
Public DLS 32
Public DLS DAPP 36
DAPP Front End 96
DAPP Contract/ Storage 100

FIG. 4

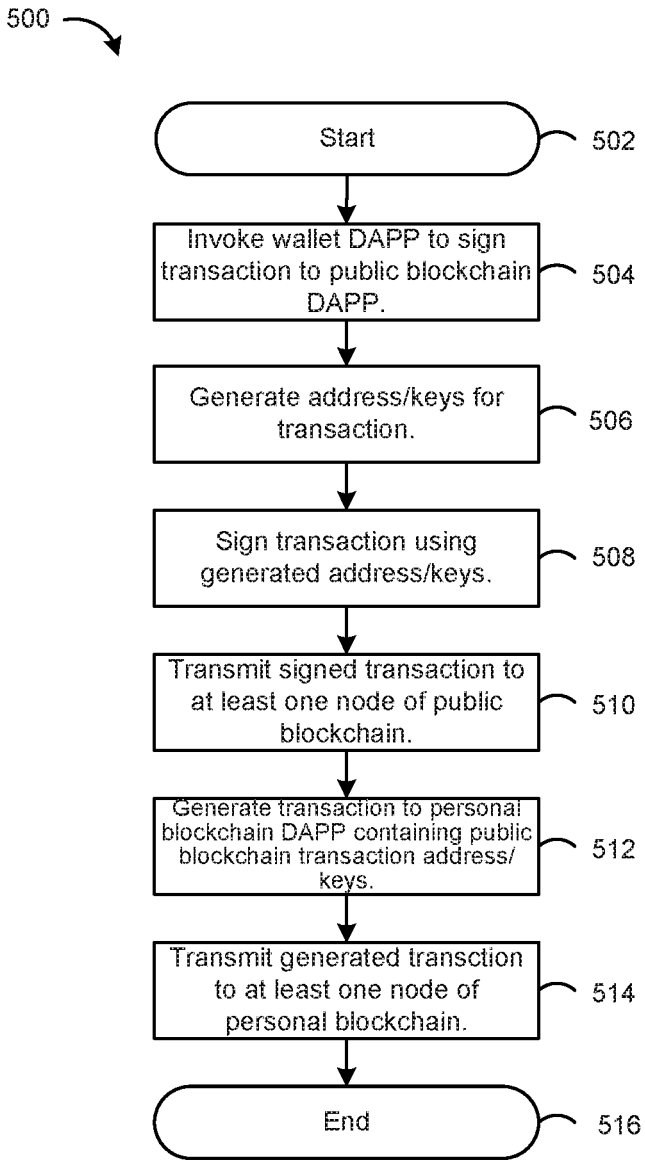

500
Start
502
Invoke wallet DAPP to sign transaction to public blockchain DAPP.
504
Generate address/keys for transaction.
506
Sign transaction using generated address/keys.
508
Transmit signed transaction to at least one node of public blockchain.
510
Generate transaction to personal blockchain DAPP containing public blockchain transaction address/ keys.
512
Transmit generated transction to at least one node of personal blockchain.
514
End
516

FIG. 5

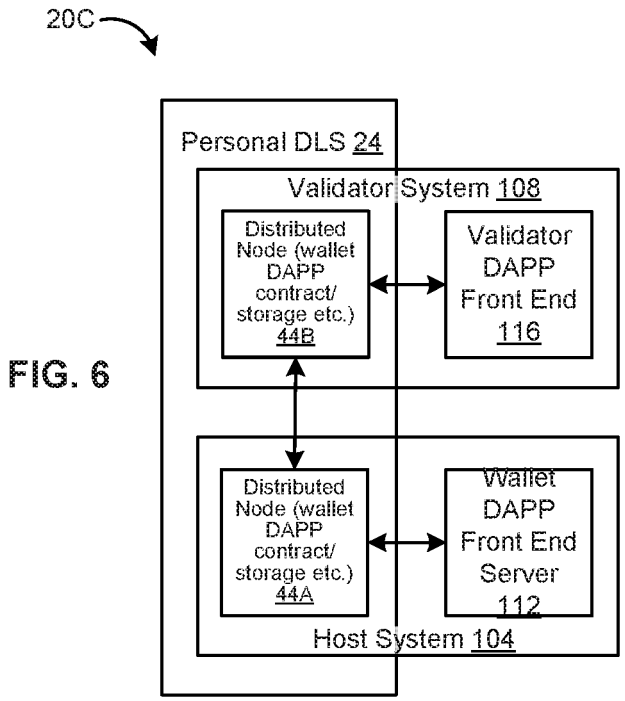


FIG. 6

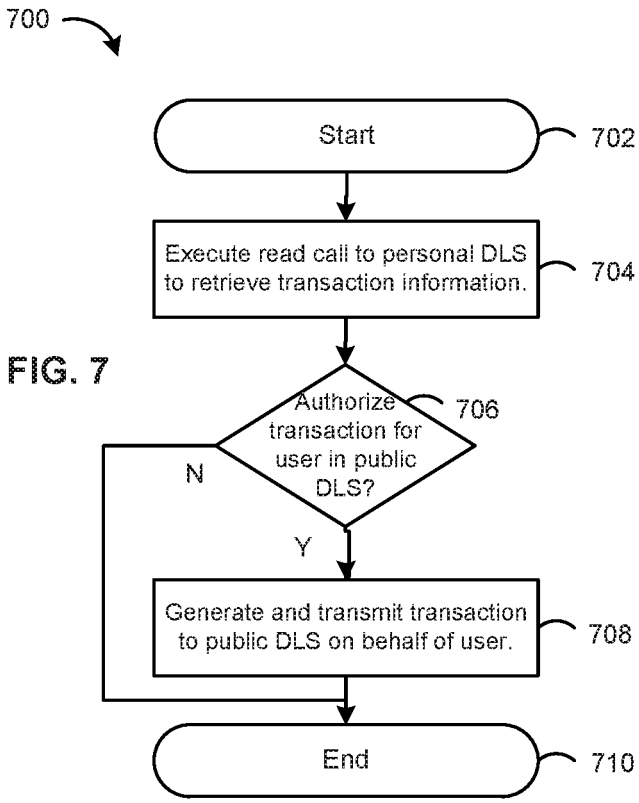


FIG. 7

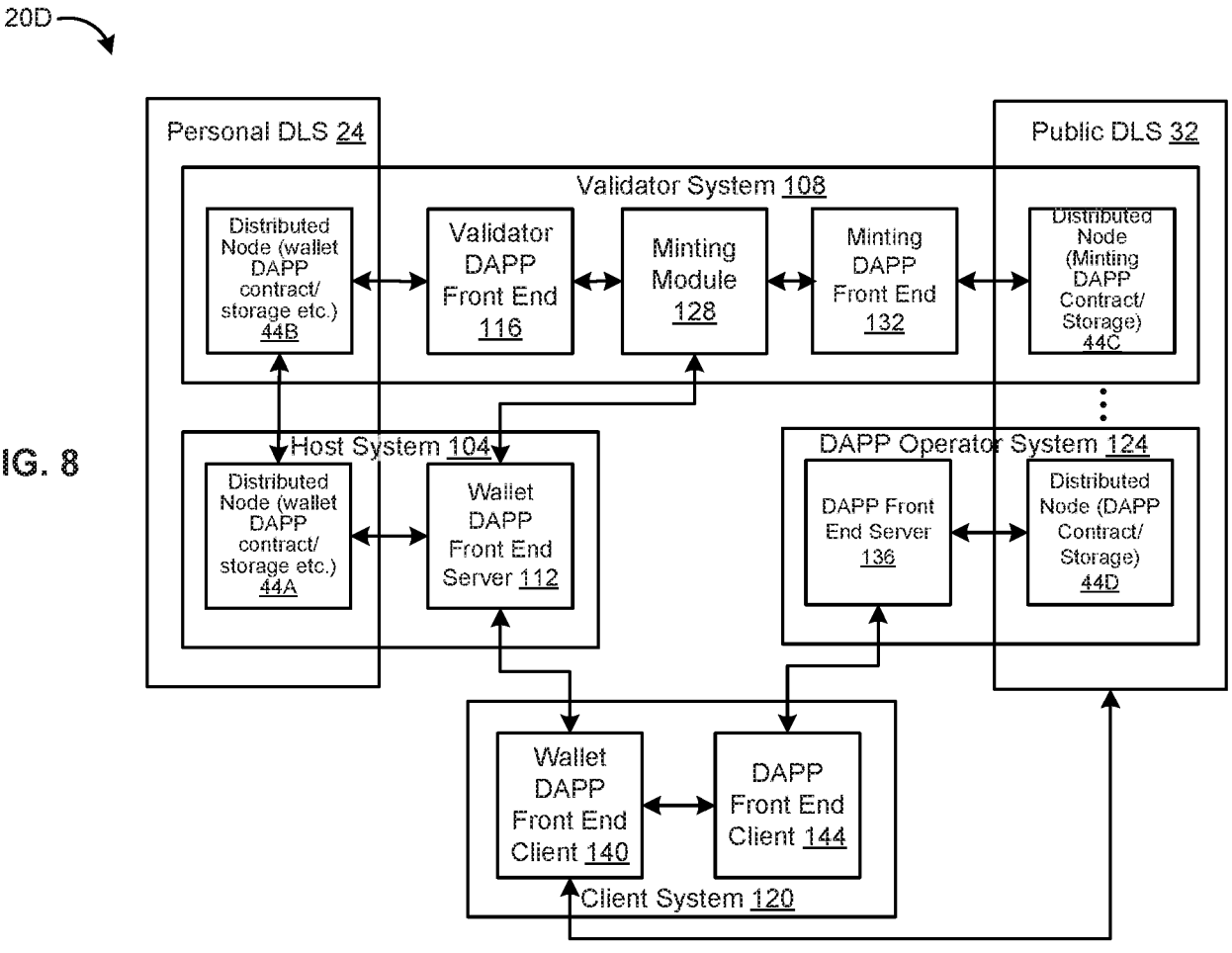


FIG. 8

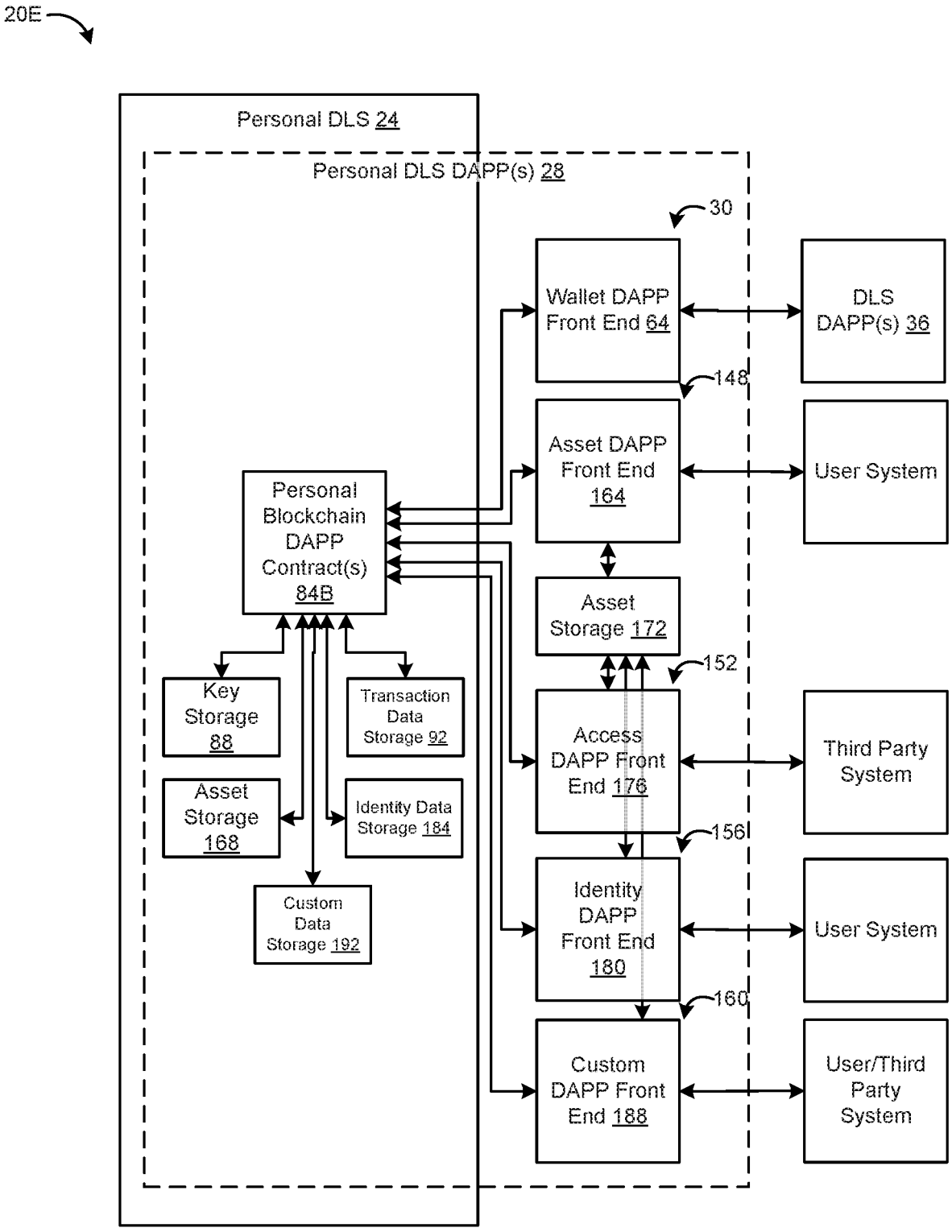

20E
Personal DLS 24
Personal DLS DAPP(s) 28
30
Wallet DAPP Front End 64
DLS DAPP(s) 36
148
Asset DAPP Front End 164
User System
Personal Blockchain DAPP Contract(s) 84B
Asset Storage 172
152
Key Storage 88
Transaction Data Storage 92
Access DAPP Front End 176
Third Party System
Asset Storage 168
Identity Data Storage 184
156
Identity DAPP Front End 180
User System
Custom Data Storage 192
160
Custom DAPP Front End 188
User/Third Party System

FIG. 9

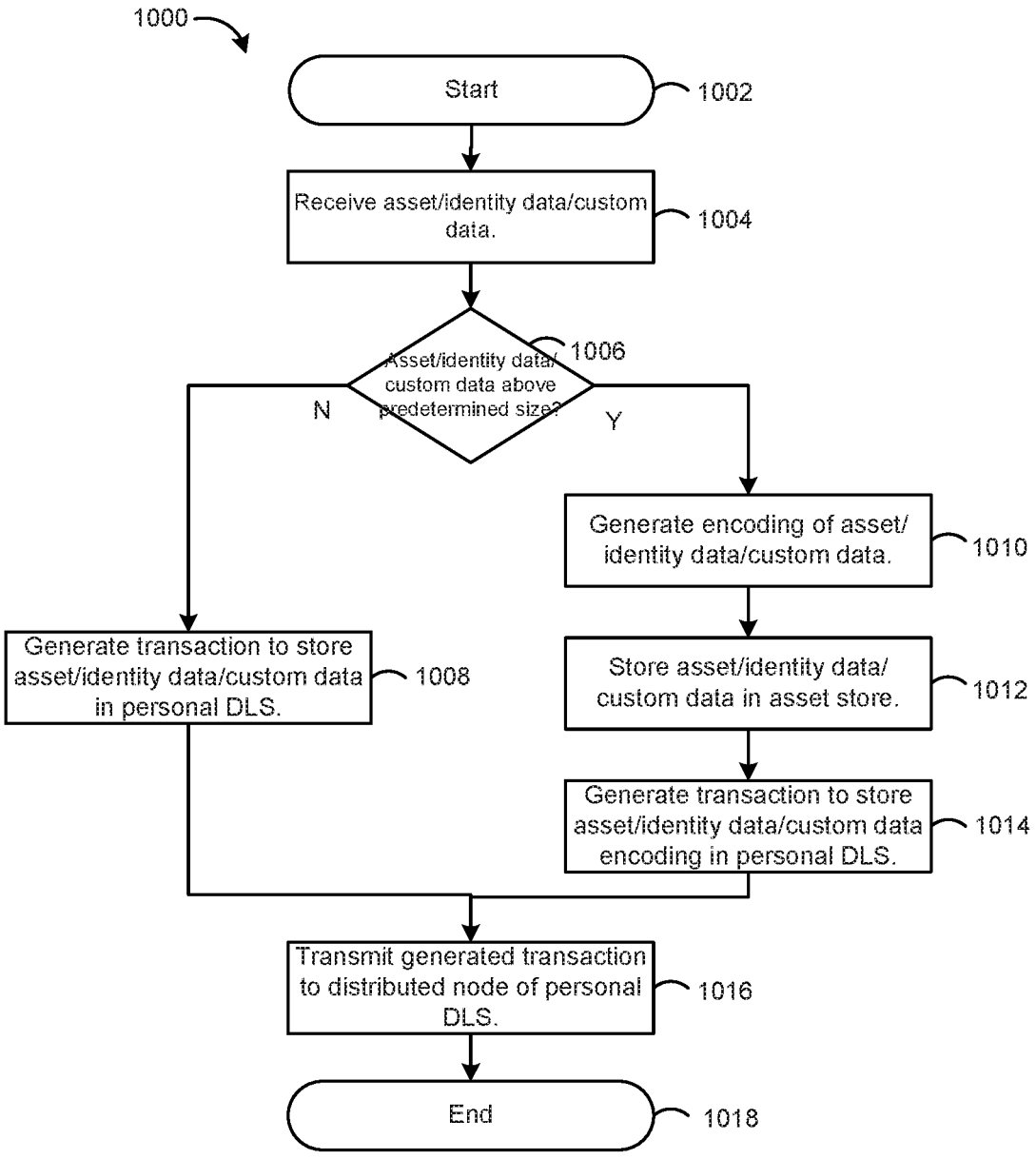

1000
Start
1002
Receive asset/identity data/custom data.
1004
Asset/identity data/ custom data above predetermined size?
1006
N
Y
Generate encoding of asset/ identity data/custom data.
1010
Generate transaction to store asset/identity data/custom data in personal DLS.
1008
Store asset/identity data/ custom data in asset store.
1012
Generate transaction to store asset/identity data/custom data encoding in personal DLS.
1014
Transmit generated transaction to distributed node of personal DLS.
1016
End
1018

FIG. 10

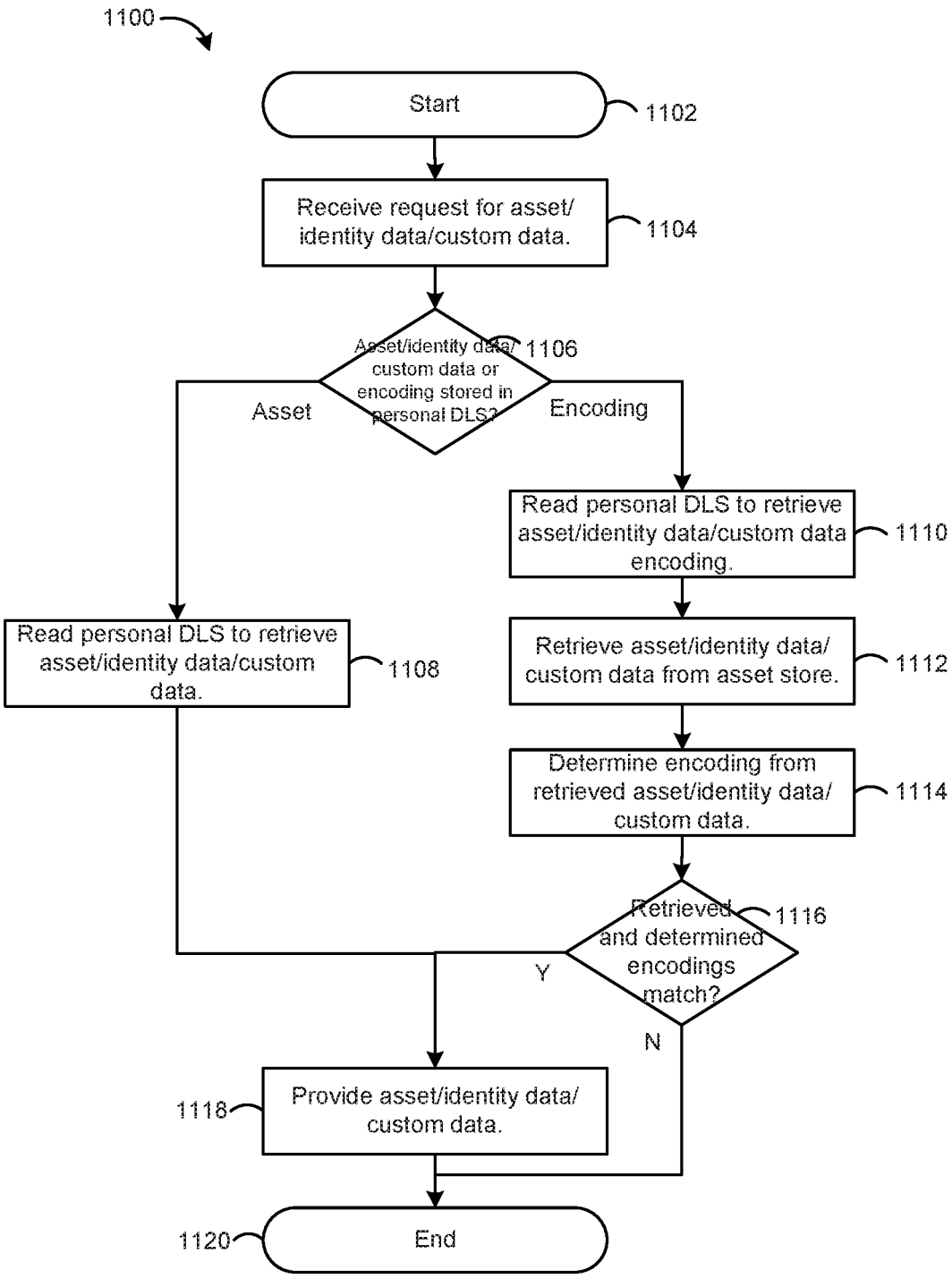

1100
Start
1102
Receive request for asset/ identity data/custom data.
1104
Asset/identity data/ custom data or encoding stored in personal DLS?
1106
Asset
Encoding
Read personal DLS to retrieve asset/identity data/custom data.
1108
Read personal DLS to retrieve asset/identity data/custom data encoding.
1110
Retrieve asset/identity data/ custom data from asset store.
1112
Determine encoding from retrieved asset/identity data/ custom data.
1114
Retrieved and determined encodings match?
1116
Y
N
Provide asset/identity data/ custom data.
1118
End
1120

FIG. 11