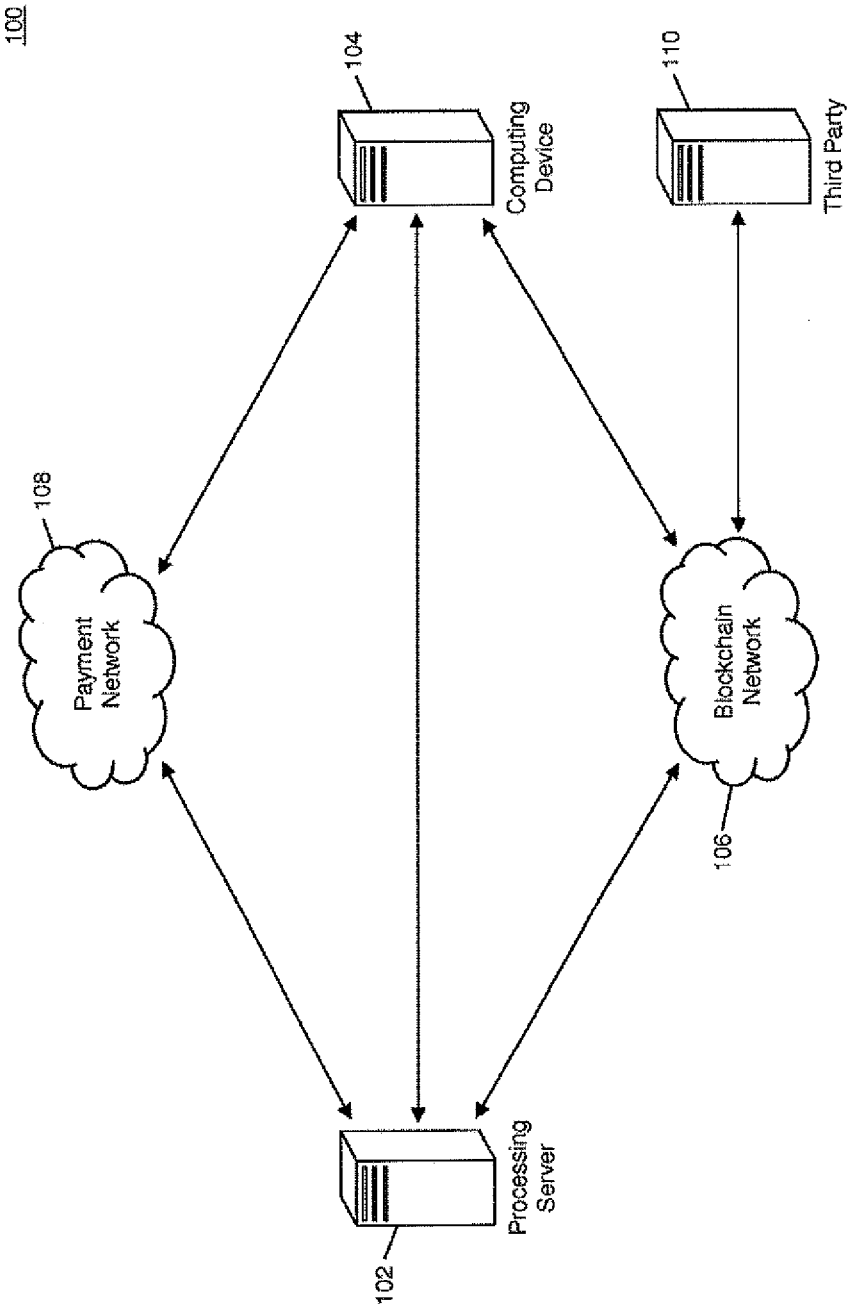
100
104
Computing Device
110
Third Party
108
Payment Network
Blockchain Network
106
Processing Server
102

FIG. 1

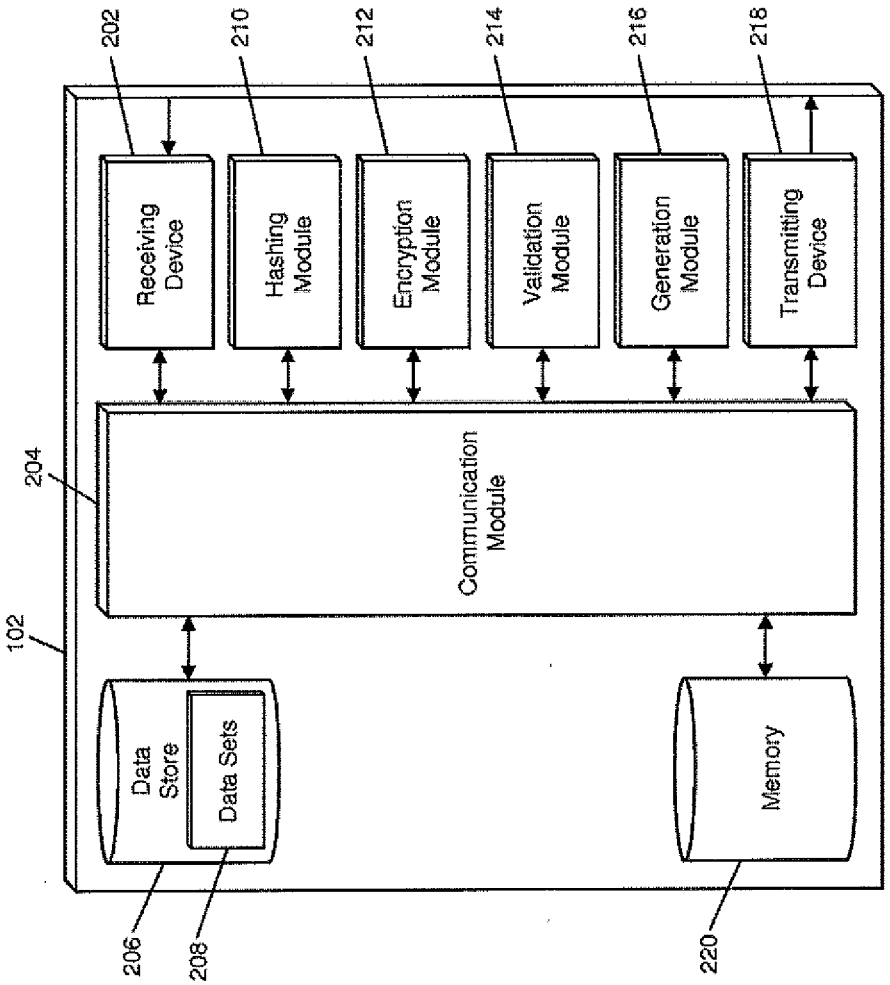
202
210
212
214
216
218
Receiving Device
Hashing Module
Encryption Module
Validation Module
Generation Module
Transmitting Device
204
Communication Module
102
Data Store
Data Sets
Memory
206
208
220

FIG. 2

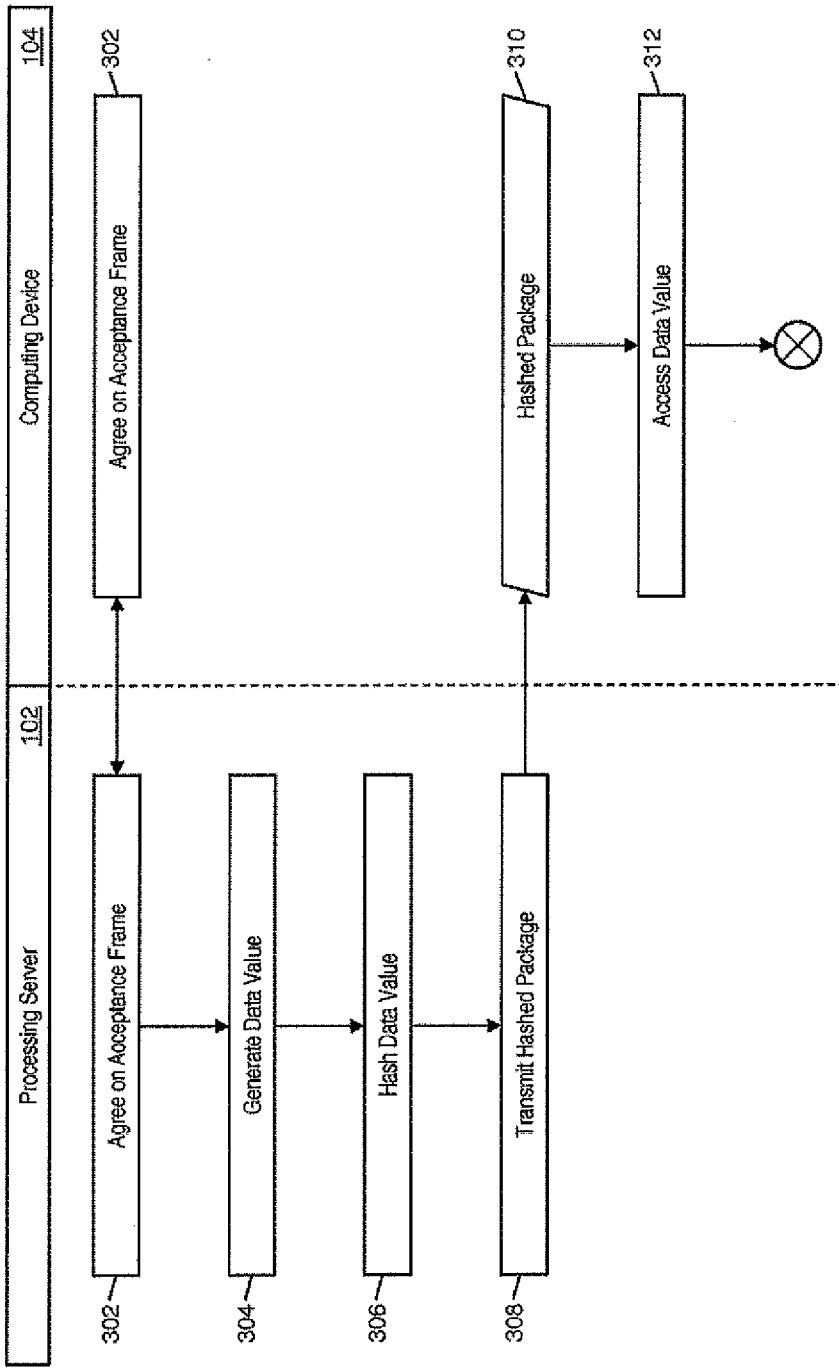
Processing Server
102
Computing Device
104
Agree on Acceptance Frame
302
Generate Data Value
304
Hash Data Value
306
Transmit Hashed Package
308
Hashed Package
310
Access Data Value
312

FIG. 3A

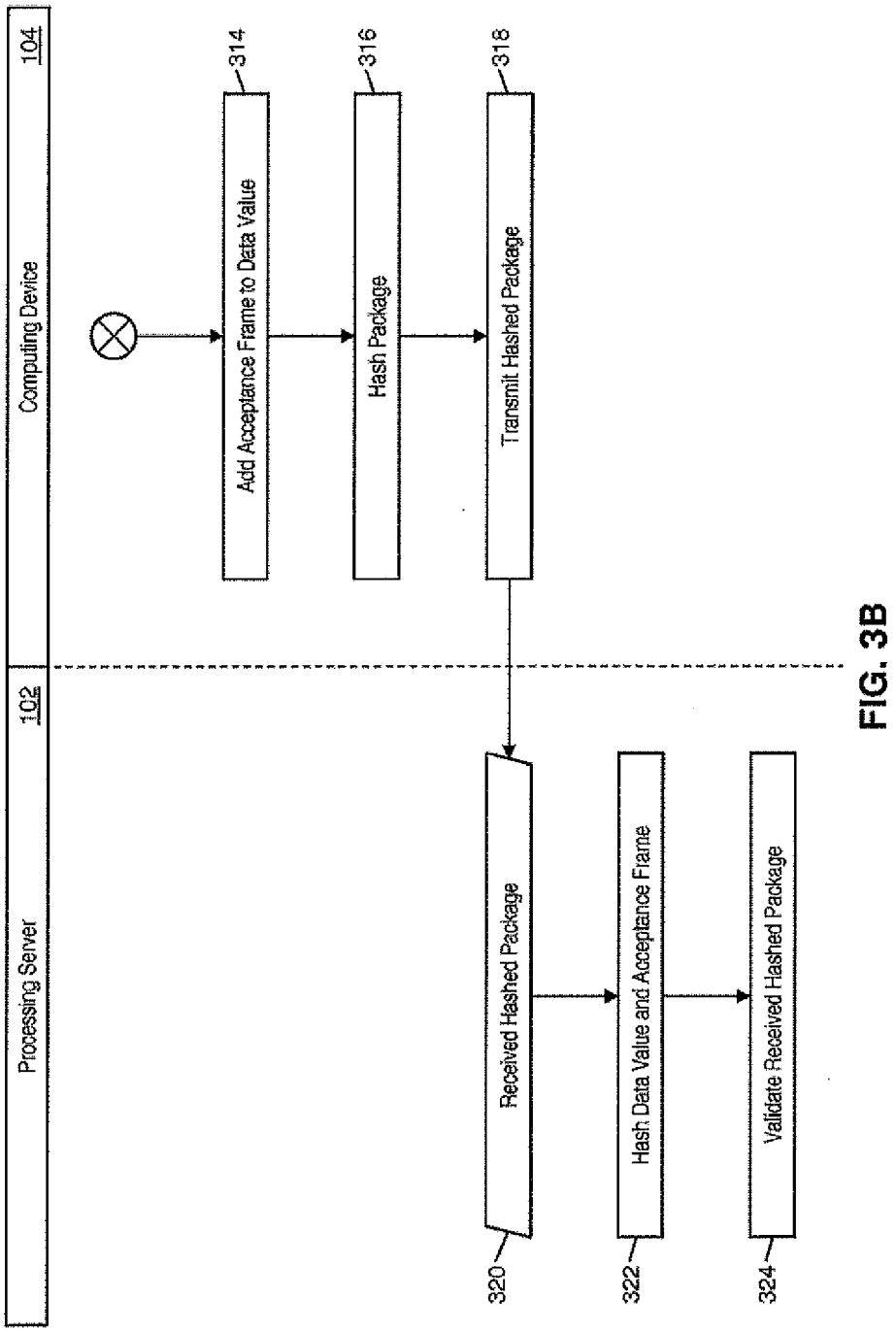
Computing Device
104
Processing Server
102
314
Add Acceptance Frame to Data Value
316
Hash Package
318
Transmit Hashed Package
320
Received Hashed Package
322
Hash Data Value and Acceptance Frame
324
Validate Received Hashed Package

FIG. 3B

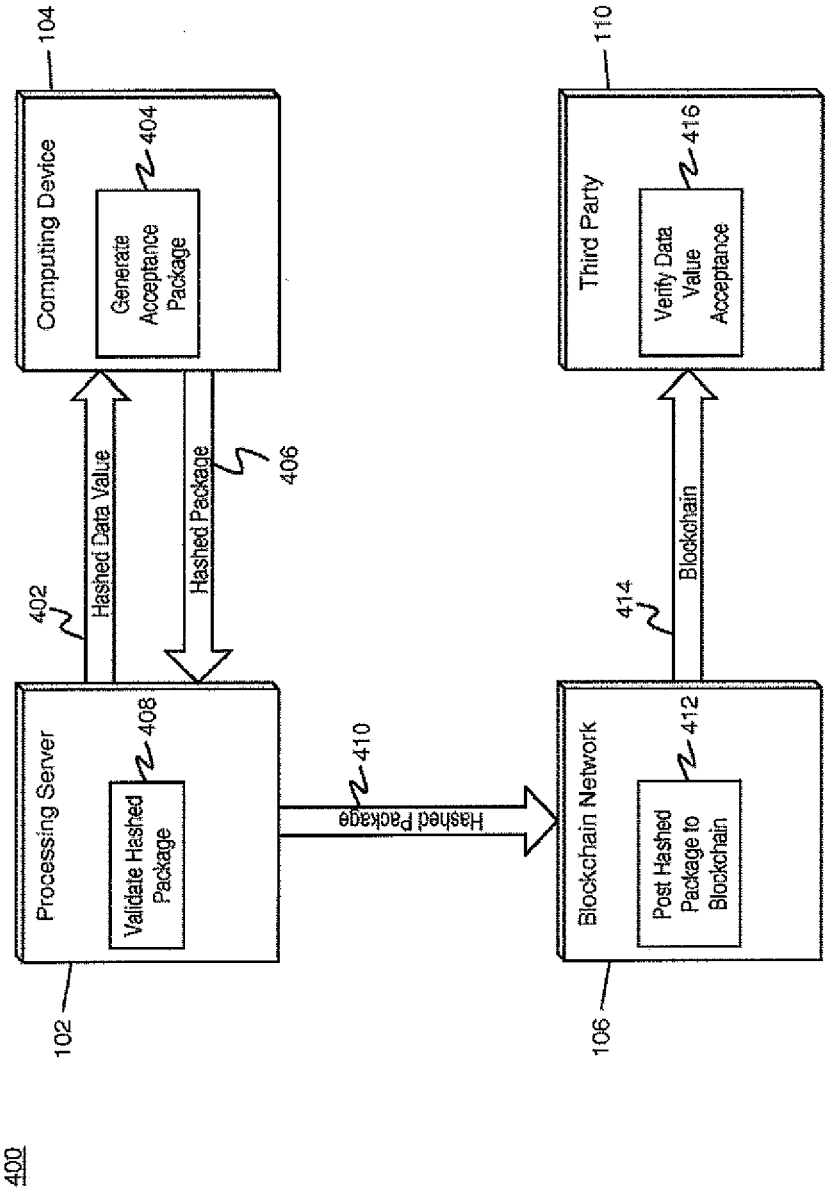
400
104
Computing Device
404
Generate Acceptance Package
Hashed Data Value
Hashed Package
406
402
102
Processing Server
408
Validate Hashed Package
410
Hashed Package
110
Third Party
416
Verify Data Value Acceptance
Blockchain
414
106
Blockchain Network
412
Post Hashed Package to Blockchain

FIG. 4

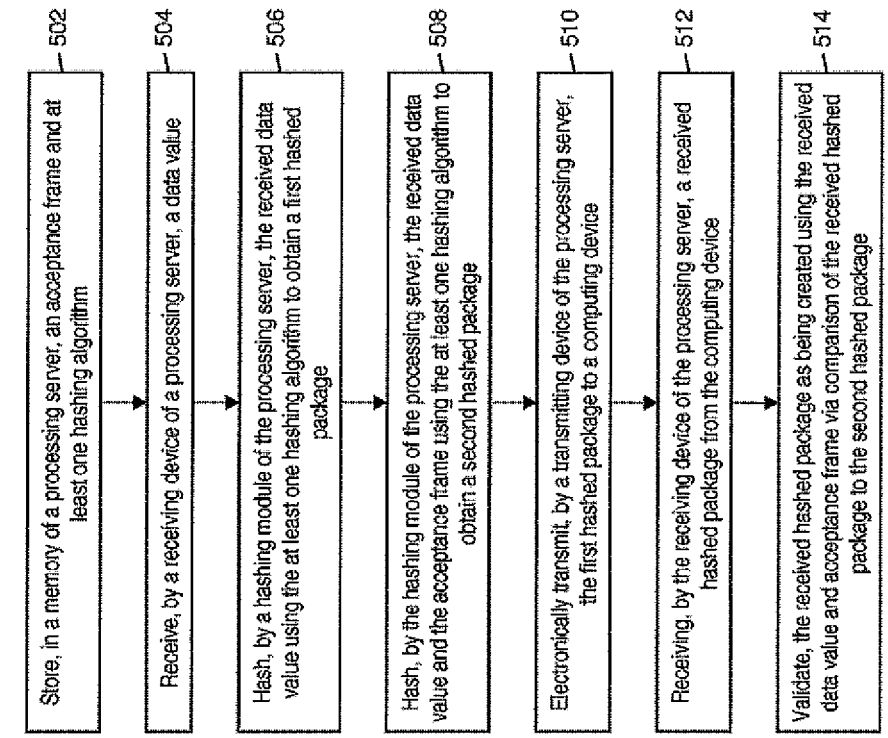
500
Store, in a memory of a processing server, an acceptance frame and at least one hashing algorithm
502
Receive, by a receiving device of a processing server, a data value
504
Hash, by a hashing module of the processing server, the received data value using the at least one hashing algorithm to obtain a first hashed package
506
Hash, by the hashing module of the processing server, the received data value and the acceptance frame using the at least one hashing algorithm to obtain a second hashed package
508
Electronically transmit, by a transmitting device of the processing server, the first hashed package to a computing device
510
Receiving, by the receiving device of the processing server, a received hashed package from the computing device
512
Validate, the received hashed package as being created using the received data value and acceptance frame via comparison of the received hashed package to the second hashed package
514

FIG. 5

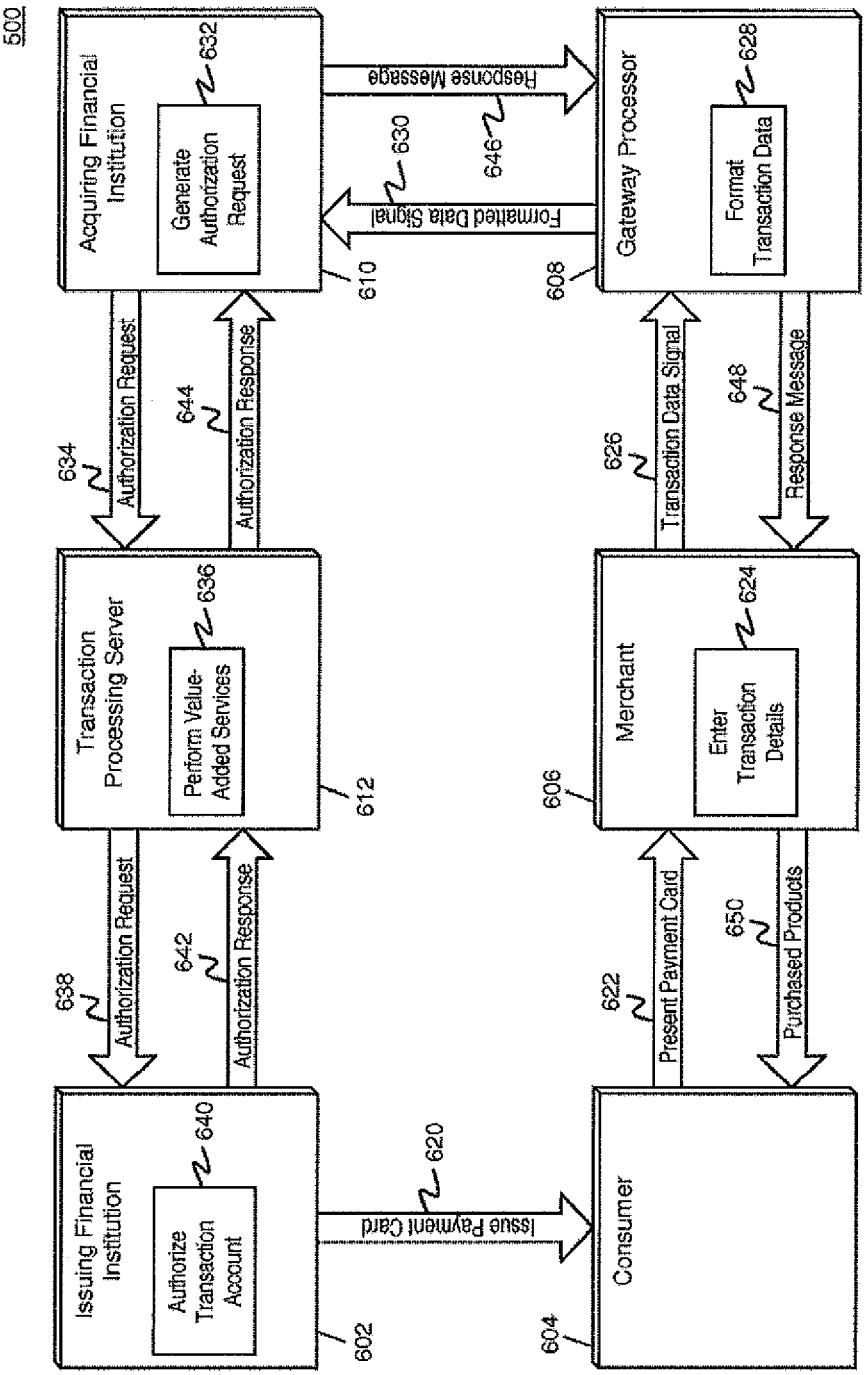
500
Acquiring Financial Institution
632
Generate Authorization Request
610
Response Message
646
630
Formatted Data Signal
Gateway Processor
628
Format Transaction Data
608
634
Authorization Request
644
Authorization Response
626
Transaction Data Signal
648
Response Message
Transaction Processing Server
636
Perform Value-Added Services
612
Merchant
624
Enter Transaction Details
606
638
Authorization Request
642
Authorization Response
622
Present Payment Card
650
Purchased Products
Issuing Financial Institution
640
Authorize Transaction Account
602
620
Issue Payment Card
Consumer
604

FIG. 6

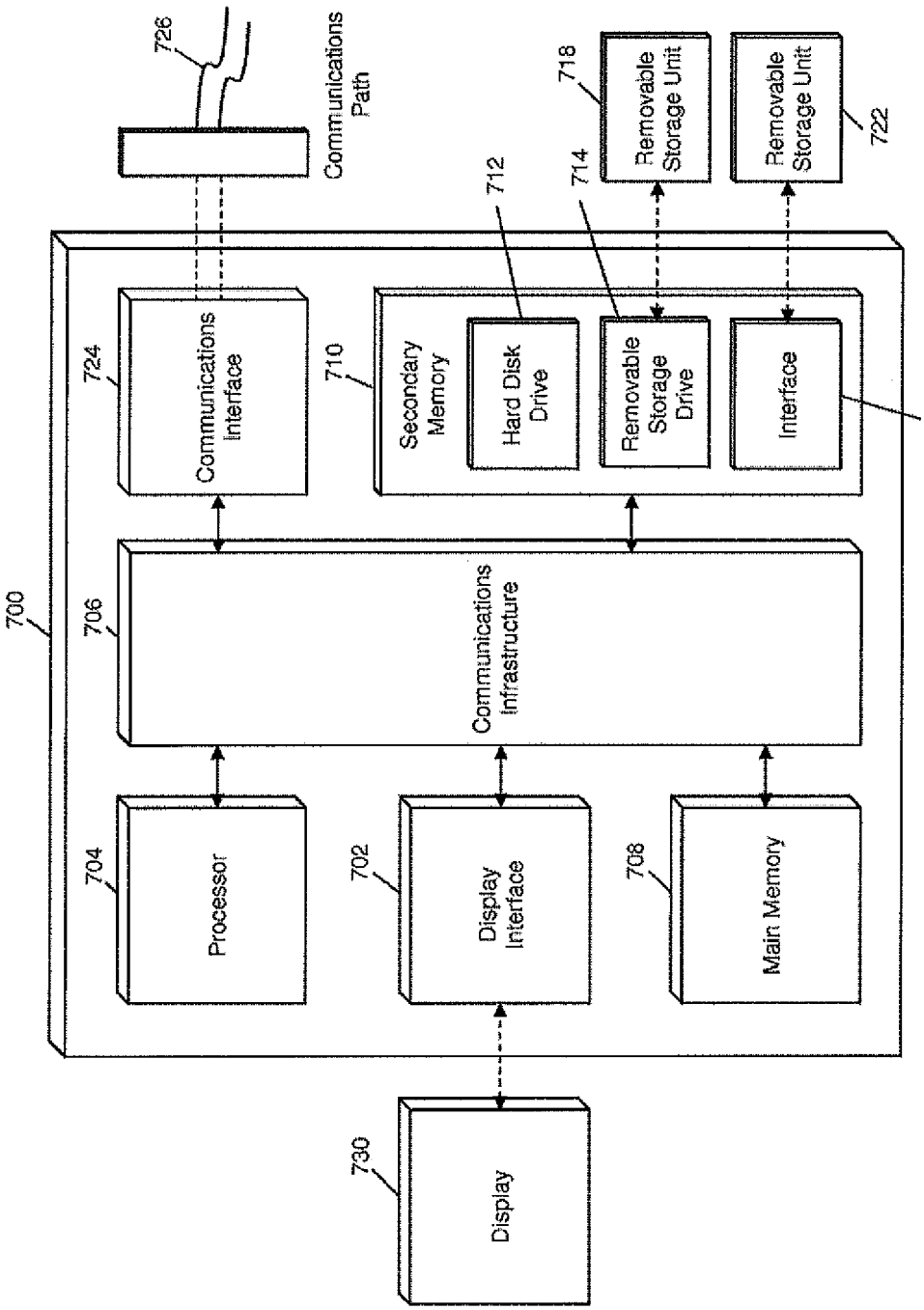
726
Communications Path
718
Removable Storage Unit
722
Removable Storage Unit
712
714
724
Communications Interface
710
Secondary Memory
Hard Disk Drive
Removable Storage Drive
Interface
720
700
706
Communications Infrastructure
704
Processor
702
Display Interface
708
Main Memory
730
Display

FIG. 7