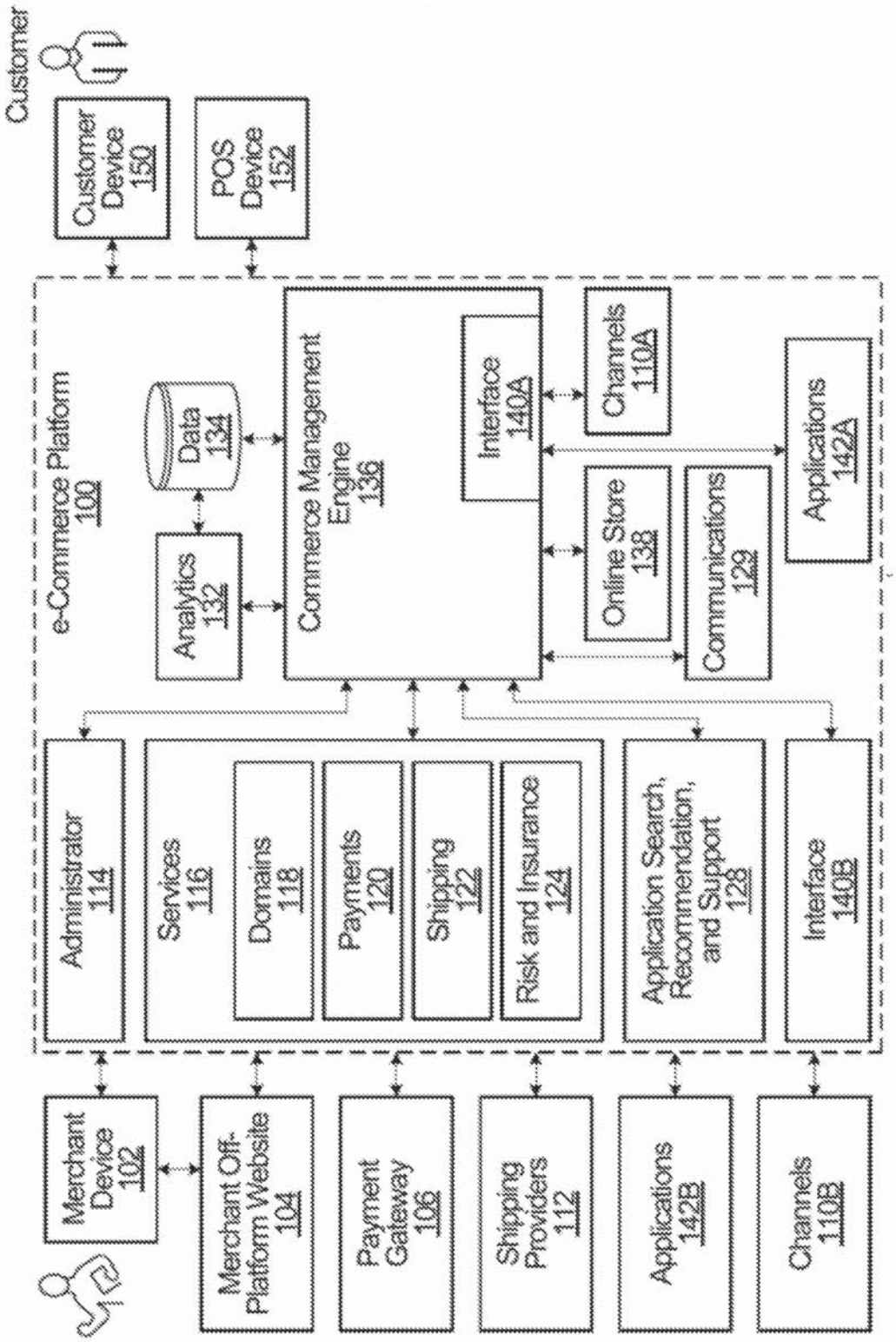

Customer
Customer Device 150
POS Device 152
e-Commerce Platform 100
Data 134
Analytics 132
Commerce Management Engine 136
Interface 140A
Channels 110A
Online Store 138
Communications 129
Applications 142A
Administrator 114
Services 116
Domains 118
Payments 120
Shipping 122
Risk and Insurance 124
Application Search, Recommendation, and Support 128
Interface 140B
Merchant Device 102
Merchant Off-Platform Website 104
Payment Gateway 106
Shipping Providers 112
Applications 142B
Channels 110B

FIG. 1


E-Commerce Platform
Search
JG
John's Apparel
Jonny B. Good
Home
Orders
Products
Customers
Reports
Discounts
Apps
SALES CHANNELS
Online Store
Mobile App
View all channels
Settings
Good afternoon, Jonny B..
Here's what's happening with your store today.
Today's total sales
$98.00
Today's visits
1
Update your Platform Payments tax details
We require additional information to verify your identity.
Update tax details
Advanced Cash on Delivery has been deactivated for your store
See why
All channels
Today
TOTAL SALES
Jun 1
$98.00
2 orders
$125
$75
$25
12am
8pm
4pm
11pm
TOTAL SALES BY CHANNEL
Jun 1
Online Store
View dashboard
$0.00
0 orders
Mobile app
$0.00
0 orders
Shopify POS (126 York St.)
$0.00
0 orders

FIG. 2

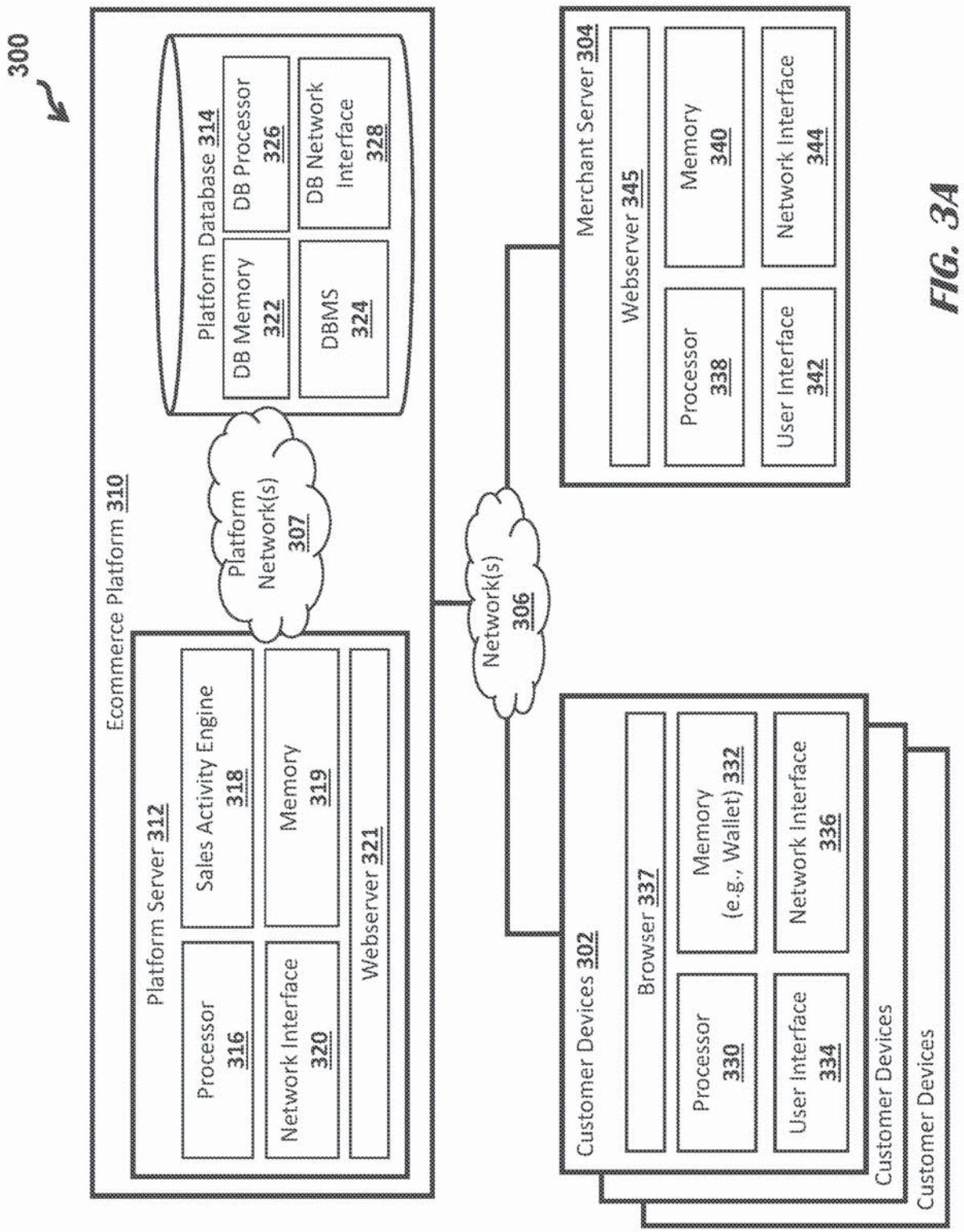

300
Ecommerce Platform 310
Platform Server 312
Processor 316
Sales Activity Engine 318
Network Interface 320
Memory 319
Webserver 321
Platform Database 314
DB Memory 322
DBMS 324
DB Processor 326
DB Network Interface 328
Platform Network(s) 307
Network(s) 306
Merchant Server 304
Webserver 345
Processor 338
Memory 340
User Interface 342
Network Interface 344
Customer Devices 302
Browser 337
Processor 330
Memory (e.g., Wallet) 332
User Interface 334
Network Interface 336
Customer Devices
Customer Devices

FIG. 3A

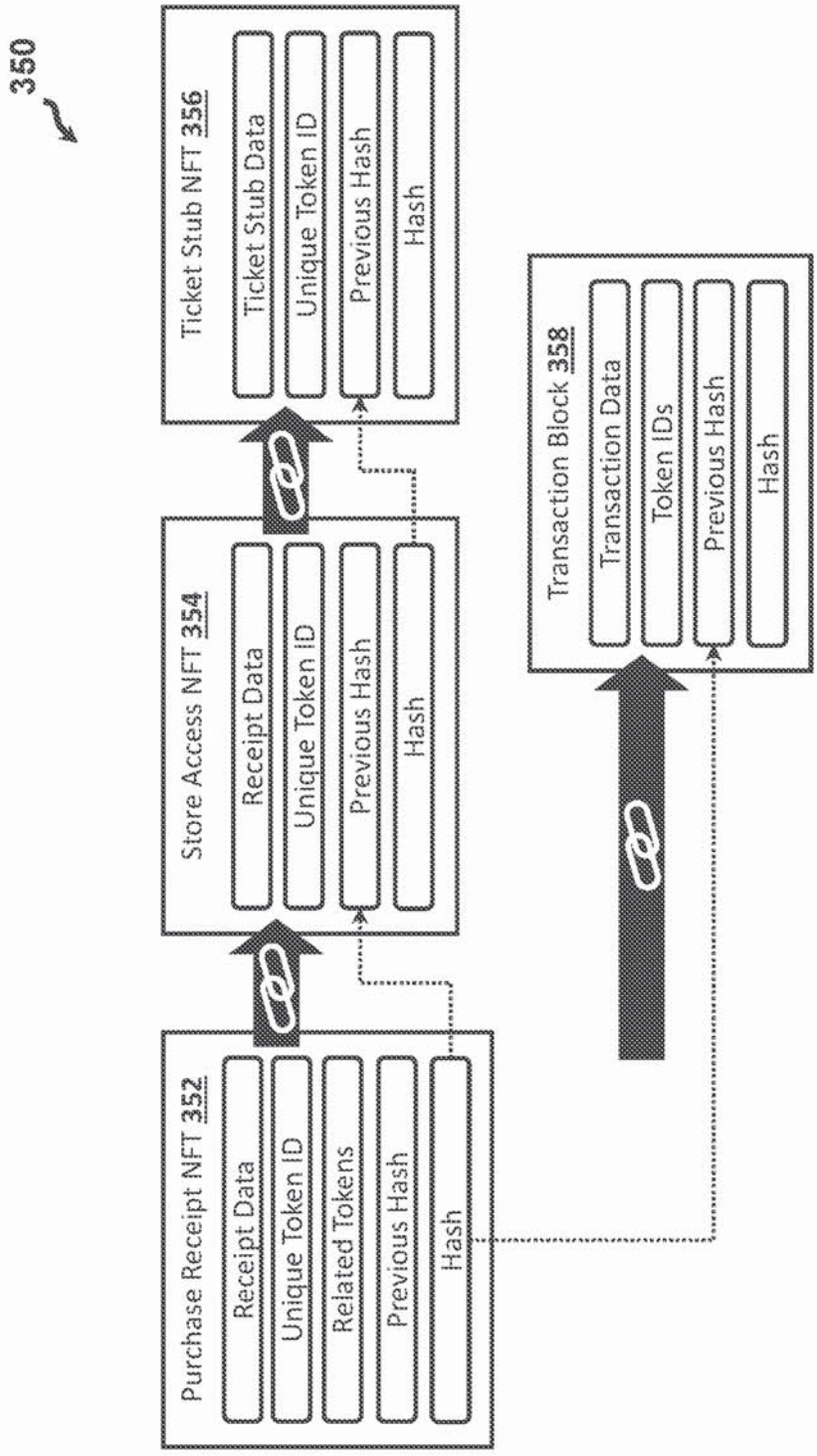

350
Purchase Receipt NFT 352
Receipt Data
Unique Token ID
Related Tokens
Previous Hash
Hash
Store Access NFT 354
Receipt Data
Unique Token ID
Previous Hash
Hash
Ticket Stub NFT 356
Ticket Stub Data
Unique Token ID
Previous Hash
Hash
Transaction Block 358
Transaction Data
Token IDs
Previous Hash
Hash

FIG. 3B

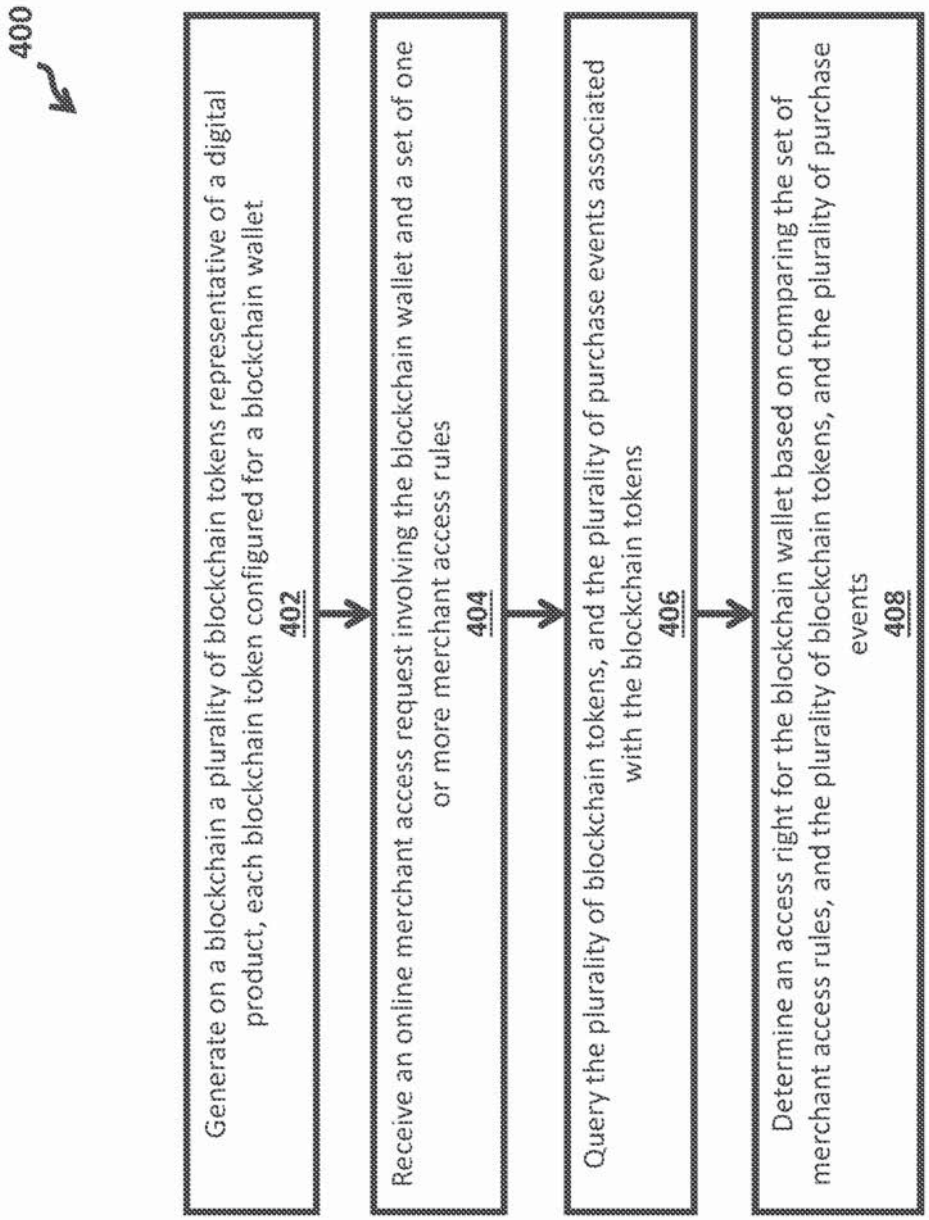

400
Generate on a blockchain a plurality of blockchain tokens representative of a digital product, each blockchain token configured for a blockchain wallet
402
Receive an online merchant access request involving the blockchain wallet and a set of one or more merchant access rules
404
Query the plurality of blockchain tokens, and the plurality of purchase events associated with the blockchain tokens
406
Determine an access right for the blockchain wallet based on comparing the set of merchant access rules, and the plurality of blockchain tokens, and the plurality of purchase events
408

FIG. 4