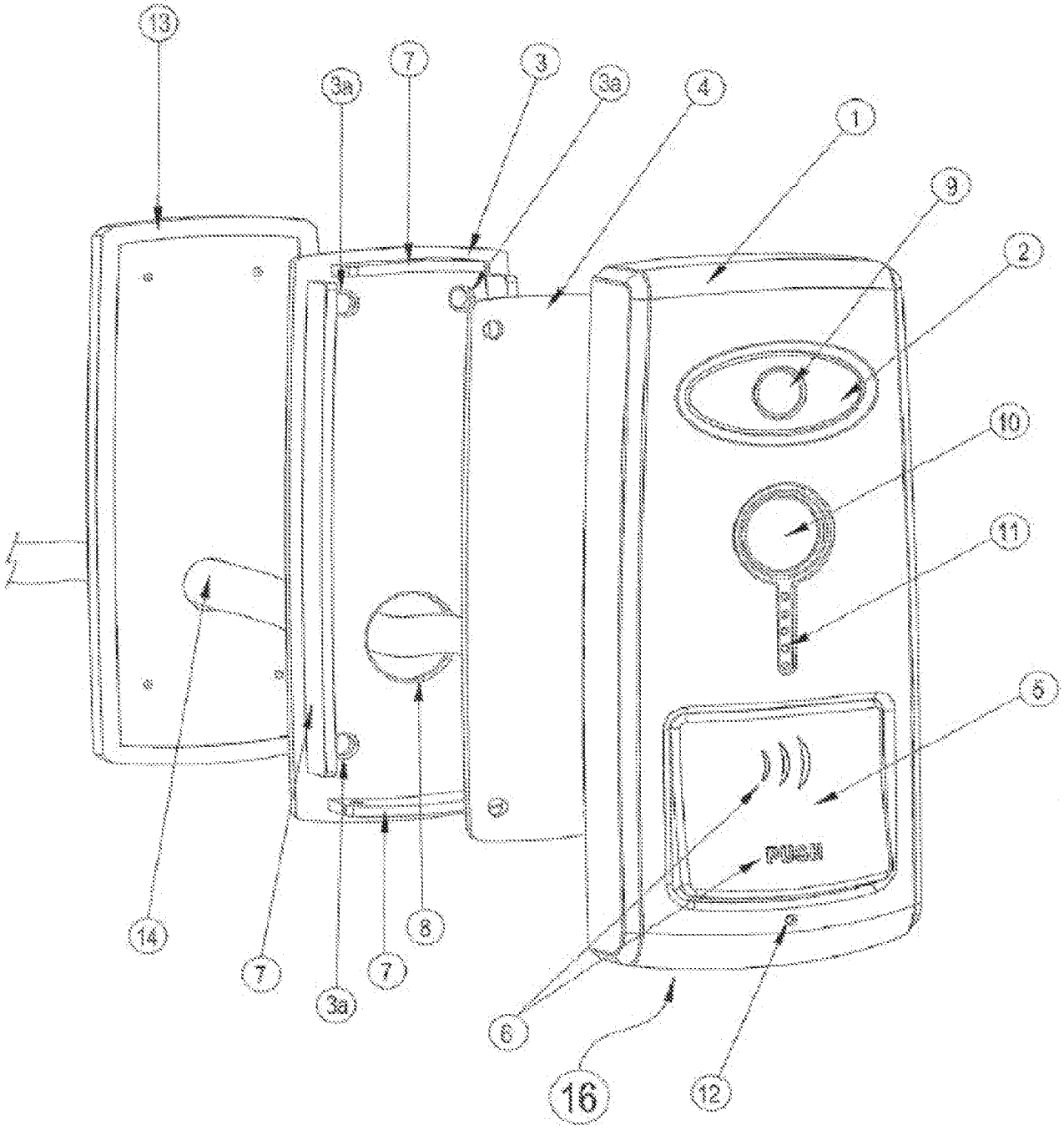

FIGURE 1

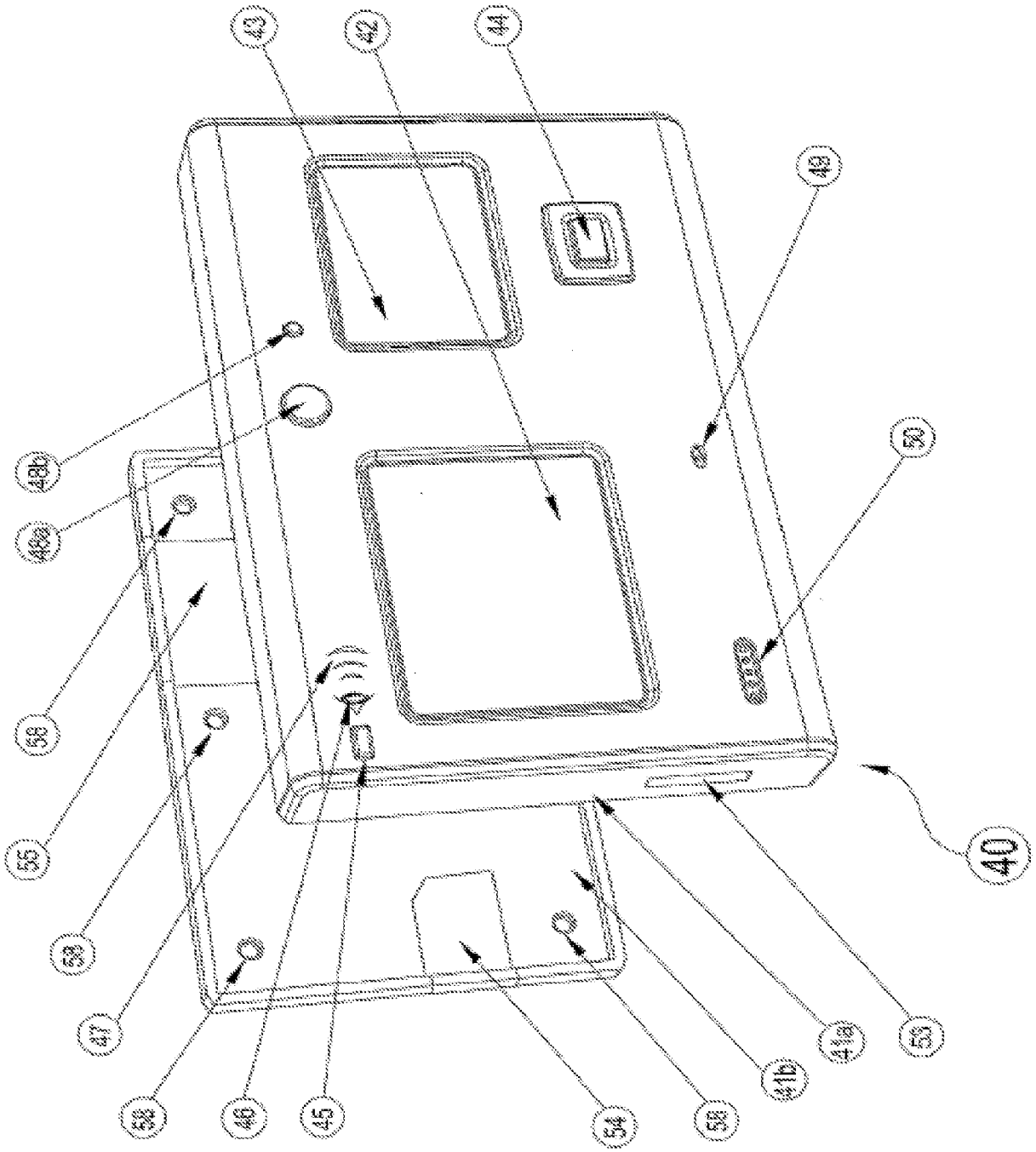

FIGURE 2

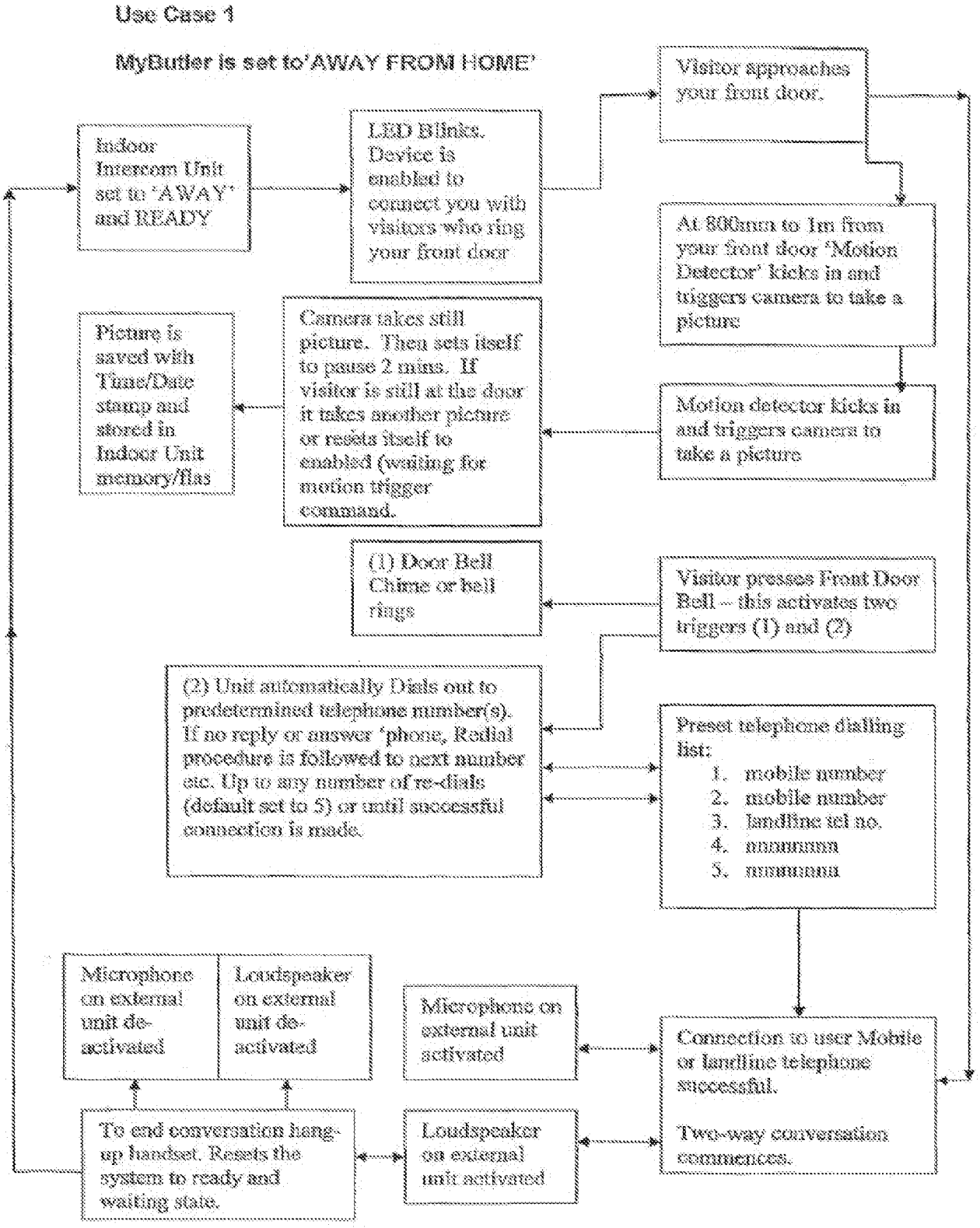
Use Case 1
MyButler is set to 'AWAY FROM HOME'
Visitor approaches your front door.
Indoor Intercom Unit set to 'AWAY' and READY
LED Blinks. Device is enabled to connect you with visitors who ring your front door
At 800mm to 1m from your front door 'Motion Detector' kicks in and triggers camera to take a picture
Picture is saved with Time/Date stamp and stored in Indoor Unit memory/flas
Camera takes still picture. Then sets itself to pause 2 mins. If visitor is still at the door it takes another picture or resets itself to enabled (waiting for motion trigger command.
Motion detector kicks in and triggers camera to take a picture
(1) Door Bell Chime or bell rings
Visitor presses Front Door Bell – this activates two triggers (1) and (2)
(2) Unit automatically Dials out to predetermined telephone number(s). If no reply or answer 'phone, Redial procedure is followed to next number etc. Up to any number of re-dials (default set to 5) or until successful connection is made.
Preset telephone dialling list:
1. mobile number
2. mobile number
3. landline tel no.
4. nnnnnnn
5. nnnnnnn
Microphone on external unit de-activated
Loudspeaker on external unit de-activated
Microphone on external unit activated
Connection to user Mobile or landline telephone successful.
Two-way conversation commences.
To end conversation hang-up handset. Resets the system to ready and waiting state.
Loudspeaker on external unit activated

FIGURE 3

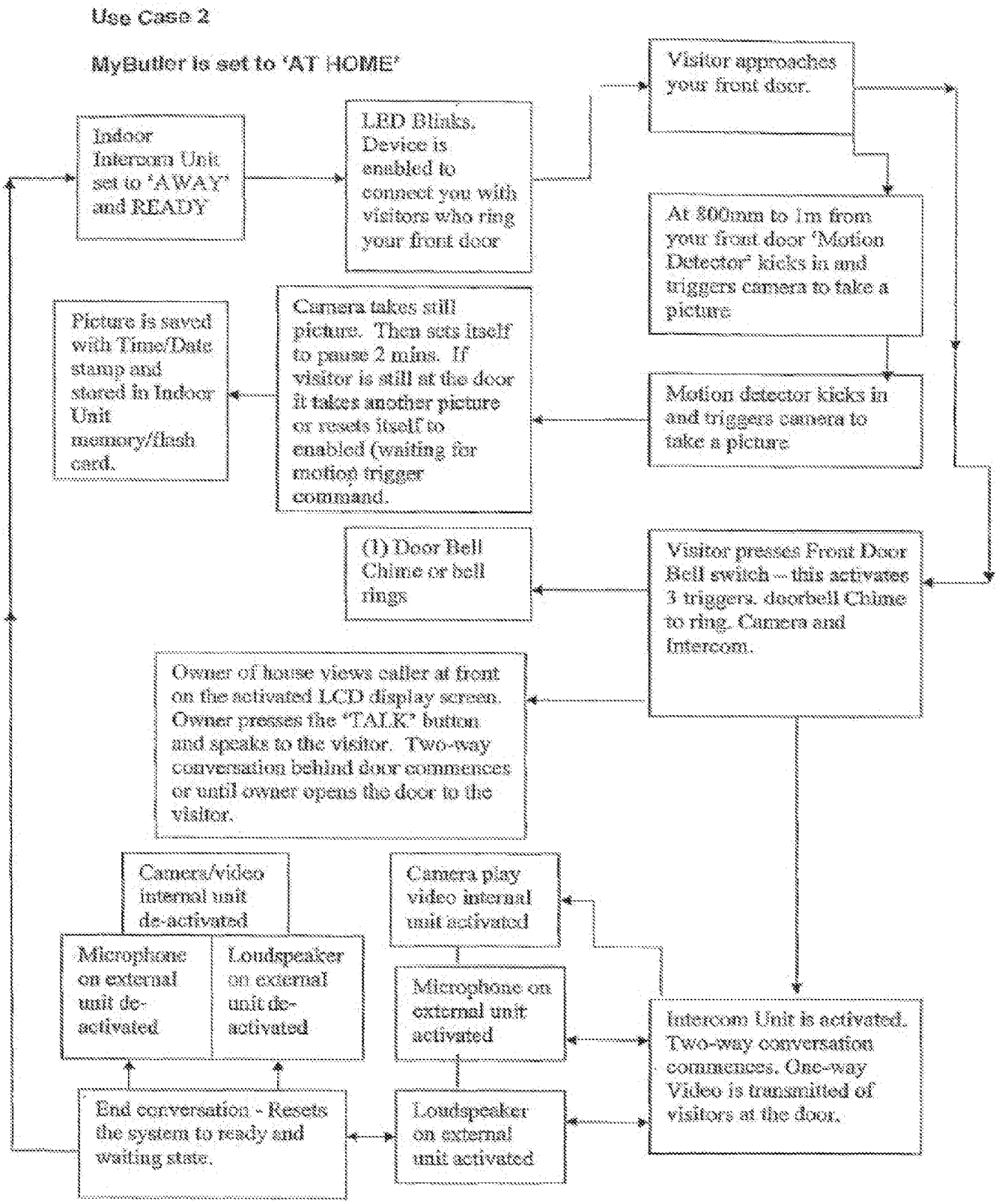
Use Case 2
MyButler is set to 'AT HOME'
Indoor Intercom Unit set to 'AWAY' and READY
LED Blinks. Device is enabled to connect you with visitors who ring your front door
Visitor approaches your front door.
At 800mm to 1m from your front door 'Motion Detector' kicks in and triggers camera to take a picture
Motion detector kicks in and triggers camera to take a picture
Camera takes still picture. Then sets itself to pause 2 mins. If visitor is still at the door it takes another picture or resets itself to enabled (waiting for motion) trigger command.
Picture is saved with Time/Date stamp and stored in Indoor Unit memory/flash card.
(1) Door Bell Chime or bell rings
Visitor presses Front Door Bell switch – this activates 3 triggers. doorbell Chime to ring. Camera and Intercom.
Owner of house views caller at front on the activated LCD display screen. Owner presses the 'TALK' button and speaks to the visitor. Two-way conversation behind door commences or until owner opens the door to the visitor.
Camera/video internal unit de-activated
Microphone on external unit de-activated
Loudspeaker on external unit de-activated
Camera play video internal unit activated
Microphone on external unit activated
Loudspeaker on external unit activated
Intercom Unit is activated. Two-way conversation commences. One-way Video is transmitted of visitors at the door.
End conversation - Resets the system to ready and waiting state.

FIGURE 4

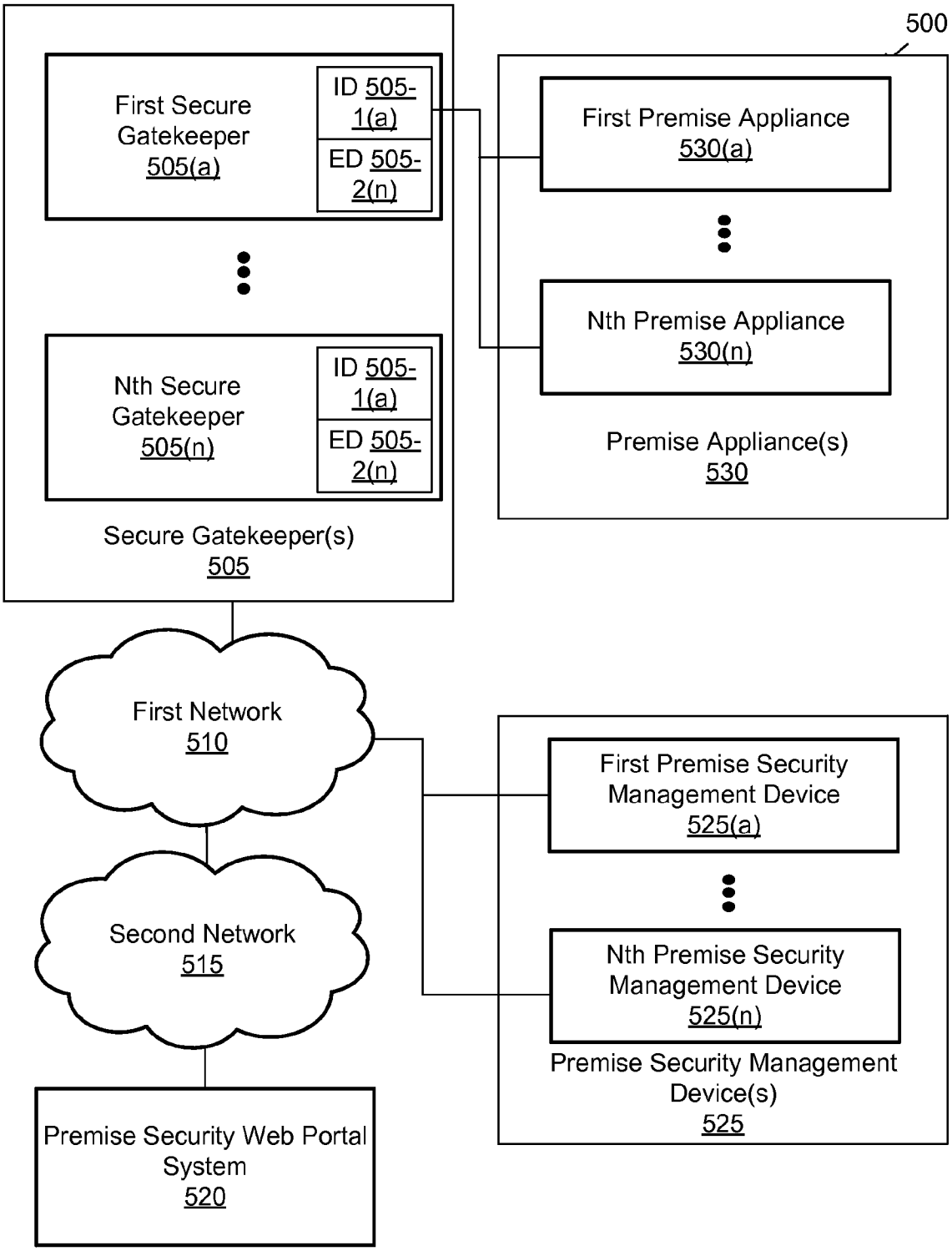
500
First Secure Gatekeeper 505(a)
ID 505-1(a)
ED 505-2(n)
Nth Secure Gatekeeper 505(n)
ID 505-1(a)
ED 505-2(n)
Secure Gatekeeper(s) 505
First Premise Appliance 530(a)
Nth Premise Appliance 530(n)
Premise Appliance(s) 530
First Network 510
Second Network 515
Premise Security Web Portal System 520
First Premise Security Management Device 525(a)
Nth Premise Security Management Device 525(n)
Premise Security Management Device(s) 525

FIGURE 5

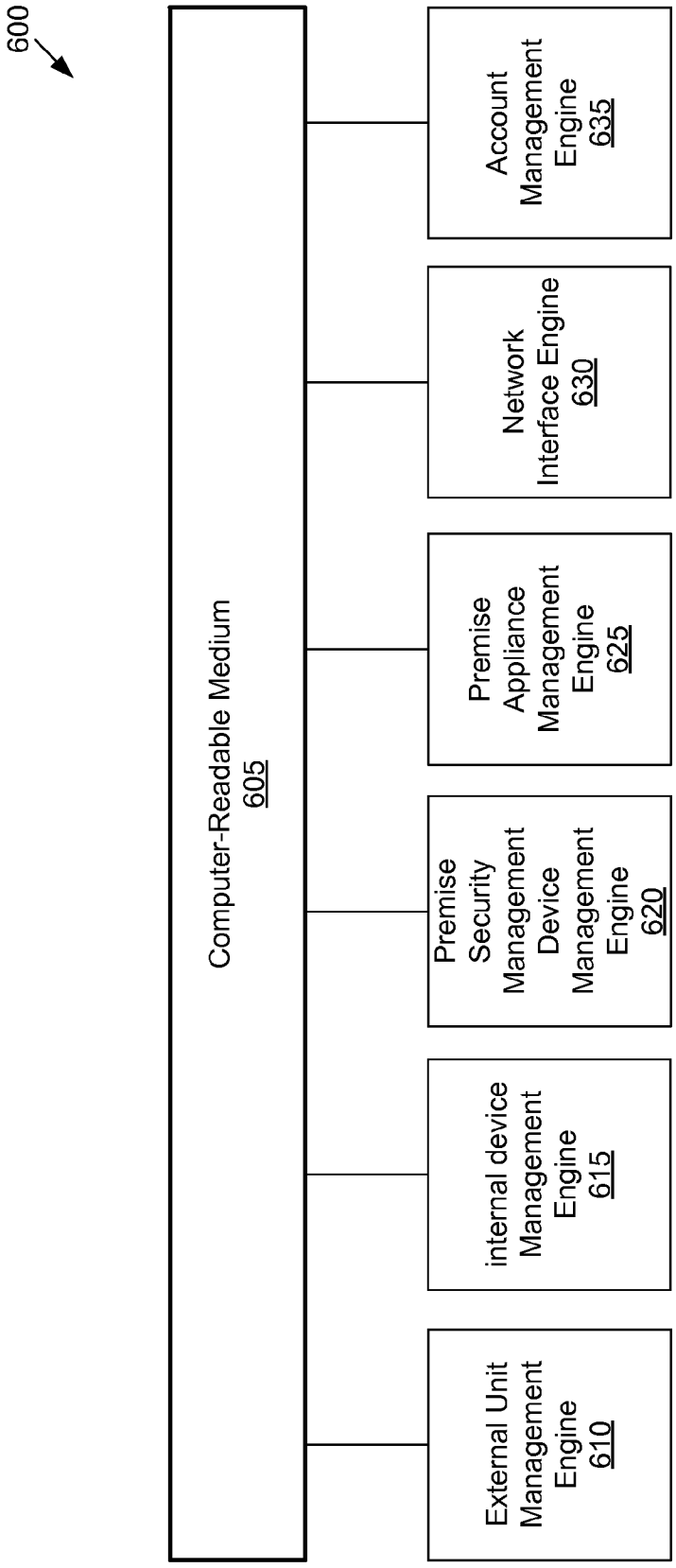
600
Computer-Readable Medium
605
External Unit Management Engine
610
internal device Management Engine
615
Premise Security Management Device Management Engine
620
Premise Appliance Management Engine
625
Network Interface Engine
630
Account Management Engine
635

FIGURE 6

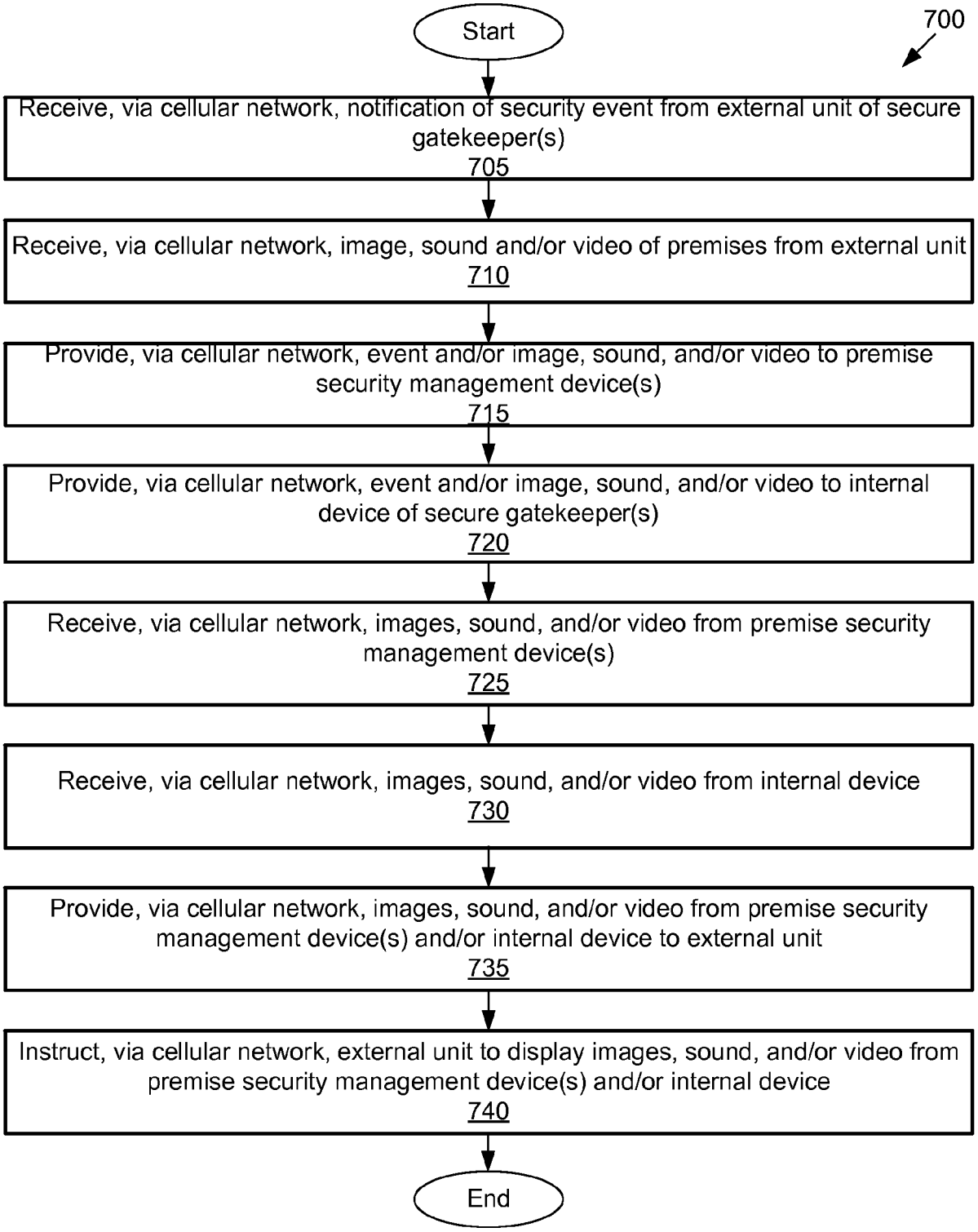
Start
700
Receive, via cellular network, notification of security event from external unit of secure gatekeeper(s)
705
Receive, via cellular network, image, sound and/or video of premises from external unit
710
Provide, via cellular network, event and/or image, sound, and/or video to premise security management device(s)
715
Provide, via cellular network, event and/or image, sound, and/or video to internal device of secure gatekeeper(s)
720
Receive, via cellular network, images, sound, and/or video from premise security management device(s)
725
Receive, via cellular network, images, sound, and/or video from internal device
730
Provide, via cellular network, images, sound, and/or video from premise security management device(s) and/or internal device to external unit
735
Instruct, via cellular network, external unit to display images, sound, and/or video from premise security management device(s) and/or internal device
740
End

FIGURE 7

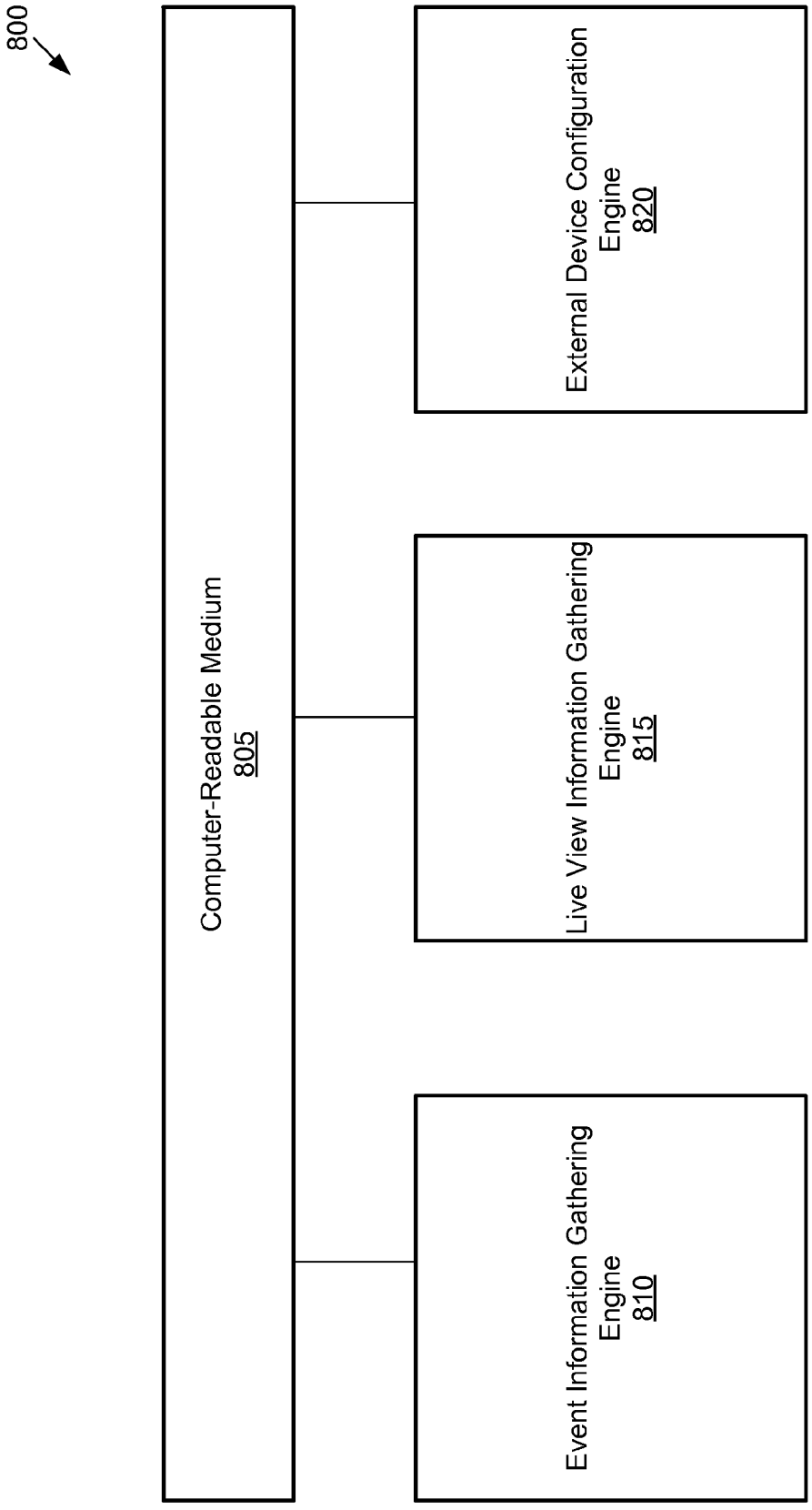
800
Computer-Readable Medium
805
External Device Configuration Engine
820
Live View Information Gathering Engine
815
Event Information Gathering Engine
810

FIGURE 8

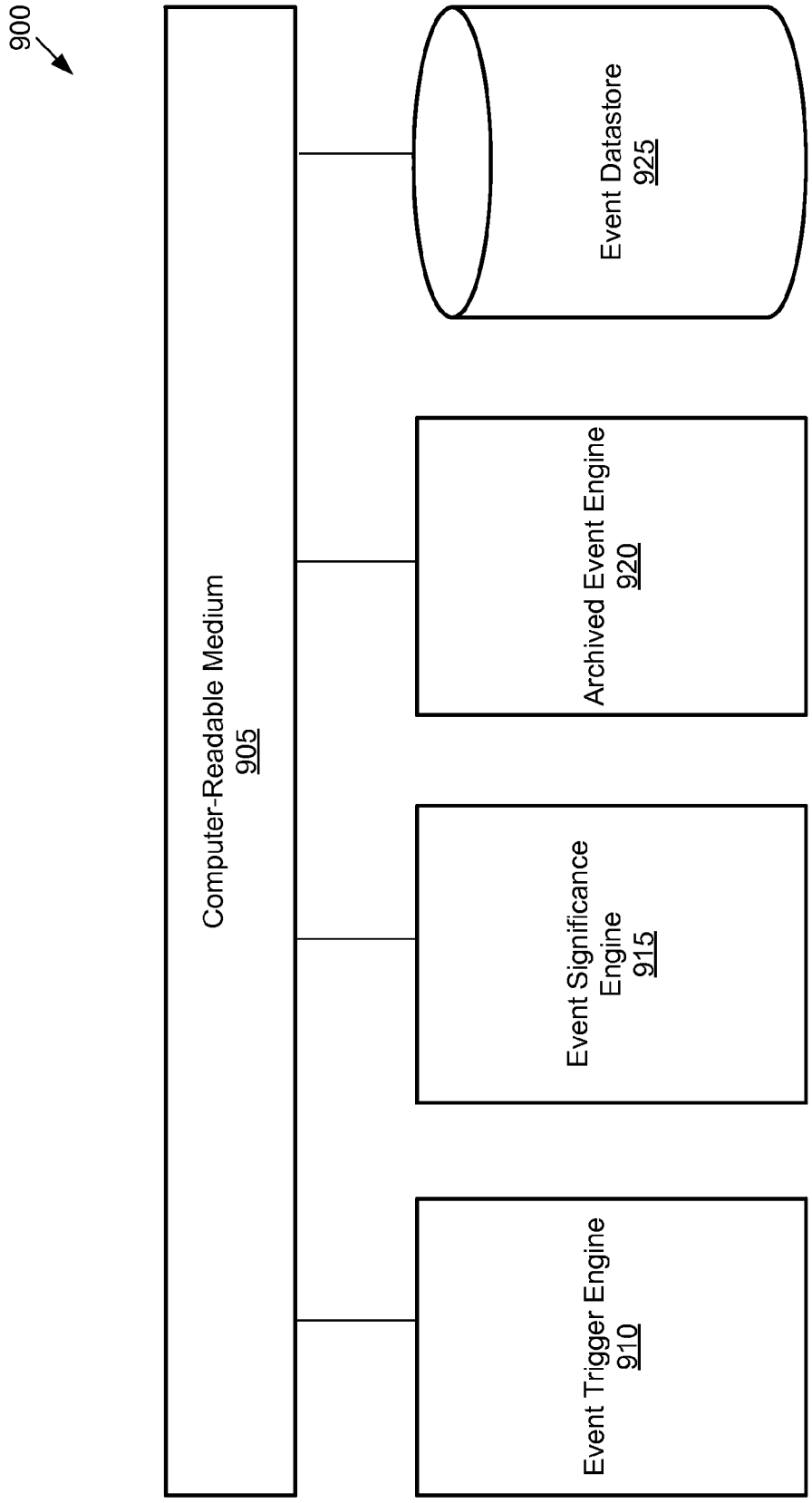
900
Computer-Readable Medium
905
Event Datastore
925
Archived Event Engine
920
Event Significance Engine
915
Event Trigger Engine
910

FIGURE 9

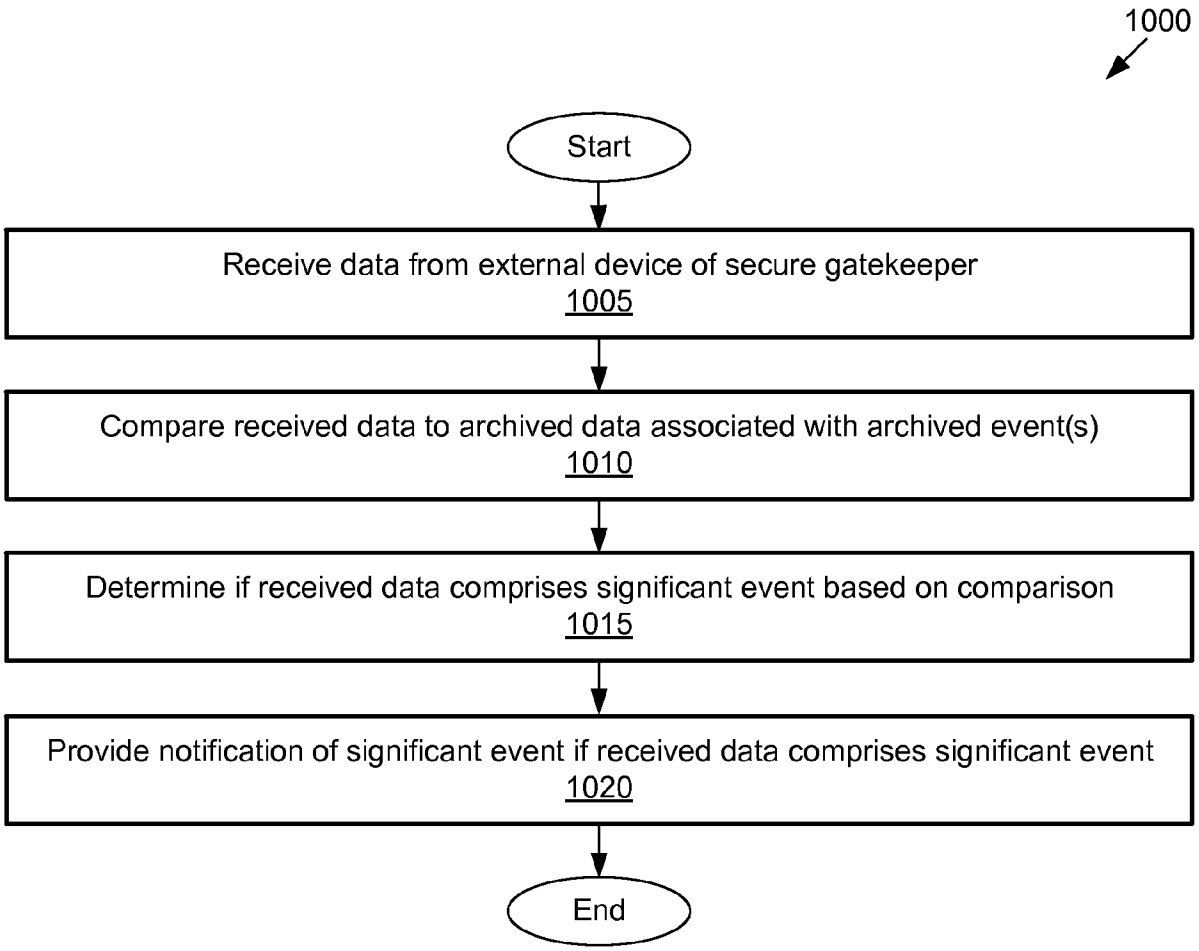
1000
Start
Receive data from external device of secure gatekeeper
1005
Compare received data to archived data associated with archived event(s)
1010
Determine if received data comprises significant event based on comparison
1015
Provide notification of significant event if received data comprises significant event
1020
End

FIGURE 10

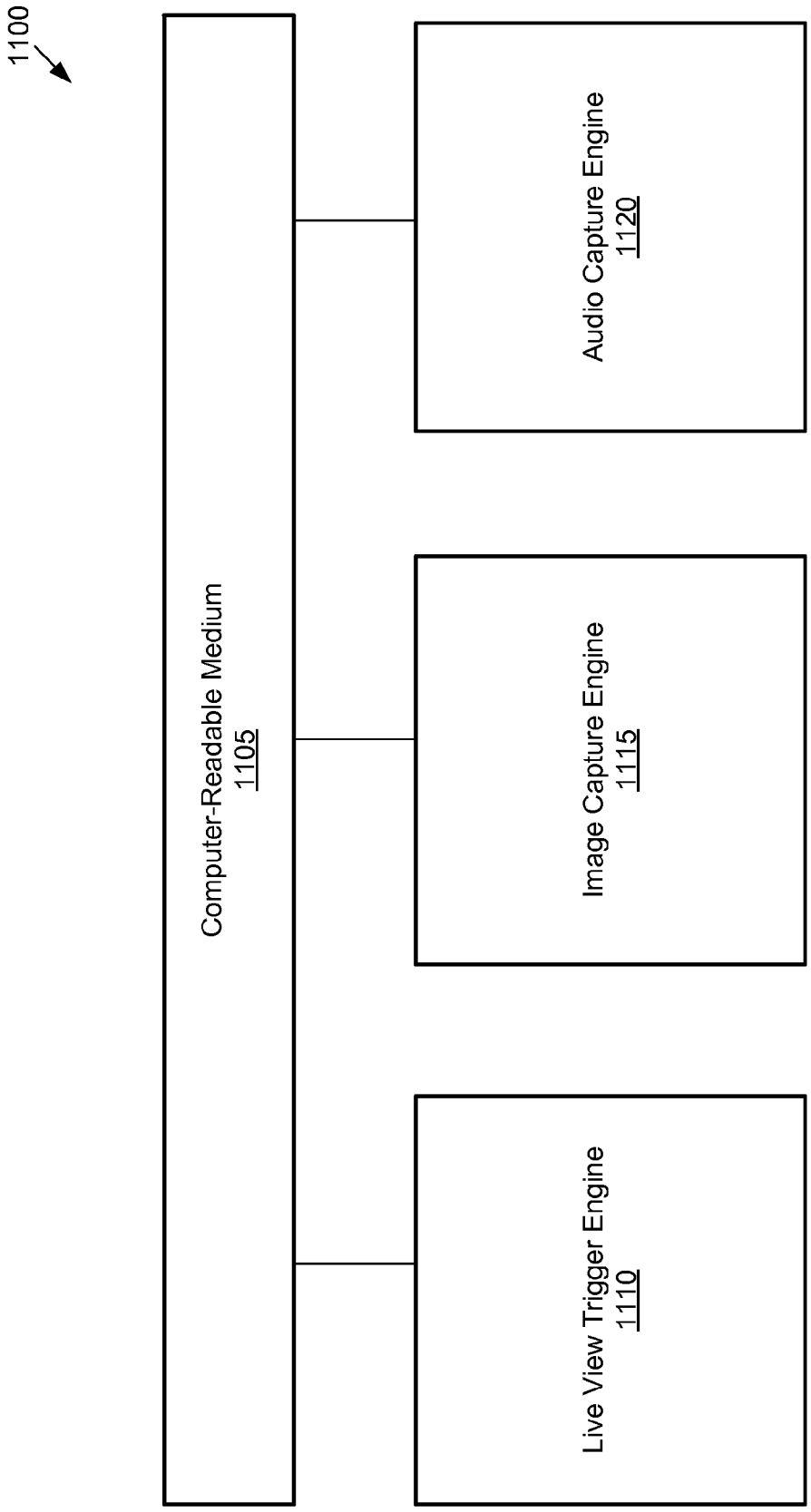
1100
Computer-Readable Medium
1105
Audio Capture Engine
1120
Image Capture Engine
1115
Live View Trigger Engine
1110

FIGURE 11

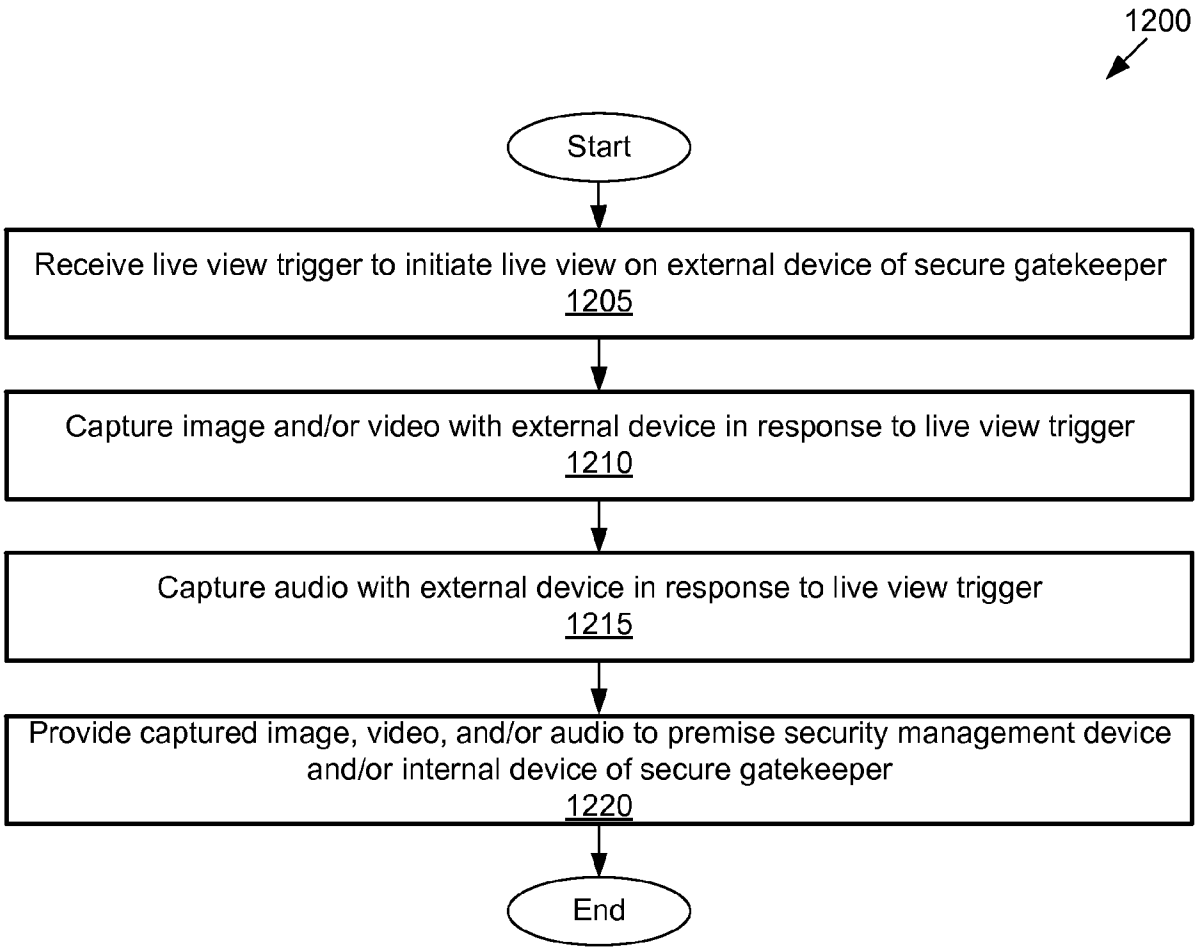
1200
Start
Receive live view trigger to initiate live view on external device of secure gatekeeper
1205
Capture image and/or video with external device in response to live view trigger
1210
Capture audio with external device in response to live view trigger
1215
Provide captured image, video, and/or audio to premise security management device and/or internal device of secure gatekeeper
1220
End

FIGURE 12

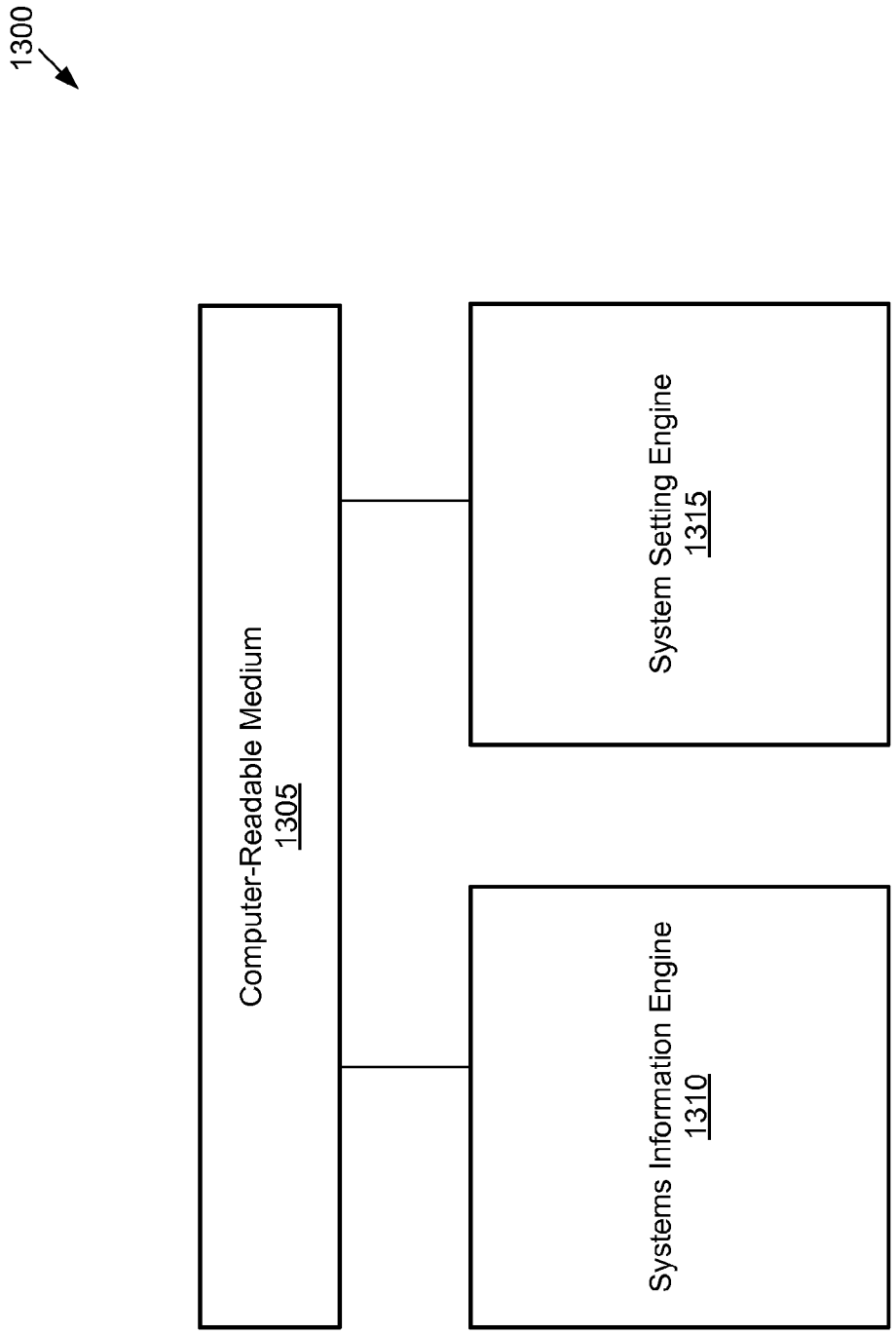
1300
Computer-Readable Medium
1305
System Setting Engine
1315
Systems Information Engine
1310

FIGURE 13

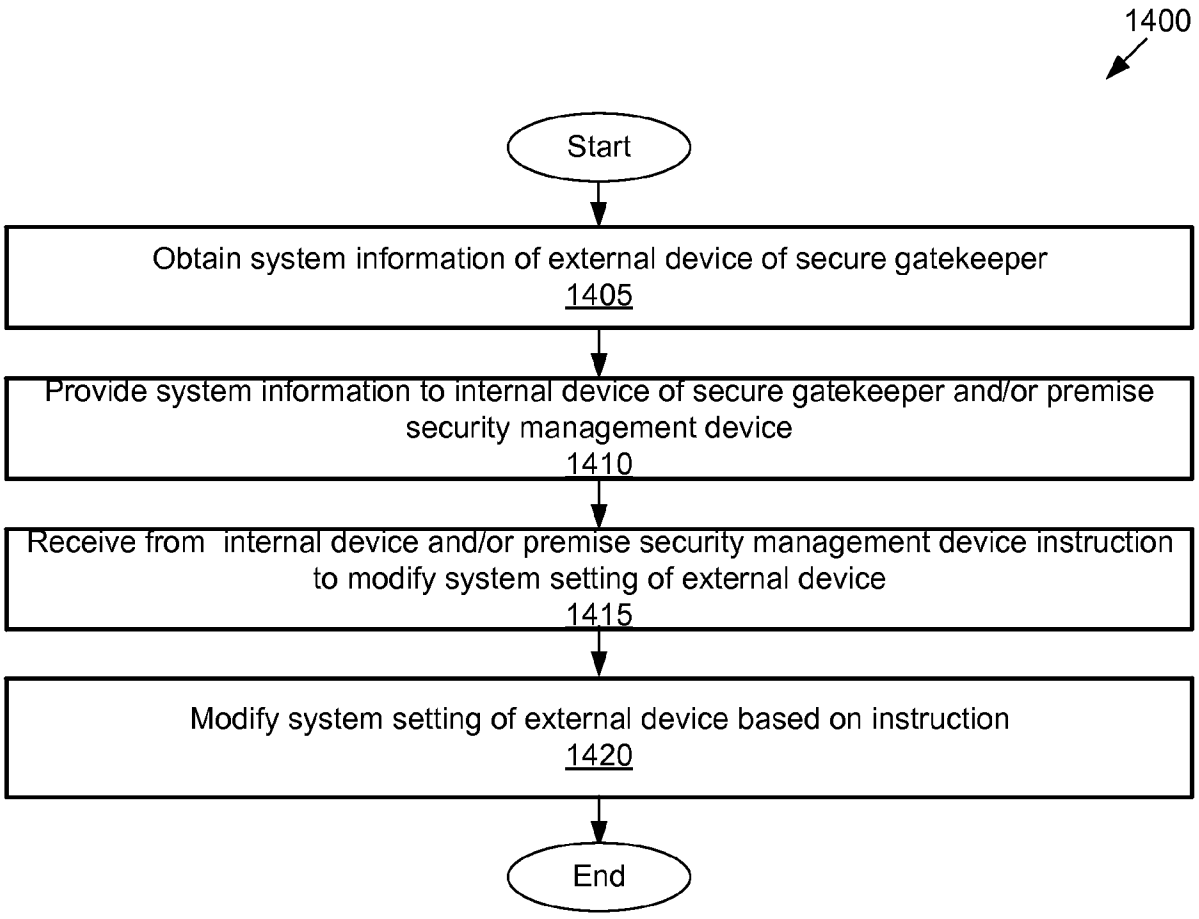
1400
Start
Obtain system information of external device of secure gatekeeper
1405
Provide system information to internal device of secure gatekeeper and/or premise security management device
1410
Receive from internal device and/or premise security management device instruction to modify system setting of external device
1415
Modify system setting of external device based on instruction
1420
End

FIGURE 14

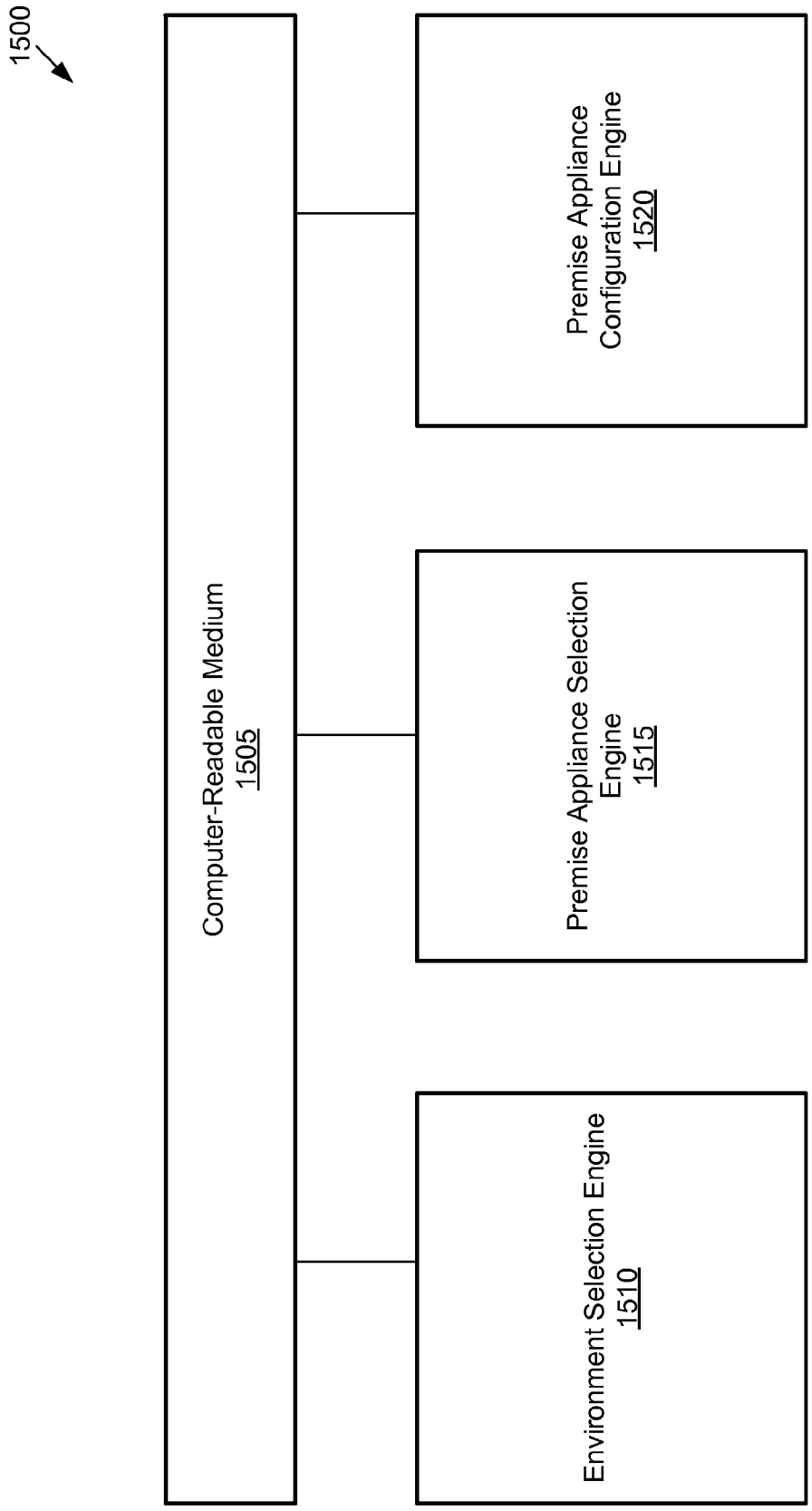
1500
Computer-Readable Medium
1505
Premise Appliance Configuration Engine
1520
Premise Appliance Selection Engine
1515
Environment Selection Engine
1510

FIGURE 15

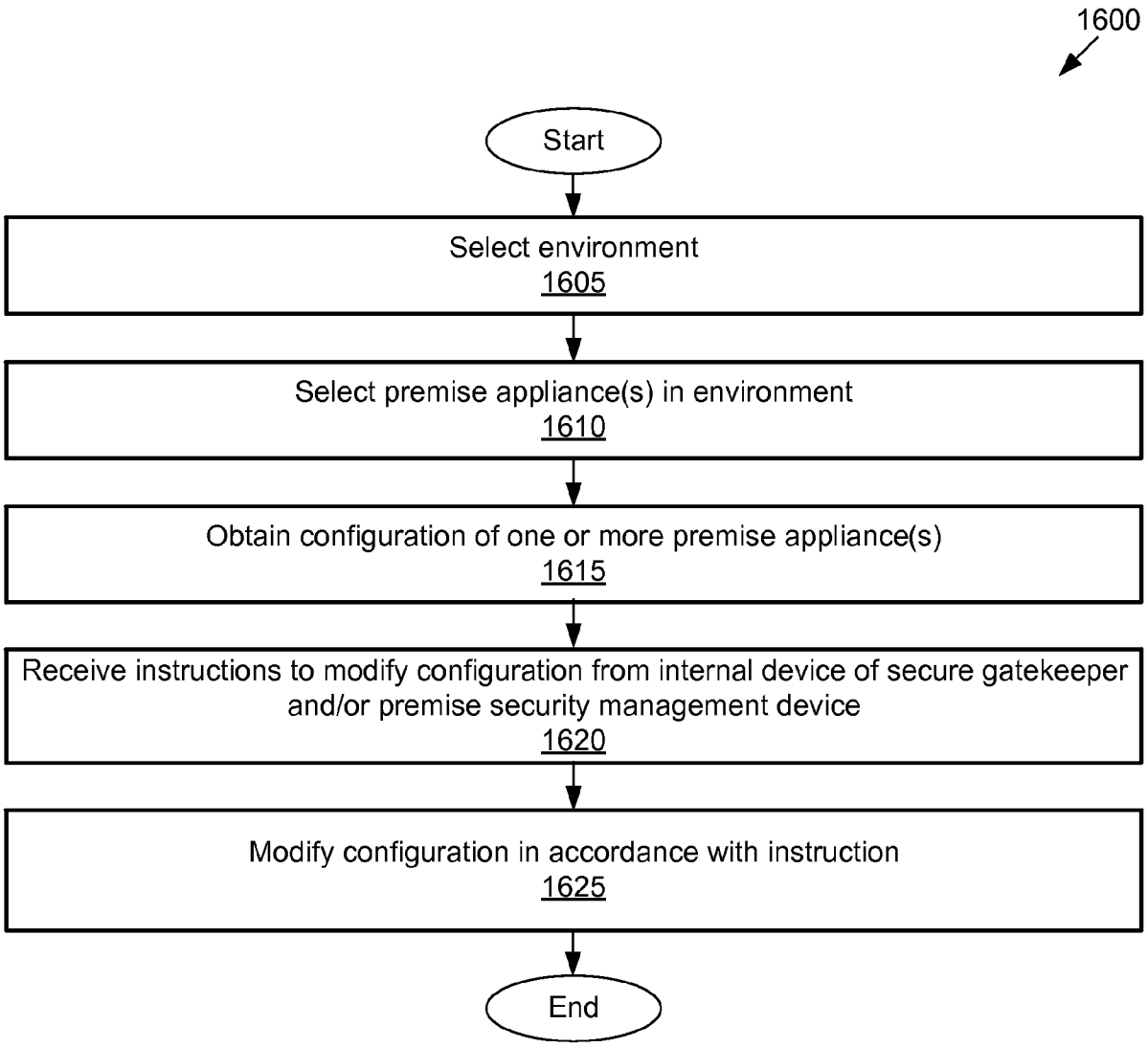
1600
Start
Select environment
1605
Select premise appliance(s) in environment
1610
Obtain configuration of one or more premise appliance(s)
1615
Receive instructions to modify configuration from internal device of secure gatekeeper and/or premise security management device
1620
Modify configuration in accordance with instruction
1625
End

FIGURE 16

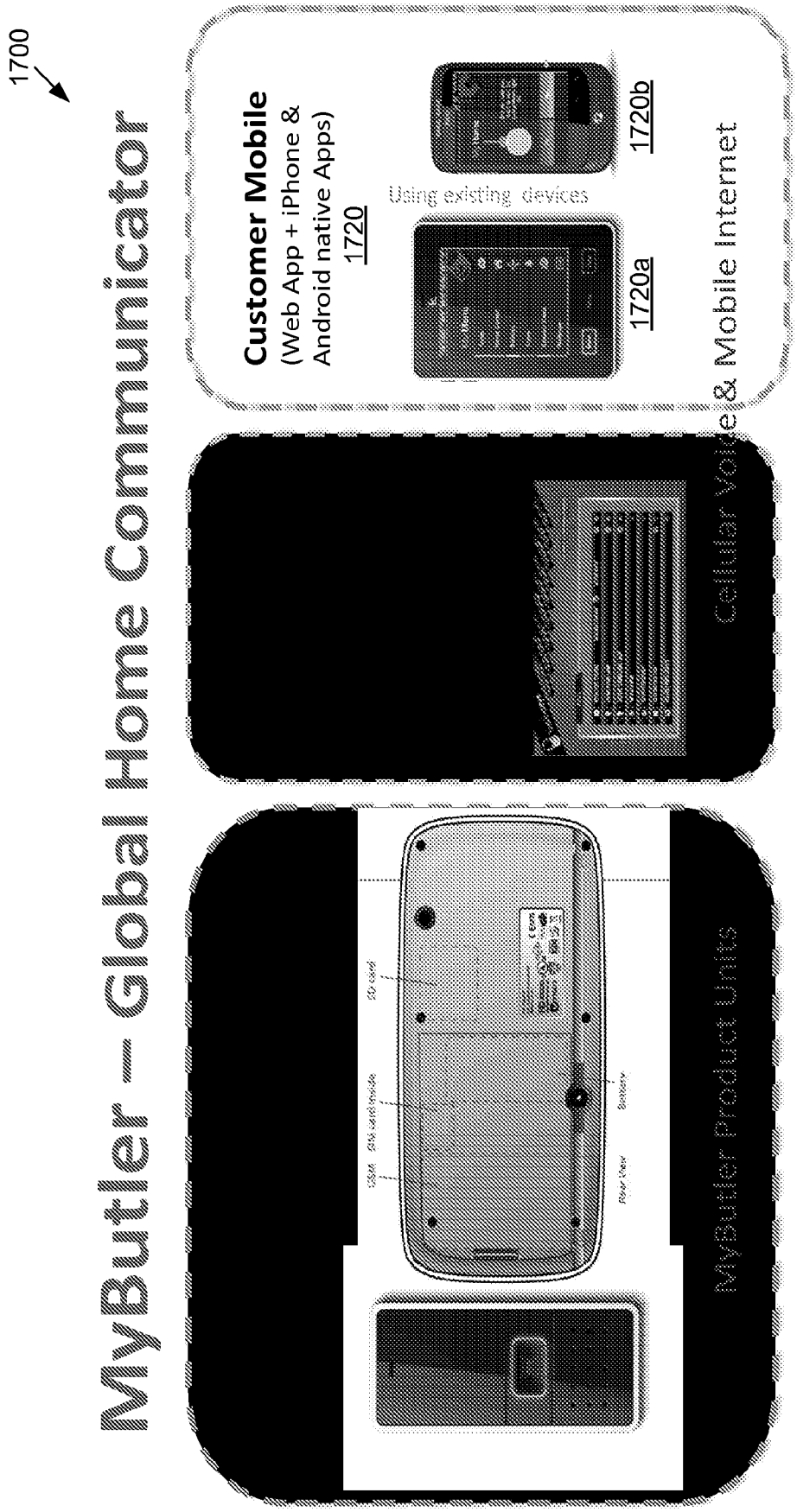
1700
MyButler – Global Home Communicator
MyButler Product Units
Cellular Voice & Mobile Internet
Customer Mobile
(Web App + iPhone & Android native Apps)
1720
Using existing devices
1720a
1720b
MyButler connects you to your Home Globally

FIGURE 17

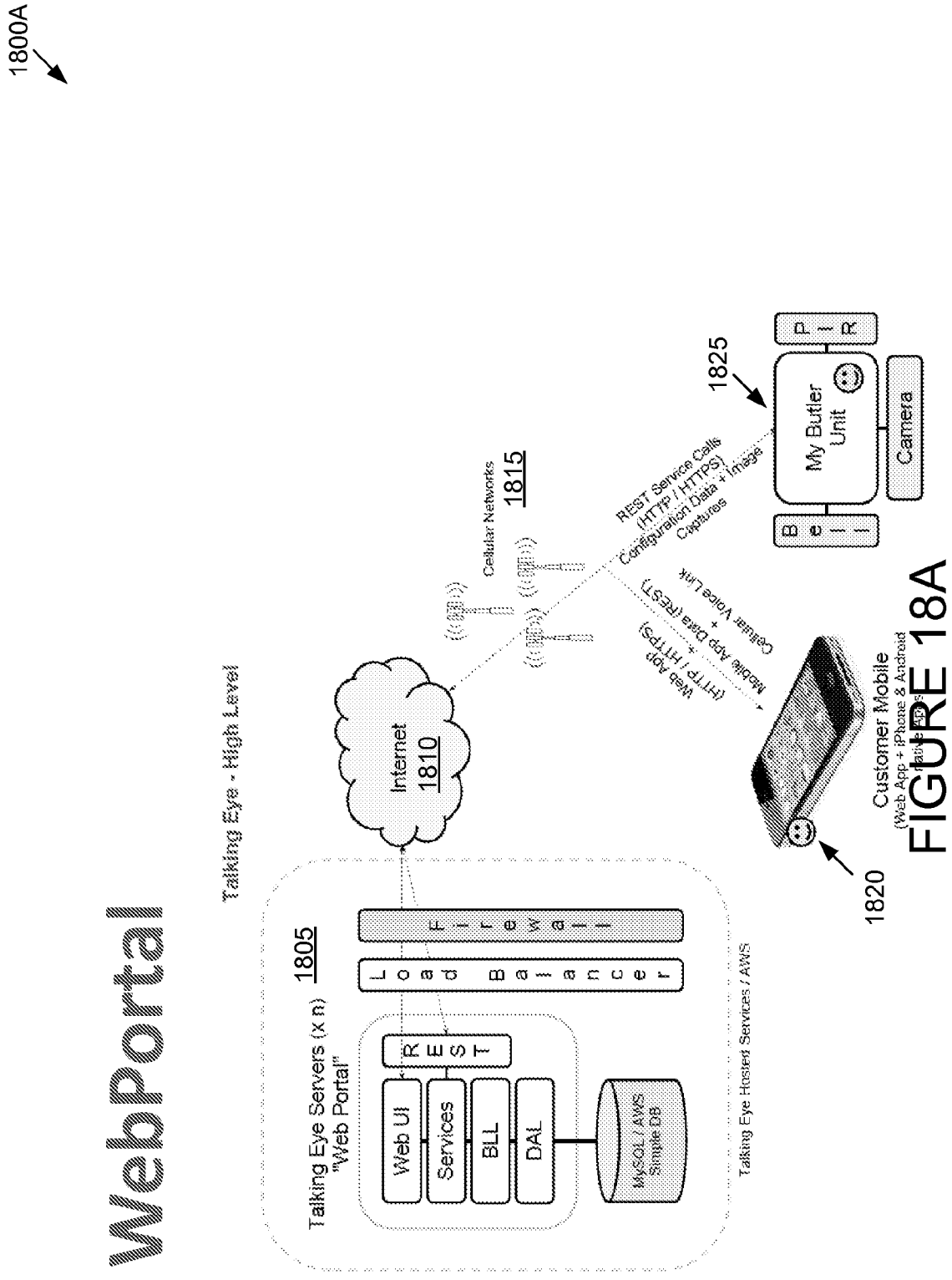
1800A
WebPortal
Talking Eye - High Level
Talking Eye Servers (x n)
"Web Portal"
1805
Load Balancer
Firewall
Web UI
Services
BLL
DAL
REST
MySQL / AWS
Simple DB
Talking Eye Hosted Services / AWS
Internet
1810
Cellular Networks
1815
Web App
(HTTP / HTTPS)
Mobile App Data (REST)
+
Cellular Voice Link
REST Service Calls
(HTTP / HTTPS)
Configuration Data + Image
Captures
1825
My Butler
Unit
Bell
PIR
Camera
Customer Mobile
(Web App + iPhone & Android
1820

FIGURE 18A

1800B

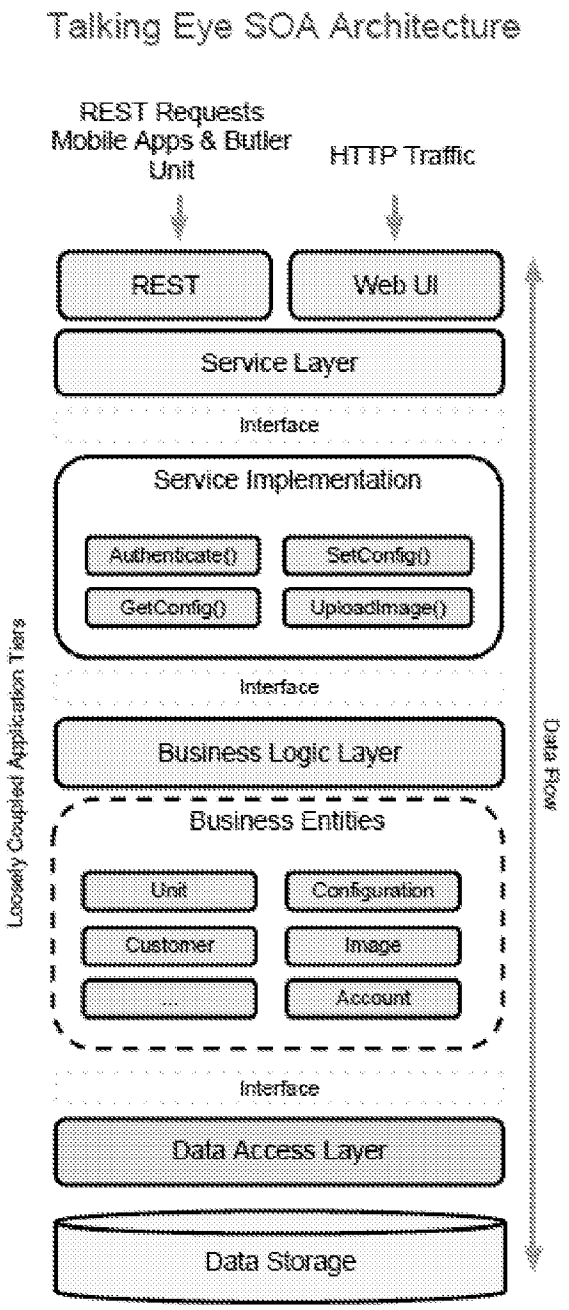

FIGURE 18B

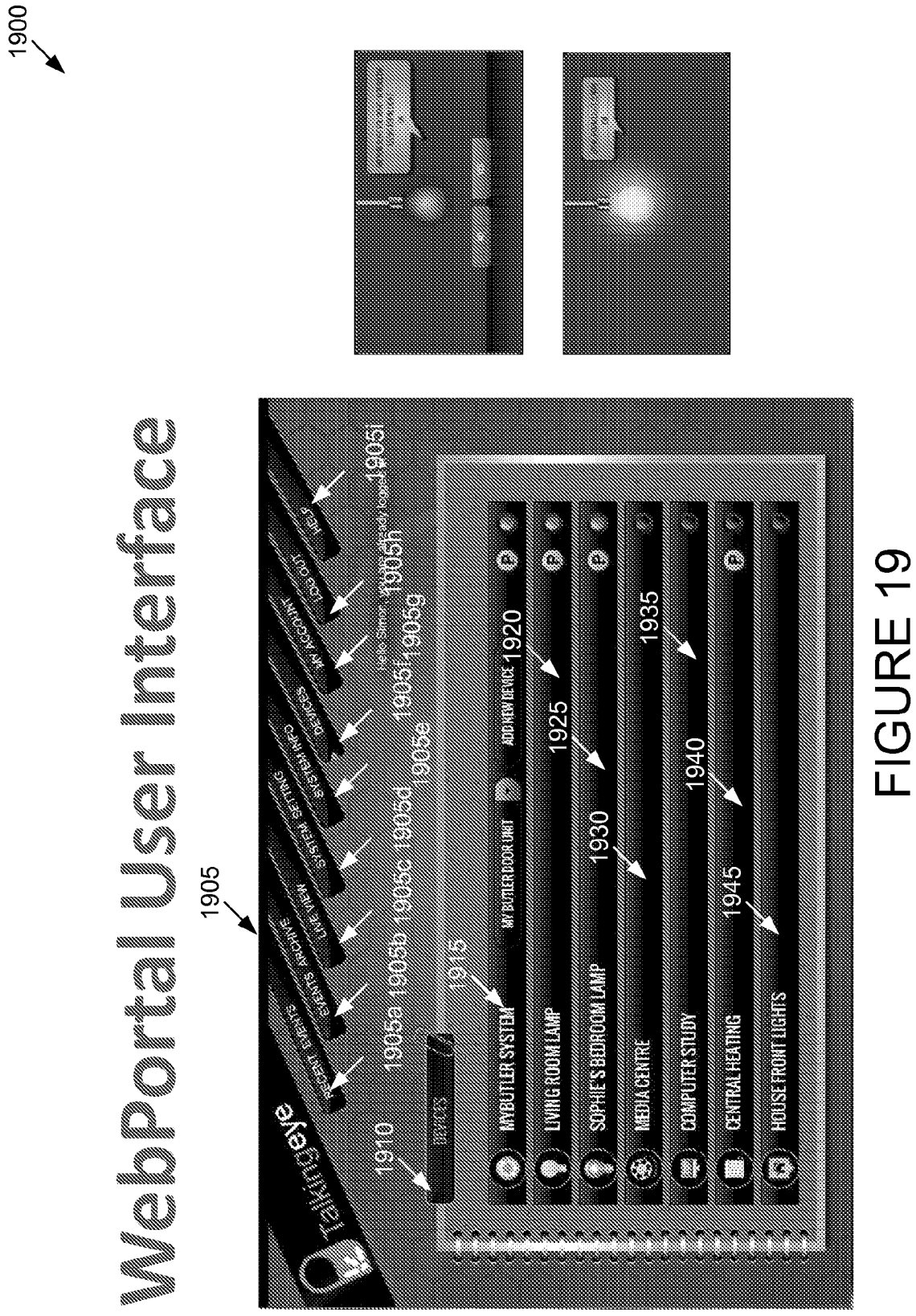
1900
WebPortal User Interface
1905
1910
1915
1920
1925
1930
1935
1940
1945
MYBUTLER SYSTEM
LIVING ROOM LAMP
SOPHIE'S BEDROOM LAMP
MEDIA CENTRE
COMPUTER STUDY
CENTRAL HEATING
HOUSE FRONT LIGHTS
ADD NEW DEVICE

FIGURE 19

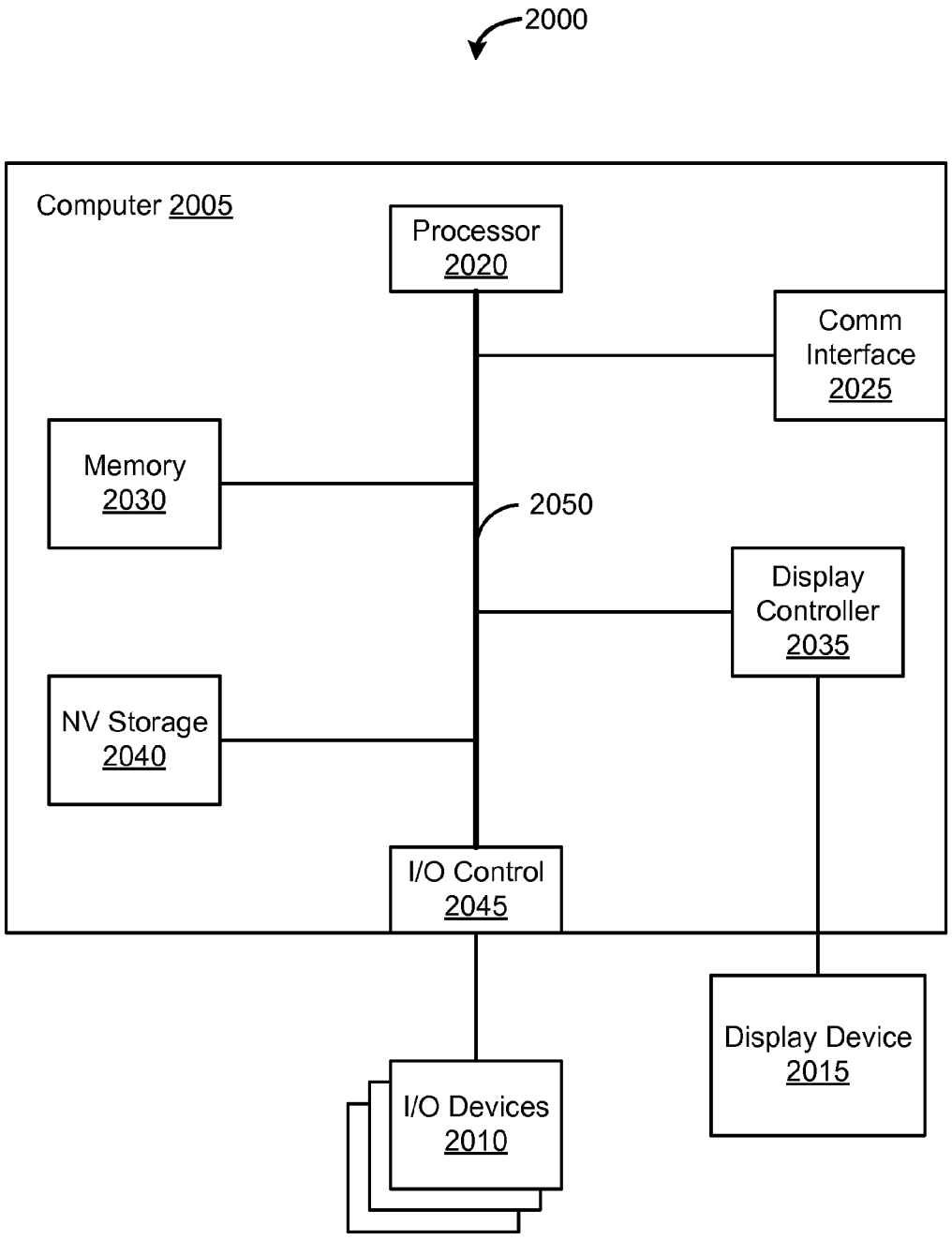
2000
Computer 2005
Processor 2020
Comm Interface 2025
Memory 2030
2050
Display Controller 2035
NV Storage 2040
I/O Control 2045
Display Device 2015
I/O Devices 2010

FIGURE 20