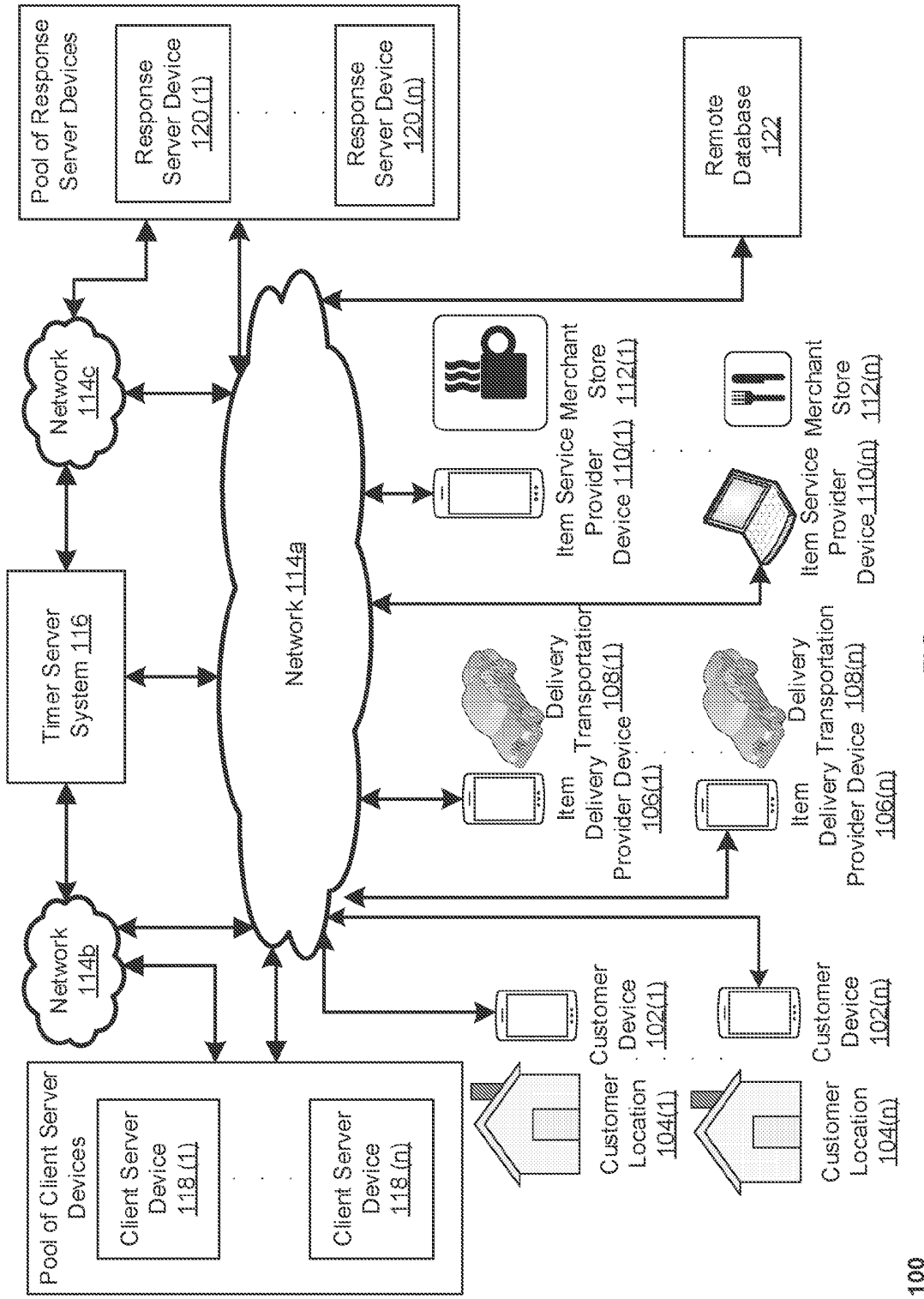
Pool of Response Server Devices
Response Server Device 120 (1)
Response Server Device 120 (n)
Remote Database 122
Network 114c
Timer Server System 116
Network 114a
Item Service Merchant Provider Device 110(1)
Store 112(1)
Item Service Merchant Provider Device 110(n)
Store 112(n)
Item Delivery Transportation Provider Device 108(1)
Delivery 106(1)
Item Delivery Transportation Provider Device 108(n)
Delivery 106(n)
Network 114b
Customer Device 102(1)
Customer Location 104(1)
Customer Device 102(n)
Customer Location 104(n)
Pool of Client Server Devices
Client Server Device 118 (1)
Client Server Device 118 (n)
100

FIG. 1

200

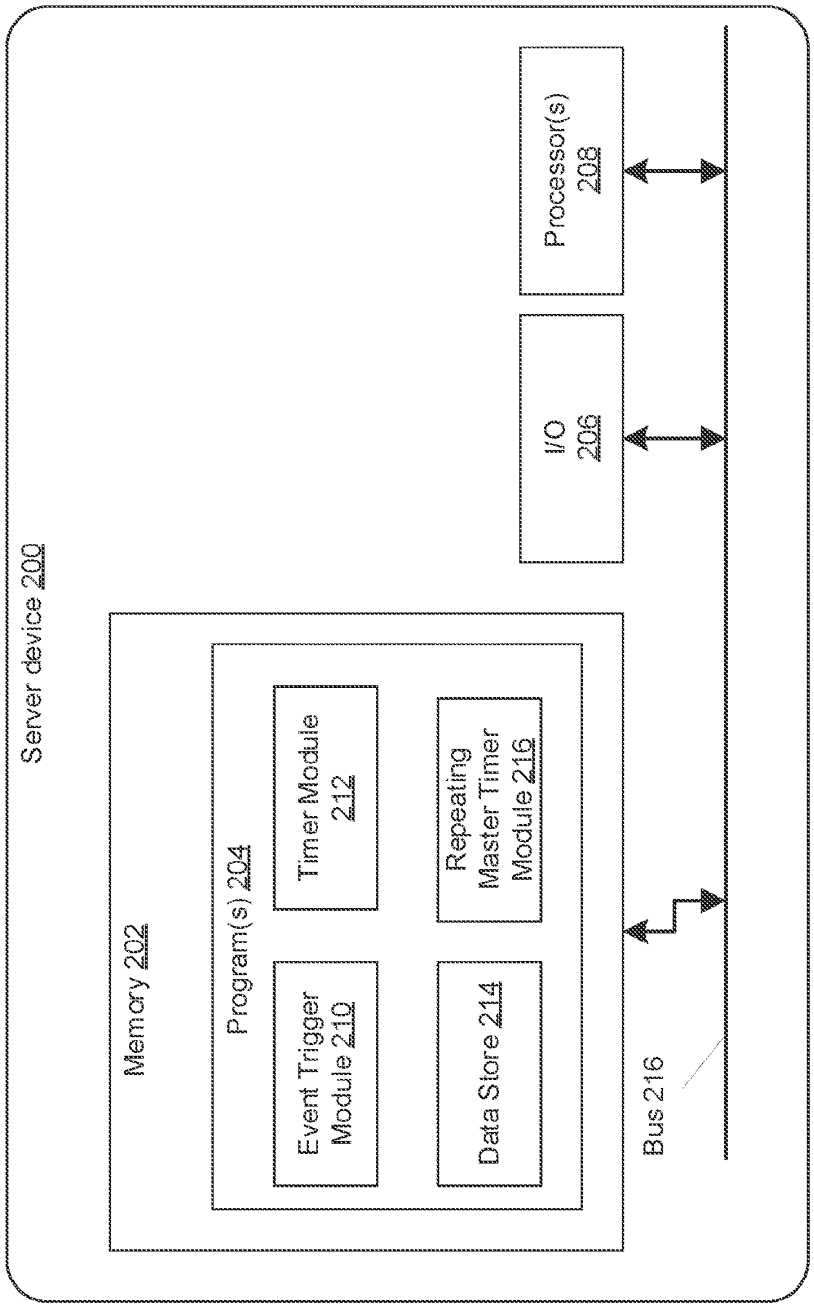
Server device 200
Memory 202
Program(s) 204
Event Trigger Module 210
Timer Module 212
Data Store 214
Repeating Master Timer Module 216
Bus 216
I/O 206
Processor(s) 208

FIG. 2

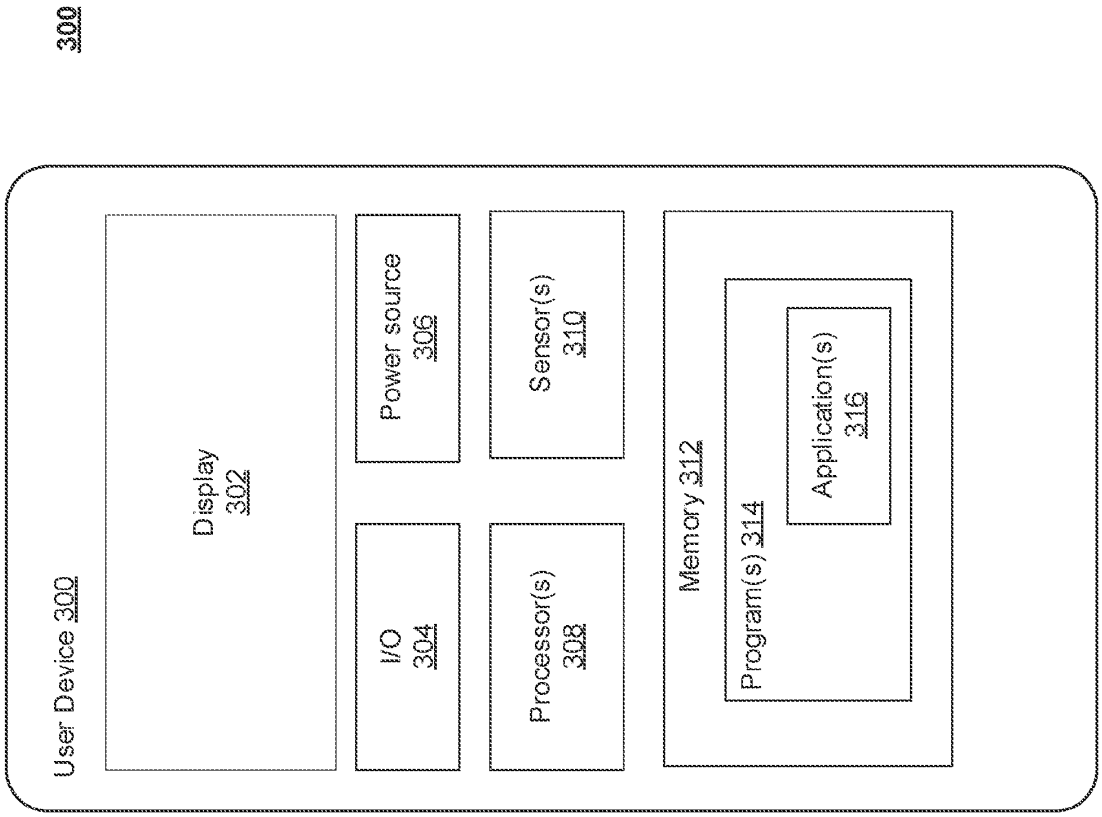
300
User Device 300
Display 302
I/O 304
Power source 306
Processor(s) 308
Sensor(s) 310
Memory 312
Program(s) 314
Application(s) 316

FIG. 3

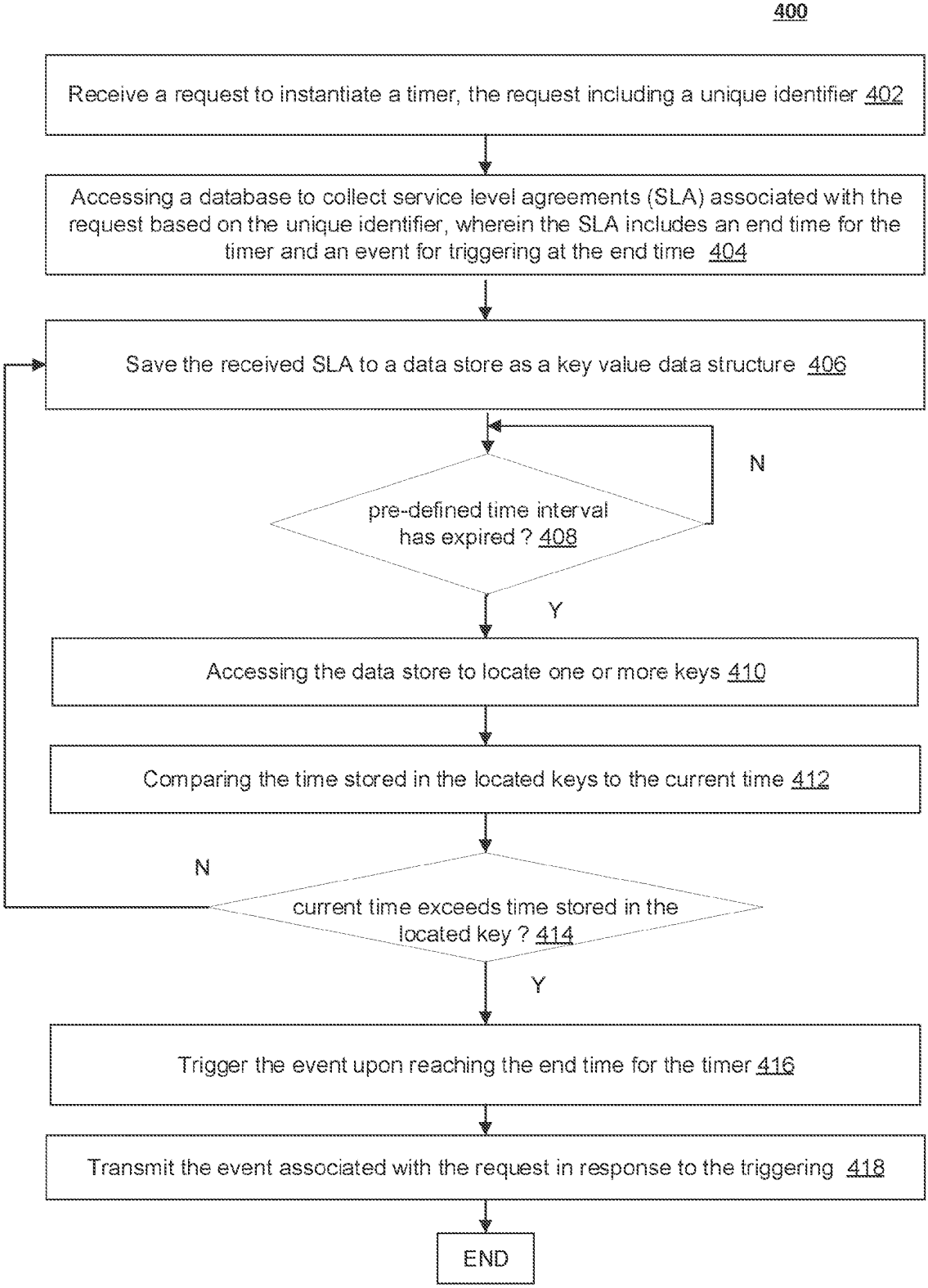
400
Receive a request to instantiate a timer, the request including a unique identifier 402
Accessing a database to collect service level agreements (SLA) associated with the request based on the unique identifier, wherein the SLA includes an end time for the timer and an event for triggering at the end time 404
Save the received SLA to a data store as a key value data structure 406
pre-defined time interval has expired ? 408
N
Y
Accessing the data store to locate one or more keys 410
Comparing the time stored in the located keys to the current time 412
N
current time exceeds time stored in the located key ? 414
Y
Trigger the event upon reaching the end time for the timer 416
Transmit the event associated with the request in response to the triggering 418
END

FIG. 4

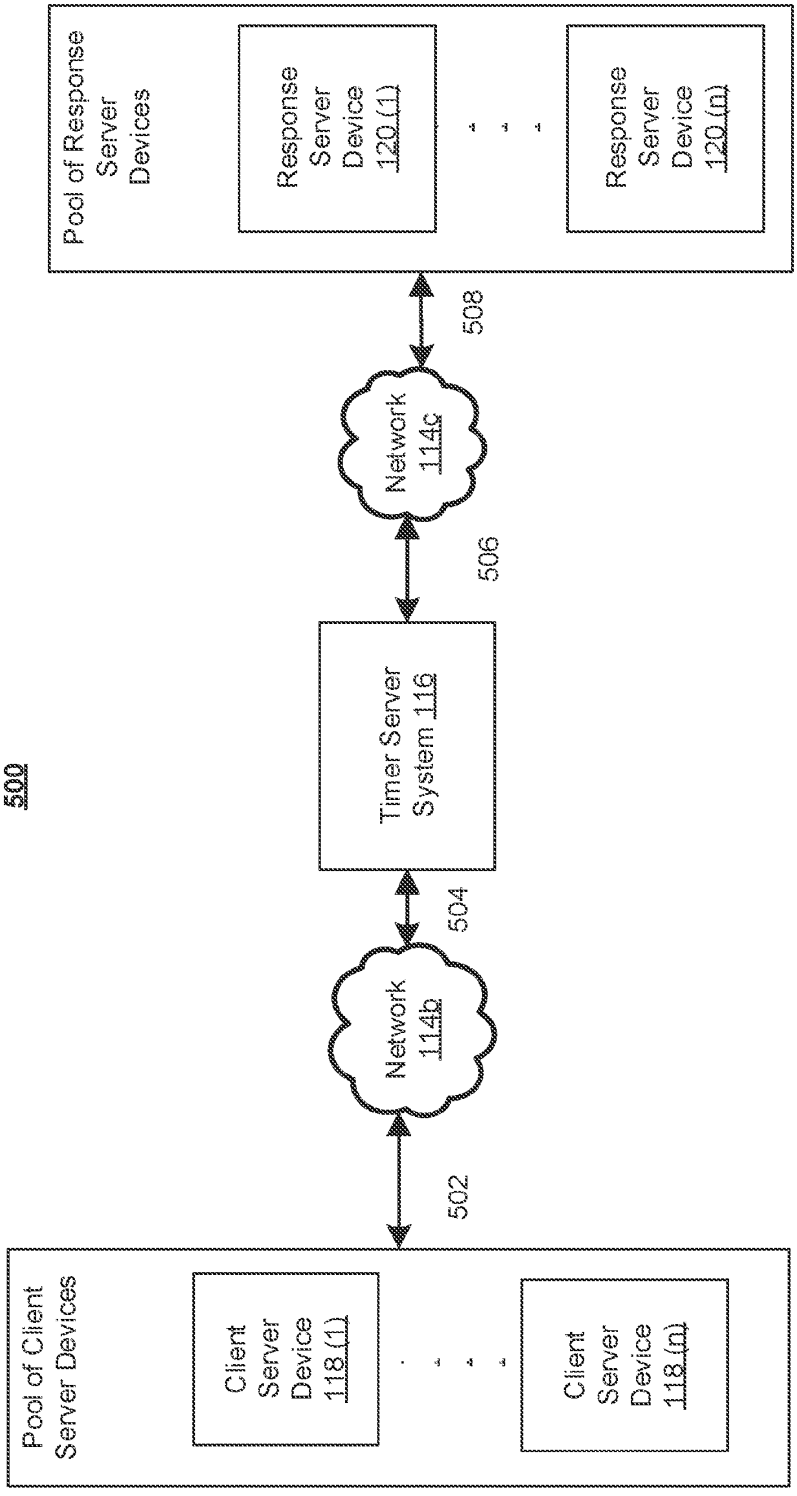
500
Pool of Client Server Devices
Client Server Device 118 (1)
Client Server Device 118 (n)
502
Network 114b
504
Timer Server System 116
506
Network 114c
508
Pool of Response Server Devices
Response Server Device 120 (1)
Response Server Device 120 (n)

FIG. 5