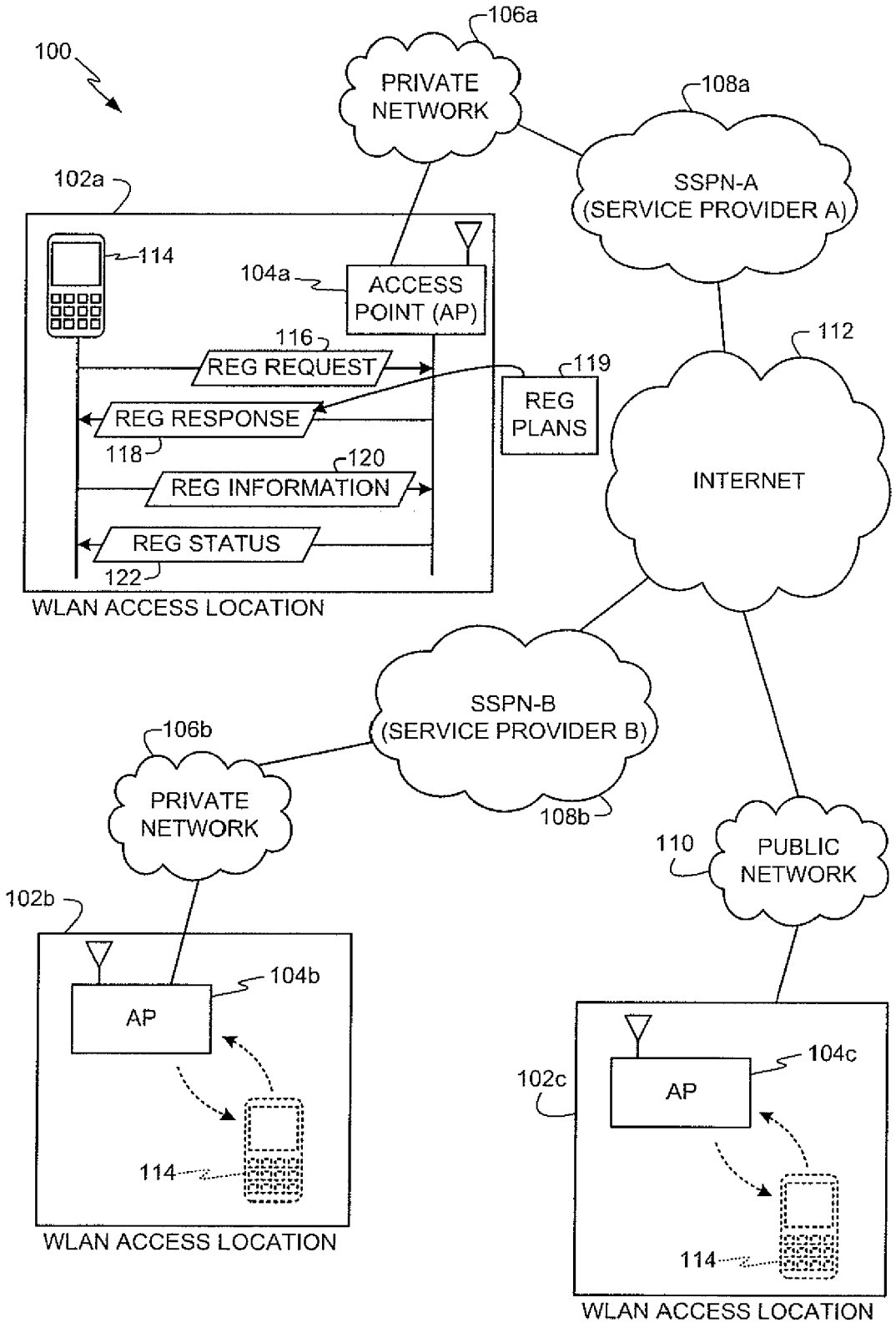
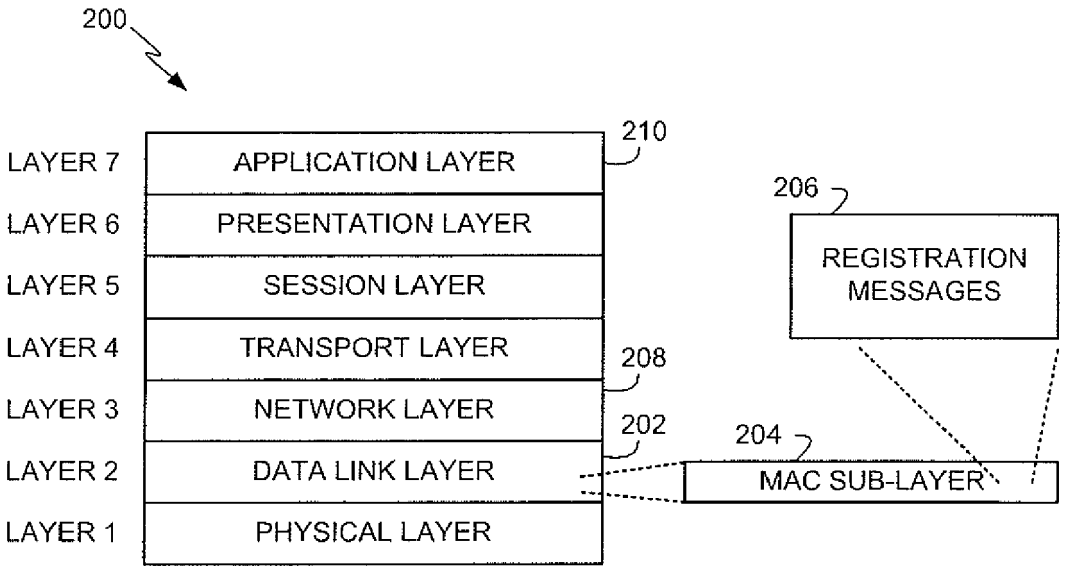

100
106a
PRIVATE NETWORK
108a
SSPN-A (SERVICE PROVIDER A)
102a
114
104a
ACCESS POINT (AP)
116
REG REQUEST
119
REG PLANS
REG RESPONSE
118
120
REG INFORMATION
REG STATUS
122
112
INTERNET
WLAN ACCESS LOCATION
SSPN-B (SERVICE PROVIDER B)
106b
PRIVATE NETWORK
108b
110
PUBLIC NETWORK
102b
AP
104b
114
WLAN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

FIG. 1



COMMUNICATION LAYER ARCHITECTURE

FIG. 2

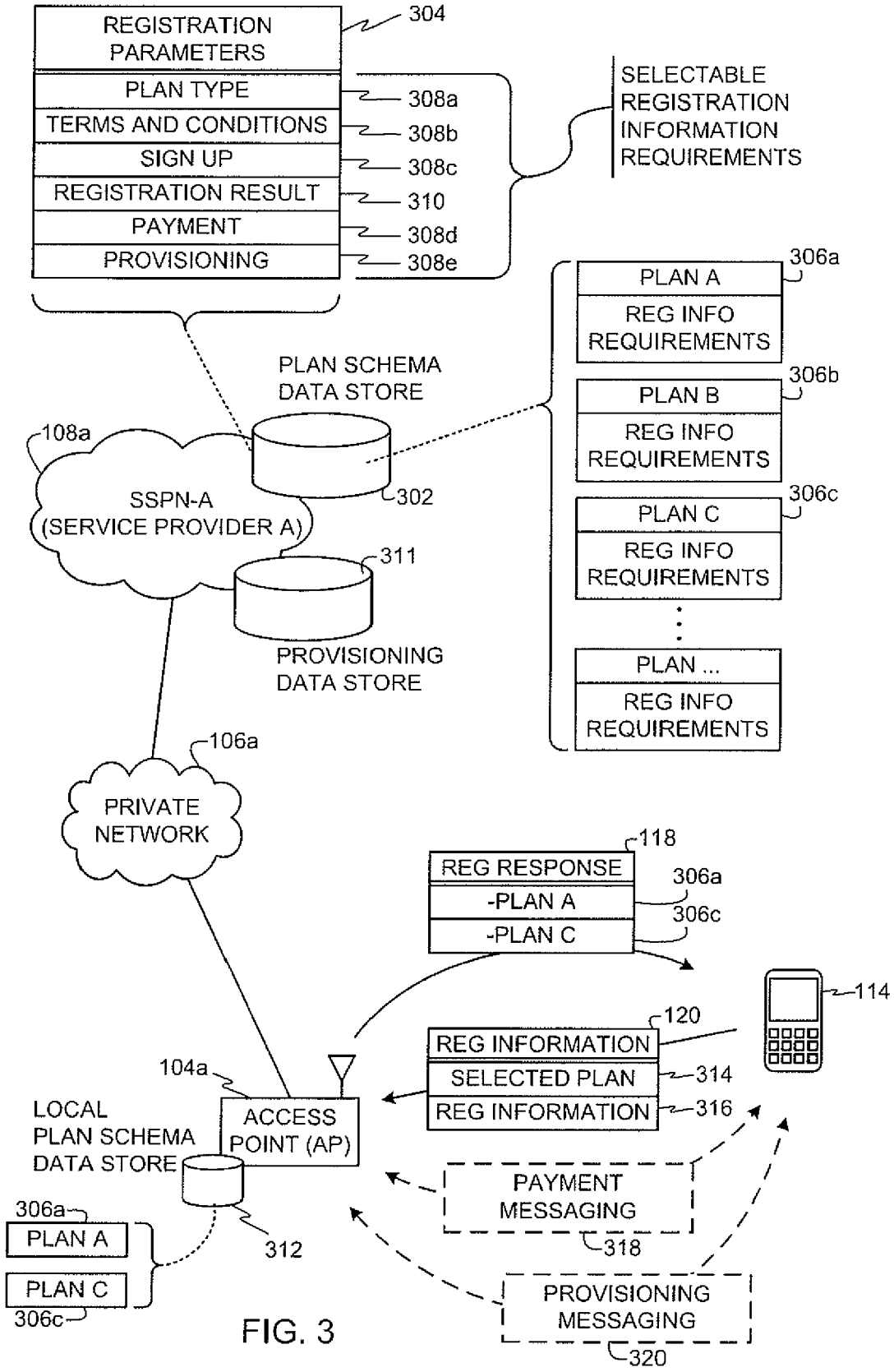
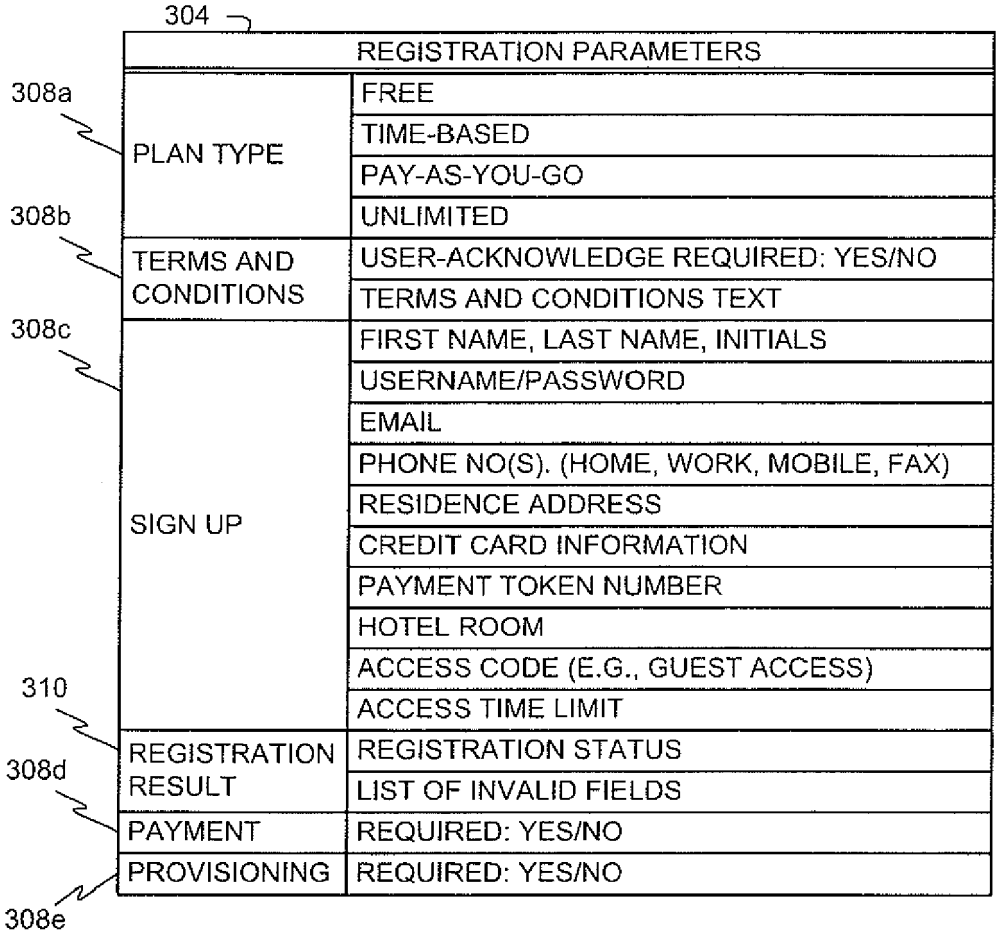

REGISTRATION PARAMETERS
304
PLAN TYPE
308a
TERMS AND CONDITIONS
308b
SIGN UP
308c
REGISTRATION RESULT
310
PAYMENT
308d
PROVISIONING
308e
SELECTABLE REGISTRATION INFORMATION REQUIREMENTS
PLAN SCHEMA DATA STORE
108a
SSPN-A (SERVICE PROVIDER A)
302
311
PROVISIONING DATA STORE
PLAN A
REG INFO REQUIREMENTS
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
-PLAN C
306a
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

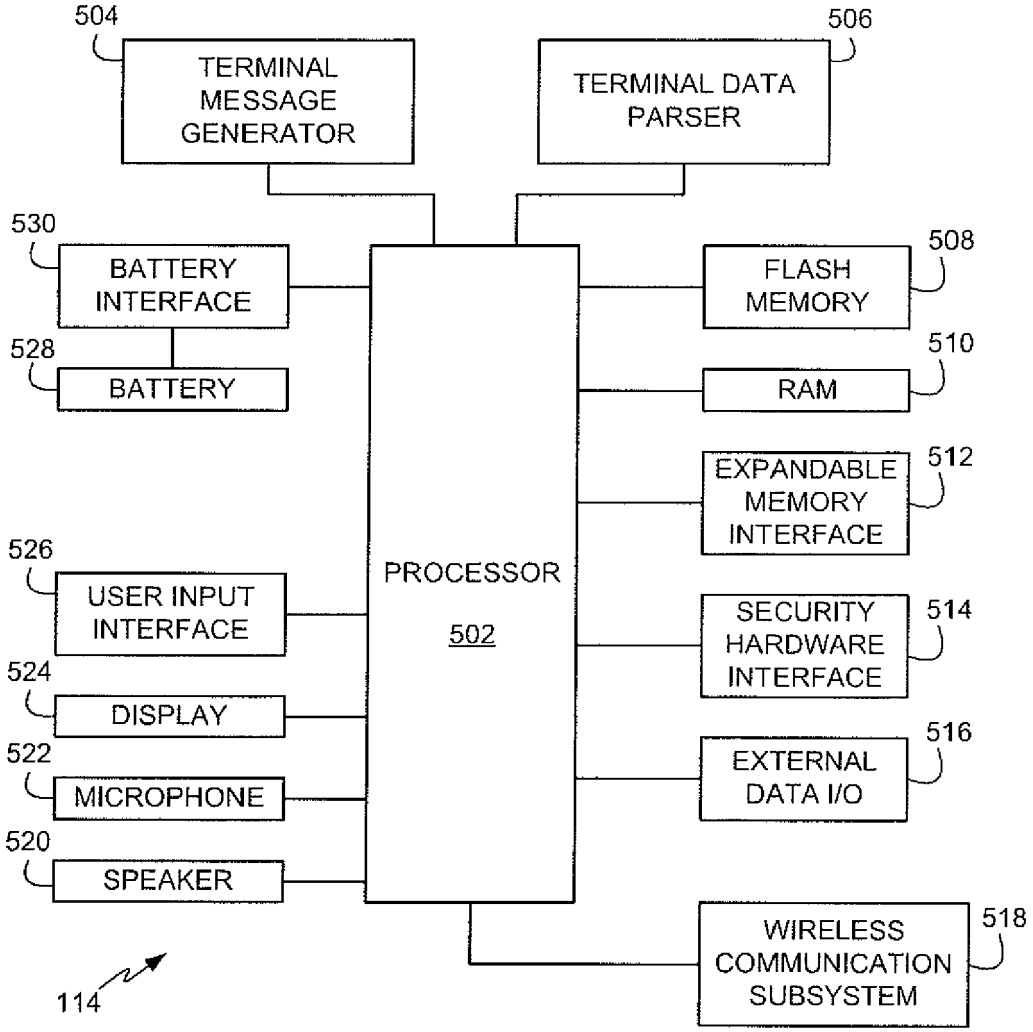
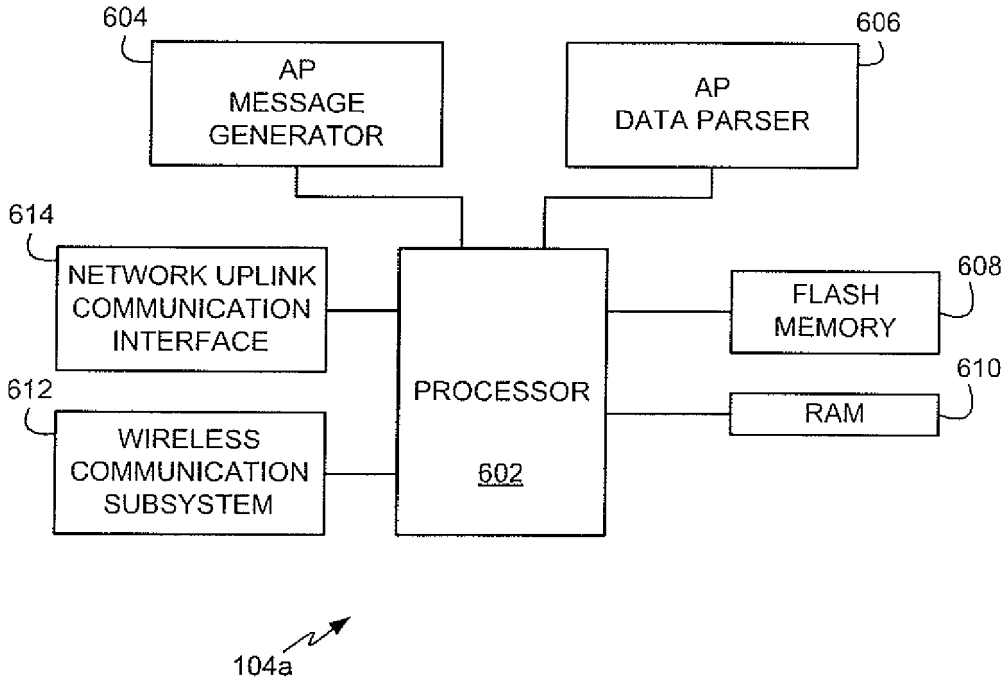

504
TERMINAL MESSAGE GENERATOR
506
TERMINAL DATA PARSER
530
BATTERY INTERFACE
528
BATTERY
508
FLASH MEMORY
510
RAM
512
EXPANDABLE MEMORY INTERFACE
514
SECURITY HARDWARE INTERFACE
516
EXTERNAL DATA I/O
518
WIRELESS COMMUNICATION SUBSYSTEM
PROCESSOR
502
526
USER INPUT INTERFACE
524
DISPLAY
522
MICROPHONE
520
SPEAKER
114
WIRELESS TERMINAL

FIG. 5



ACCESS POINT

FIG. 6

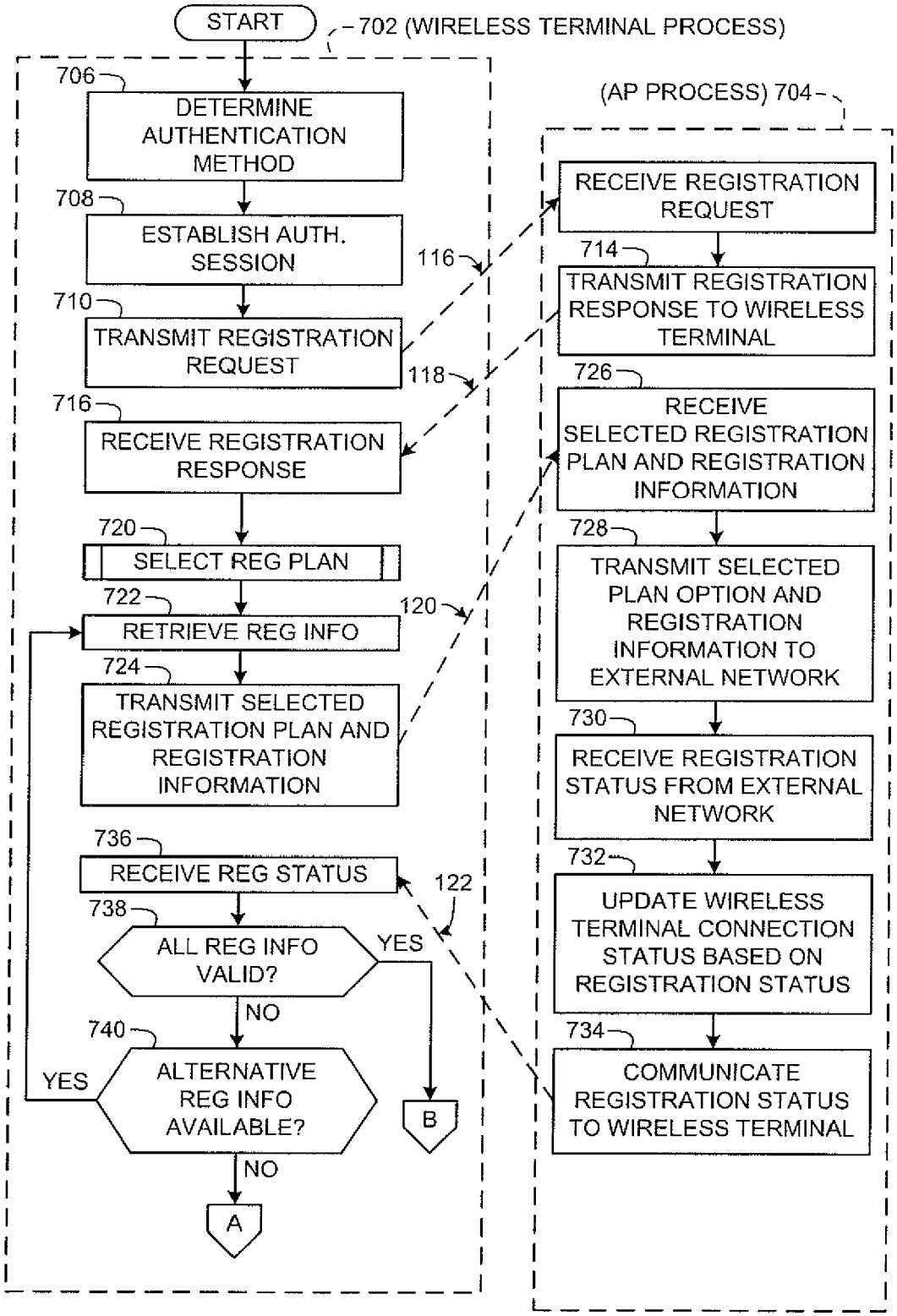

START
702 (WIRELESS TERMINAL PROCESS)
(AP PROCESS) 704
706
DETERMINE AUTHENTICATION METHOD
708
ESTABLISH AUTH. SESSION
710
TRANSMIT REGISTRATION REQUEST
716
RECEIVE REGISTRATION RESPONSE
720
SELECT REG PLAN
722
RETRIEVE REG INFO
724
TRANSMIT SELECTED REGISTRATION PLAN AND REGISTRATION INFORMATION
736
RECEIVE REG STATUS
738
ALL REG INFO VALID?
YES
NO
740
ALTERNATIVE REG INFO AVAILABLE?
YES
NO
A
B
116
118
120
122
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

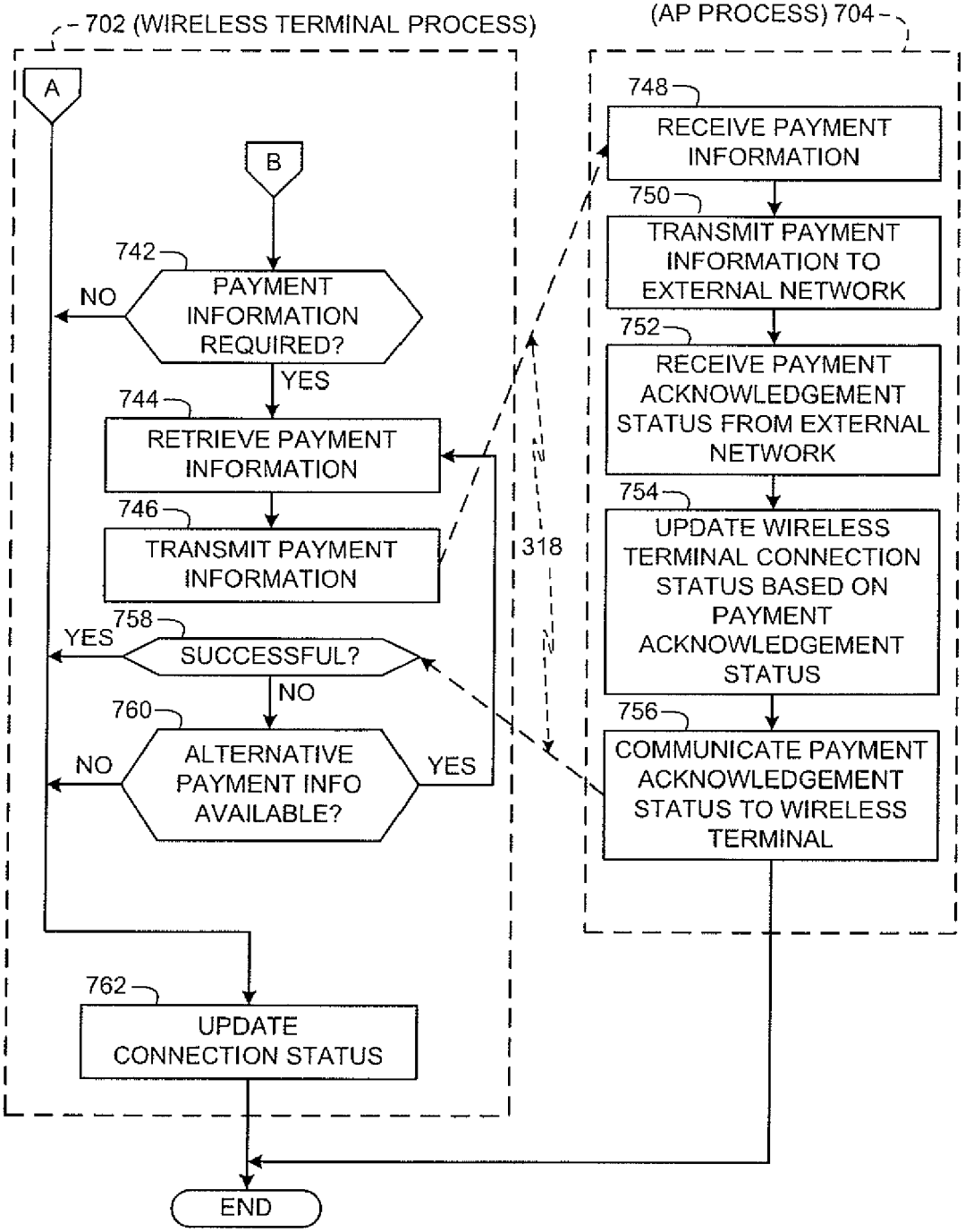

702 (WIRELESS TERMINAL PROCESS)
(AP PROCESS) 704
A
B
742
PAYMENT INFORMATION REQUIRED?
NO
YES
744
RETRIEVE PAYMENT INFORMATION
746
TRANSMIT PAYMENT INFORMATION
758
SUCCESSFUL?
YES
NO
760
ALTERNATIVE PAYMENT INFO AVAILABLE?
NO
YES
762
UPDATE CONNECTION STATUS
END
318
748
RECEIVE PAYMENT INFORMATION
750
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

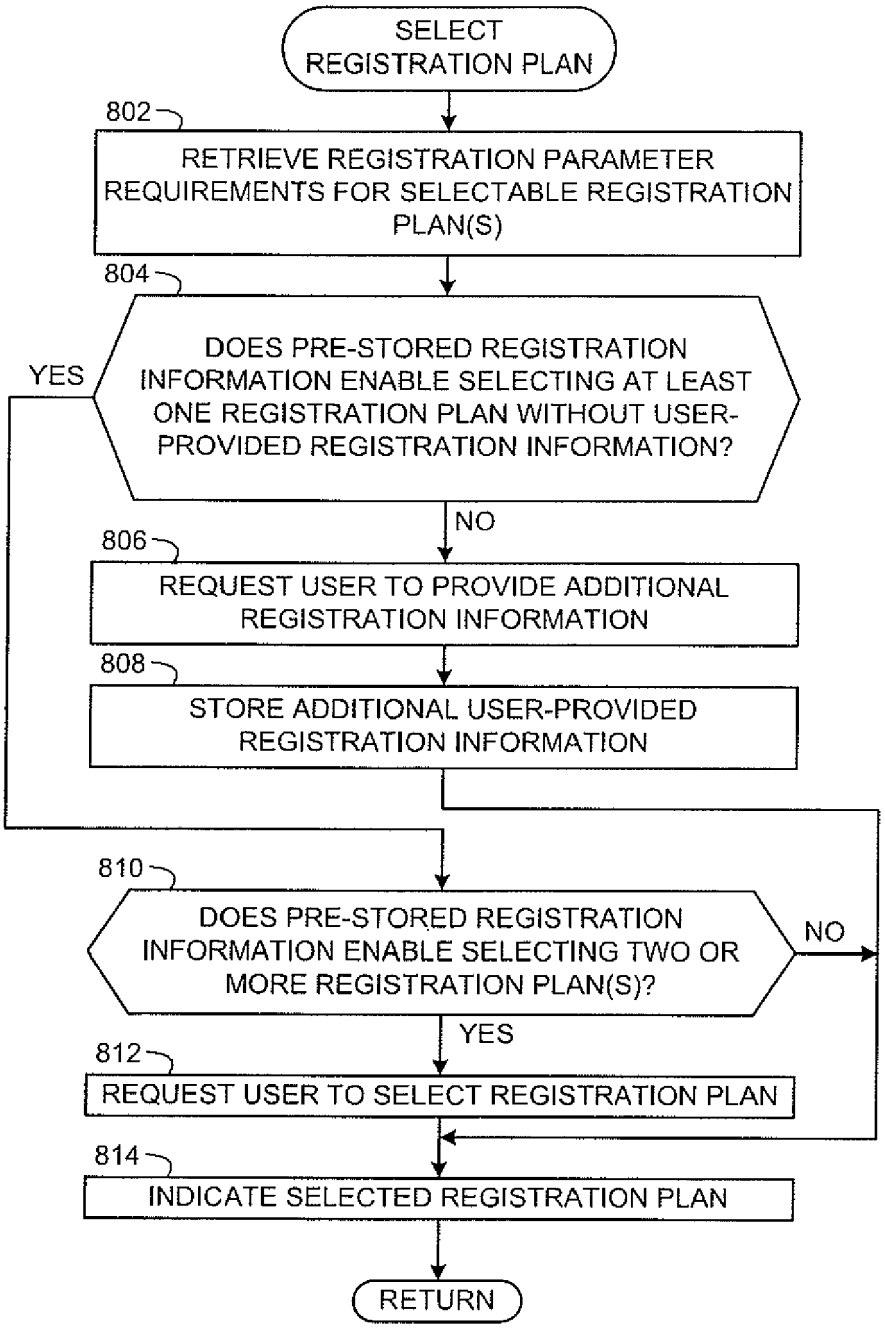

SELECT REGISTRATION PLAN
802
RETRIEVE REGISTRATION PARAMETER REQUIREMENTS FOR SELECTABLE REGISTRATION PLAN(S)
804
DOES PRE-STORED REGISTRATION INFORMATION ENABLE SELECTING AT LEAST ONE REGISTRATION PLAN WITHOUT USER-PROVIDED REGISTRATION INFORMATION?
YES
NO
806
REQUEST USER TO PROVIDE ADDITIONAL REGISTRATION 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