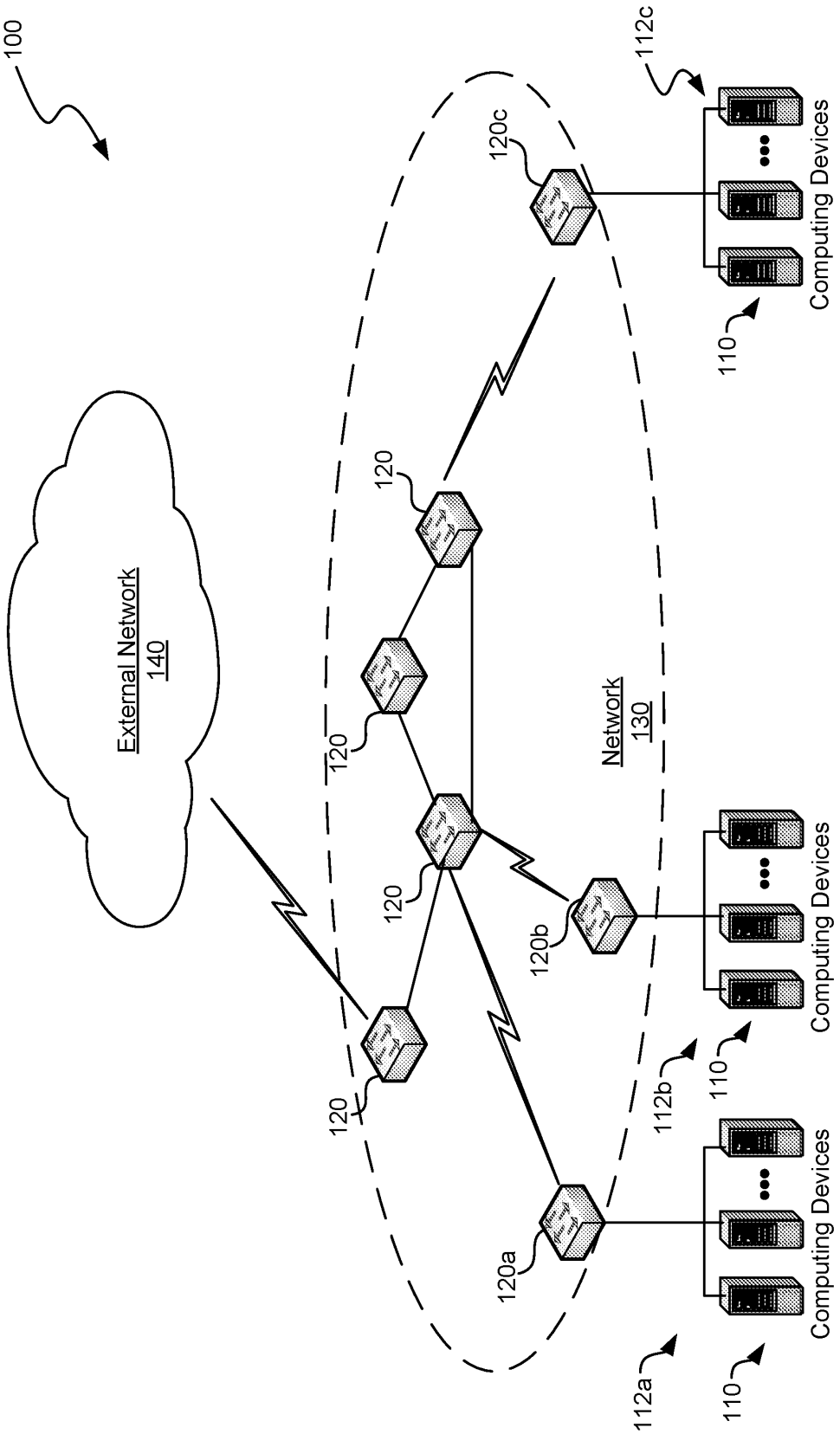
100
External Network
140
Network
130
120
120
120
120
120a
120b
120c
110
110
110
112a
112b
112c
Computing Devices
Computing Devices
Computing Devices

*FIG. 1*

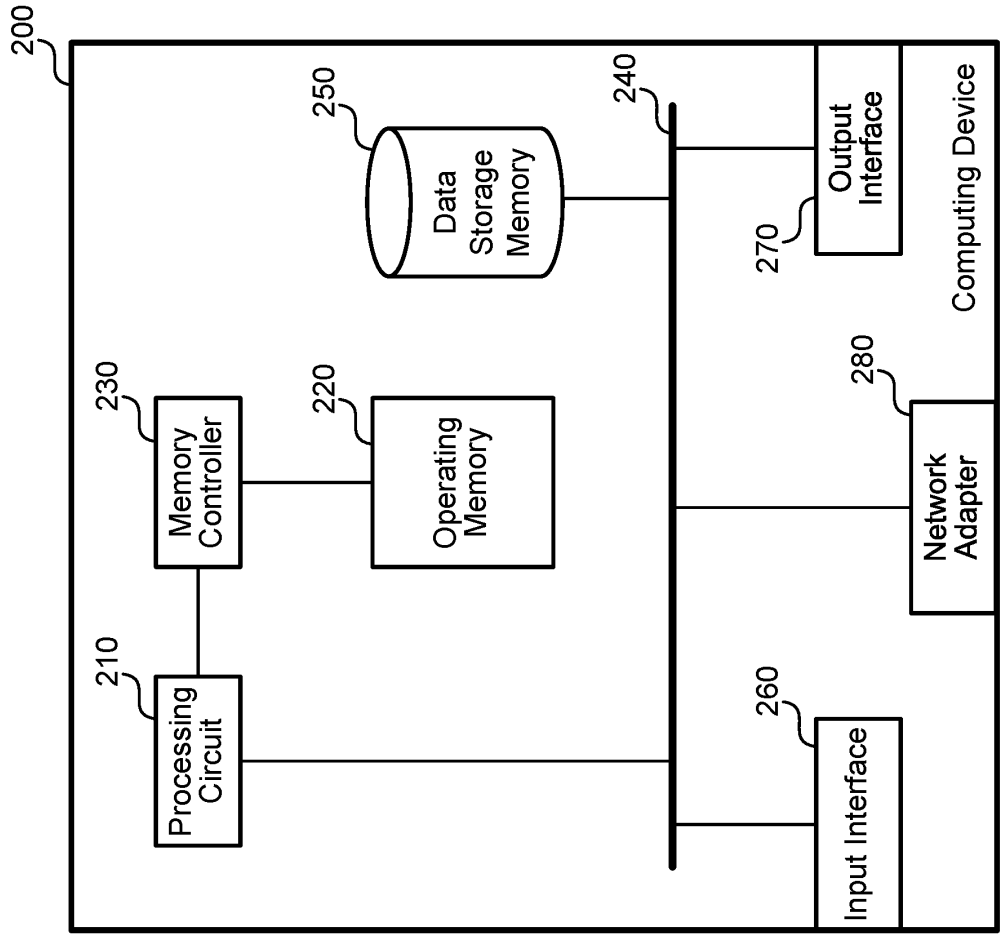
200
Computing Device
250
Data Storage Memory
240
Output Interface
270
230
Memory Controller
220
Operating Memory
280
Network Adapter
210
Processing Circuit
260
Input Interface

*FIG. 2*

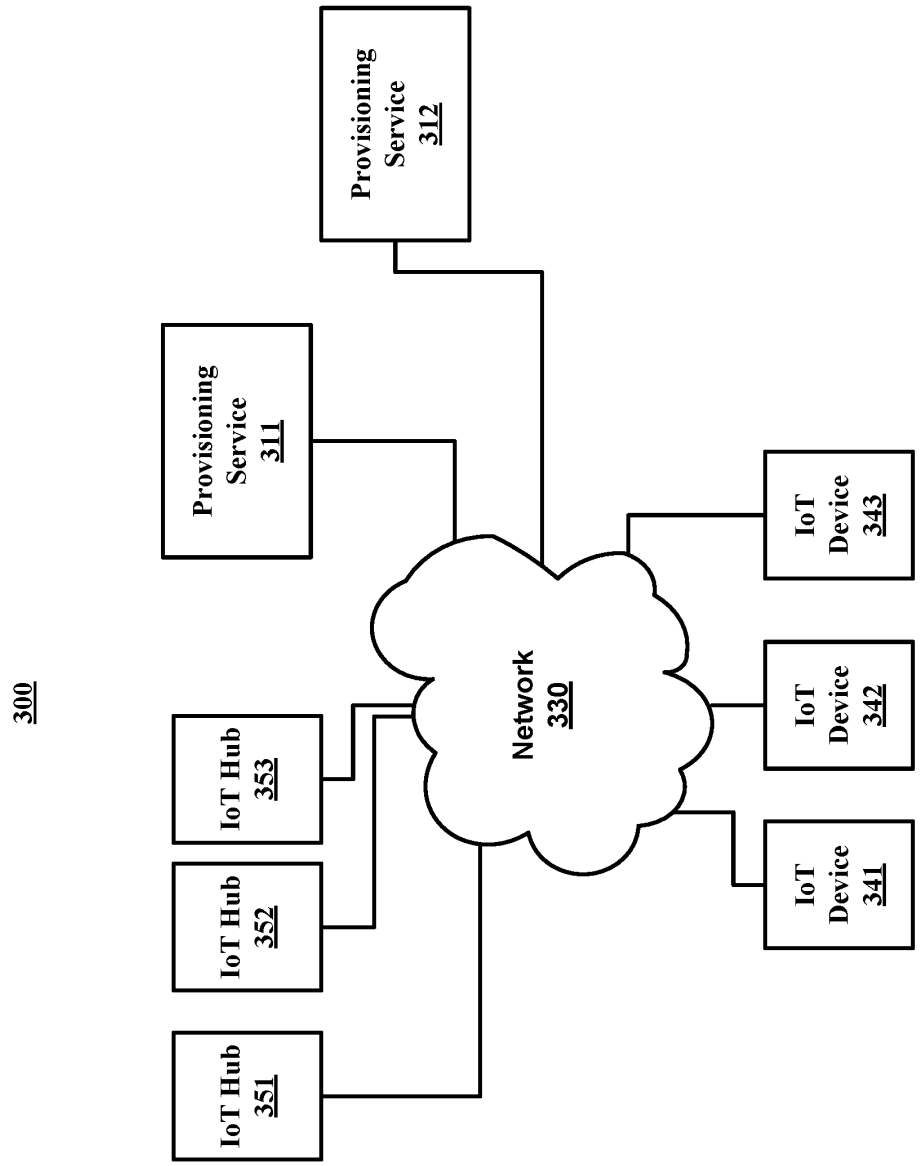
300
Provisioning Service 312
Provisioning Service 311
IoT Hub 353
IoT Hub 352
IoT Hub 351
Network 330
IoT Device 343
IoT Device 342
IoT Device 341

*FIG. 3*

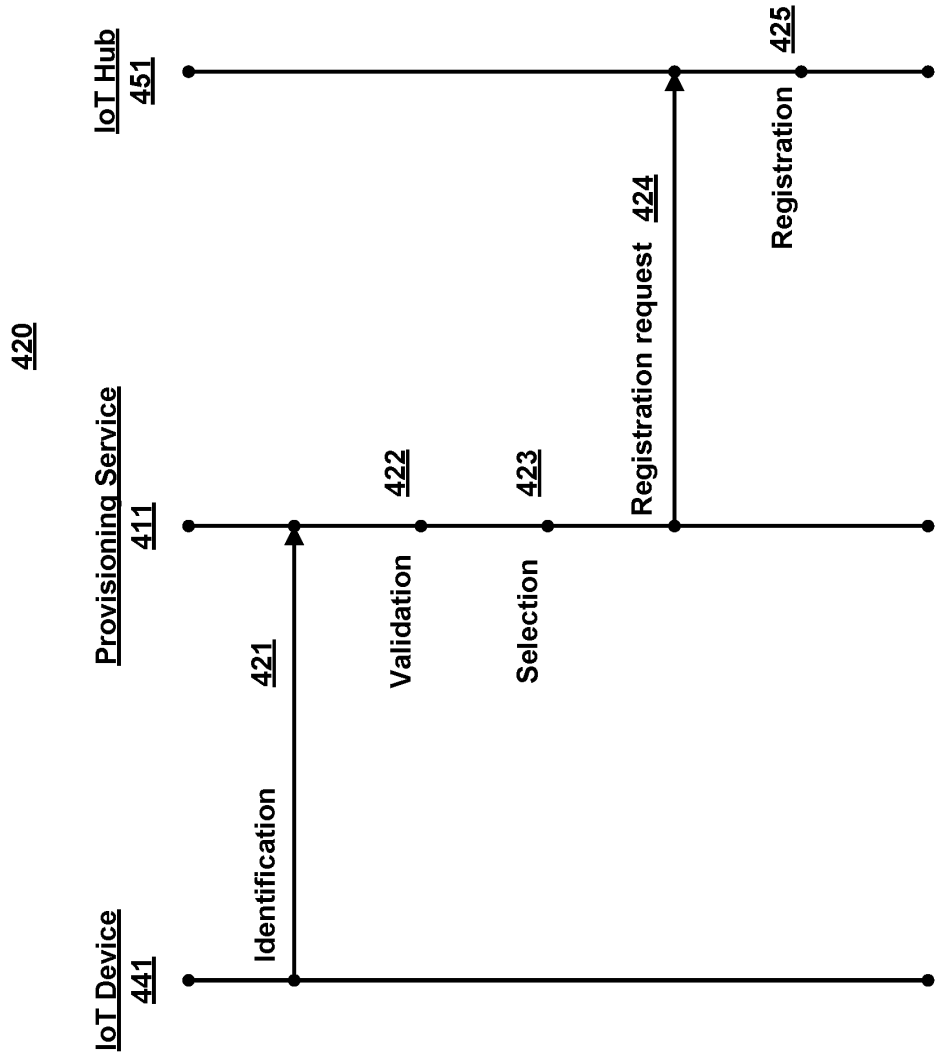
420
IoT Device
441
Provisioning Service
411
IoT Hub
451
Identification
421
Validation
422
Selection
423
Registration request
424
Registration
425

*FIG. 4*

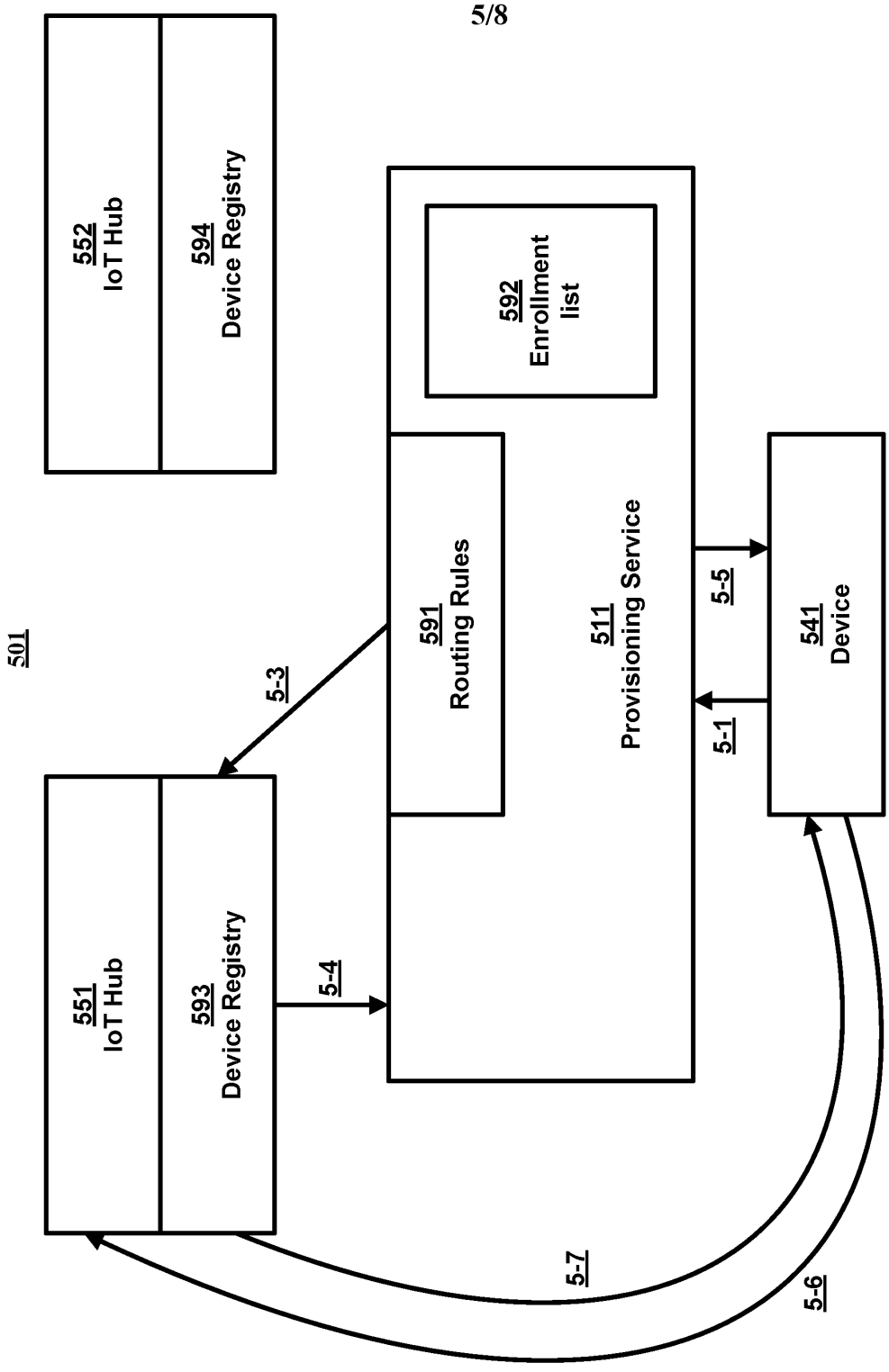
552
IoT Hub
594
Device Registry
592
Enrollment
list
591
Routing Rules
511
Provisioning Service
541
Device
501
5-3
5-5
5-1
551
IoT Hub
593
Device Registry
5-4
5-7
5-6

*FIG. 5*

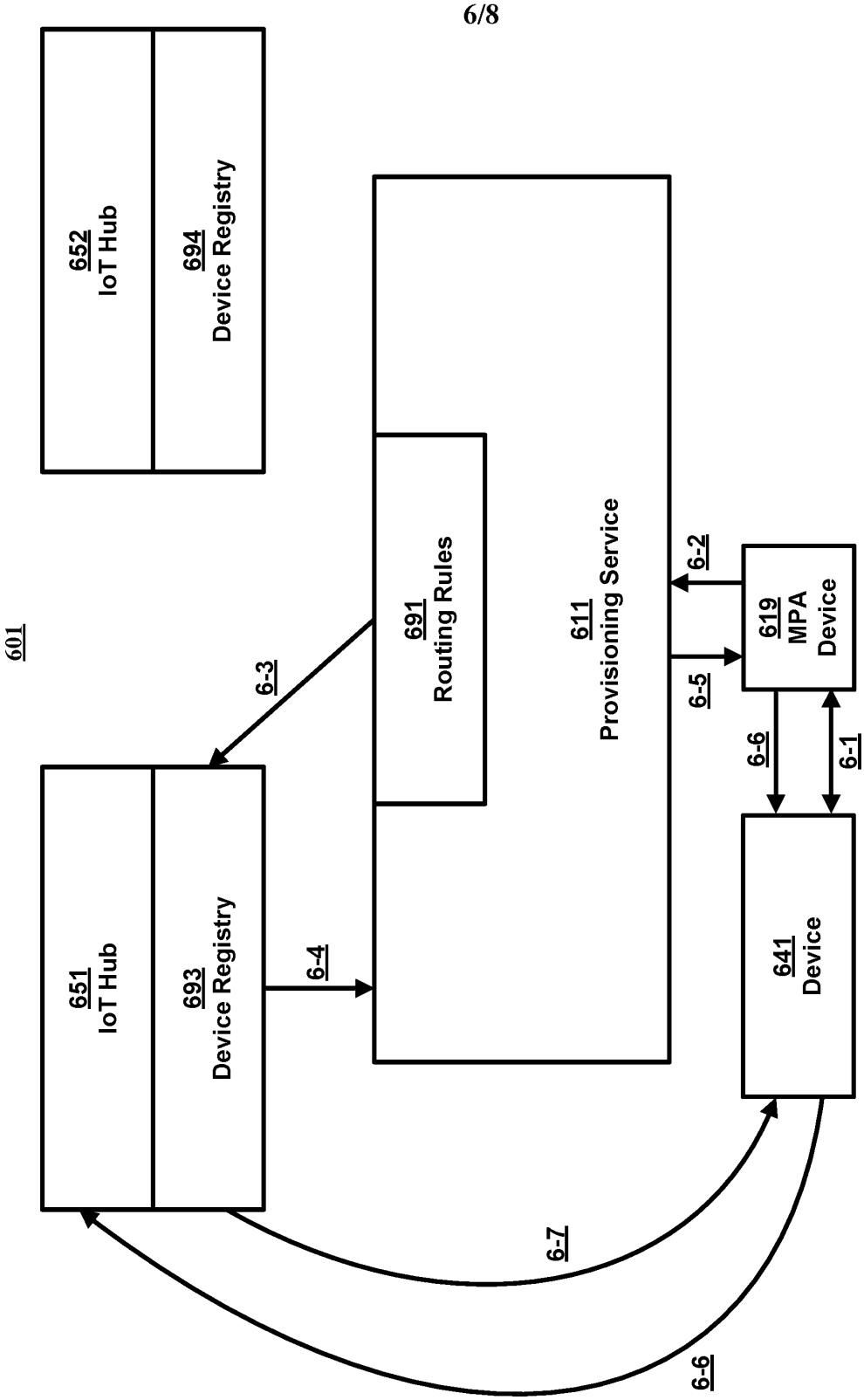
601
652
IoT Hub
694
Device Registry
691
Routing Rules
611
Provisioning Service
619
MPA
Device
651
IoT Hub
693
Device Registry
641
Device
6-1
6-2
6-3
6-4
6-5
6-6
6-7
6-6

*FIG. 6*

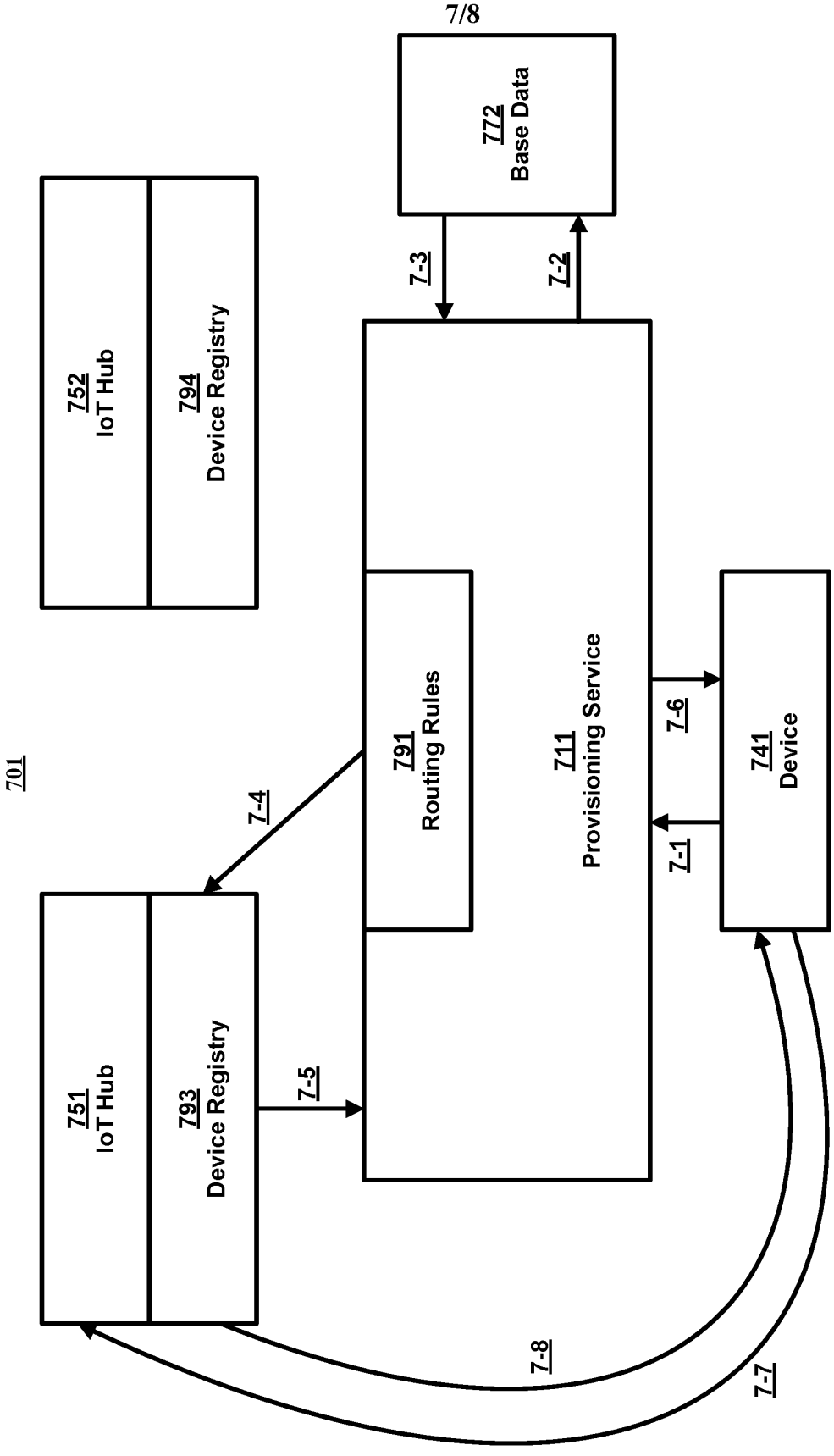
701
772
Base Data
752
IoT Hub
794
Device Registry
Z-3
Z-2
791
Routing Rules
711
Provisioning Service
741
Device
Z-6
Z-1
Z-4
751
IoT Hub
793
Device Registry
Z-5
Z-8
Z-7

*FIG. 7*

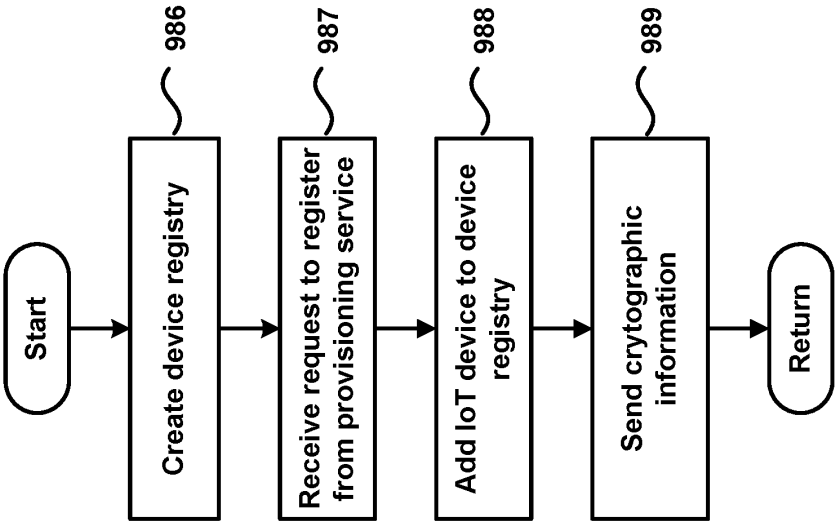
985
986
987
988
989
Start
Create device registry
Receive request to register from provisioning service
Add IoT device to device registry
Send crytographic information
Return

FIG. 9

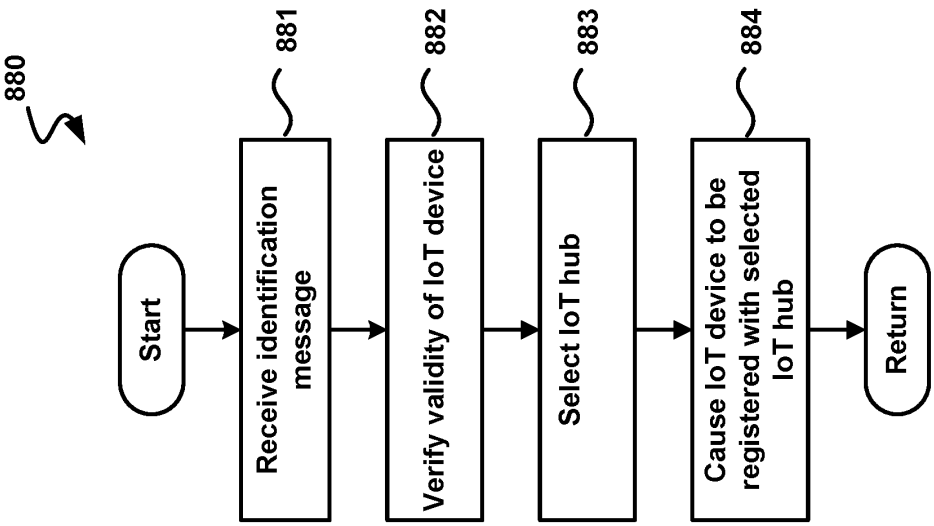
880
881
882
883
884
Start
Receive identification message
Verify validity of IoT device
Select IoT hub
Cause IoT device to be registered with selected IoT hub
Return

FIG. 8