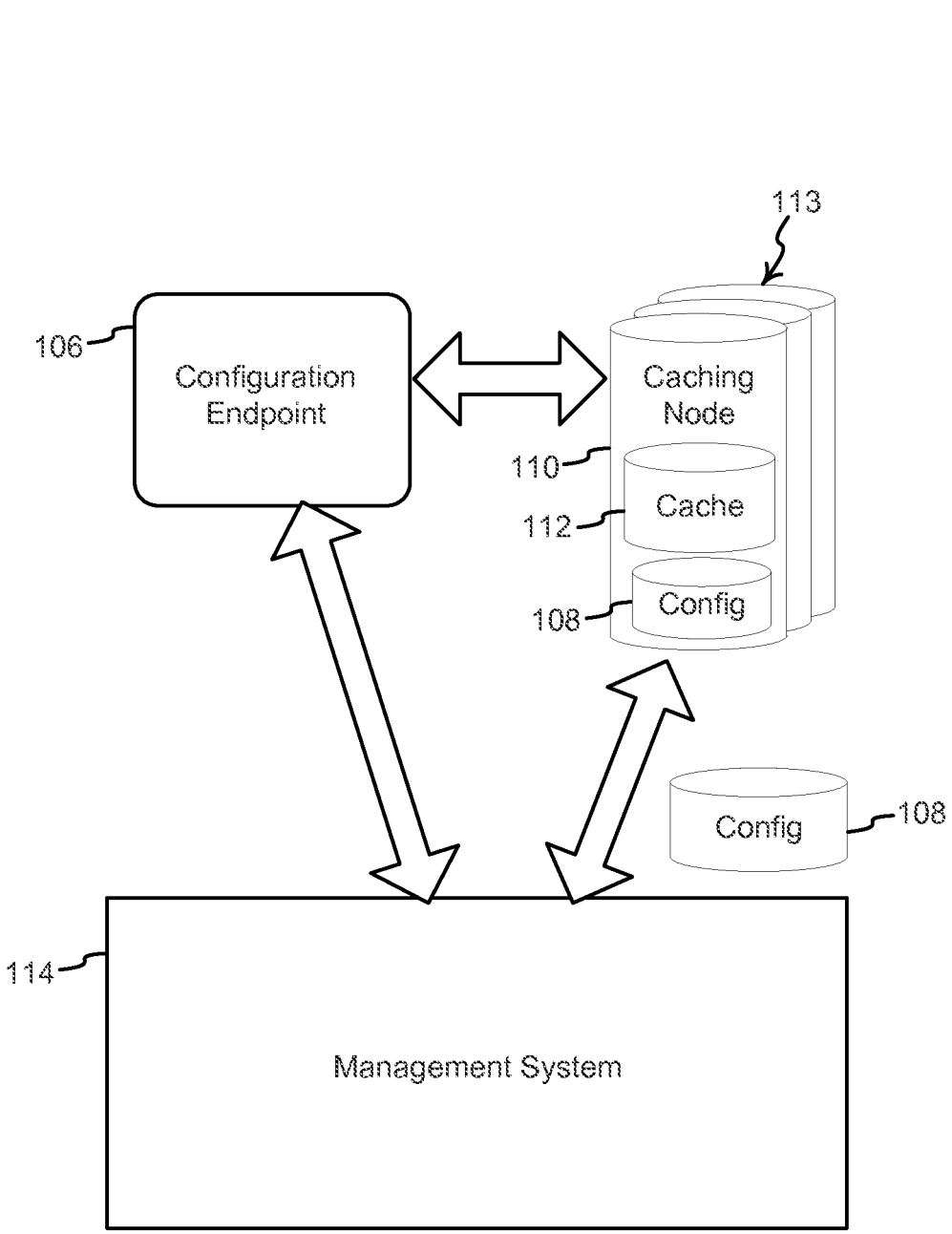
100
113
106
Configuration Endpoint
Caching Node
110
Cache
112
Config
108
Config
108
114
Management System

FIG. 1

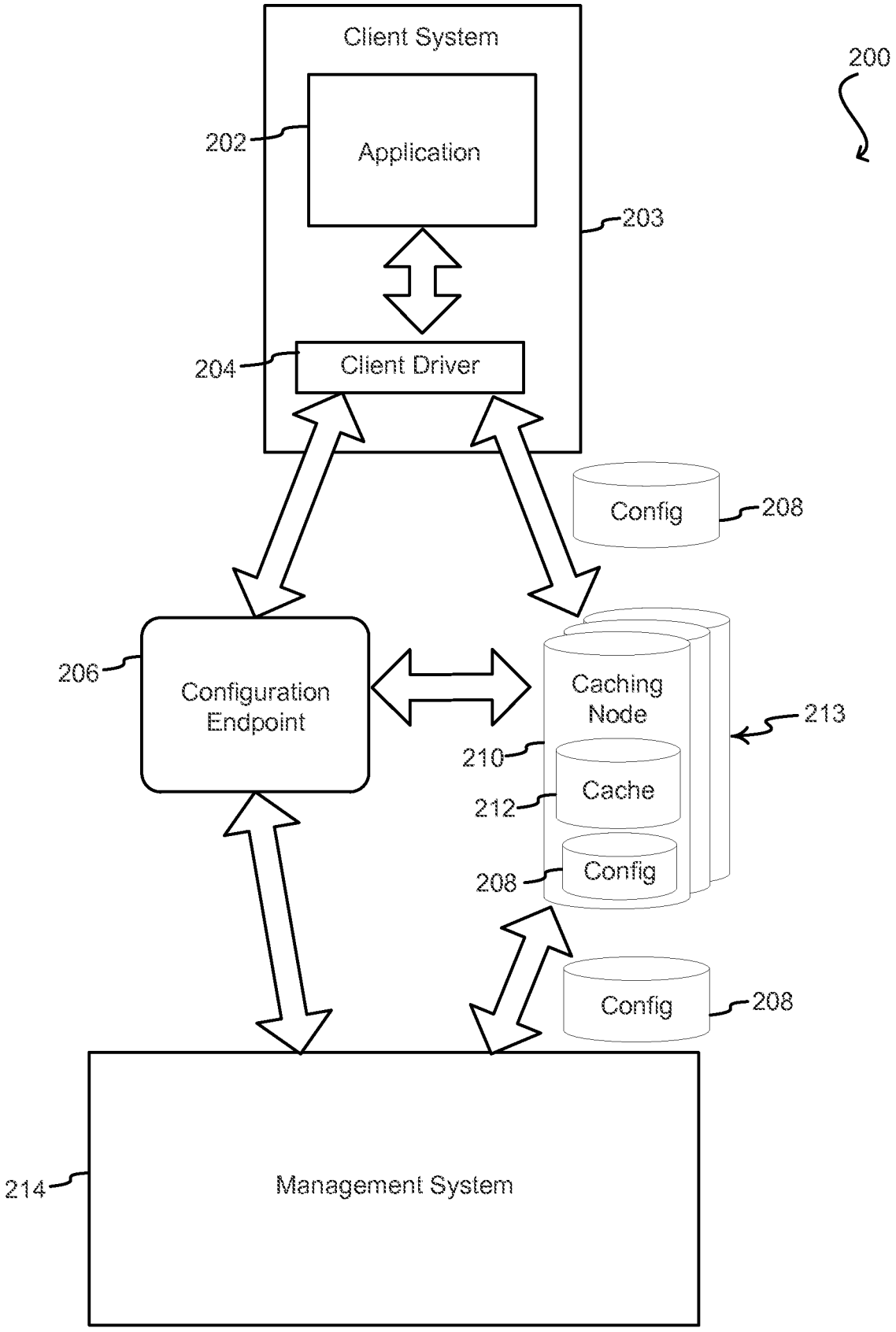
Client System
200
202
Application
203
204
Client Driver
Config
208
206
Configuration Endpoint
Caching Node
213
210
Cache
212
Config
208
Config
208
214
Management System

FIG. 2

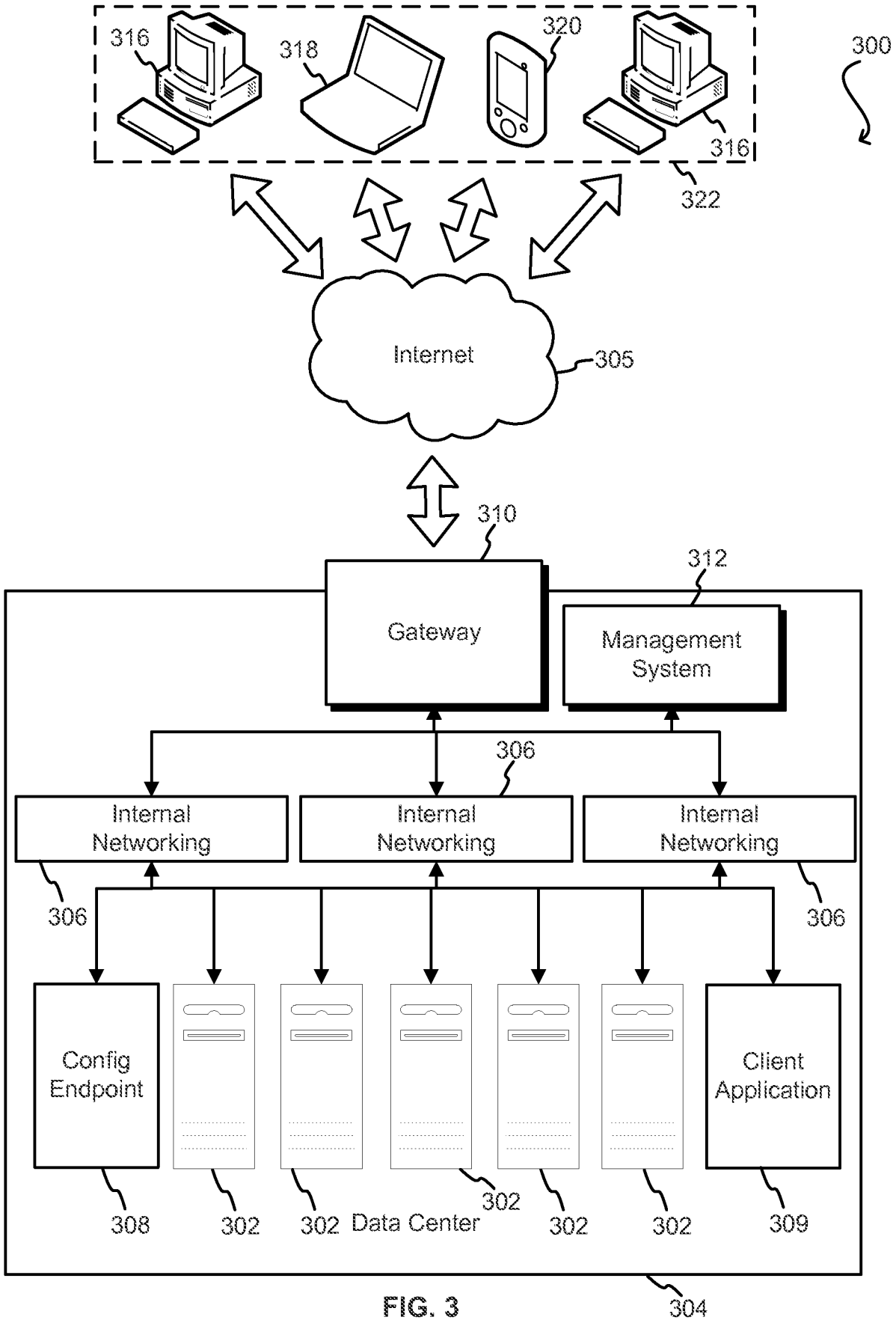
316
318
320
316
300
322
Internet
305
310
312
Gateway
Management System
306
Internal Networking
Internal Networking
Internal Networking
306
306
Config Endpoint
Client Application
308
302
302
302
302
302
309
Data Center
304

FIG. 3

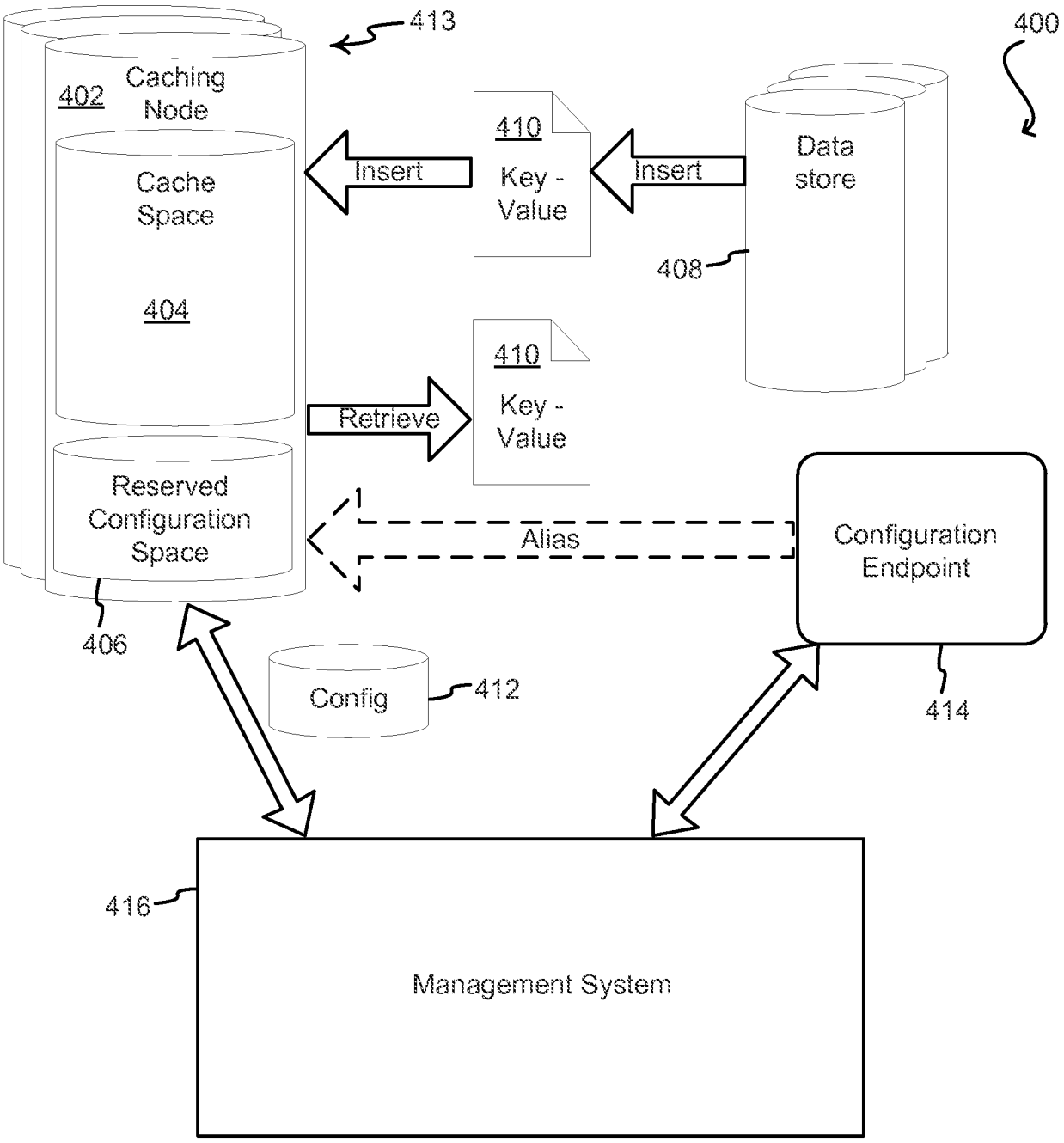
413
400
402
Caching Node
Cache Space
404
Insert
410
Key - Value
Insert
Data store
408
410
Key - Value
Retrieve
Reserved Configuration Space
Alias
Configuration Endpoint
406
Config
412
414
416
Management System

FIG. 4

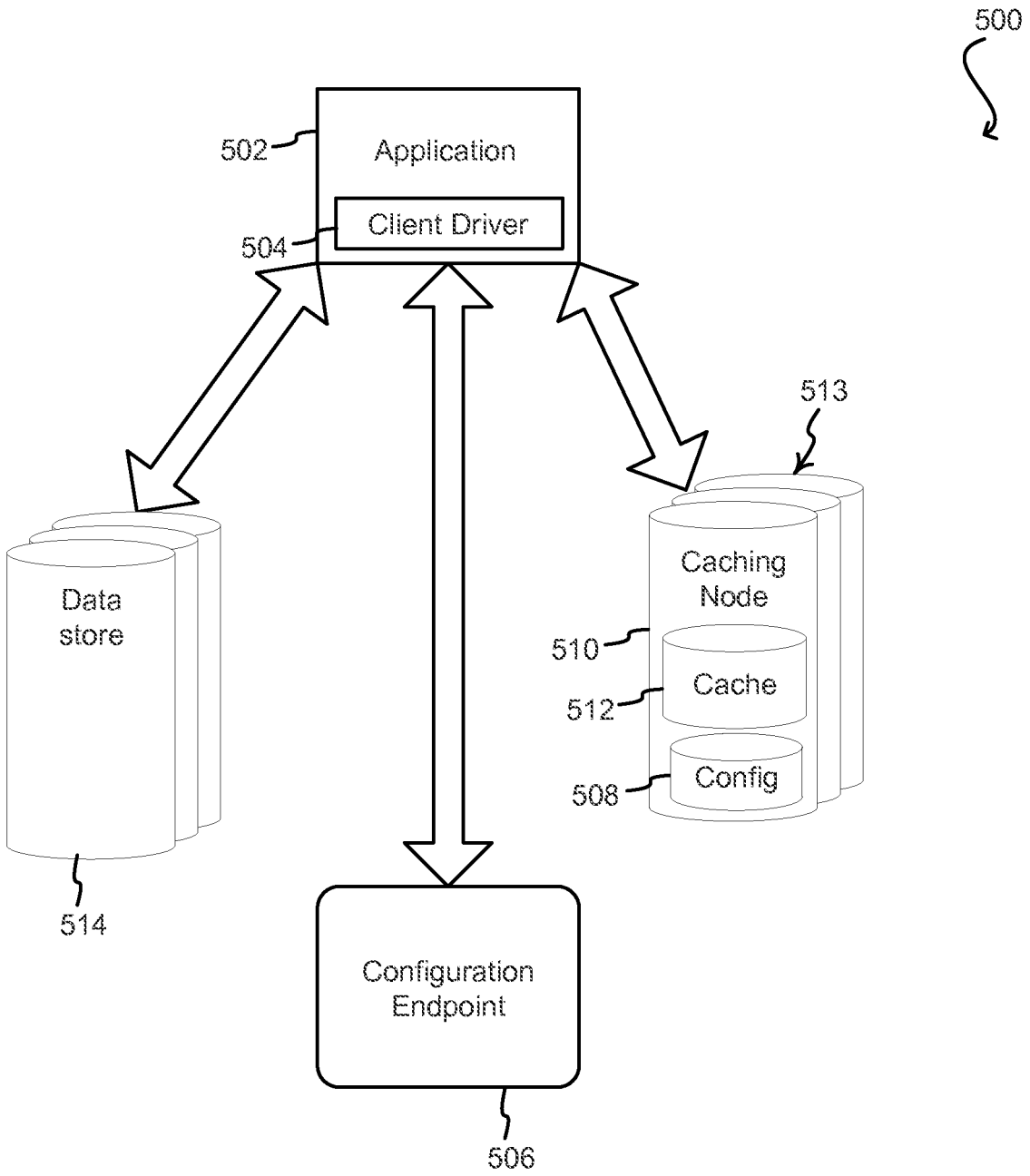
500
502
Application
Client Driver
504
513
Caching Node
510
Cache
512
Config
508
Data store
514
Configuration Endpoint
506

FIG. 5

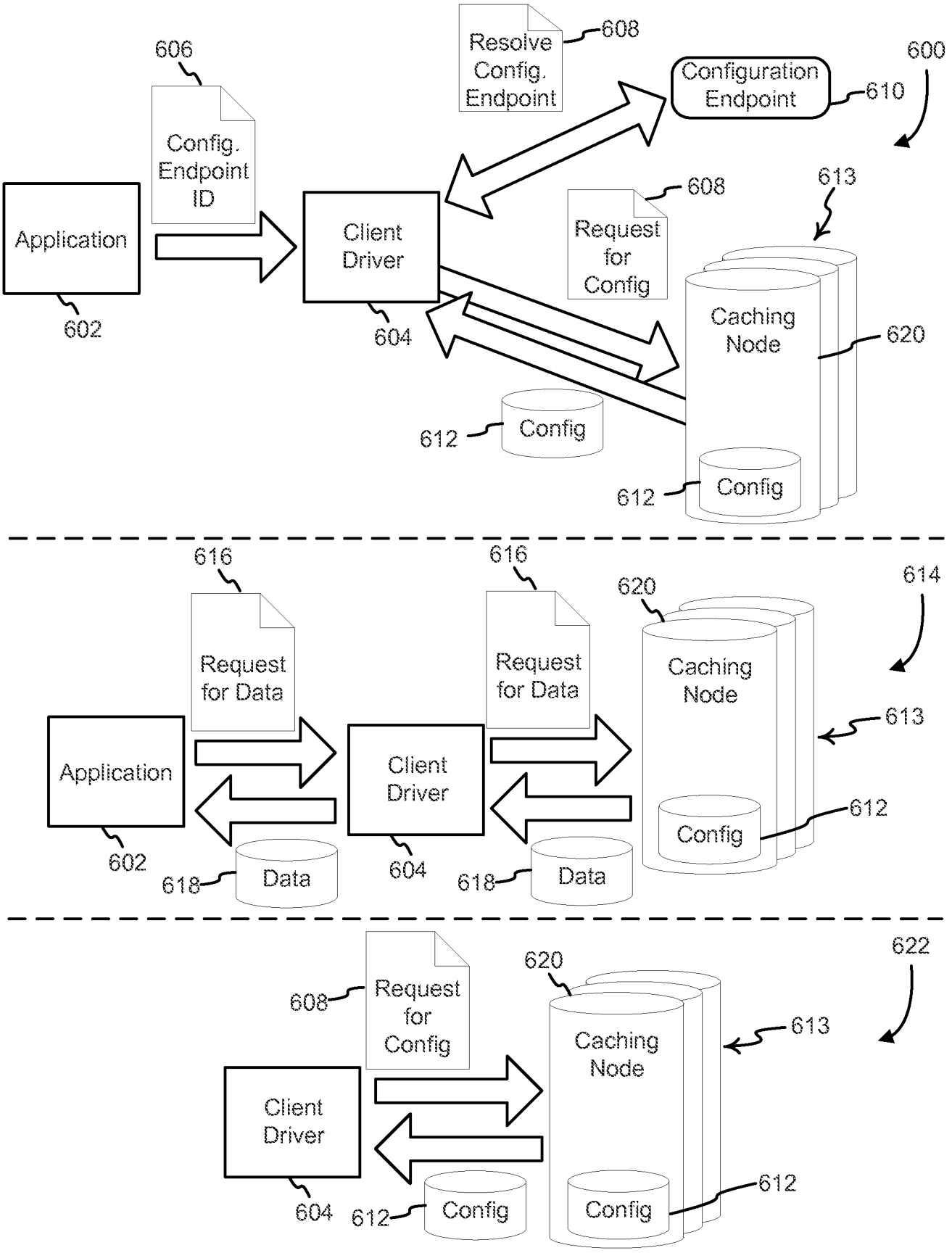
606
Config. Endpoint ID
Application
602
Client Driver
604
Resolve Config. Endpoint
608
Configuration Endpoint
610
600
608
Request for Config
613
Caching Node
620
612
Config
612
Config
616
Request for Data
Application
602
618
Data
Client Driver
604
616
Request for Data
618
Data
620
Caching Node
614
613
612
Config
608
Request for Config
Client Driver
604
612
Config
620
Caching Node
622
613
612
Config

FIG. 6

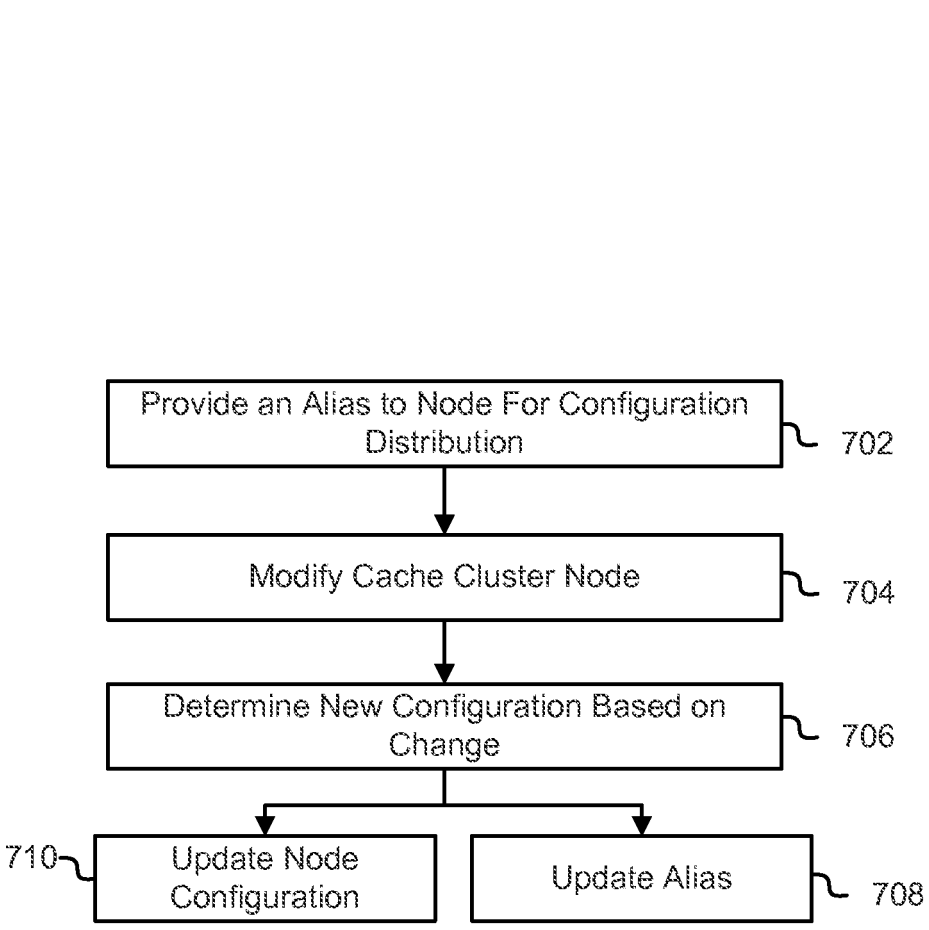
700
Provide an Alias to Node For Configuration Distribution
702
Modify Cache Cluster Node
704
Determine New Configuration Based on Change
706
710
Update Node Configuration
Update Alias
708

FIG. 7

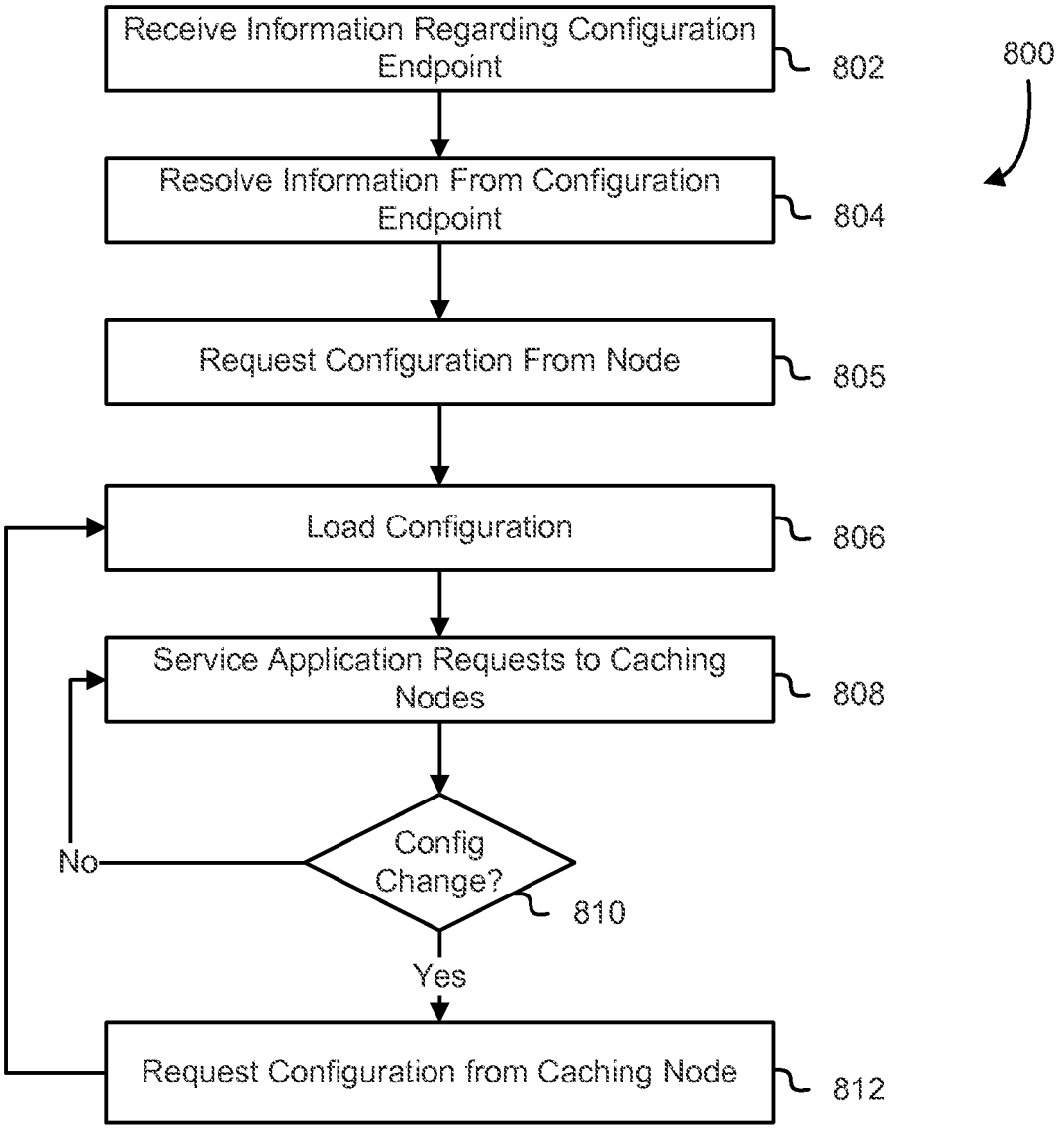
Receive Information Regarding Configuration Endpoint
802
800
Resolve Information From Configuration Endpoint
804
Request Configuration From Node
805
Load Configuration
806
Service Application Requests to Caching Nodes
808
Config Change?
810
No
Yes
Request Configuration from Caching Node
812

FIG. 8

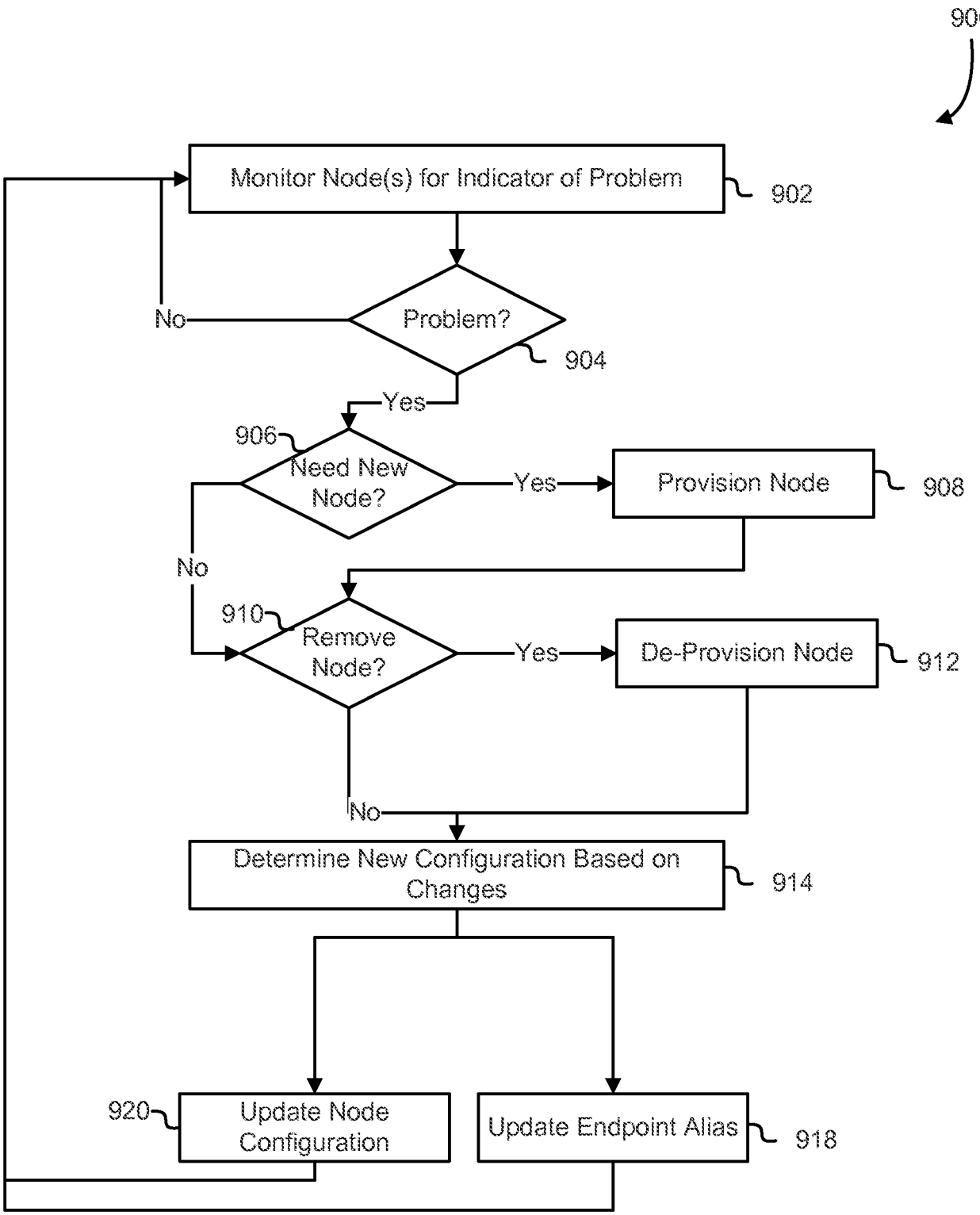
900
Monitor Node(s) for Indicator of Problem
902
Problem?
904
No
Yes
906
Need New Node?
Yes
Provision Node
908
No
910
Remove Node?
Yes
De-Provision Node
912
No
Determine New Configuration Based on Changes
914
920
Update Node Configuration
Update Endpoint Alias
918

FIG. 9

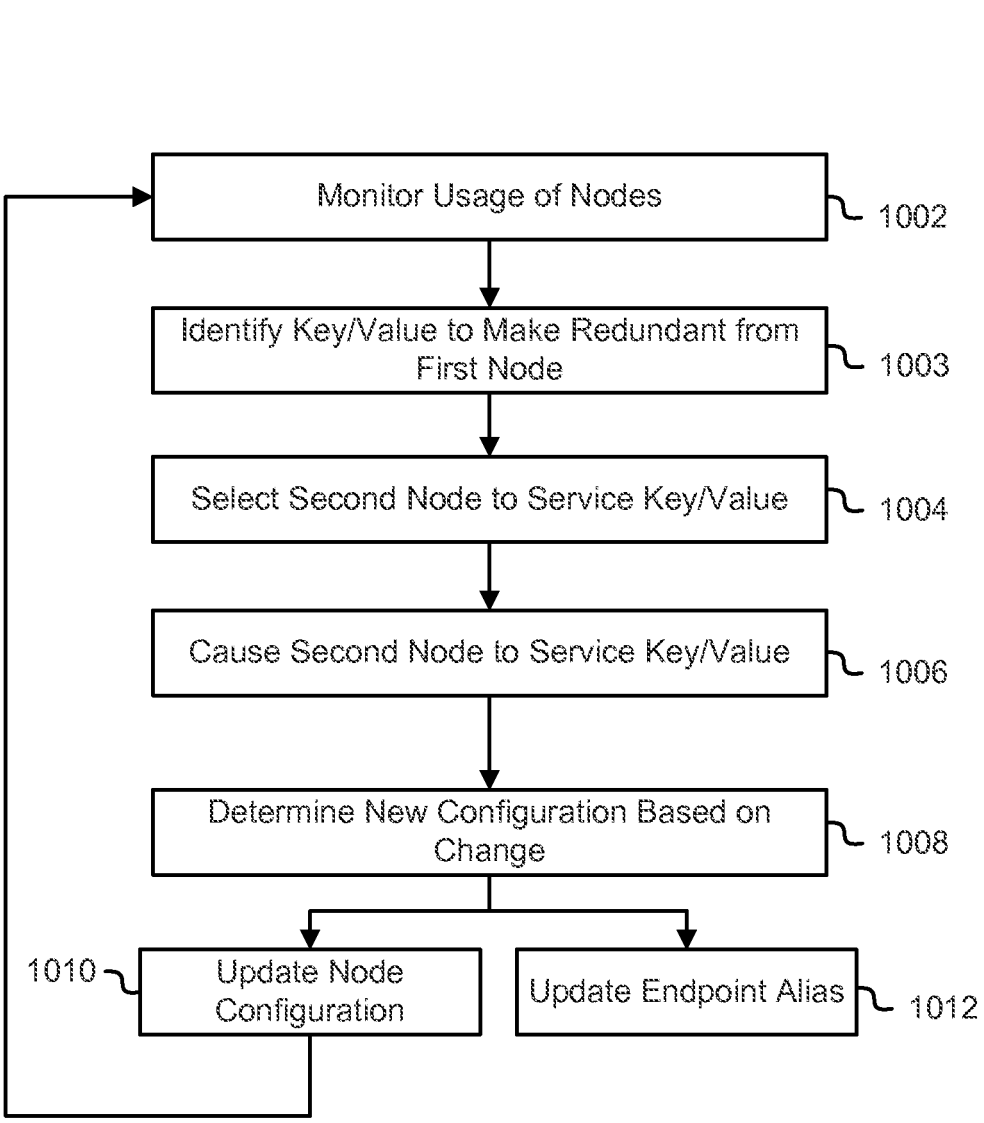
1000
Monitor Usage of Nodes
1002
Identify Key/Value to Make Redundant from First Node
1003
Select Second Node to Service Key/Value
1004
Cause Second Node to Service Key/Value
1006
Determine New Configuration Based on Change
1008
1010
Update Node Configuration
Update Endpoint Alias
1012

FIG. 10

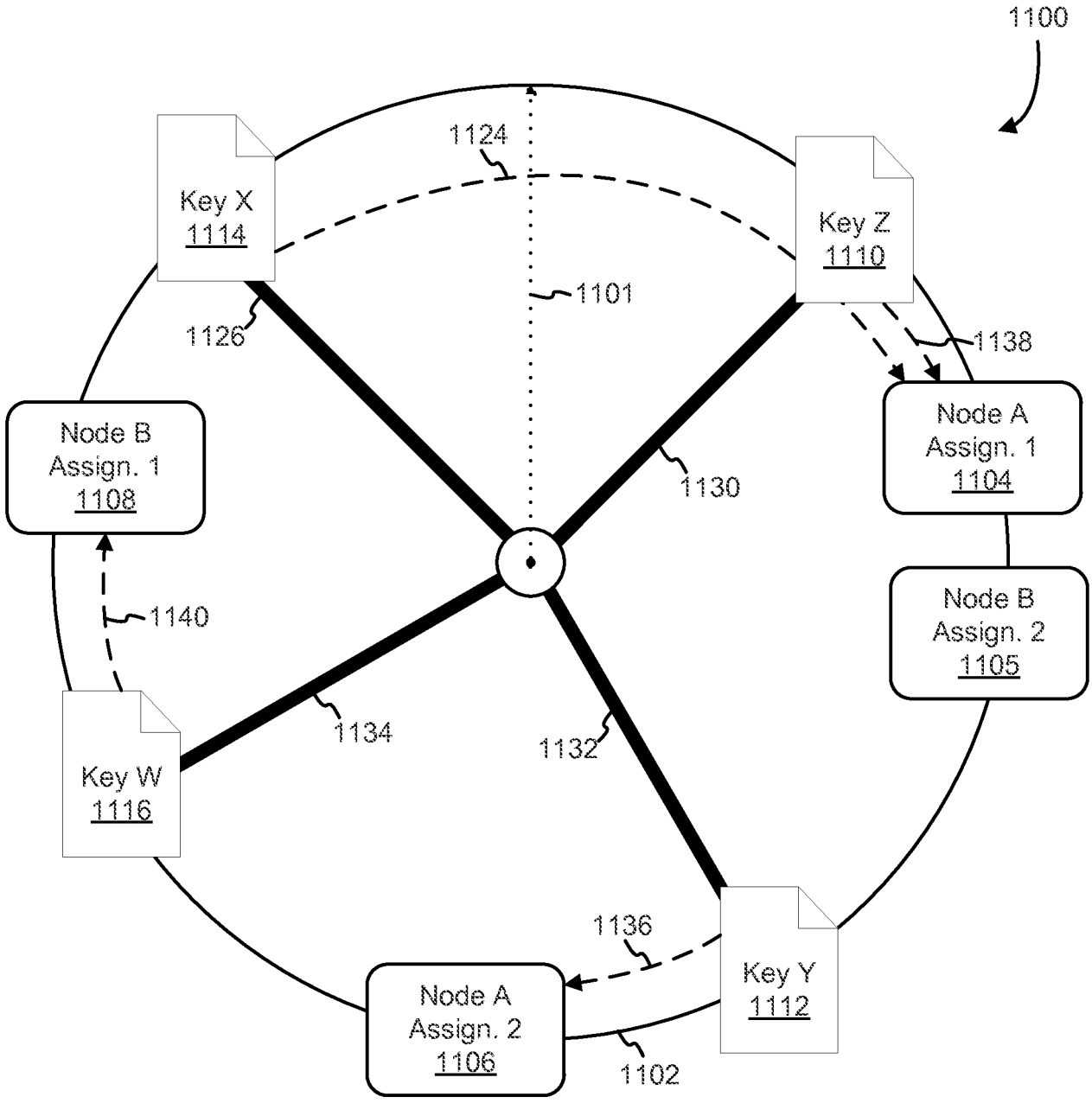
1100
1124
Key X
1114
Key Z
1110
1101
1126
1138
Node B
Assign. 1
1108
Node A
Assign. 1
1104
1130
1140
Node B
Assign. 2
1105
1134
1132
Key W
1116
1136
Key Y
1112
Node A
Assign. 2
1106
1102

FIG. 11

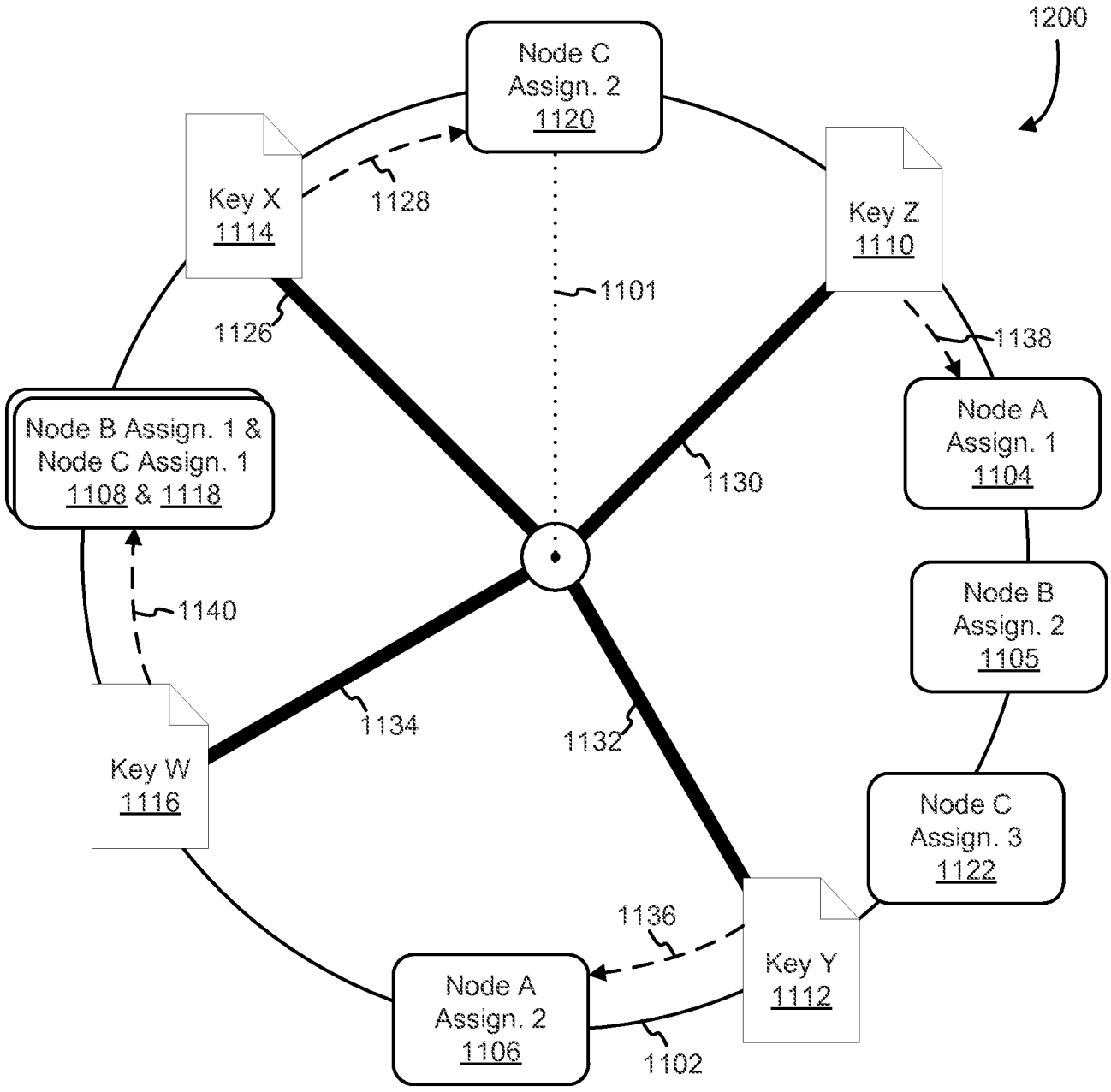
1200
Node C
Assign. 2
1120
Key X
1114
1128
Key Z
1110
1101
1126
1138
Node B Assign. 1 &
Node C Assign. 1
1108 & 1118
1130
Node A
Assign. 1
1104
Node B
Assign. 2
1105
1140
1134
1132
Key W
1116
Node C
Assign. 3
1122
1136
Key Y
1112
Node A
Assign. 2
1106
1102

FIG. 12

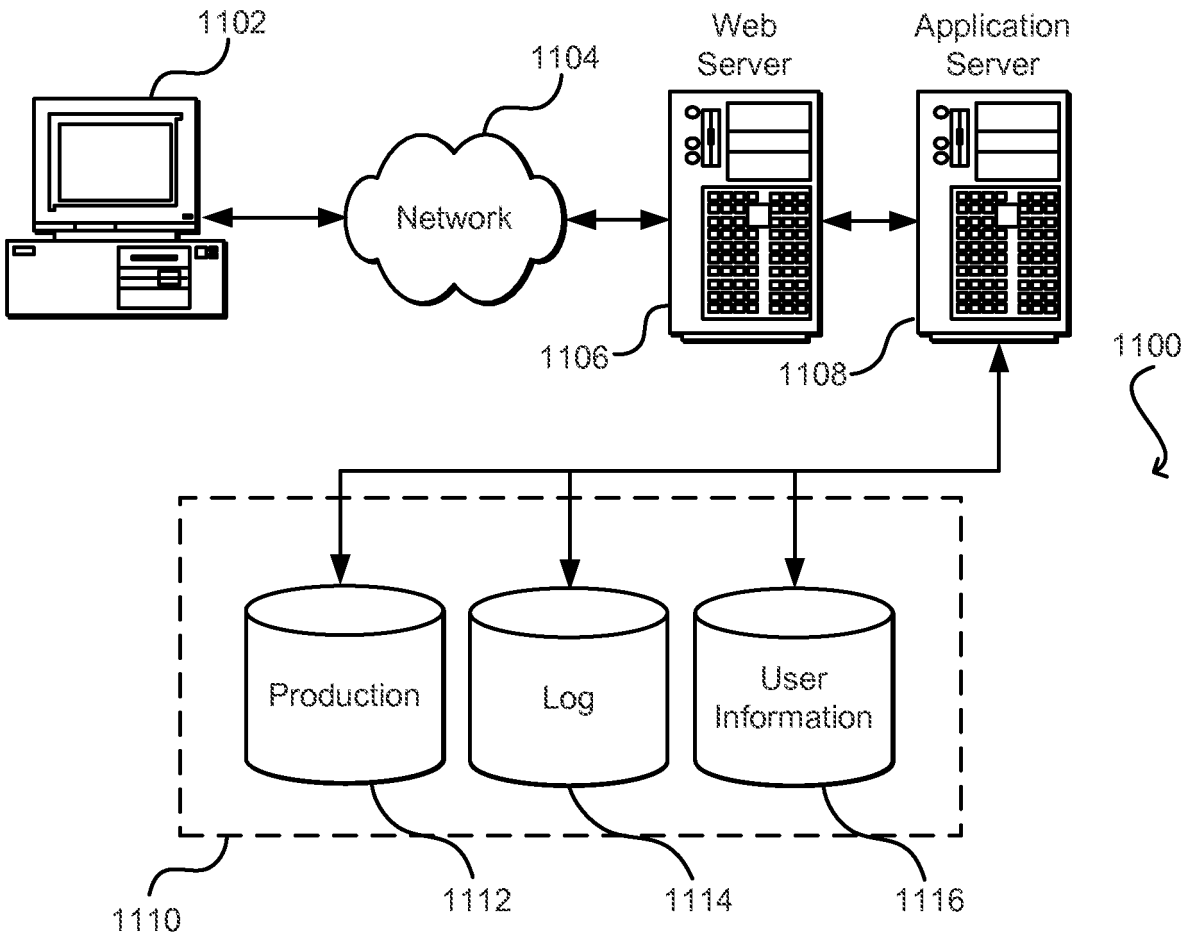
1102
1104
Web Server
Application Server
Network
1106
1108
1100
Production
Log
User Information
1110
1112
1114
1116

FIG. 13