

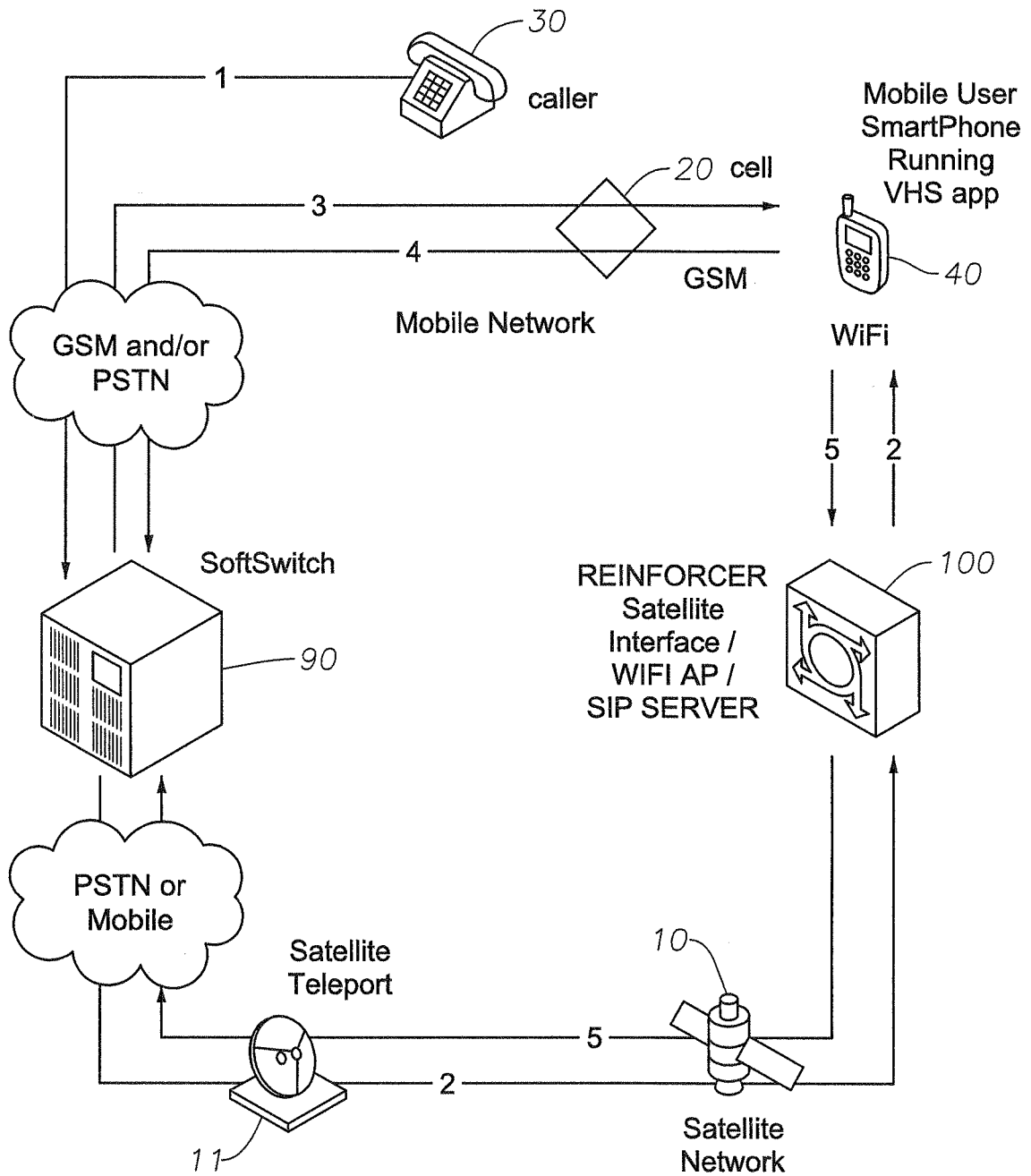


FIG. A

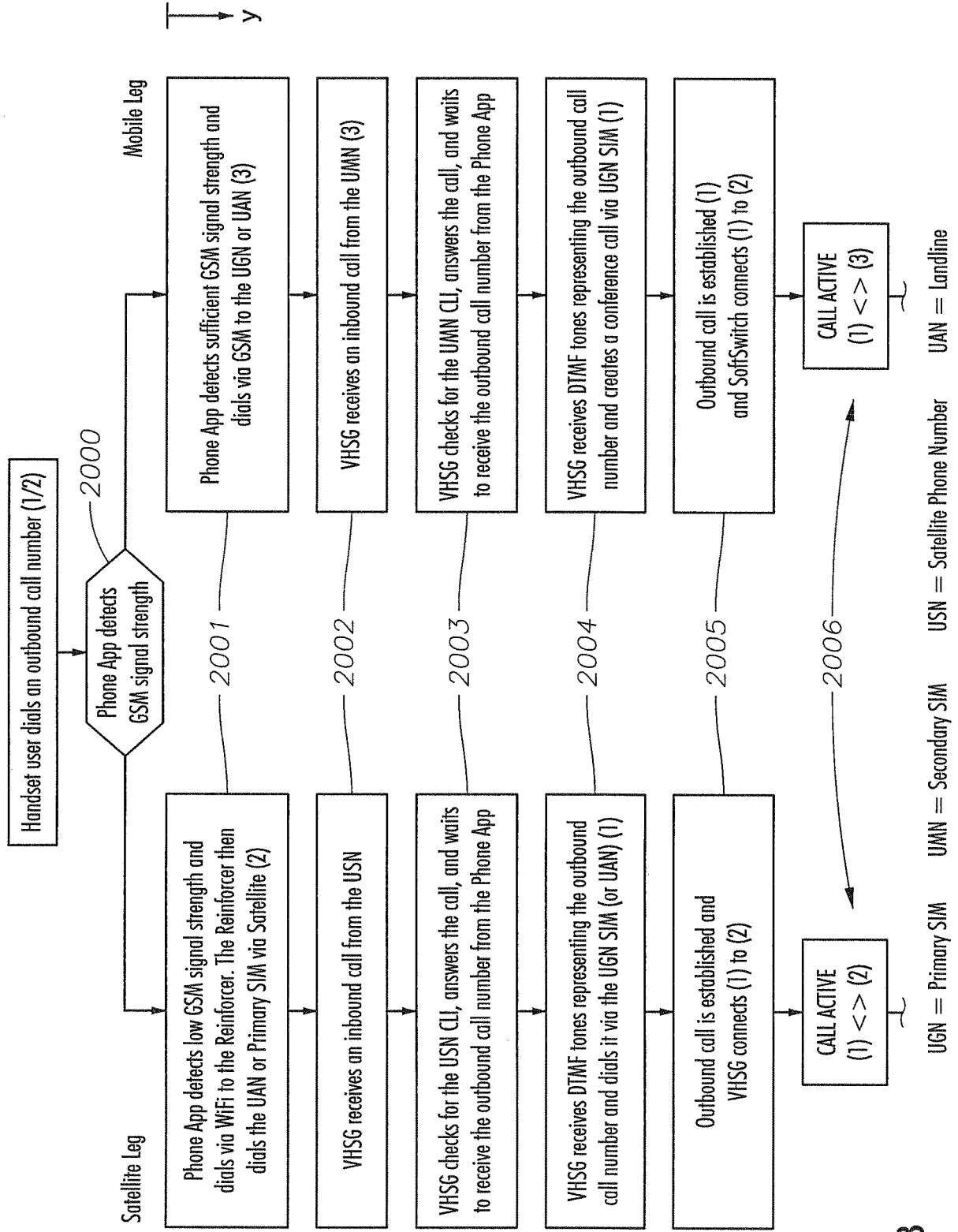


FIG. B

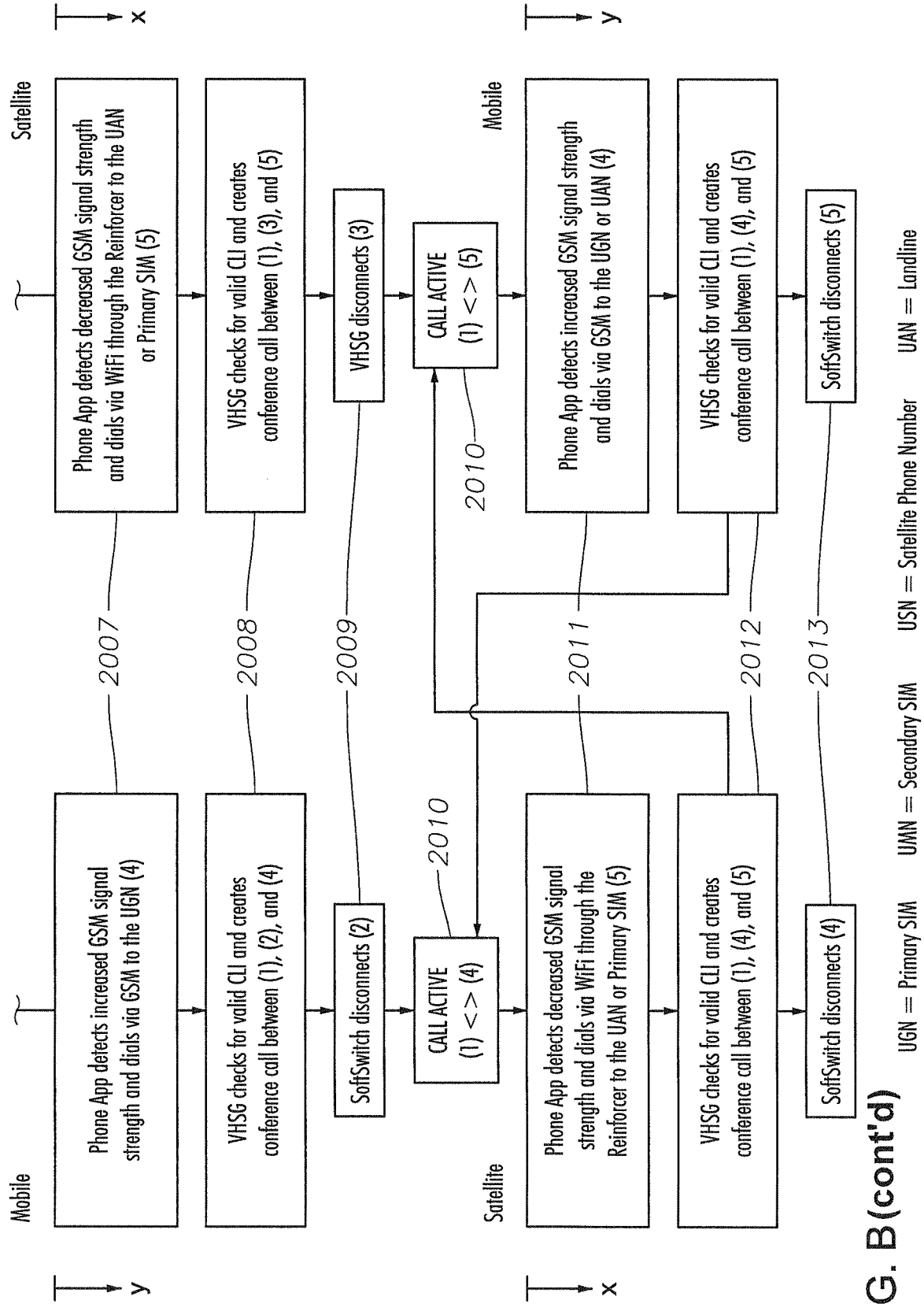


FIG. B(cont'd)



உ

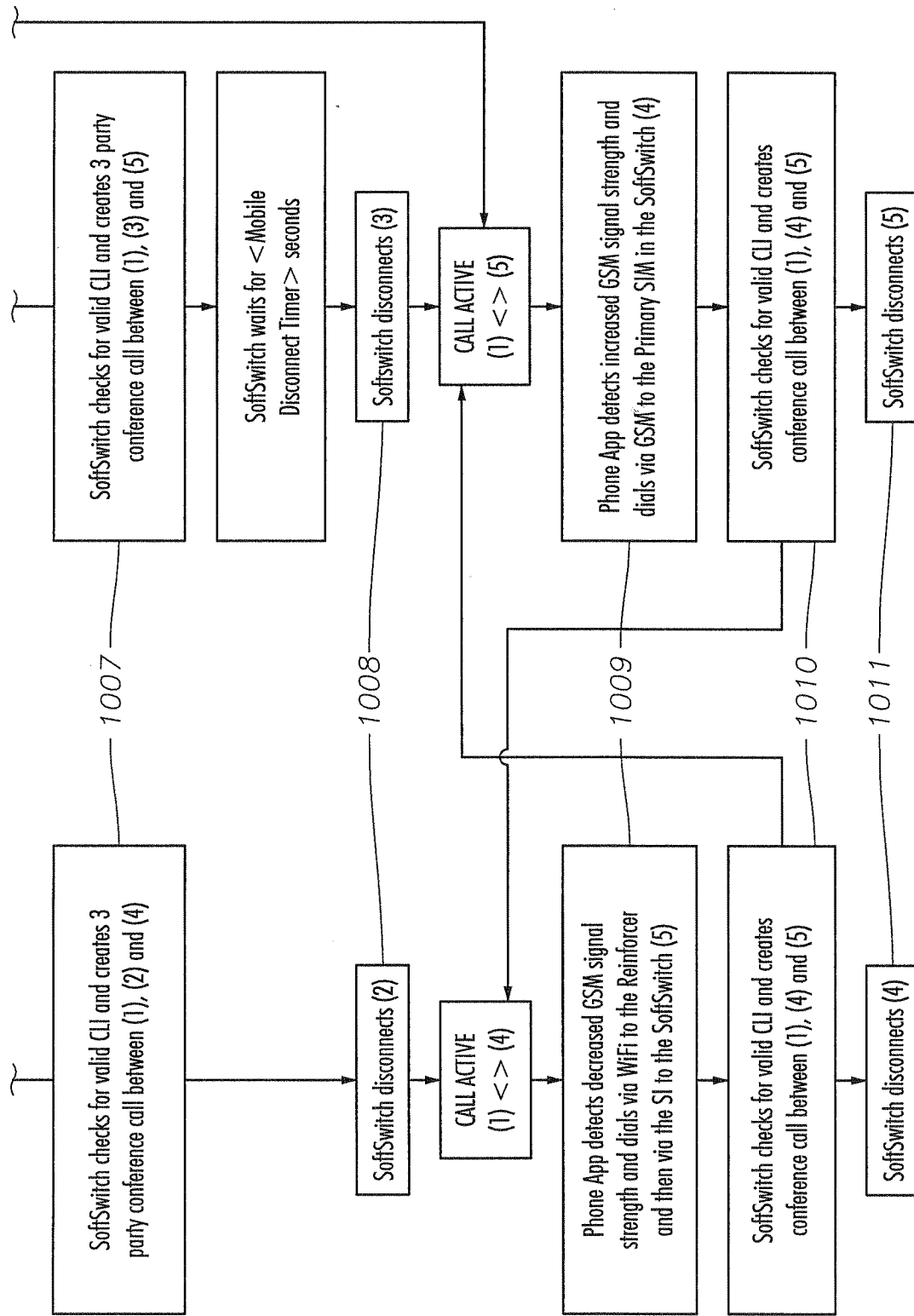


FIG. C (cont'd)

Vertical Handover SoftSwitch Components

The VHSG is a combination of four separate sub-systems, they are: Mobile Operator Interface (MOI), Users Channel Module (UCM), SoftSwitch (SS) and the Media Changer (MC)

MOI	UCM	SS	MC
The MOI is to allow the UCM to connect directly to the MNO via one of three ways; UMA (GANC), Femtocell or Air-Interface. This enables the VHSG to have a direct connection with the MNO using standard user agreements and without needing any special roaming contracts.	The UCM consists of multiple channel modules which hold the user's Subscriber Identity Module (SIM) cards. Each subscriber is allocated a SIM card which holds their ported UGN.	The SoftSwitch is a multi process which runs all the core functions.	The media changer is a combination of hardware and software which allow the SS to interface with different media such as PSTN, ISDN, and IP.

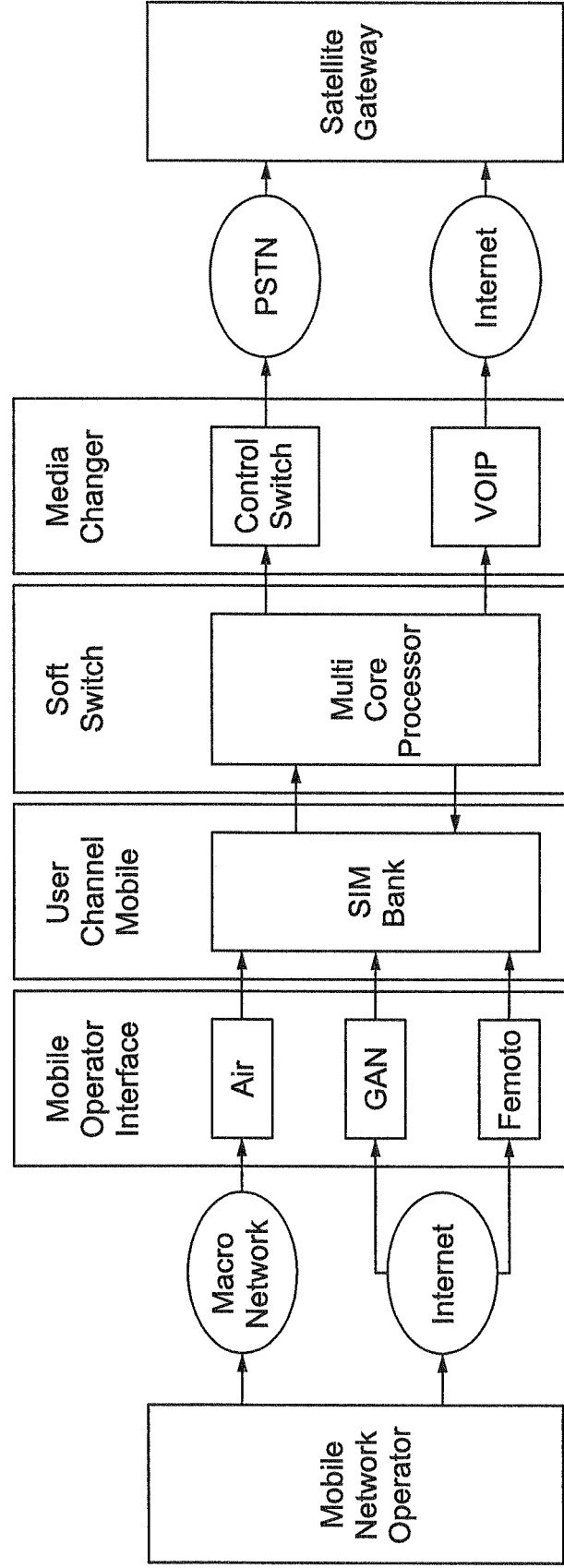
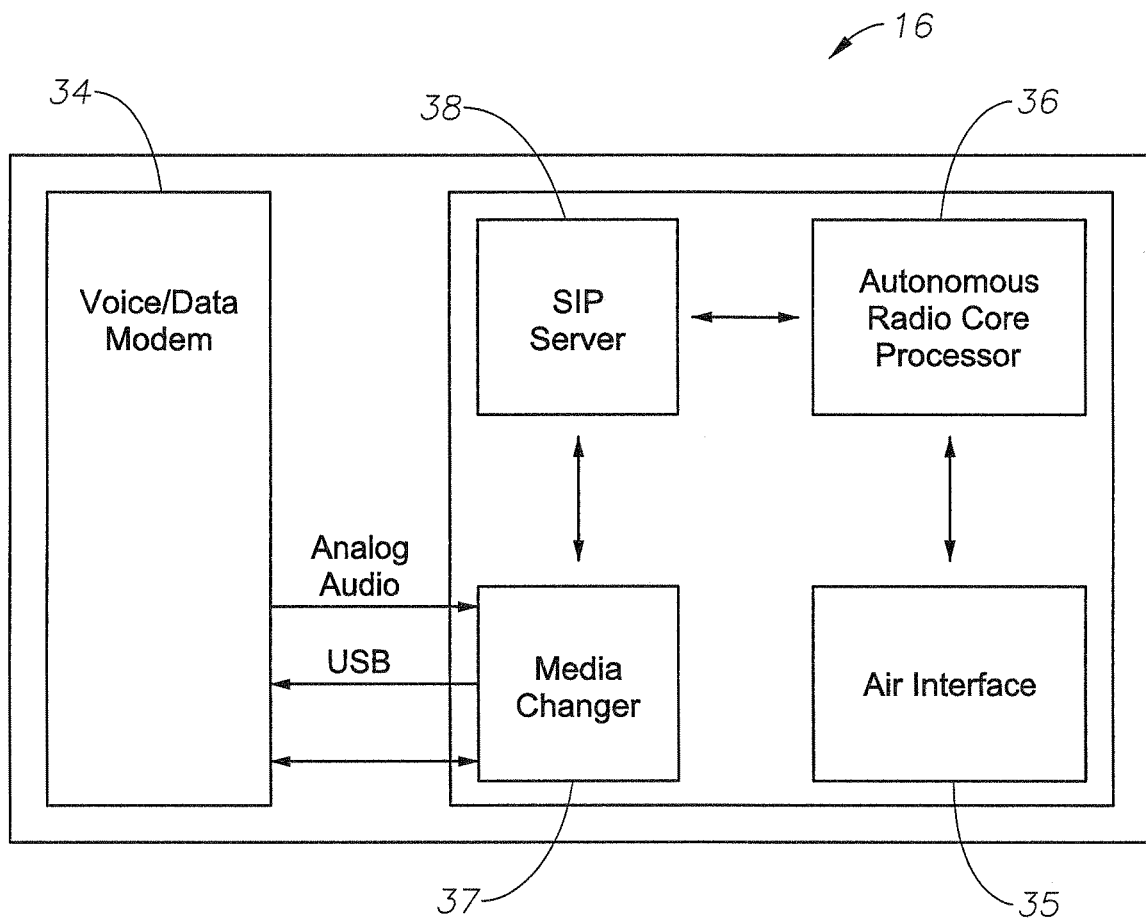


FIG. D



- 1720 Voice / Data Modem
- Media Changer
- Autonomous Radio Core
- Air Interfaces:
2G / 3G / Wifi / Bluetooth
- Voip Sip Server
- Dynamic Web Cash (Optional)
- Email Server (Optional)

FIG. E

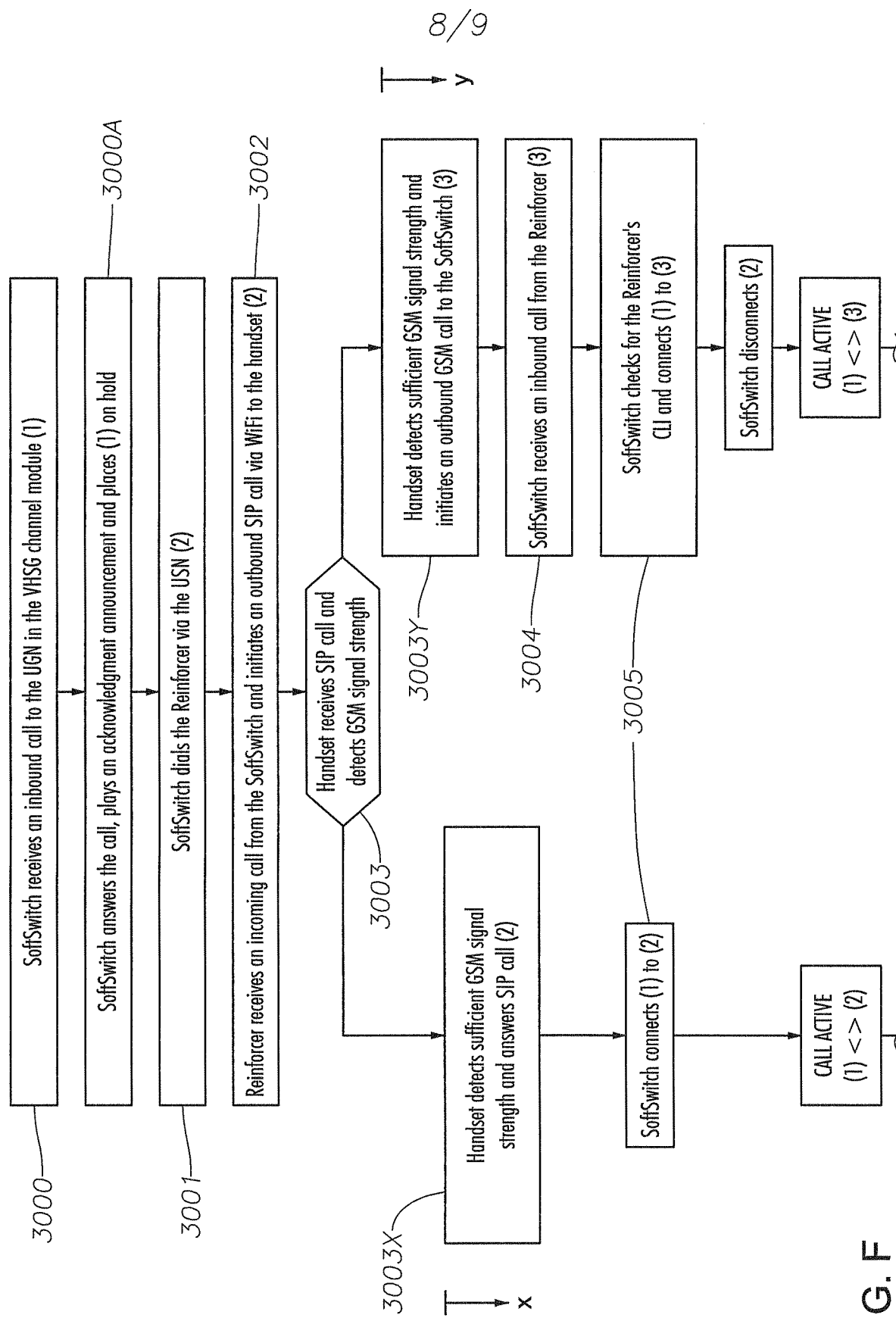


FIG. F

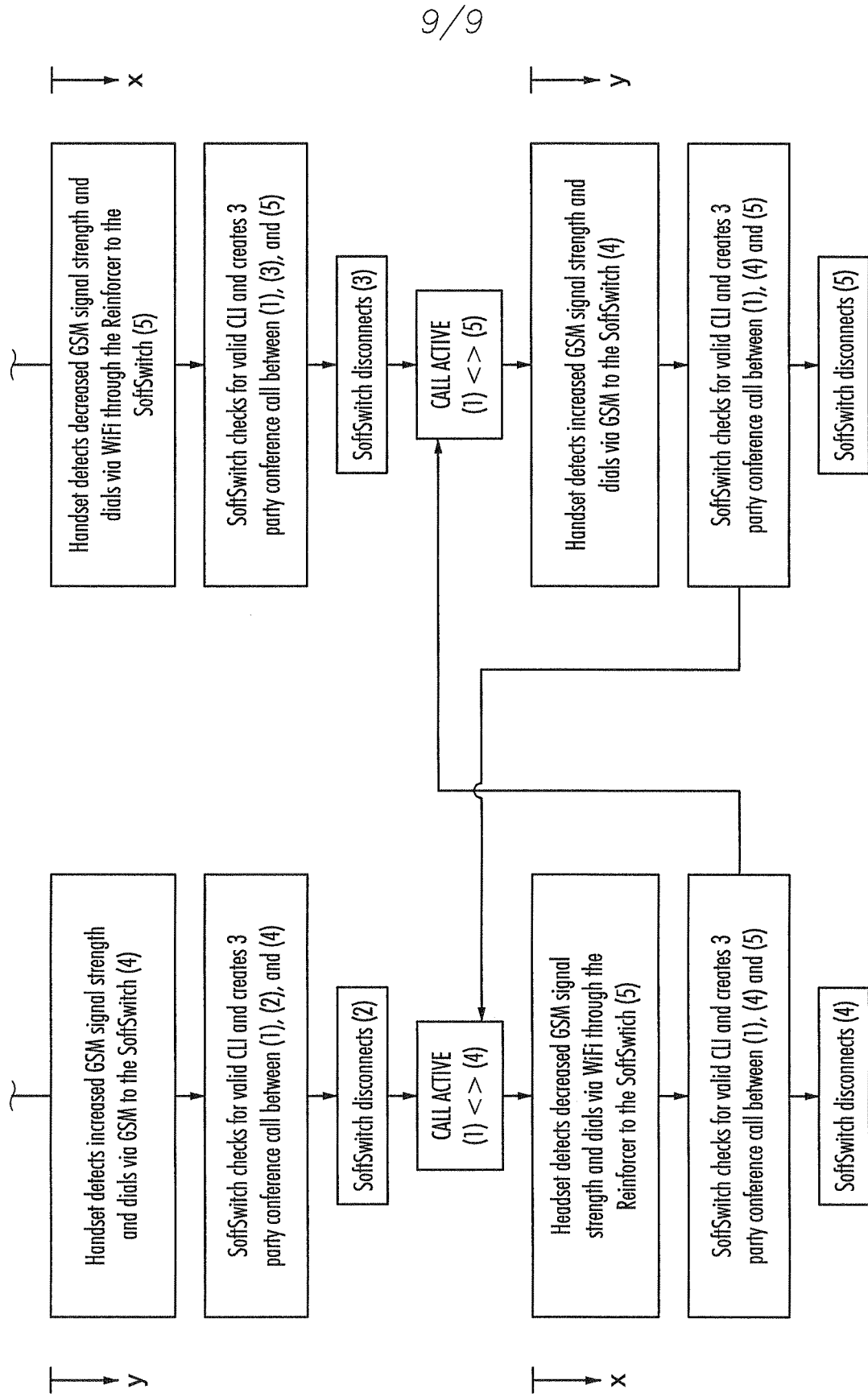
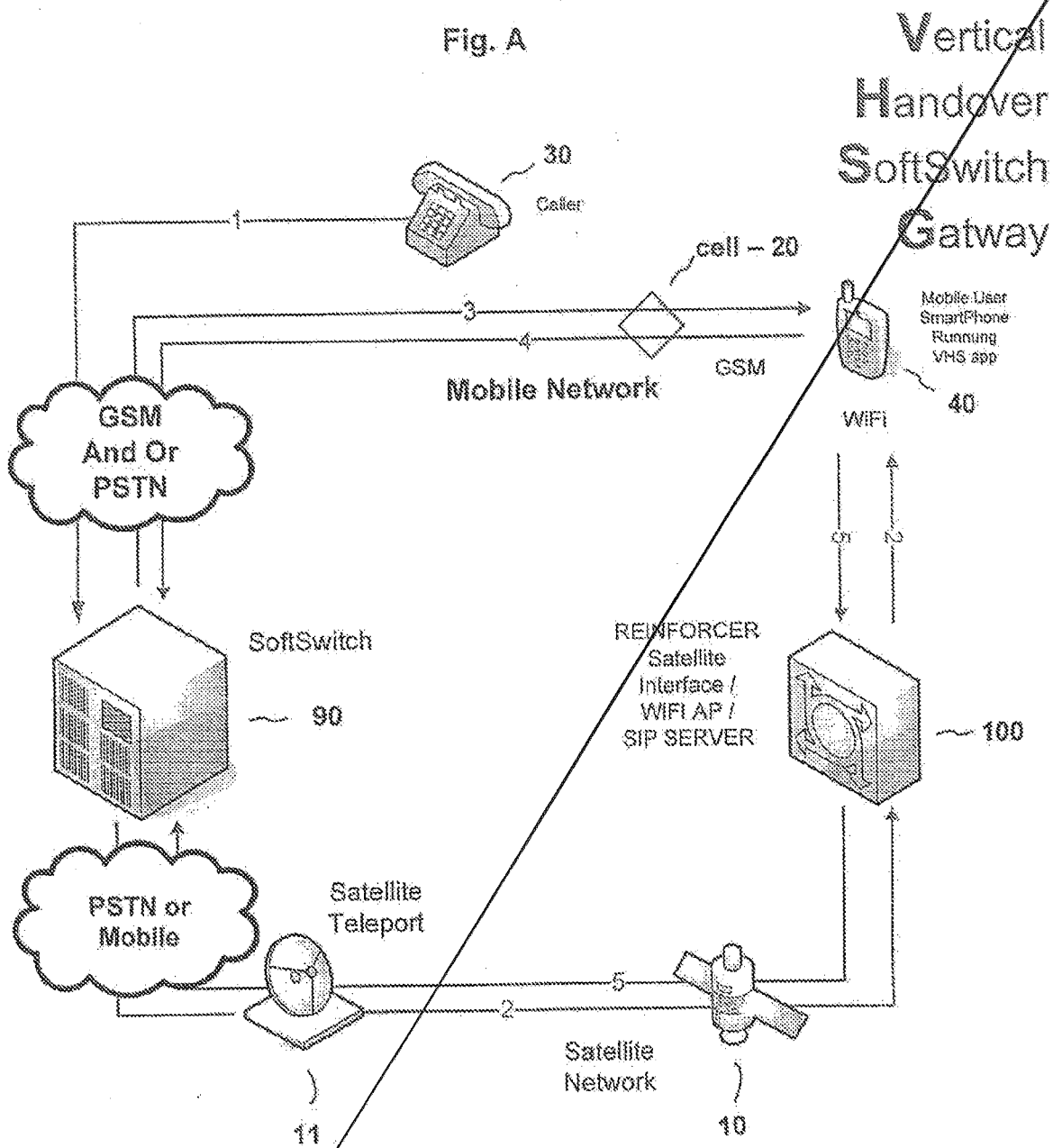


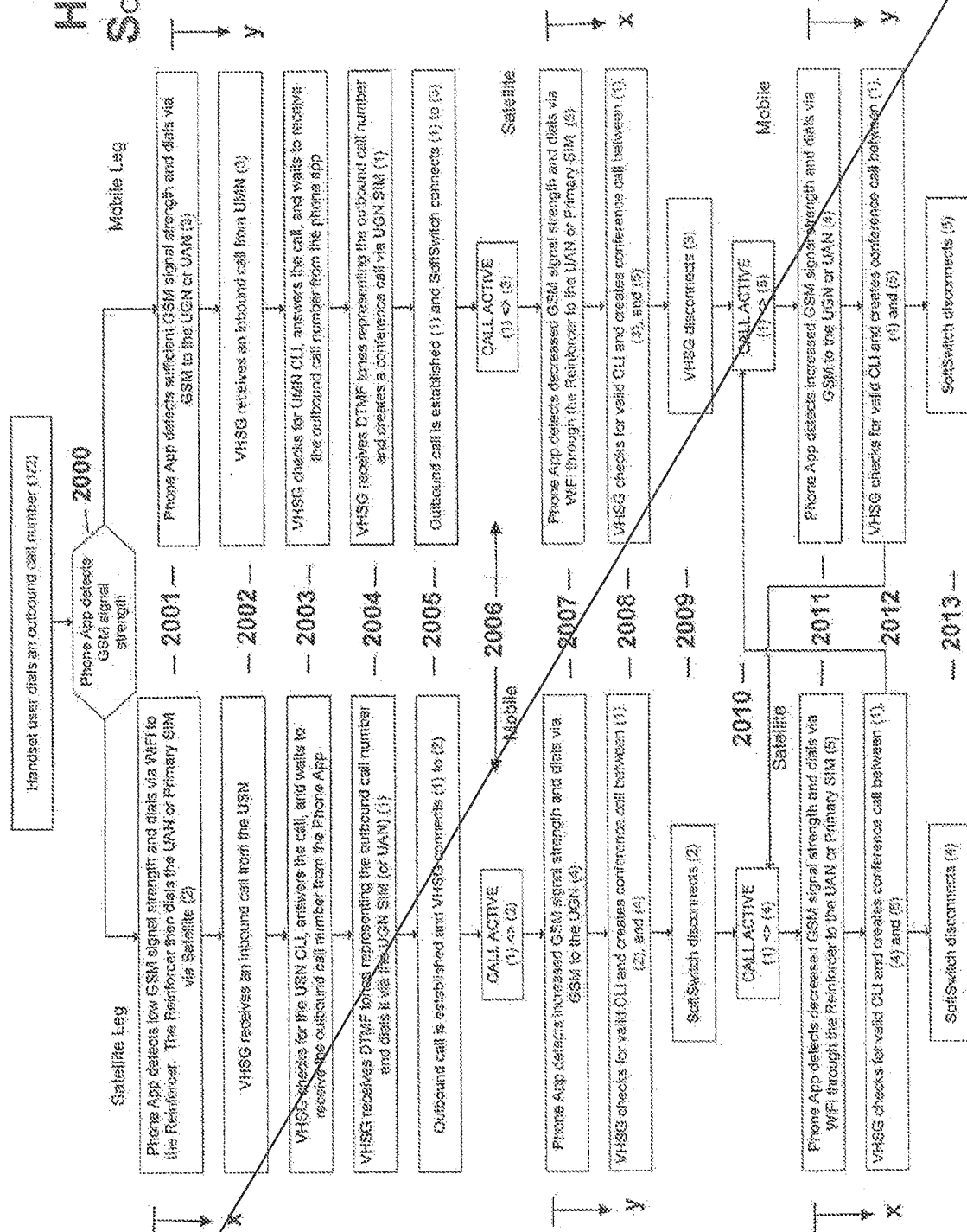
FIG. F (cont'd)

Fig. A

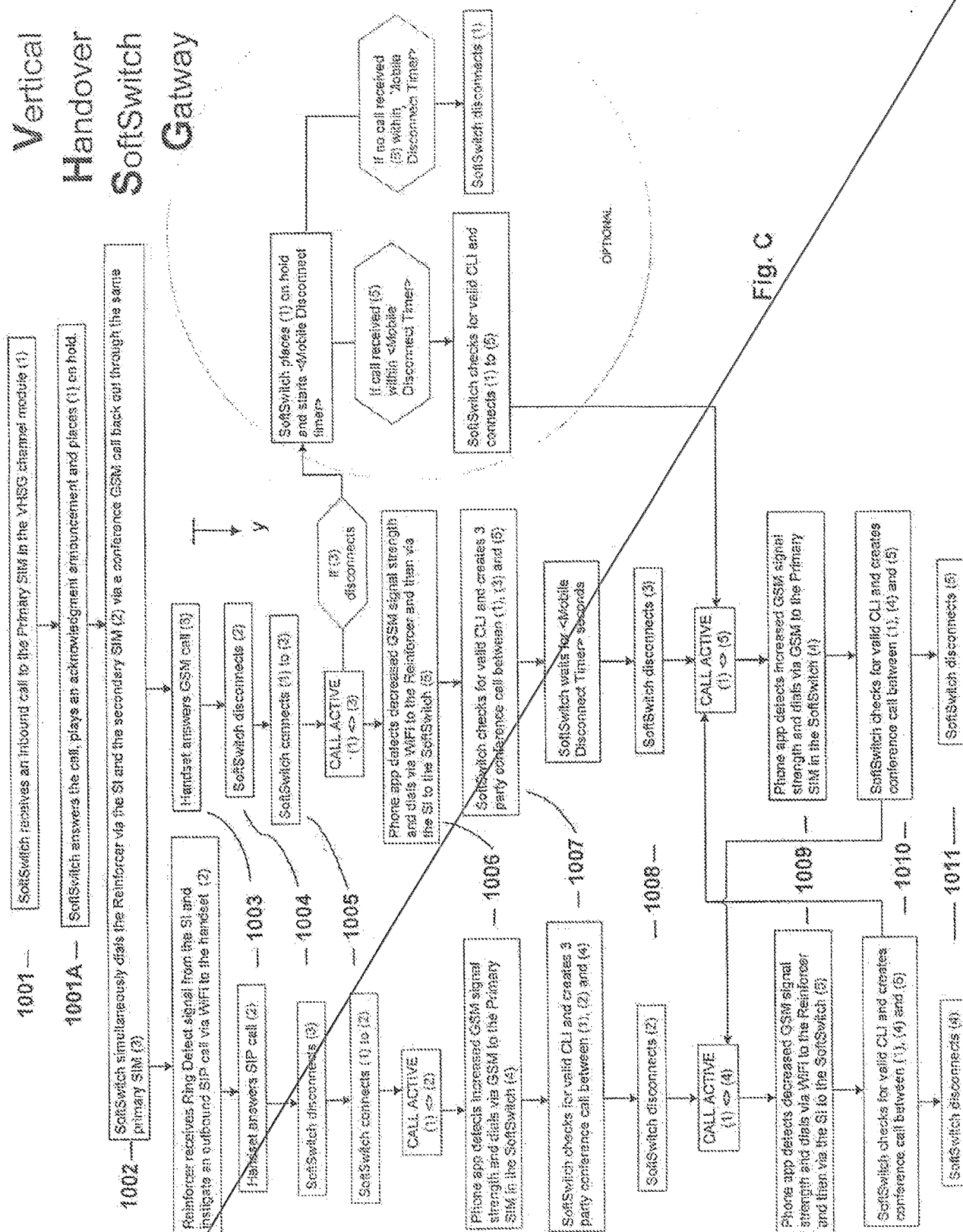


Vertical
Handover
SoftSwitch
Gateway

Fig. B



**Vertical
Handover
SoftSwitch
Gateway**



U
O
L

Fig. D

Vertical Handover SoftSwitch Components

The VHSG is a combination of four separate sub-systems, they are: Mobile Operator Interface (MOI), Users Channel Module (UCM), SoftSwitch (SS) and the Media Changer (MC)

MOI

The MOI is to allow the UCM to connect directly to the MNO via one of three ways; UMA (GANC), Femtocell or Air-Interface. This enables the VHSG to have a direct connection with the MNO using standard user agreements and without needing any special roaming contracts.

UCM

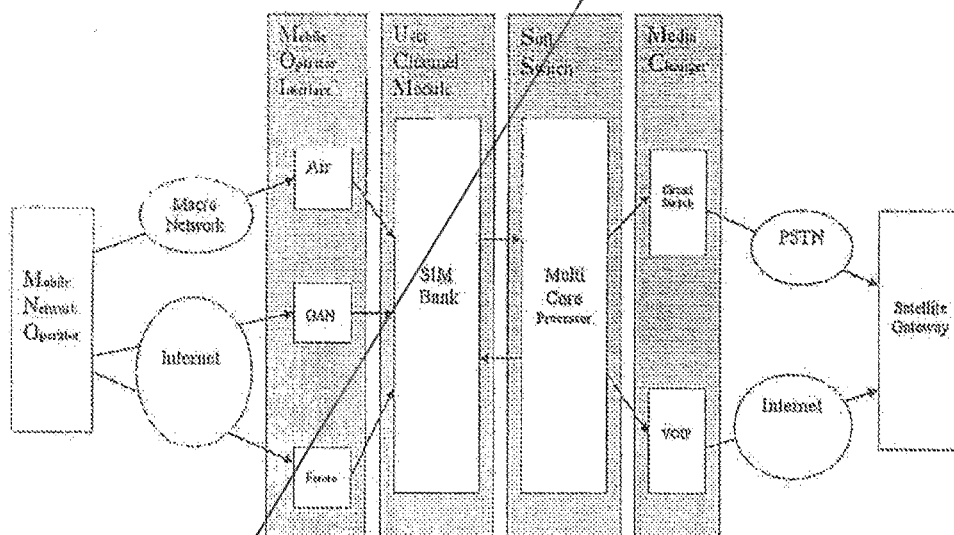
The UCM consists of multiple channel modules which hold the user's Subscriber Identity Module (SIM) cards. Each subscriber is allocated a SIM card which holds their ported UGN.

SS

The SoftSwitch is a multi process which runs all the core functions

MC

The media changer is a combination of hardware and software which allow the SS to interface with different media such as PSTN, ISDN, and IP



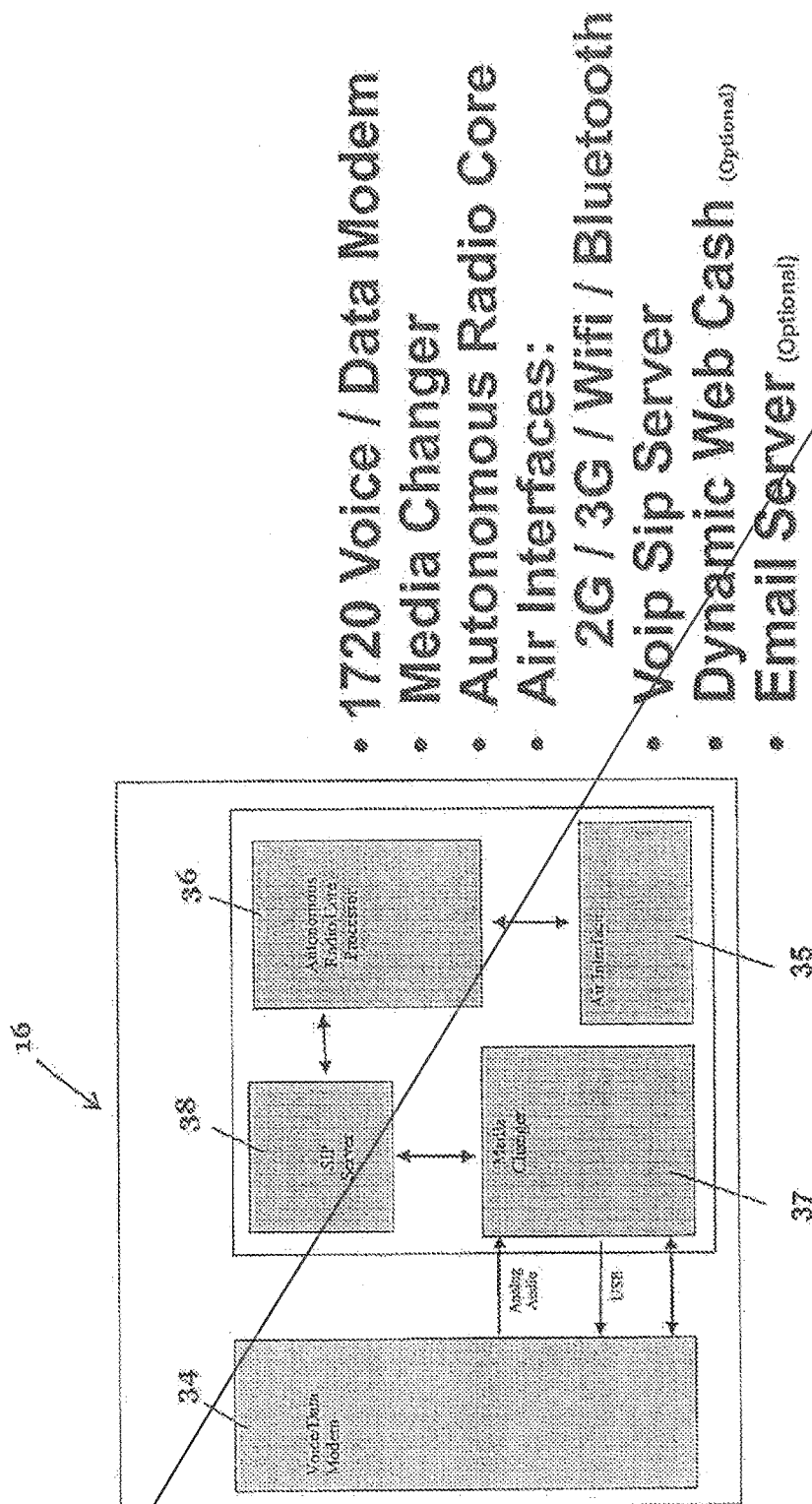


Fig. E

Vertical Handover SoftSwitch Gateway

