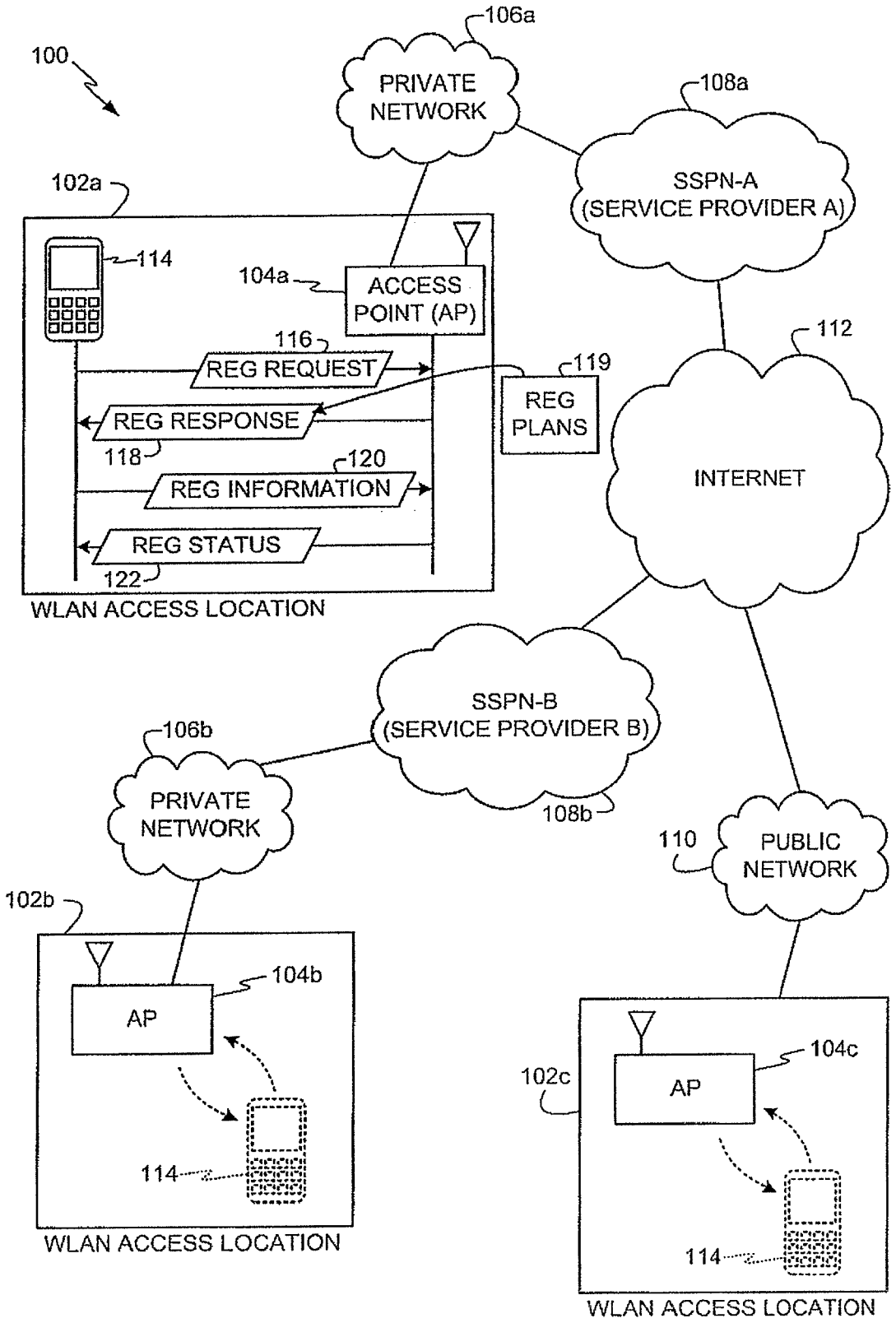
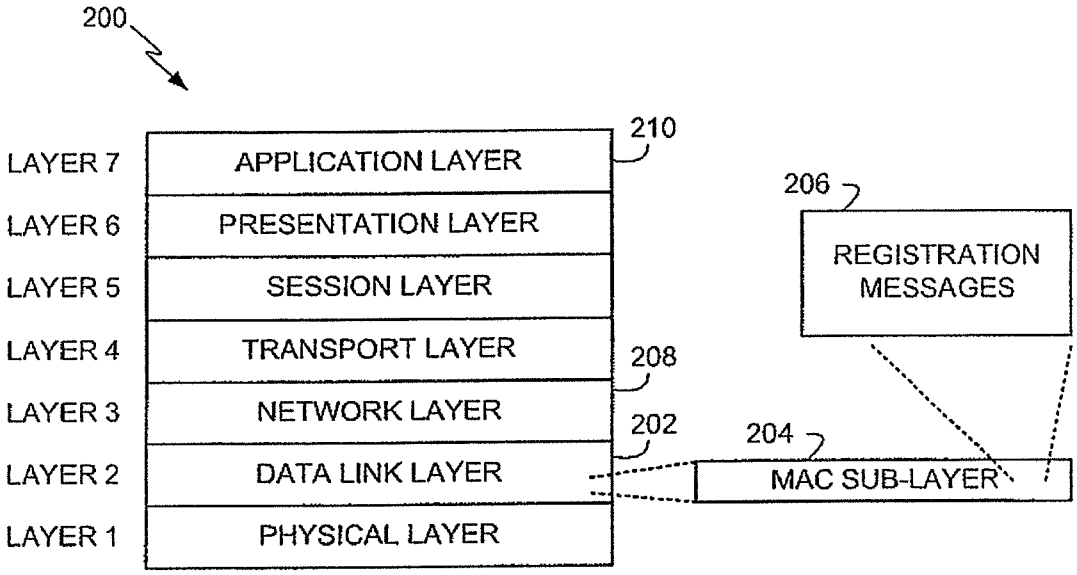

100
106a
PRIVATE NETWORK
108a
SSPN-A (SERVICE PROVIDER A)
102a
114
104a
ACCESS POINT (AP)
116
REG REQUEST
119
REG PLANS
REG RESPONSE
118
120
REG INFORMATION
REG STATUS
122
WLAN ACCESS LOCATION
112
INTERNET
SSPN-B (SERVICE PROVIDER B)
106b
PRIVATE NETWORK
108b
110
PUBLIC NETWORK
102b
AP
104b
114
WLAN ACCESS LOCATION
102c
AP
104c
114
WLAN ACCESS LOCATION

FIG. 1




COMMUNICATION LAYER ARCHITECTURE

FIG. 2

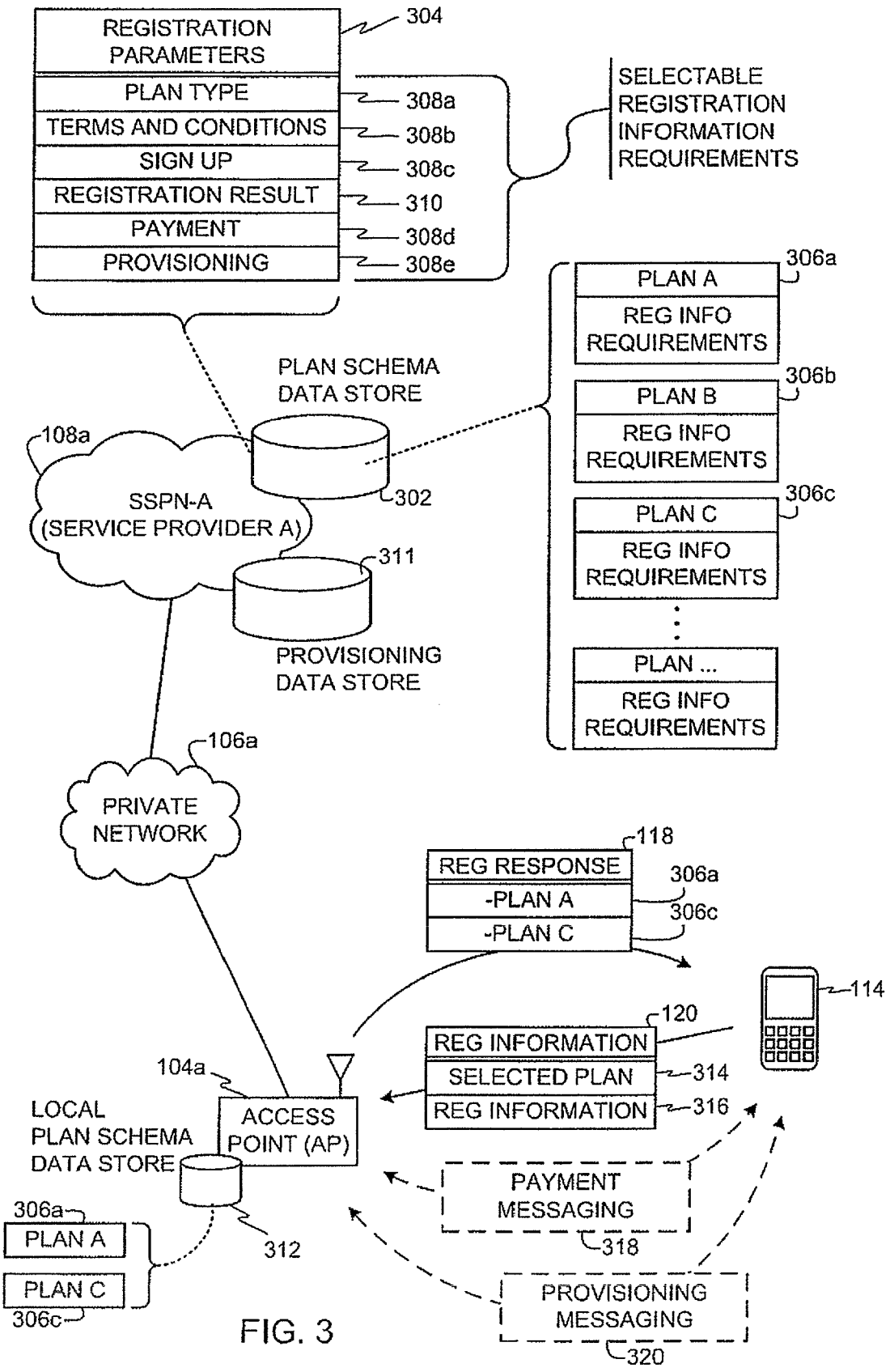
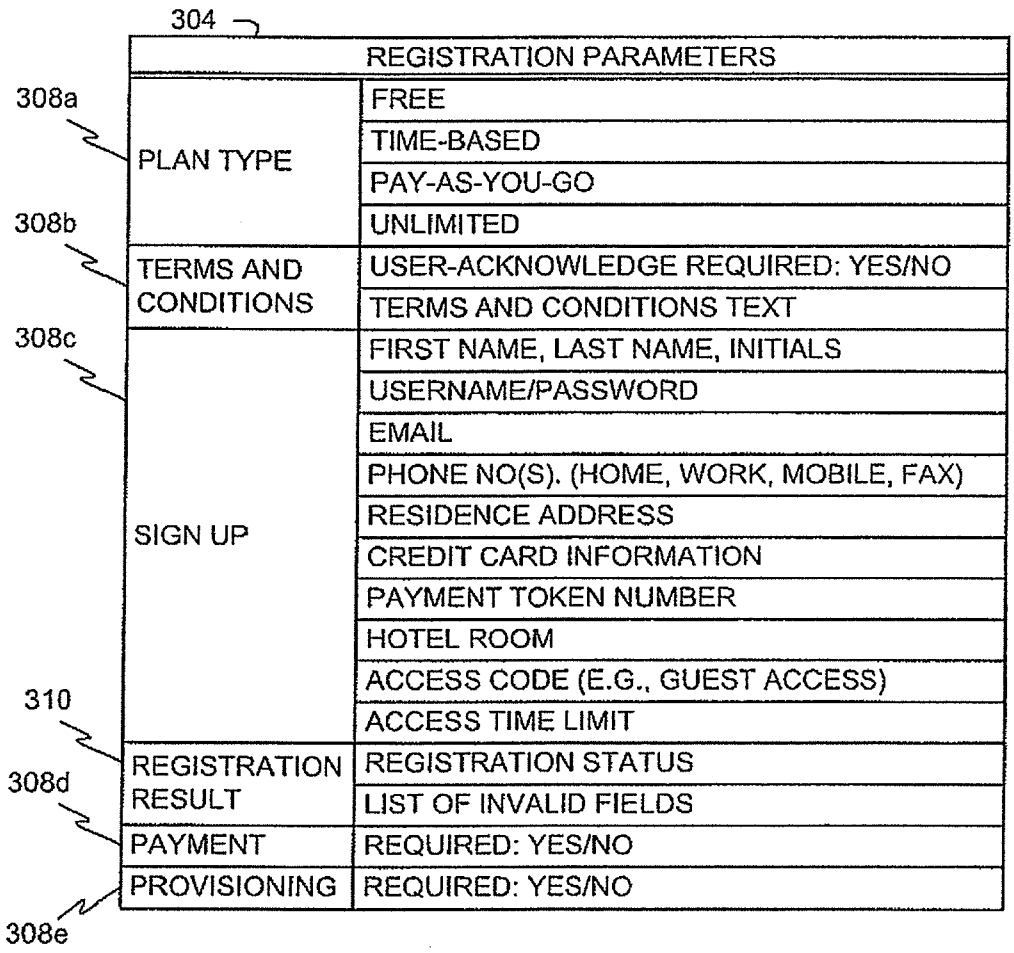
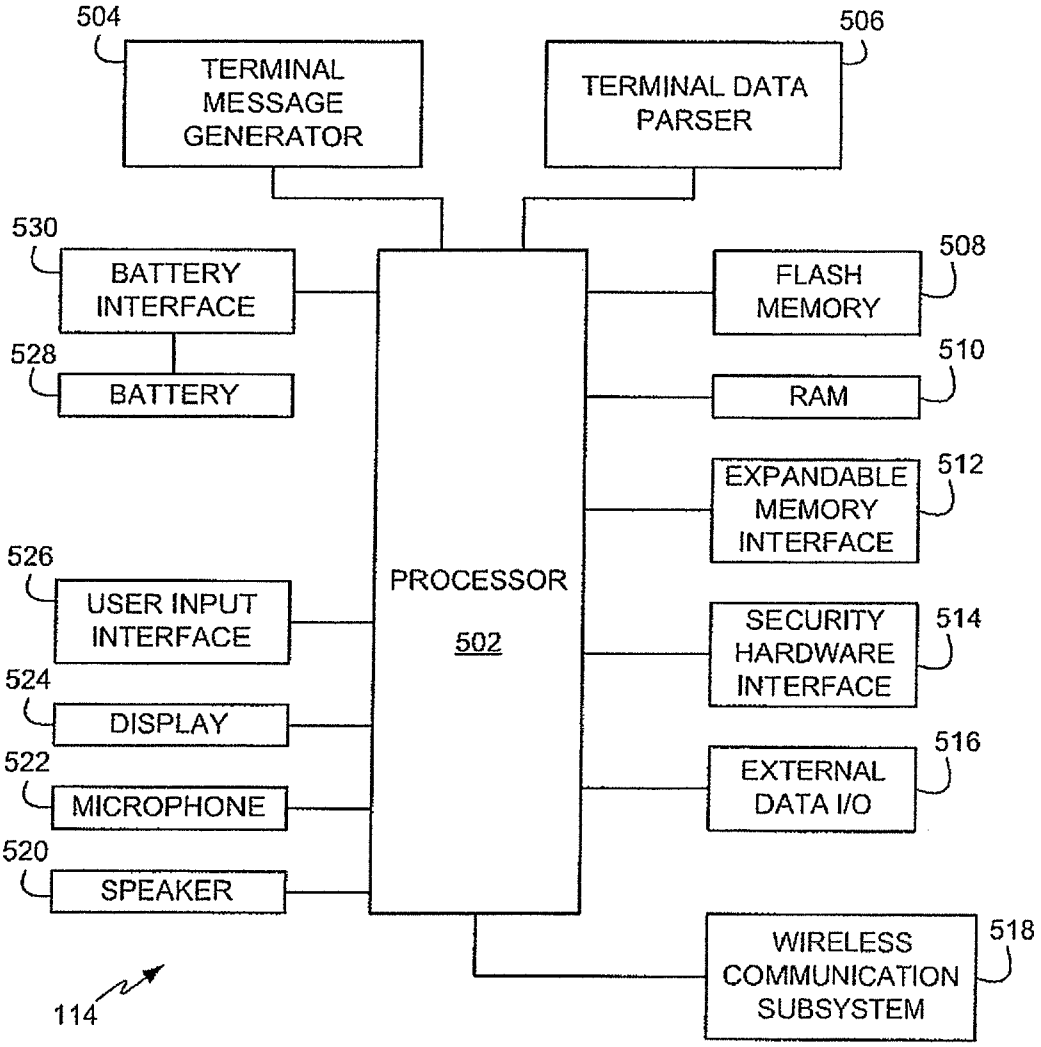

REGISTRATION PARAMETERS
304
PLAN TYPE
308a
TERMS AND CONDITIONS
308b
SIGN UP
308c
REGISTRATION RESULT
310
PAYMENT
308d
PROVISIONING
308e
SELECTABLE REGISTRATION INFORMATION REQUIREMENTS
PLAN SCHEMA DATA STORE
302
108a
SSPN-A (SERVICE PROVIDER A)
311
PROVISIONING DATA STORE
PLAN A
REG INFO REQUIREMENTS
306a
PLAN B
REG INFO REQUIREMENTS
306b
PLAN C
REG INFO REQUIREMENTS
306c
PLAN ...
REG INFO REQUIREMENTS
106a
PRIVATE NETWORK
118
REG RESPONSE
-PLAN A
306a
-PLAN C
306c
114
120
REG INFORMATION
SELECTED PLAN
314
REG INFORMATION
316
104a
ACCESS POINT (AP)
LOCAL PLAN SCHEMA DATA STORE
312
306a
PLAN A
PLAN C
306c
PAYMENT MESSAGING
318
PROVISIONING MESSAGING
320

FIG. 3



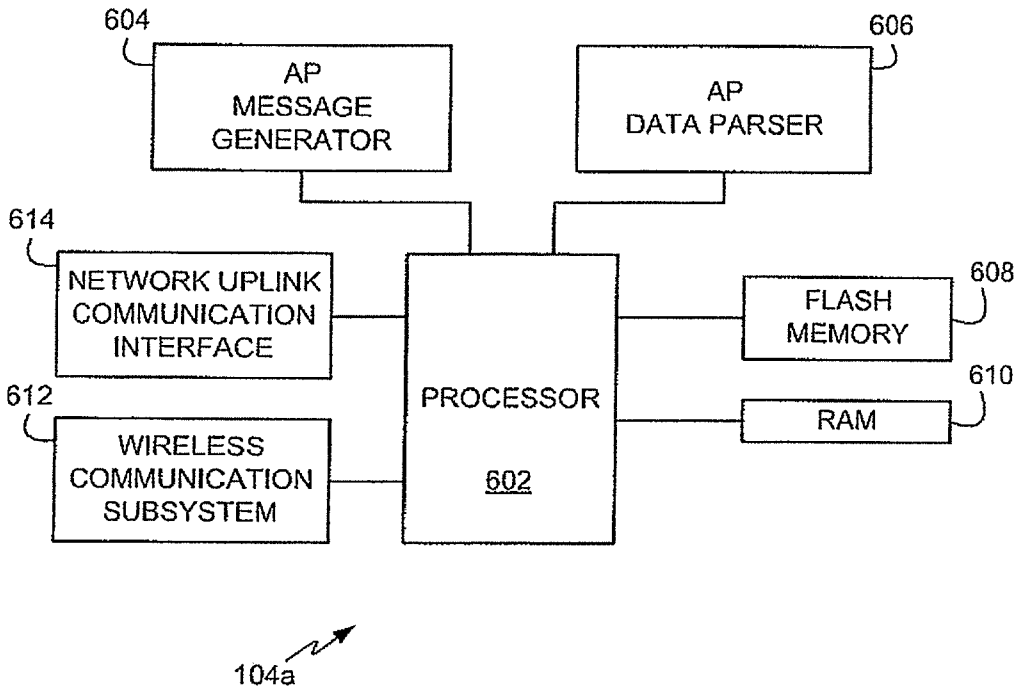

| REGISTRATION PARAMETERS | |
|---|---|
| PLAN TYPE | FREE |
| | TIME-BASED |
| | PAY-AS-YOU-GO |
| | UNLIMITED |
| TERMS AND CONDITIONS | USER-ACKNOWLEDGE REQUIRED: YES/NO |
| | TERMS AND CONDITIONS TEXT |
| SIGN UP | FIRST NAME, LAST NAME, INITIALS |
| | USERNAME/PASSWORD |
| | EMAIL |
| | PHONE NO(S). (HOME, WORK, MOBILE, FAX) |
| | RESIDENCE ADDRESS |
| | CREDIT CARD INFORMATION |
| | PAYMENT TOKEN NUMBER |
| | HOTEL ROOM |
| | ACCESS CODE (E.G., GUEST ACCESS) |
| | ACCESS TIME LIMIT |
| REGISTRATION RESULT | REGISTRATION STATUS |
| | LIST OF INVALID FIELDS |
| PAYMENT | REQUIRED: YES/NO |
| PROVISIONING | REQUIRED: YES/NO |

FIG. 4




WIRELESS TERMINAL

FIG. 5




ACCESS POINT

FIG. 6

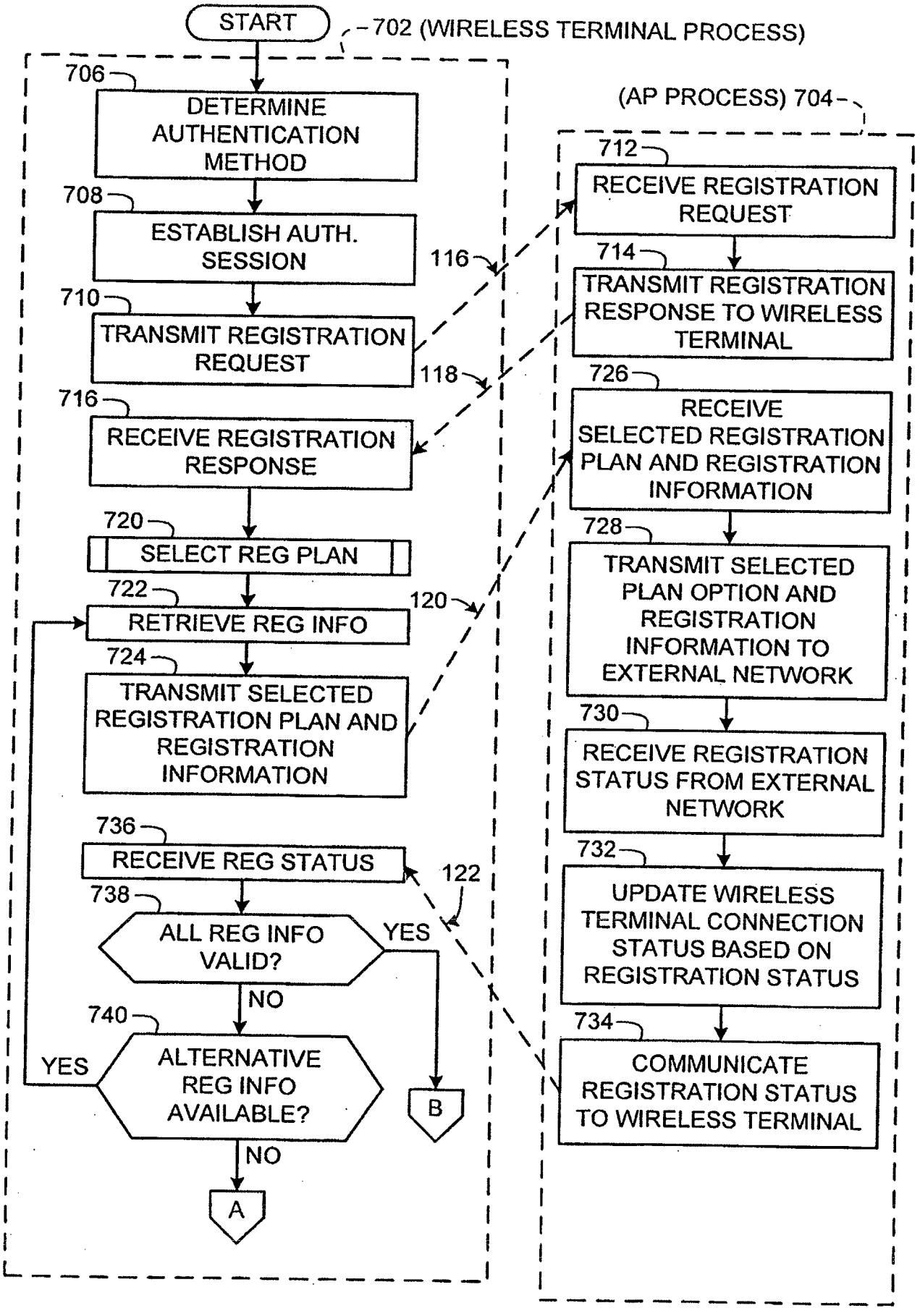

START
702 (WIRELESS TERMINAL PROCESS)
(AP PROCESS) 704
706
DETERMINE AUTHENTICATION METHOD
708
ESTABLISH AUTH. SESSION
710
TRANSMIT REGISTRATION REQUEST
716
RECEIVE REGISTRATION RESPONSE
720
SELECT REG PLAN
722
RETRIEVE REG INFO
724
TRANSMIT SELECTED REGISTRATION PLAN AND REGISTRATION INFORMATION
736
RECEIVE REG STATUS
738
ALL REG INFO VALID?
YES
NO
740
ALTERNATIVE REG INFO AVAILABLE?
YES
NO
A
B
116
118
120
122
712
RECEIVE REGISTRATION REQUEST
714
TRANSMIT REGISTRATION RESPONSE TO WIRELESS TERMINAL
726
RECEIVE SELECTED REGISTRATION PLAN AND REGISTRATION INFORMATION
728
TRANSMIT SELECTED PLAN OPTION AND REGISTRATION INFORMATION TO EXTERNAL NETWORK
730
RECEIVE REGISTRATION STATUS FROM EXTERNAL NETWORK
732
UPDATE WIRELESS TERMINAL CONNECTION STATUS BASED ON REGISTRATION STATUS
734
COMMUNICATE REGISTRATION STATUS TO WIRELESS TERMINAL

FIG. 7A

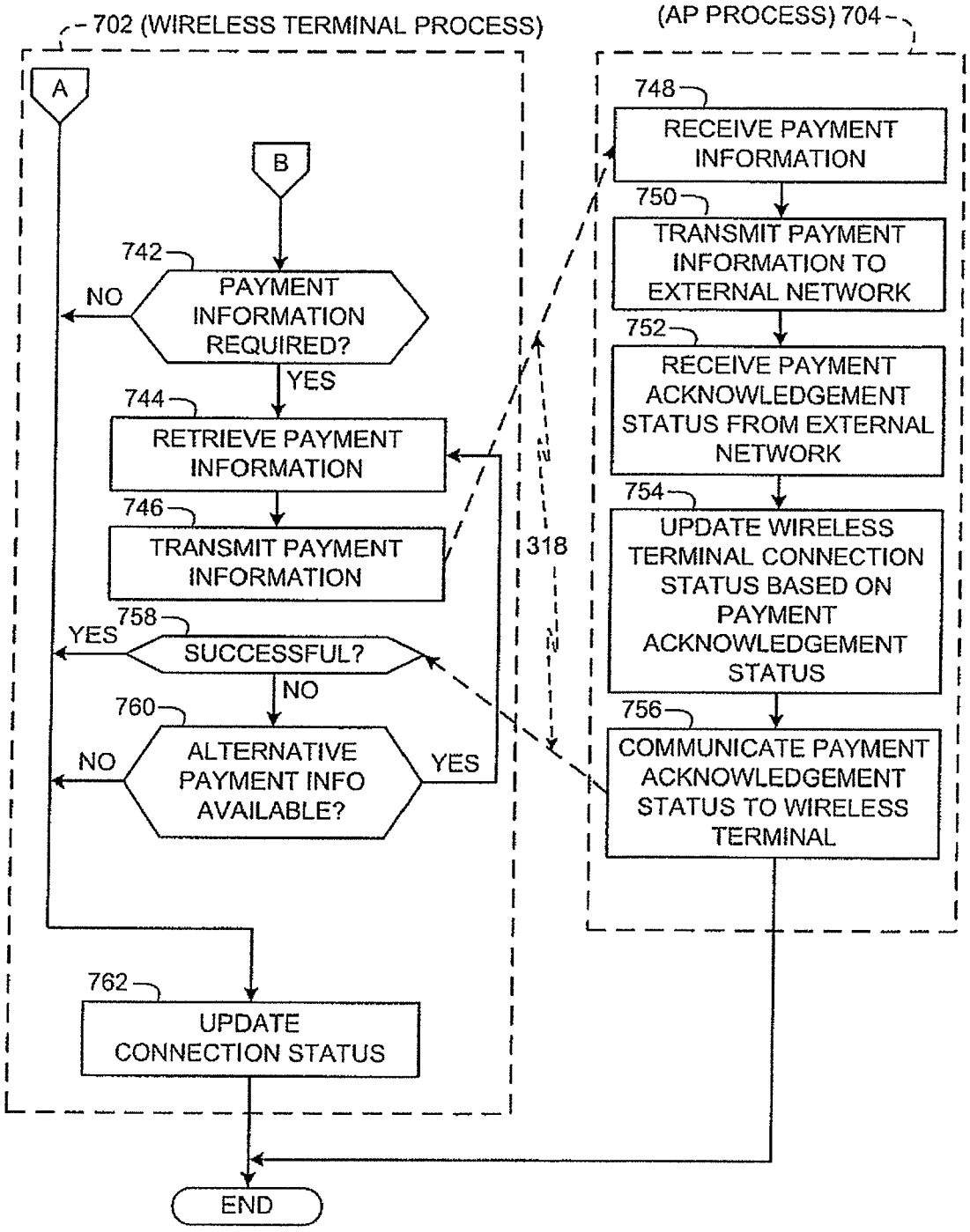

702 (WIRELESS TERMINAL PROCESS)
(AP PROCESS) 704
A
B
742
PAYMENT INFORMATION REQUIRED?
NO
YES
744
RETRIEVE PAYMENT INFORMATION
746
TRANSMIT PAYMENT INFORMATION
758
SUCCESSFUL?
YES
NO
760
ALTERNATIVE PAYMENT INFO AVAILABLE?
NO
YES
762
UPDATE CONNECTION STATUS
END
318
748
RECEIVE PAYMENT INFORMATION
750
TRANSMIT PAYMENT INFORMATION TO EXTERNAL NETWORK
752
RECEIVE PAYMENT ACKNOWLEDGEMENT STATUS FROM EXTERNAL NETWORK
754
UPDATE WIRELESS TERMINAL CONNECTION STATUS BASED ON PAYMENT ACKNOWLEDGEMENT STATUS
756
COMMUNICATE PAYMENT ACKNOWLEDGEMENT STATUS TO WIRELESS TERMINAL

FIG. 7B

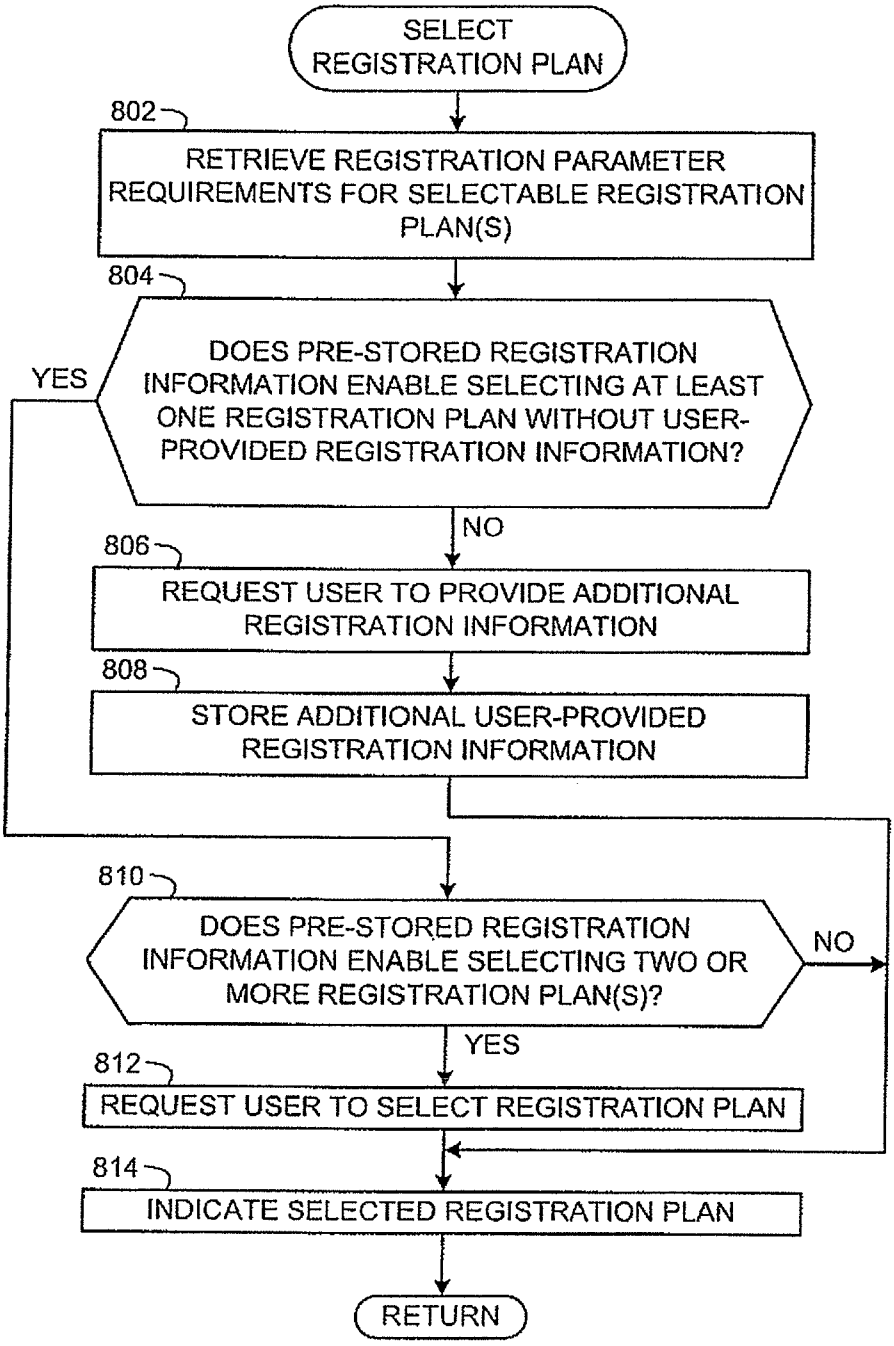

SELECT REGISTRATION PLAN
802
RETRIEVE REGISTRATION PARAMETER REQUIREMENTS FOR SELECTABLE REGISTRATION PLAN(S)
804
DOES PRE-STORED REGISTRATION INFORMATION ENABLE SELECTING AT LEAST ONE REGISTRATION PLAN WITHOUT USER-PROVIDED REGISTRATION INFORMATION?
YES
NO
806
REQUEST USER TO PROVIDE ADDITIONAL REGISTRATION INFORMATION
808
STORE ADDITIONAL USER-PROVIDED REGISTRATION INFORMATION
810
DOES PRE-STORED REGISTRATION INFORMATION ENABLE SELECTING TWO OR MORE REGISTRATION PLAN(S)?
NO
YES
812
REQUEST USER TO SELECT REGISTRATION PLAN
814
INDICATE SELECTED REGISTRATION PLAN
RETURN

FIG. 8