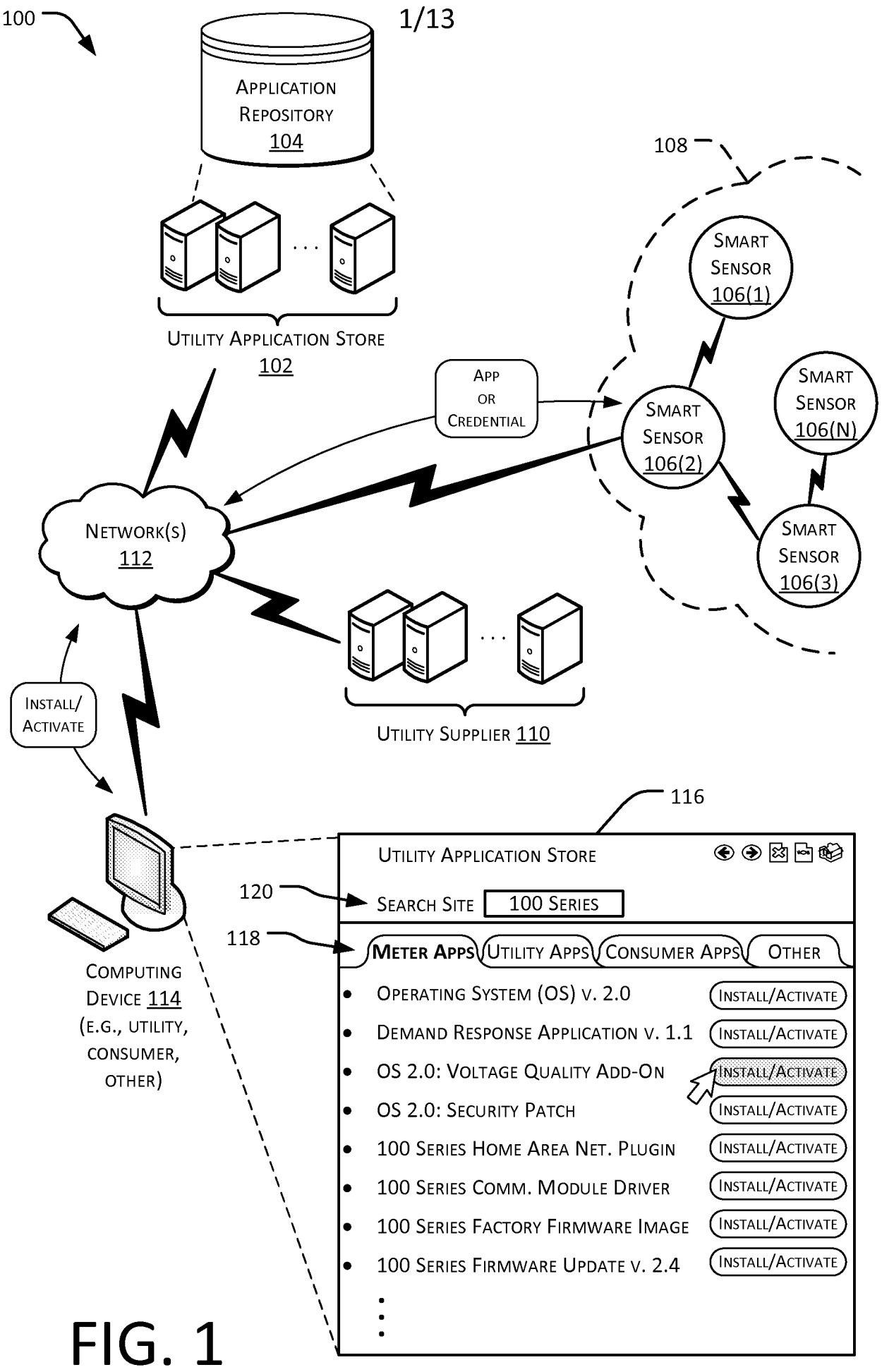

100
1/13
Application Repository 104
108
Smart Sensor 106(1)
Smart Sensor 106(N)
Smart Sensor 106(2)
Smart Sensor 106(3)
Utility Application Store 102
App or Credential
Network(s) 112
Utility Supplier 110
Install/ Activate
116
Utility Application Store
120
Search Site
100 Series
118
Meter Apps
Utility Apps
Consumer Apps
Other
Operating System (OS) v. 2.0
Demand Response Application v. 1.1
OS 2.0: Voltage Quality Add-On
OS 2.0: Security Patch
100 Series Home Area Net. Plugin
100 Series Comm. Module Driver
100 Series Factory Firmware Image
100 Series Firmware Update v. 2.4
Install/Activate
Computing Device 114 (e.g., utility, consumer, other)

FIG. 1

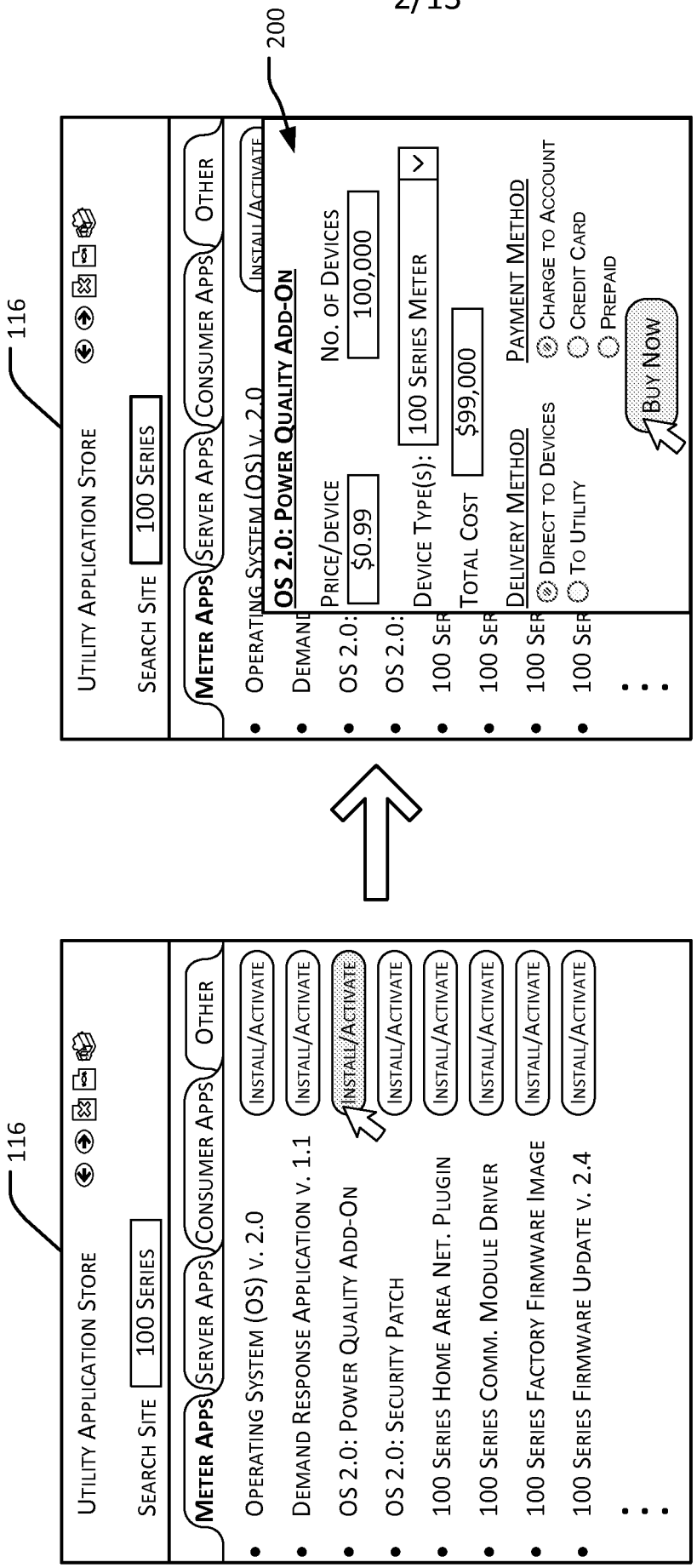

116
UTILITY APPLICATION STORE
SEARCH SITE
100 SERIES
METER APPS
SERVER APPS
CONSUMER APPS
OTHER
OPERATING SYSTEM (OS) V. 2.0
DEMAND RESPONSE APPLICATION V. 1.1
OS 2.0: POWER QUALITY ADD-ON
OS 2.0: SECURITY PATCH
100 SERIES HOME AREA NET. PLUGIN
100 SERIES COMM. MODULE DRIVER
100 SERIES FACTORY FIRMWARE IMAGE
100 SERIES FIRMWARE UPDATE V. 2.4
INSTALL/ACTIVATE
200
OS 2.0: POWER QUALITY ADD-ON
PRICE/DEVICE
$0.99
NO. OF DEVICES
100,000
DEVICE TYPE(S):
100 SERIES METER
TOTAL COST
$99,000
DELIVERY METHOD
DIRECT TO DEVICES
TO UTILITY
PAYMENT METHOD
CHARGE TO ACCOUNT
CREDIT CARD
PREPAID
BUY NOW

FIG. 2

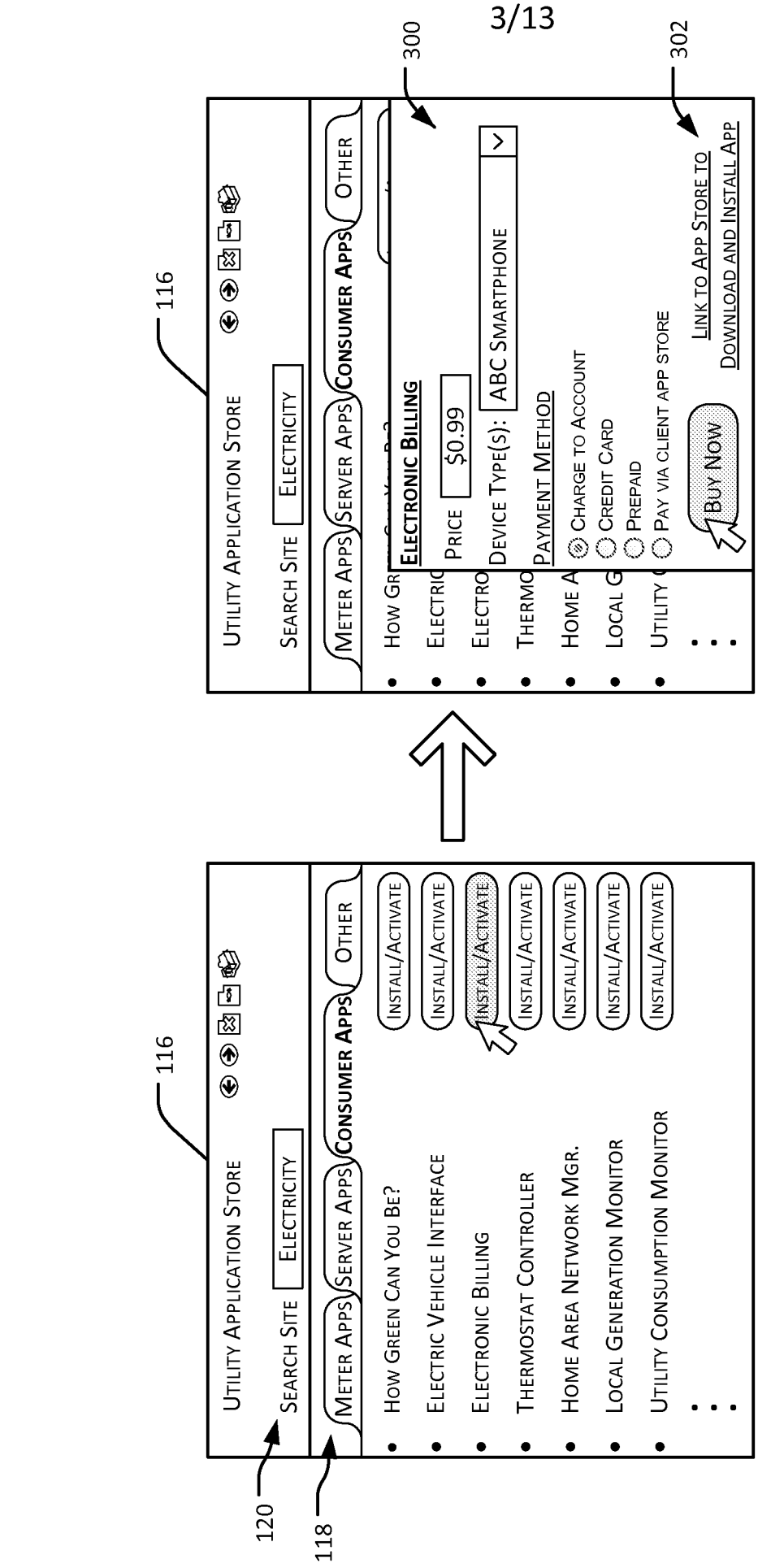

116
UTILITY APPLICATION STORE
SEARCH SITE
ELECTRICITY
METER APPS
SERVER APPS
CONSUMER APPS
OTHER
HOW GREEN CAN YOU BE?
ELECTRIC VEHICLE INTERFACE
ELECTRONIC BILLING
THERMOSTAT CONTROLLER
HOME AREA NETWORK MGR.
LOCAL GENERATION MONITOR
UTILITY CONSUMPTION MONITOR
INSTALL/ACTIVATE
120
118
300
ELECTRONIC BILLING
PRICE
$0.99
DEVICE TYPE(S):
ABC SMARTPHONE
PAYMENT METHOD
CHARGE TO ACCOUNT
CREDIT CARD
PREPAID
PAY VIA CLIENT APP STORE
BUY NOW
302
LINK TO APP STORE TO DOWNLOAD AND INSTALL APP

FIG. 3

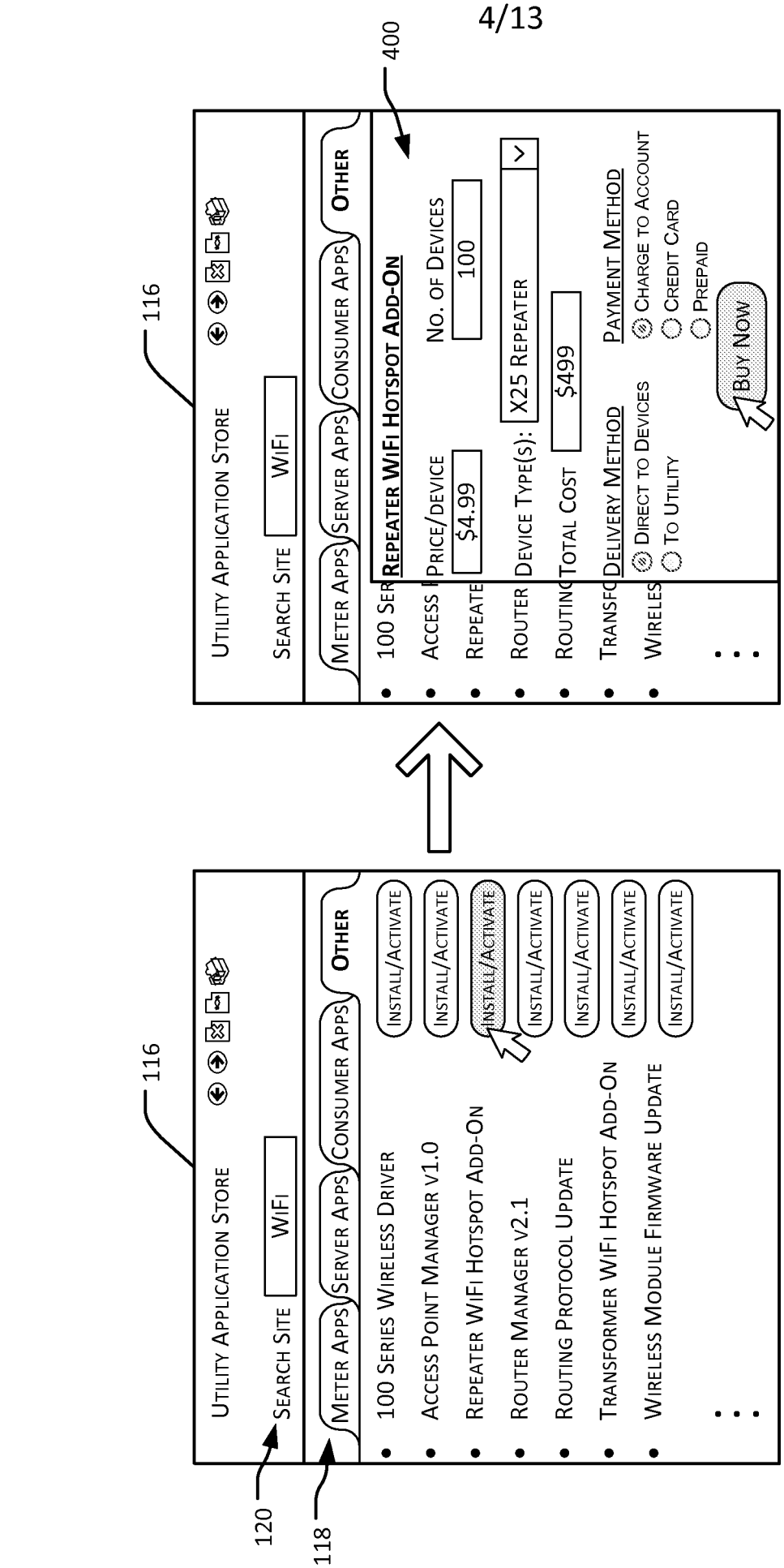

116
UTILITY APPLICATION STORE
SEARCH SITE
WIFI
METER APPS
SERVER APPS
CONSUMER APPS
OTHER
100 SERIES WIRELESS DRIVER
ACCESS POINT MANAGER V1.0
REPEATER WIFI HOTSPOT ADD-ON
ROUTER MANAGER V2.1
ROUTING PROTOCOL UPDATE
TRANSFORMER WIFI HOTSPOT ADD-ON
WIRELESS MODULE FIRMWARE UPDATE
INSTALL/ACTIVATE
120
118
400
REPEATER WIFI HOTSPOT ADD-ON
PRICE/DEVICE
$4.99
NO. OF DEVICES
100
DEVICE TYPE(S):
X25 REPEATER
TOTAL COST
$499
DELIVERY METHOD
DIRECT TO DEVICES
TO UTILITY
PAYMENT METHOD
CHARGE TO ACCOUNT
CREDIT CARD
PREPAID
BUY NOW

FIG. 4

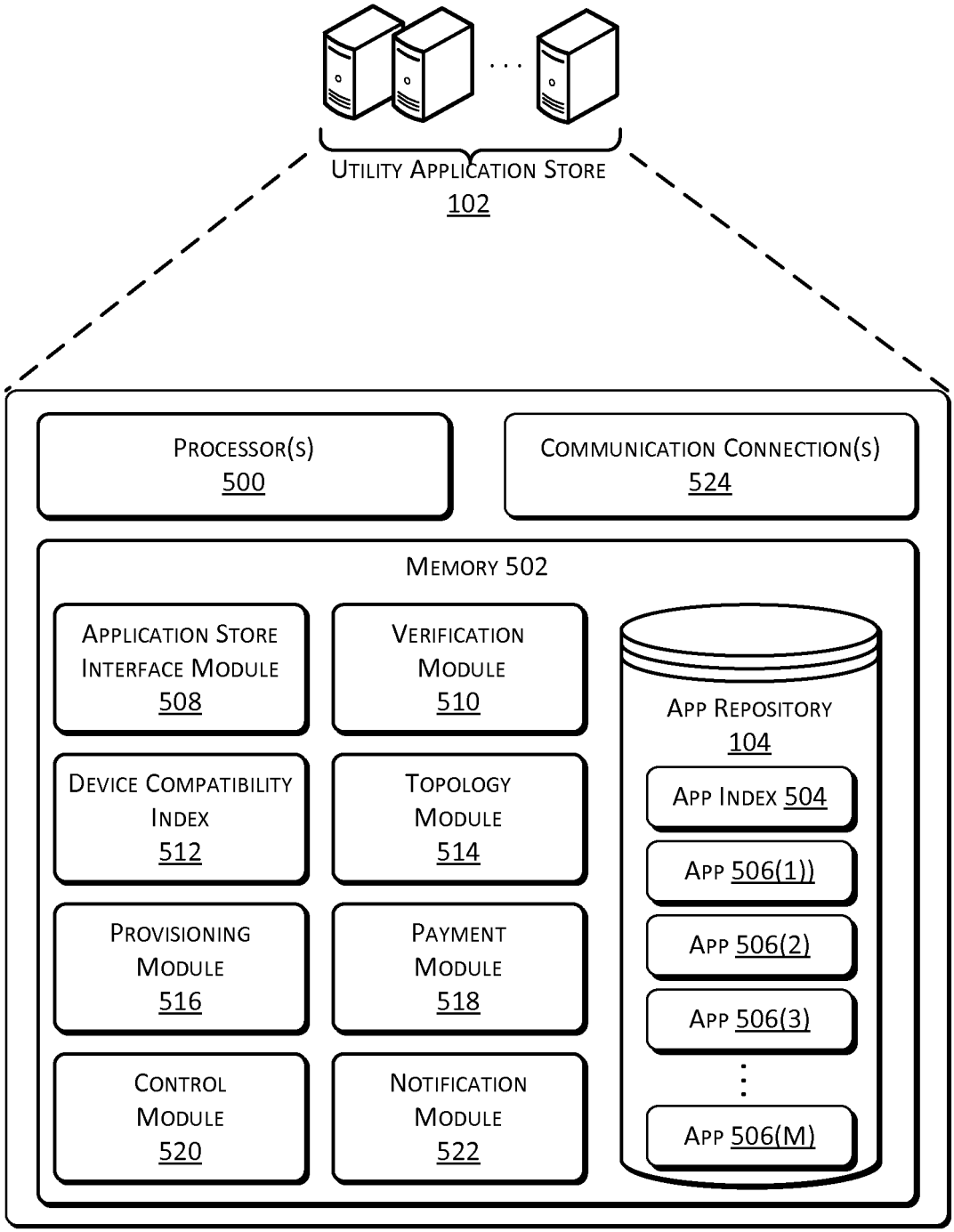

UTILITY APPLICATION STORE
102
PROCESSOR(S)
500
COMMUNICATION CONNECTION(S)
524
MEMORY 502
APPLICATION STORE INTERFACE MODULE
508
VERIFICATION MODULE
510
DEVICE COMPATIBILITY INDEX
512
TOPOLOGY MODULE
514
PROVISIONING MODULE
516
PAYMENT MODULE
518
CONTROL MODULE
520
NOTIFICATION MODULE
522
APP REPOSITORY
104
APP INDEX 504
APP 506(1))
APP 506(2)
APP 506(3)
APP 506(M)

FIG. 5

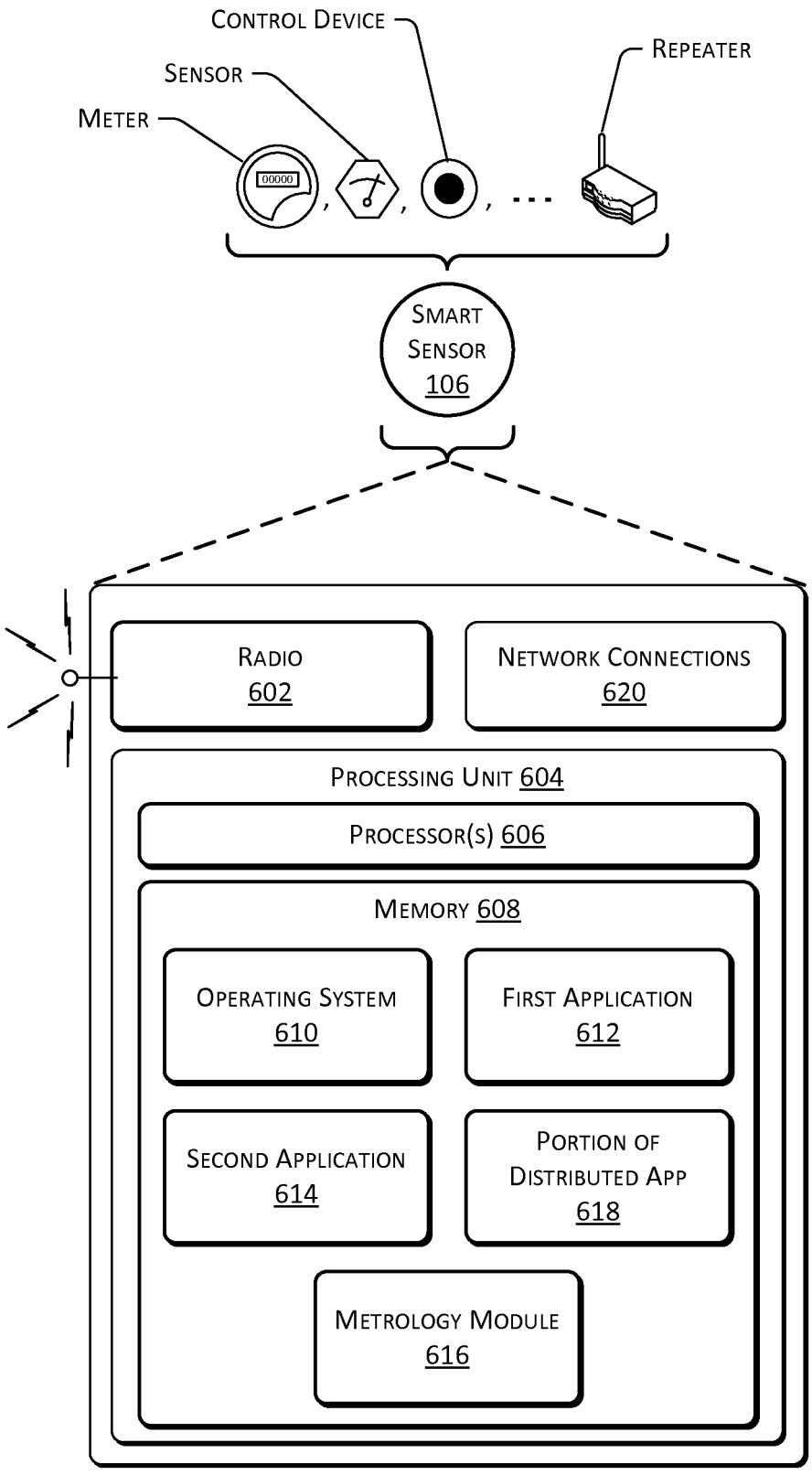

CONTROL DEVICE
SENSOR
METER
REPEATER
00000
SMART SENSOR 106
RADIO 602
NETWORK CONNECTIONS 620
PROCESSING UNIT 604
PROCESSOR(S) 606
MEMORY 608
OPERATING SYSTEM 610
FIRST APPLICATION 612
SECOND APPLICATION 614
PORTION OF DISTRIBUTED APP 618
METROLOGY MODULE 616

FIG. 6

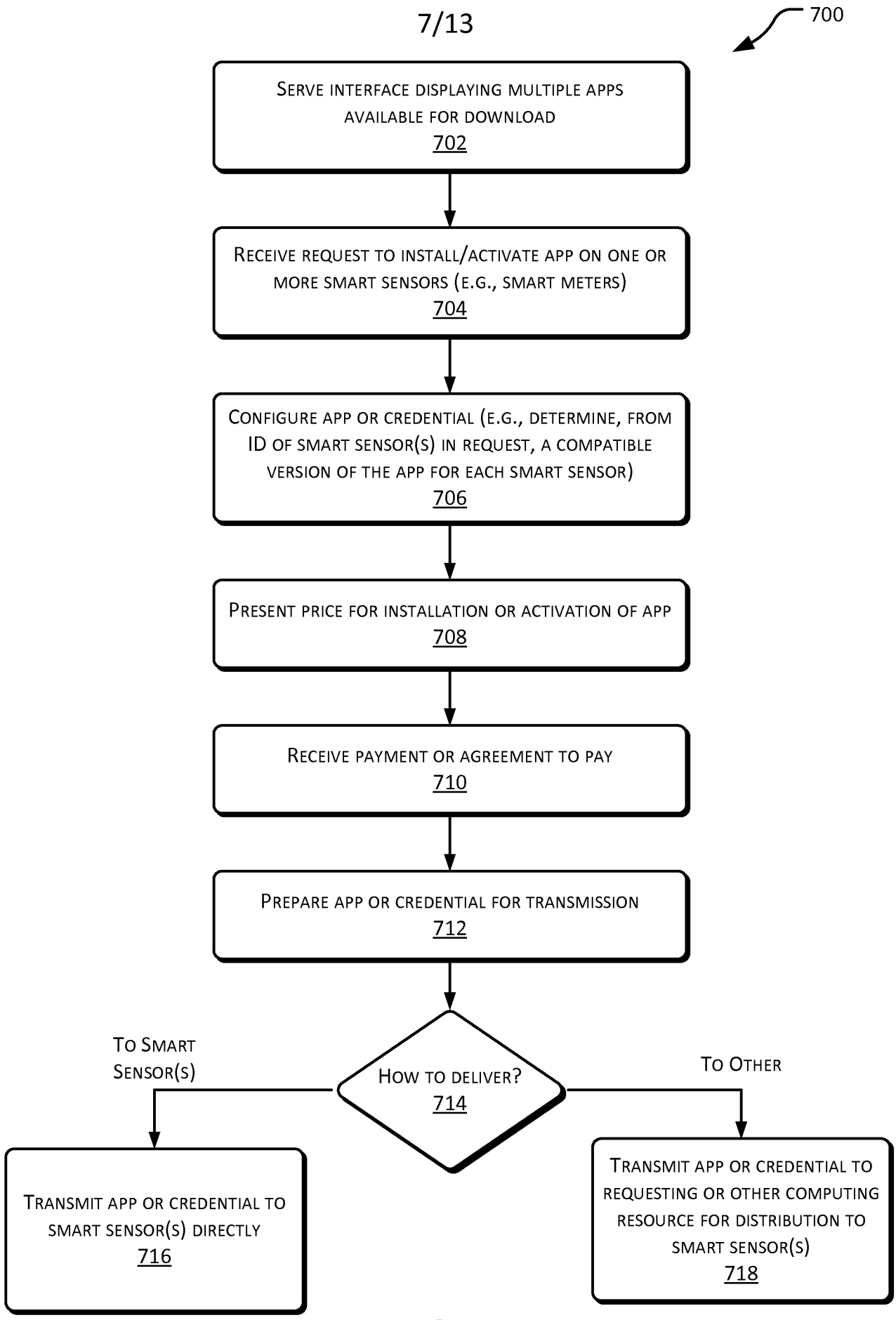

700
SERVE INTERFACE DISPLAYING MULTIPLE APPS AVAILABLE FOR DOWNLOAD
702
RECEIVE REQUEST TO INSTALL/ACTIVATE APP ON ONE OR MORE SMART SENSORS (E.G., SMART METERS)
704
CONFIGURE APP OR CREDENTIAL (E.G., DETERMINE, FROM ID OF SMART SENSOR(S) IN REQUEST, A COMPATIBLE VERSION OF THE APP FOR EACH SMART SENSOR)
706
PRESENT PRICE FOR INSTALLATION OR ACTIVATION OF APP
708
RECEIVE PAYMENT OR AGREEMENT TO PAY
710
PREPARE APP OR CREDENTIAL FOR TRANSMISSION
712
HOW TO DELIVER?
714
TO SMART SENSOR(S)
TO OTHER
TRANSMIT APP OR CREDENTIAL TO SMART SENSOR(S) DIRECTLY
716
TRANSMIT APP OR CREDENTIAL TO REQUESTING OR OTHER COMPUTING RESOURCE FOR DISTRIBUTION TO SMART SENSOR(S)
718

FIG. 7

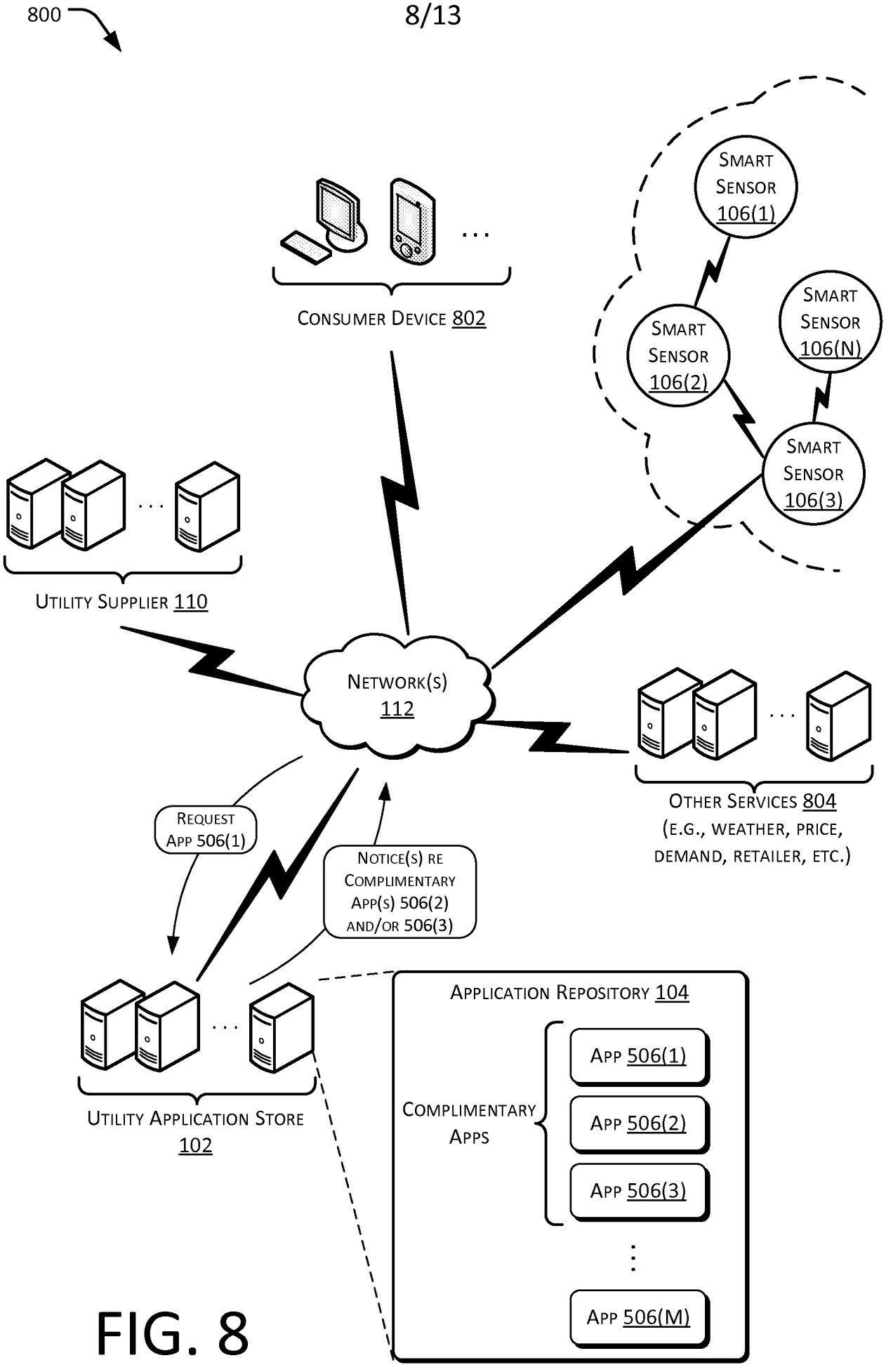

800
Consumer Device 802
Smart Sensor 106(1)
Smart Sensor 106(2)
Smart Sensor 106(N)
Smart Sensor 106(3)
Utility Supplier 110
Network(s) 112
Other Services 804
(e.g., weather, price, demand, retailer, etc.)
Request App 506(1)
Notice(s) re Complimentary App(s) 506(2) and/or 506(3)
Utility Application Store 102
Application Repository 104
Complimentary Apps
App 506(1)
App 506(2)
App 506(3)
App 506(M)

FIG. 8

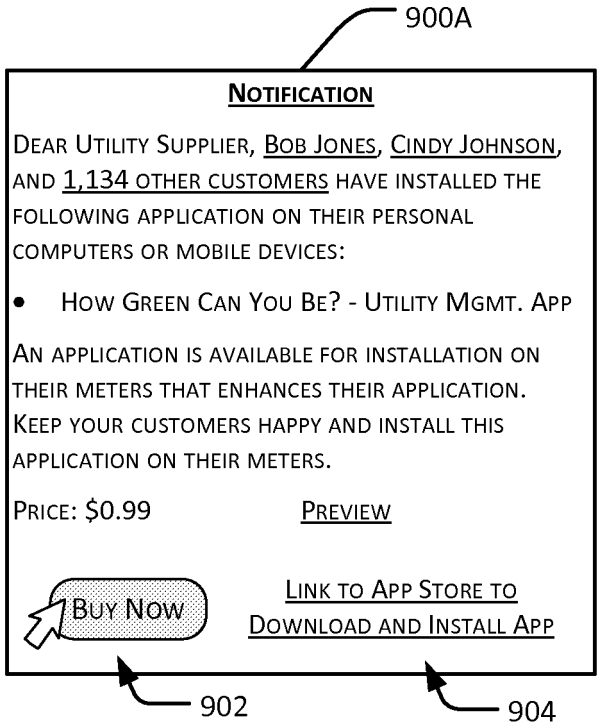


FIG. 9A

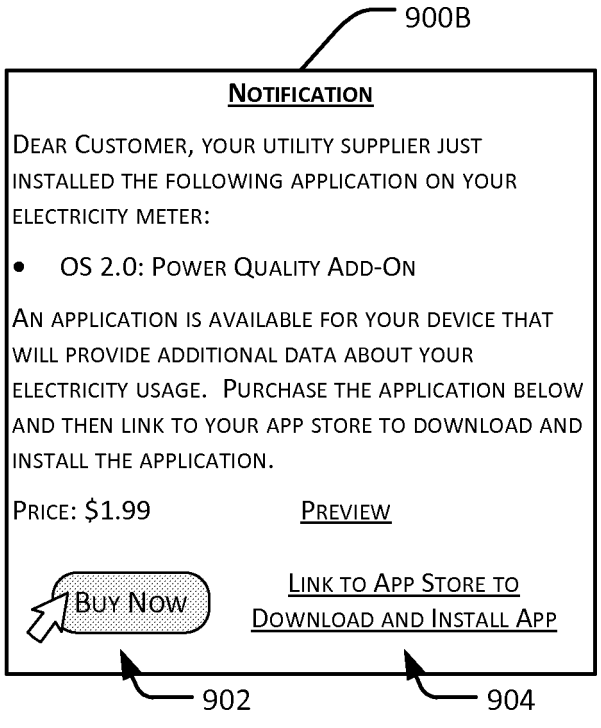


FIG. 9B

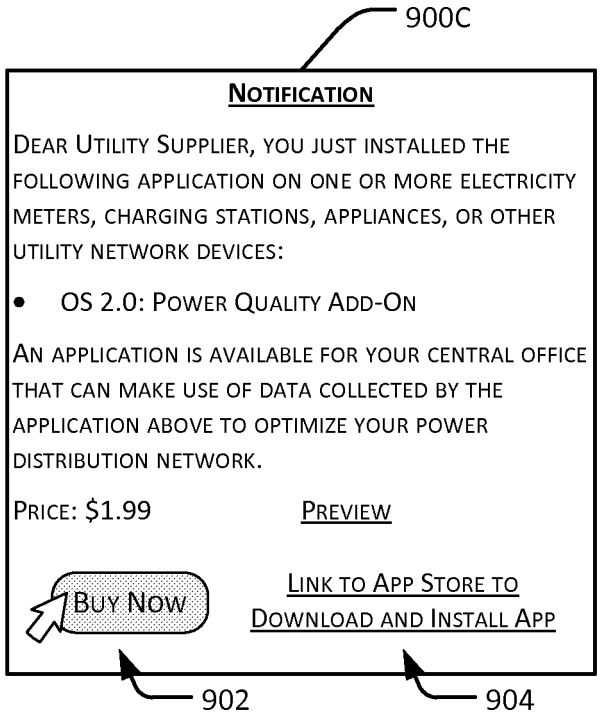


FIG. 9C

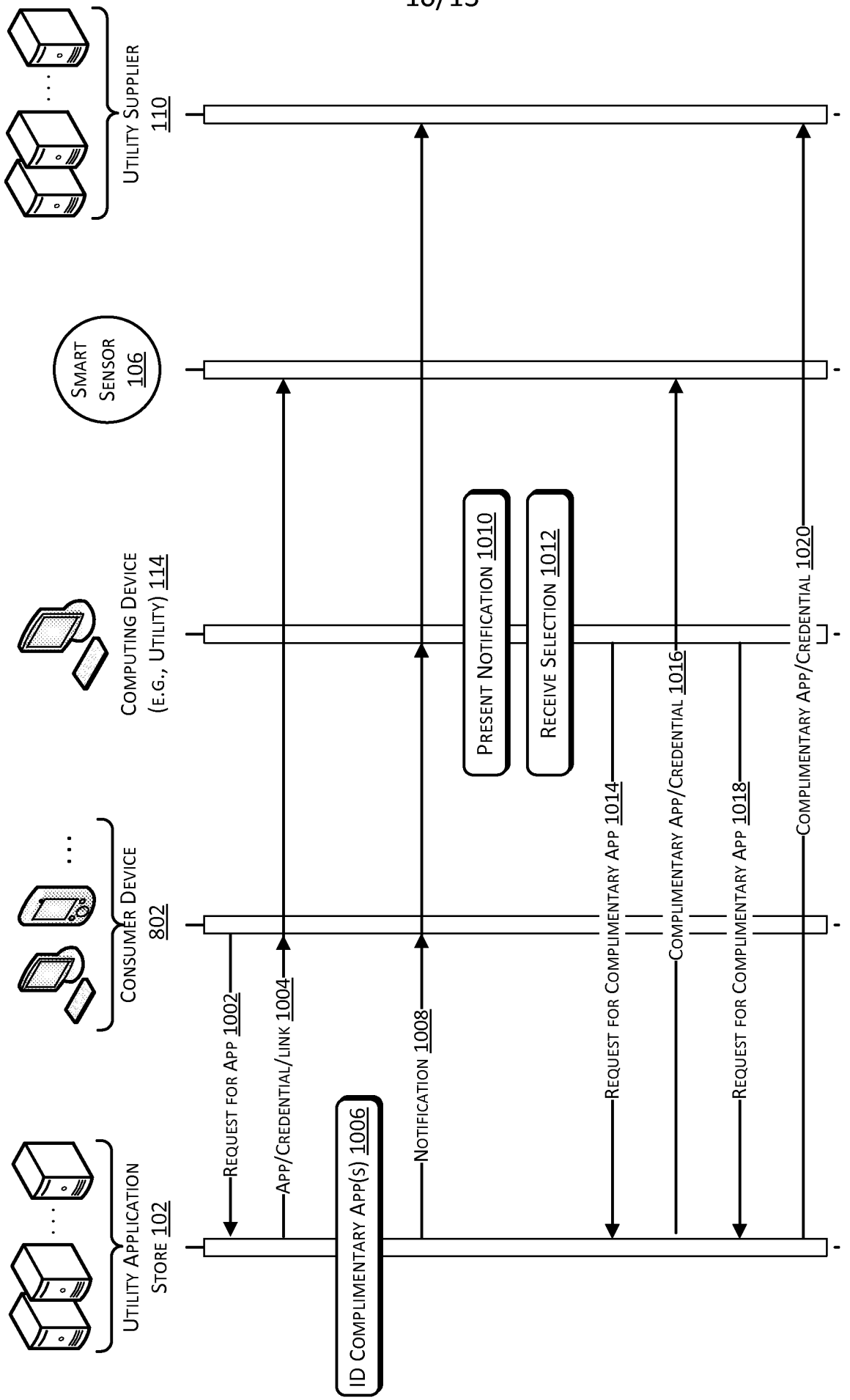

UTILITY APPLICATION STORE 102
CONSUMER DEVICE 802
COMPUTING DEVICE (E.G., UTILITY) 114
SMART SENSOR 106
UTILITY SUPPLIER 110
REQUEST FOR APP 1002
APP/CREDENTIAL/LINK 1004
ID COMPLIMENTARY APP(S) 1006
NOTIFICATION 1008
PRESENT NOTIFICATION 1010
RECEIVE SELECTION 1012
REQUEST FOR COMPLIMENTARY APP 1014
COMPLIMENTARY APP/CREDENTIAL 1016
REQUEST FOR COMPLIMENTARY APP 1018
COMPLIMENTARY APP/CREDENTIAL 1020
1000

FIG. 10

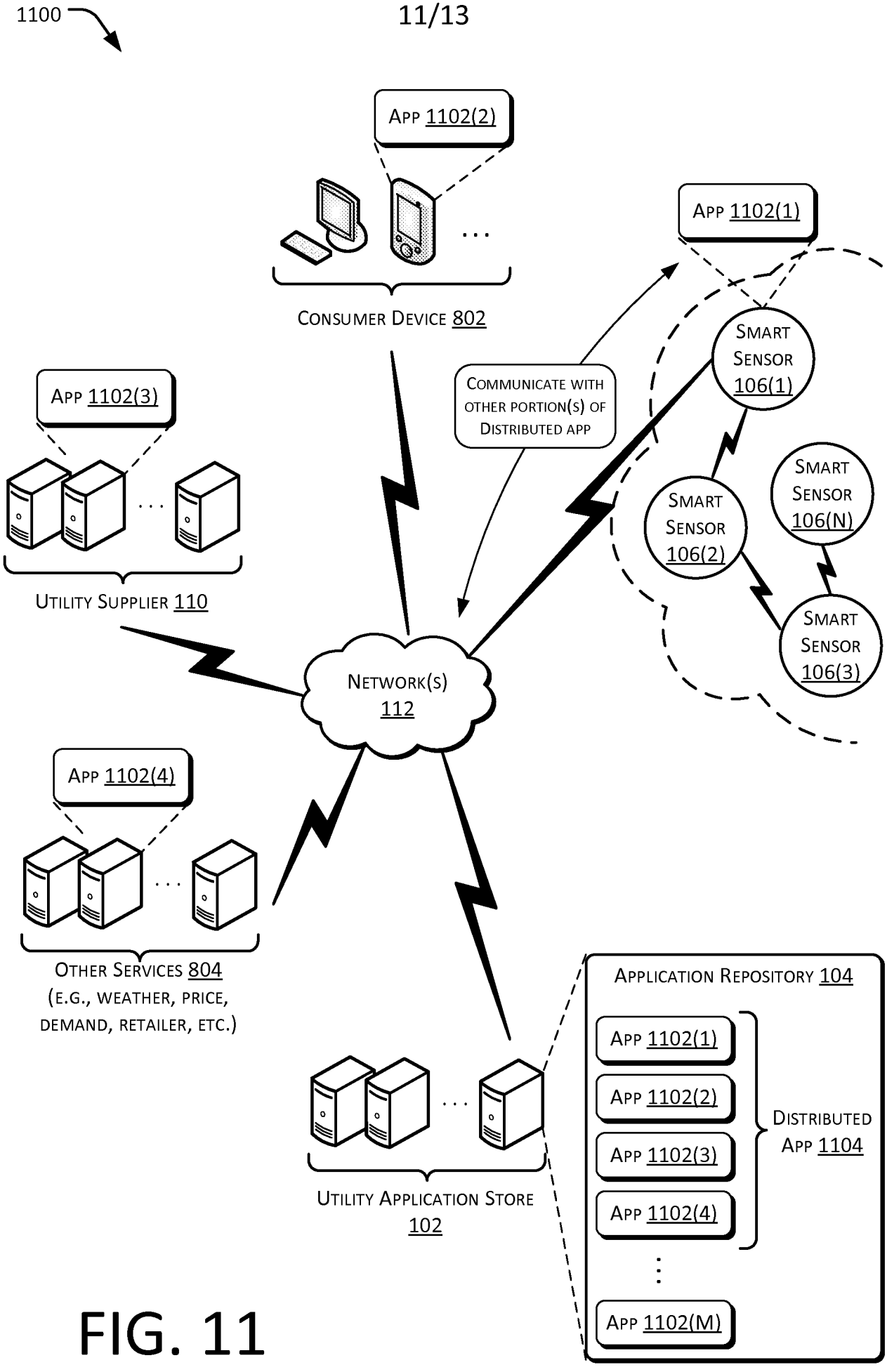

1100
App 1102(2)
Consumer Device 802
App 1102(1)
Smart Sensor 106(1)
Communicate with other portion(s) of Distributed App
App 1102(3)
Utility Supplier 110
Smart Sensor 106(2)
Smart Sensor 106(N)
Smart Sensor 106(3)
Network(s) 112
App 1102(4)
Other Services 804
(e.g., weather, price, demand, retailer, etc.)
Application Repository 104
App 1102(1)
App 1102(2)
App 1102(3)
App 1102(4)
App 1102(M)
Distributed App 1104
Utility Application Store 102

FIG. 11

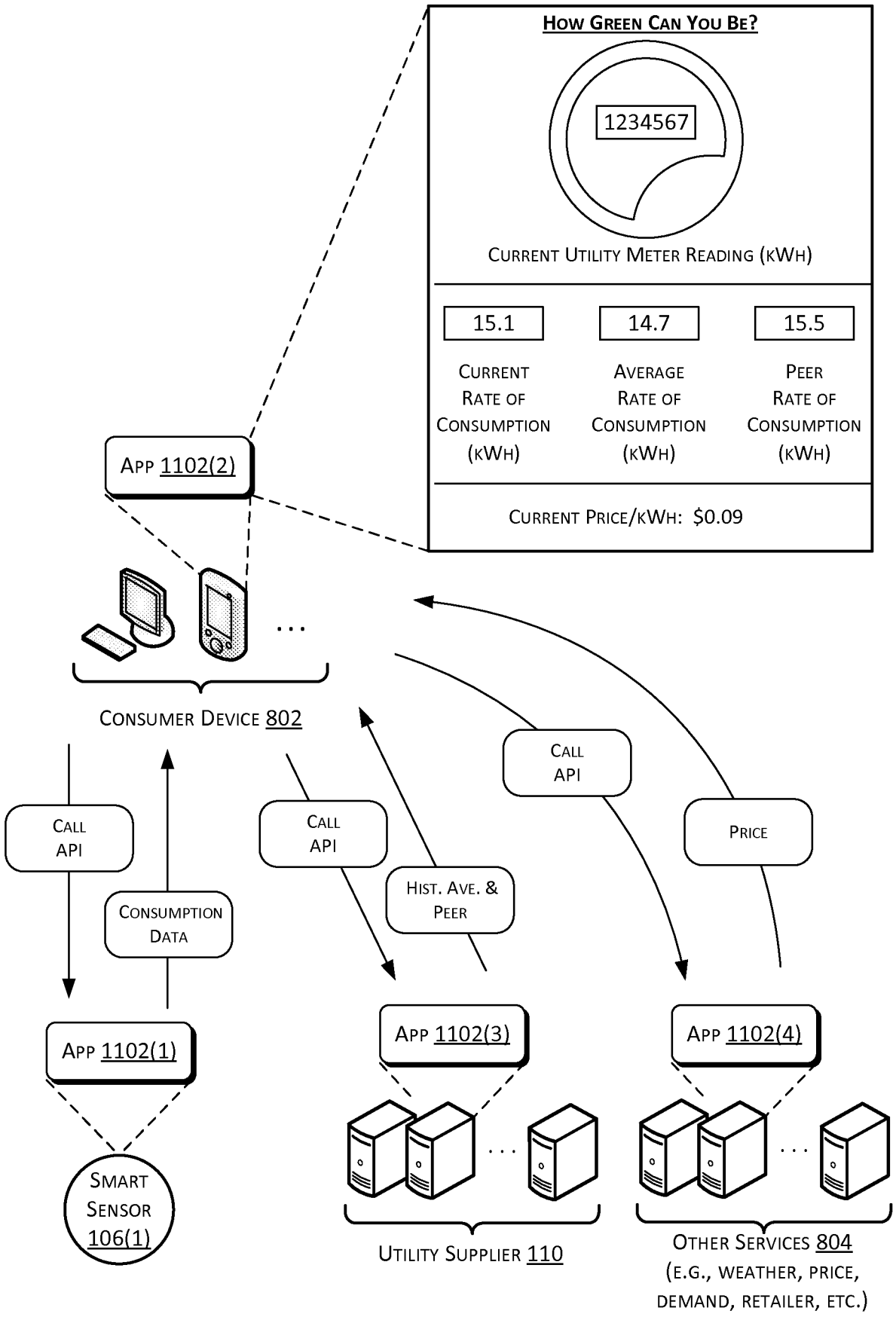

How Green Can You Be?
1234567
Current Utility Meter Reading (kWh)
15.1
14.7
15.5
Current Rate of Consumption (kWh)
Average Rate of Consumption (kWh)
Peer Rate of Consumption (kWh)
Current Price/kWh: $0.09
App 1102(2)
Consumer Device 802
Call API
Consumption Data
App 1102(1)
Smart Sensor 106(1)
Call API
Hist. Ave. & Peer
App 1102(3)
Utility Supplier 110
Call API
Price
App 1102(4)
Other Services 804
(e.g., weather, price, demand, retailer, etc.)

FIG. 12

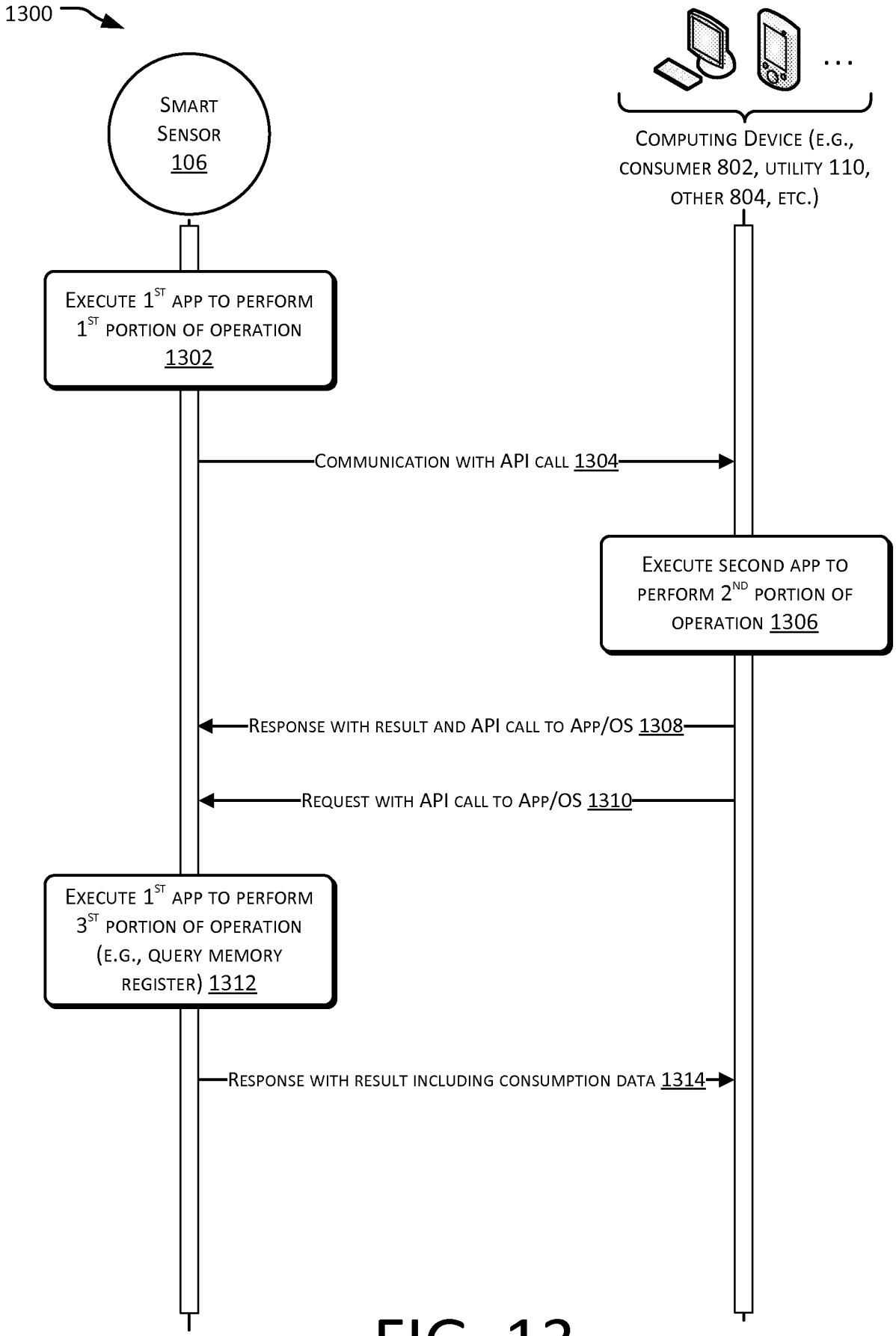

1300
SMART SENSOR 106
COMPUTING DEVICE (E.G., CONSUMER 802, UTILITY 110, OTHER 804, ETC.)
EXECUTE 1ST APP TO PERFORM 1ST PORTION OF OPERATION 1302
COMMUNICATION WITH API CALL 1304
EXECUTE SECOND APP TO PERFORM 2ND PORTION OF OPERATION 1306
RESPONSE WITH RESULT AND API CALL TO APP/OS 1308
REQUEST WITH API CALL TO APP/OS 1310
EXECUTE 1ST APP TO PERFORM 3ST PORTION OF OPERATION (E.G., QUERY MEMORY REGISTER) 1312
RESPONSE WITH RESULT INCLUDING CONSUMPTION DATA 1314

FIG. 13