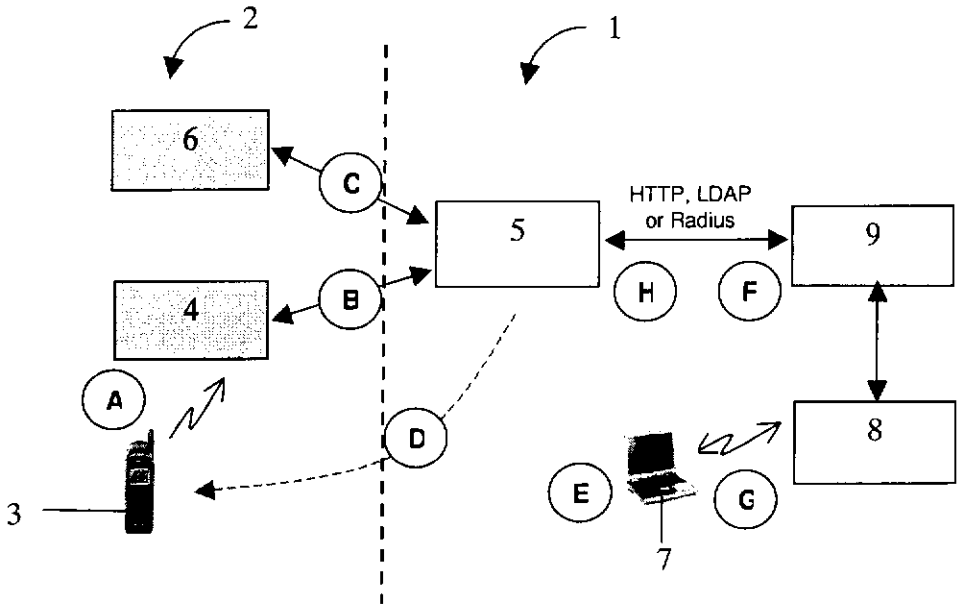



**Figure 1**

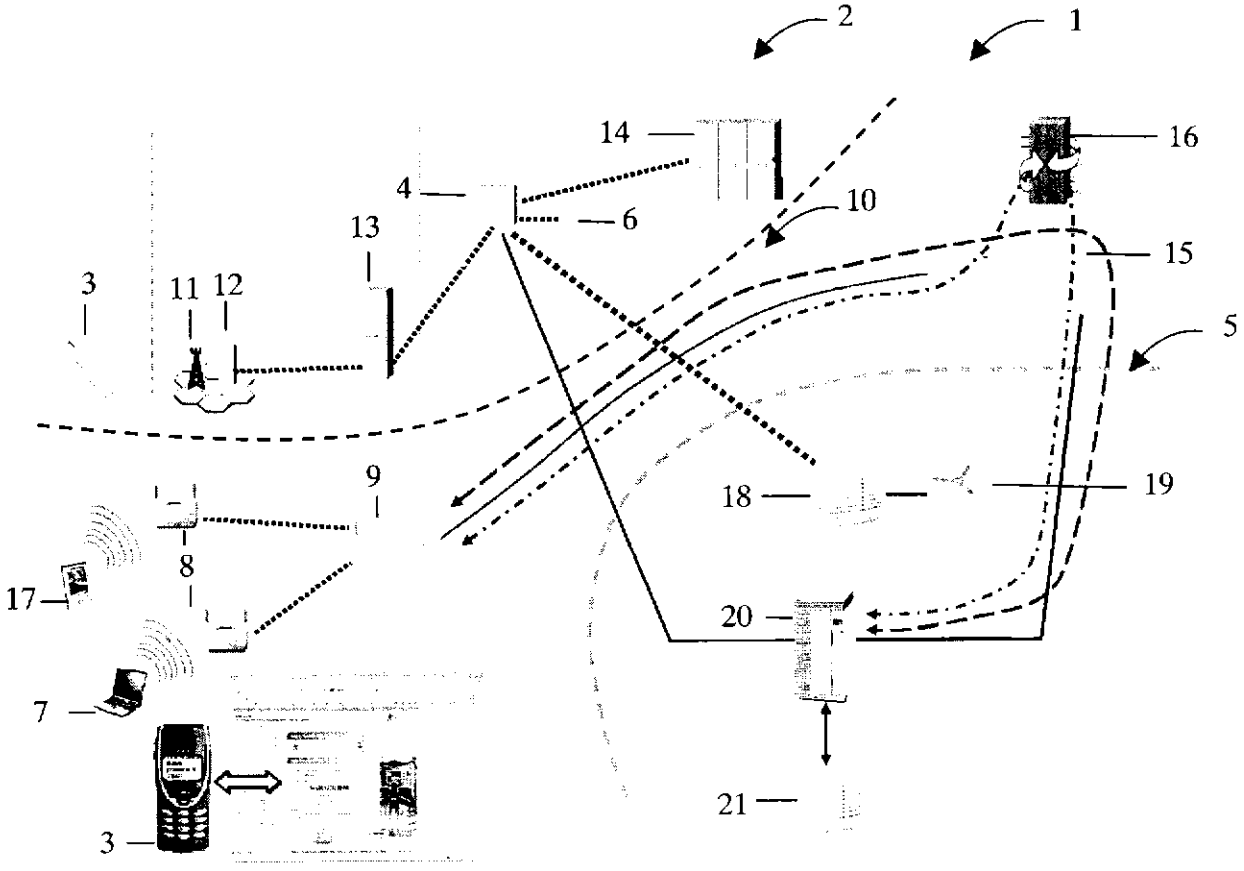



**Figure 2**

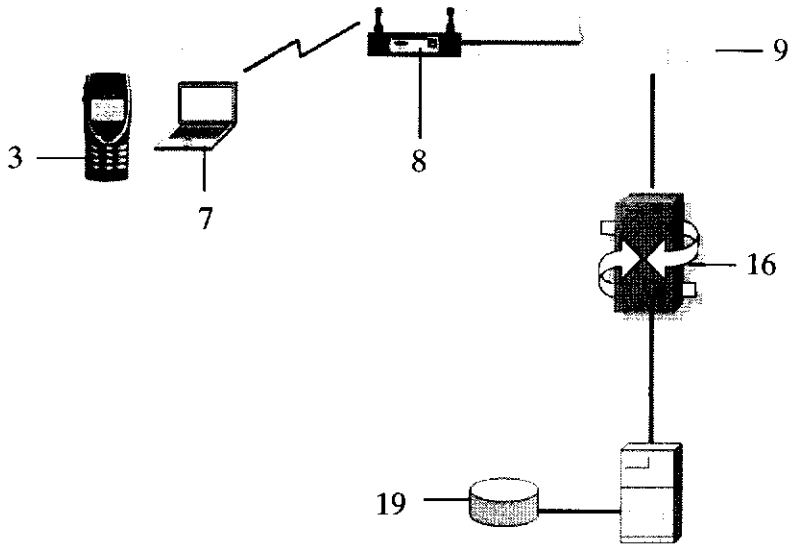



**Figure 3**

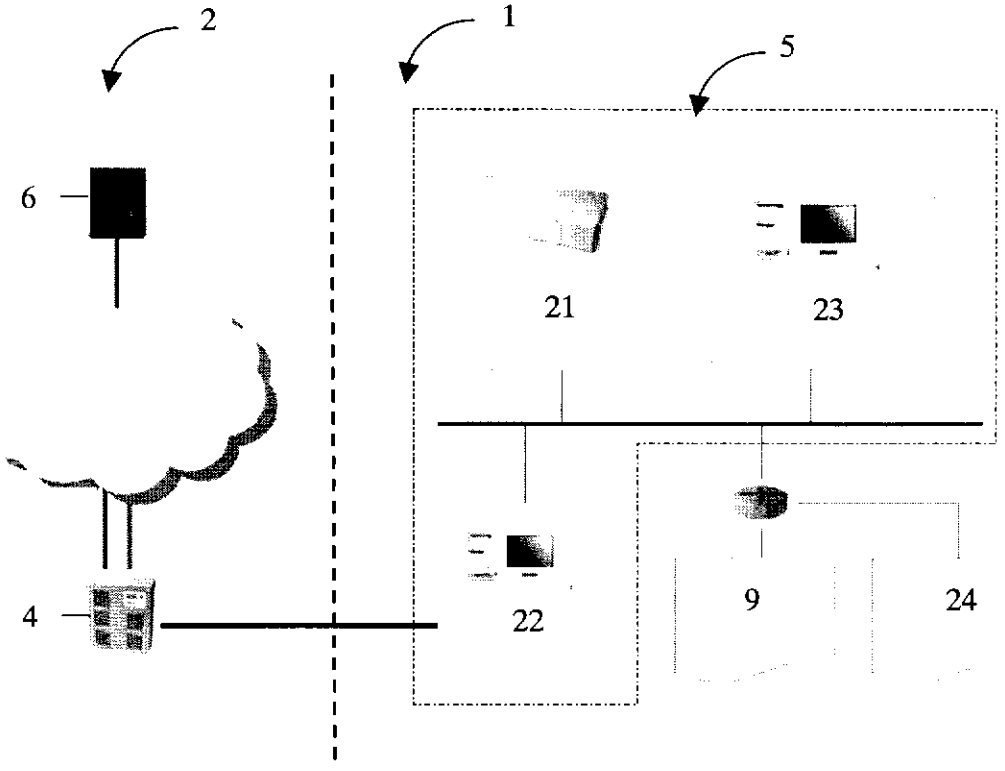



**Figure 4**

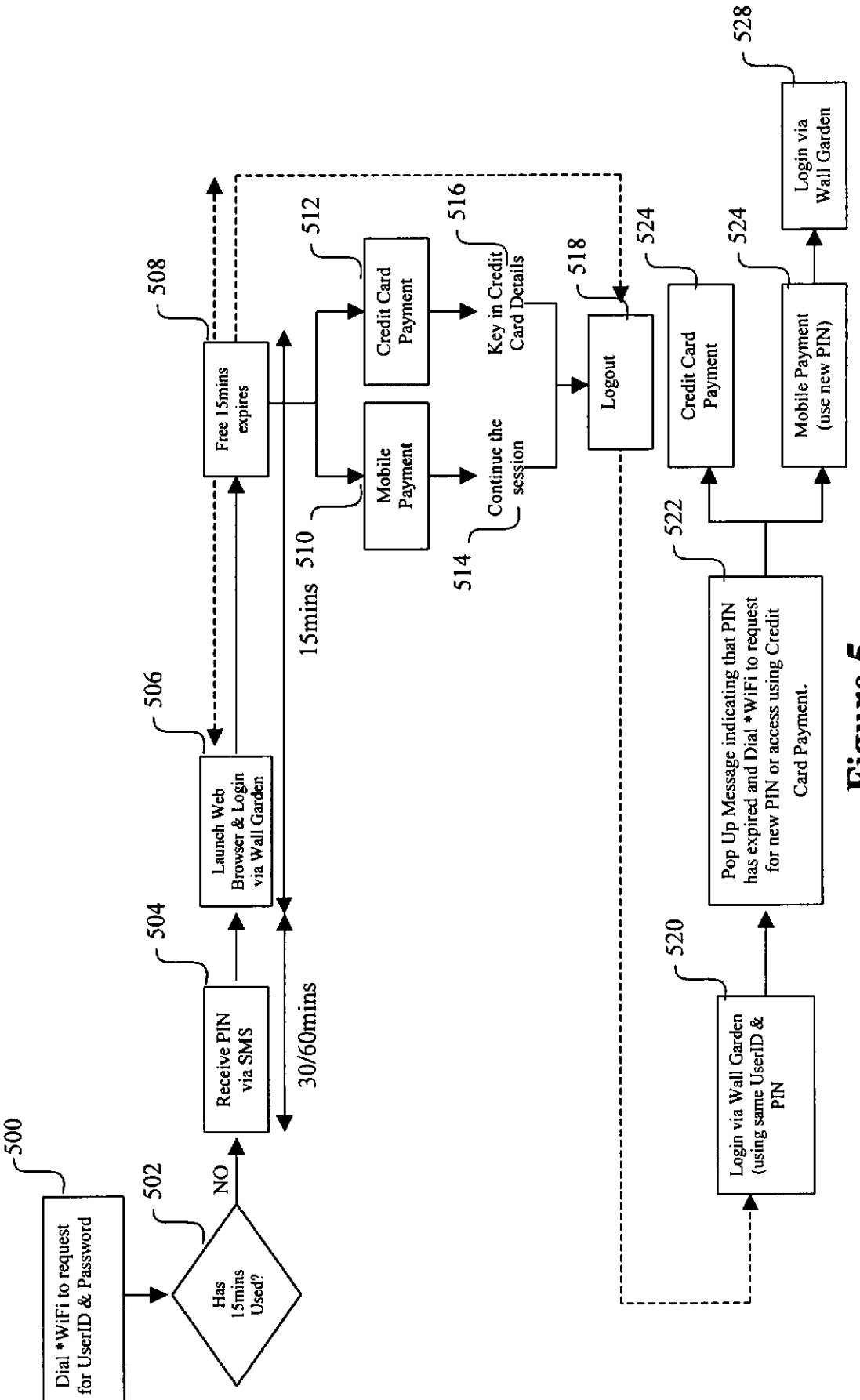

500
Dial *WiFi to request for UserID & Password
502
Has 15mins Used?
NO
504
Receive PIN via SMS
30/60mins
506
Launch Web Browser & Login via Wall Garden
15mins
508
Free 15mins expires
510
512
Credit Card Payment
514
Mobile Payment
516
Key in Credit Card Details
Continue the session
518
Logout
520
Login via Wall Garden (using same UserID & PIN
522
Pop Up Message indicating that PIN has expired and Dial *WiFi to request for new PIN or access using Credit Card Payment.
524
Credit Card Payment
524
Mobile Payment (use new PIN)
528
Login via Wall Garden

**Figure 5**

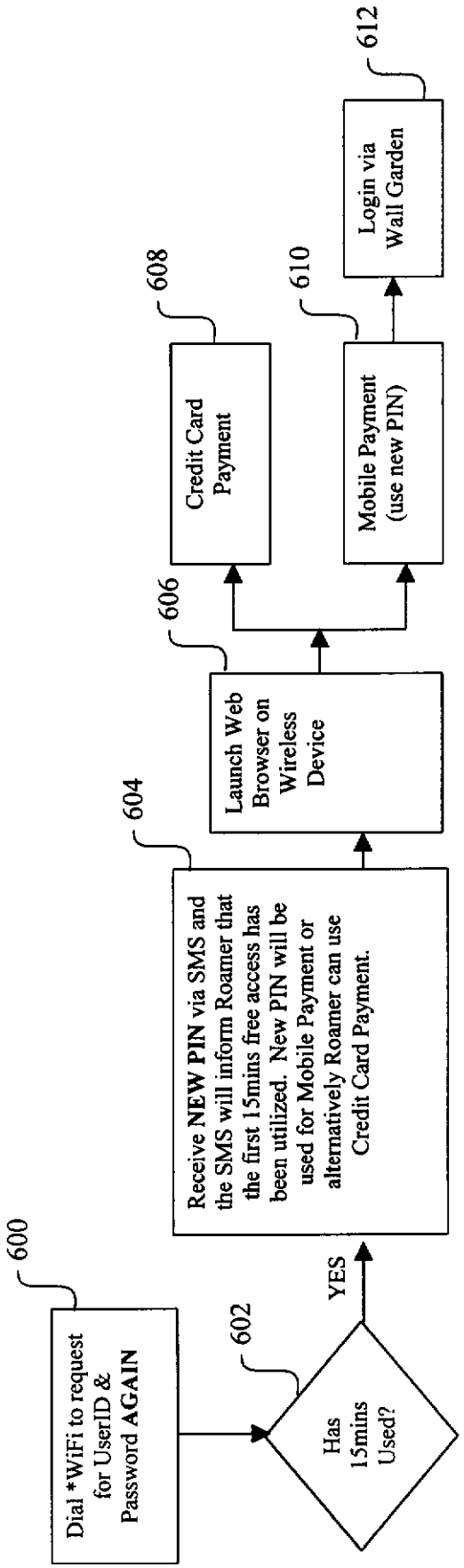

600
Dial *WiFi to request for UserID & Password AGAIN
602
Has 15mins Used?
YES
604
Receive NEW PIN via SMS and the SMS will inform Roamer that the first 15mins free access has been utilized. New PIN will be used for Mobile Payment or alternatively Roamer can use Credit Card Payment.
606
Launch Web Browser on Wireless Device
608
Credit Card Payment
610
Mobile Payment (use new PIN)
612
Login via Wall Garden

**Figure 6**

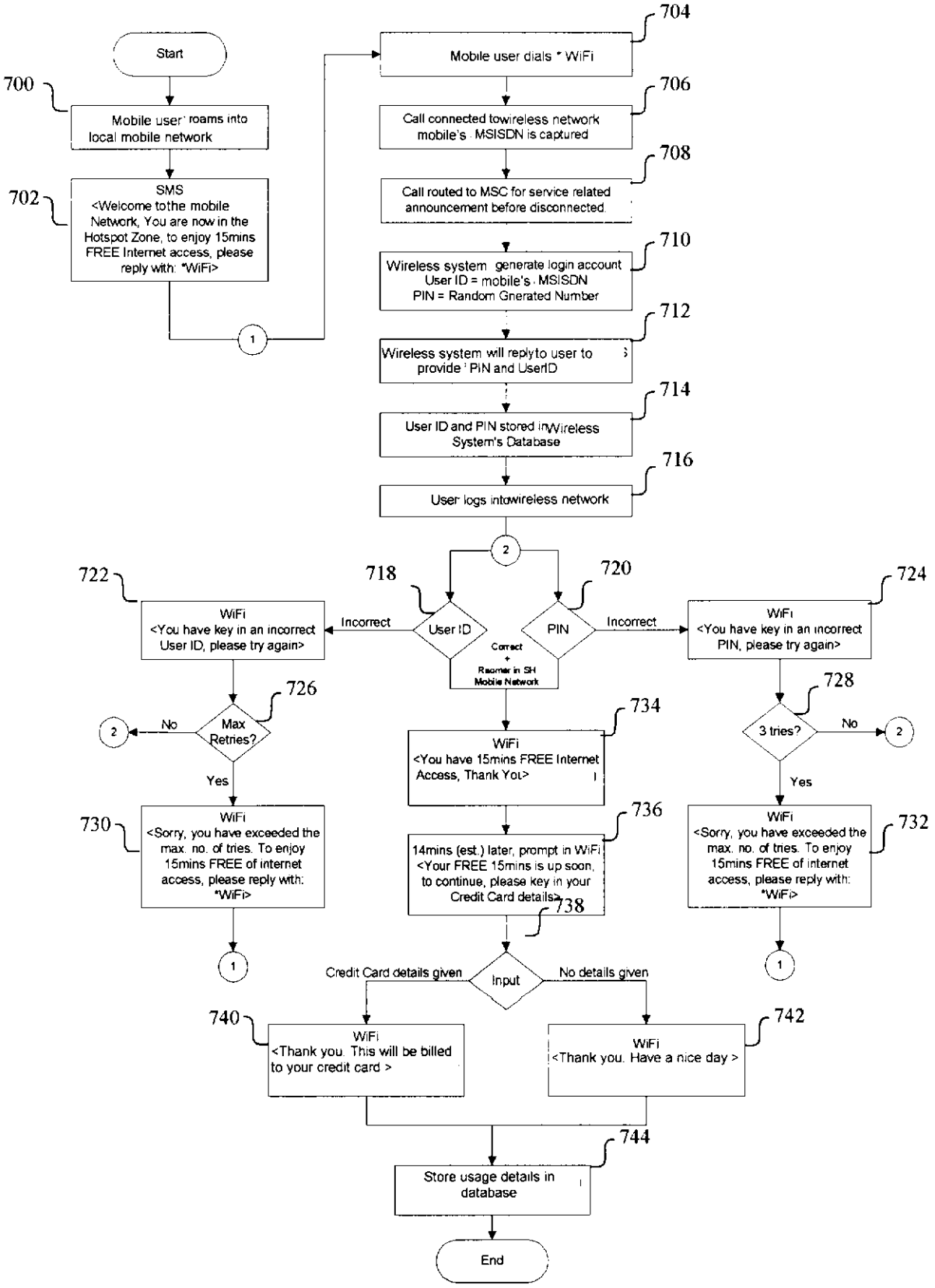

Start
700
Mobile user roams into local mobile network
SMS
<Welcome to the mobile Network, You are now in the Hotspot Zone, to enjoy 15mins FREE Internet access, please reply with: *WiFi>
702
1
704
Mobile user dials * WiFi
706
Call connected to wireless network mobile's MSISDN is captured
708
Call routed to MSC for service related announcement before disconnected
710
Wireless system generate login account User ID = mobile's MSISDN PIN = Random Gnerated Number
712
Wireless system will reply to user to provide PIN and UserID
714
User ID and PIN stored in Wireless System's Database
716
User logs into wireless network
2
718
User ID
Incorrect
720
PIN
Incorrect
Correct + Roamer in SH Mobile Network
722
WiFi
<You have key in an incorrect User ID, please try again>
724
WiFi
<You have key in an incorrect PIN, please try again>
726
Max Retries?
No
2
Yes
728
3 tries?
No
2
Yes
730
WiFi
<Sorry, you have exceeded the max. no. of tries. To enjoy 15mins FREE of internet access, please reply with: *WiFi>
734
WiFi
<You have 15mins FREE Internet Access, Thank You>
736
14mins (est.) later, prompt in WiFi
<Your FREE 15mins is up soon, to continue, please key in your Credit Card details>
732
WiFi
<Sorry, you have exceeded the max. no. of tries. To enjoy 15mins FREE of internet access, please reply with: *WiFi>
1
1
738
Input
Credit Card details given
No details given
740
WiFi
<Thank you. This will be billed to your credit card >
742
WiFi
<Thank you. Have a nice day >
744
Store usage details in database
End

**Figure 7**

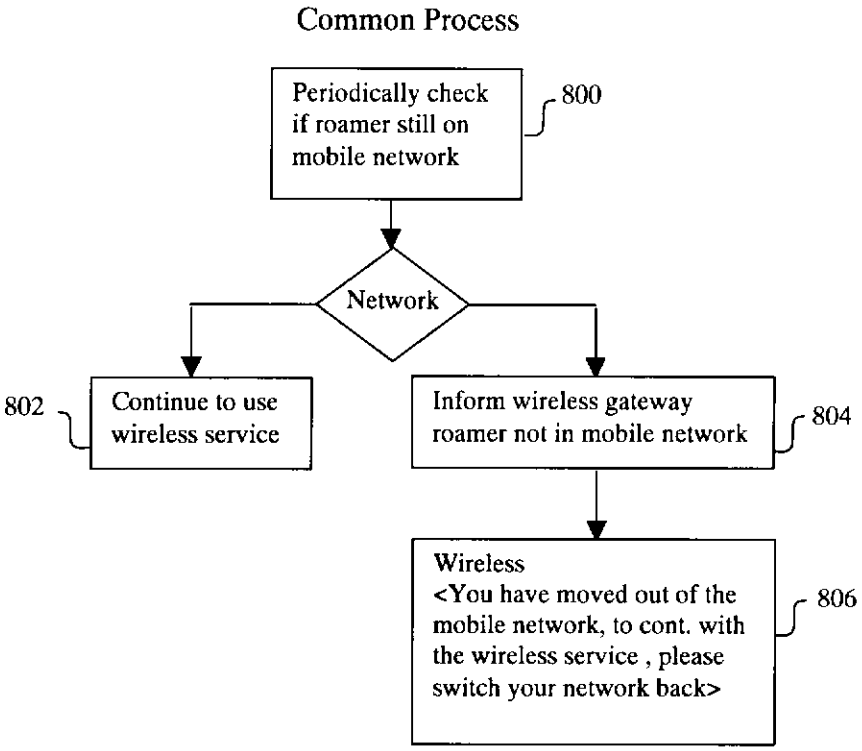



**Figure 8**

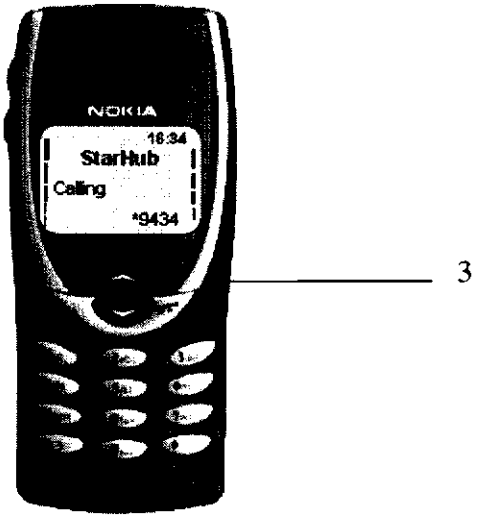



**Figure 9**

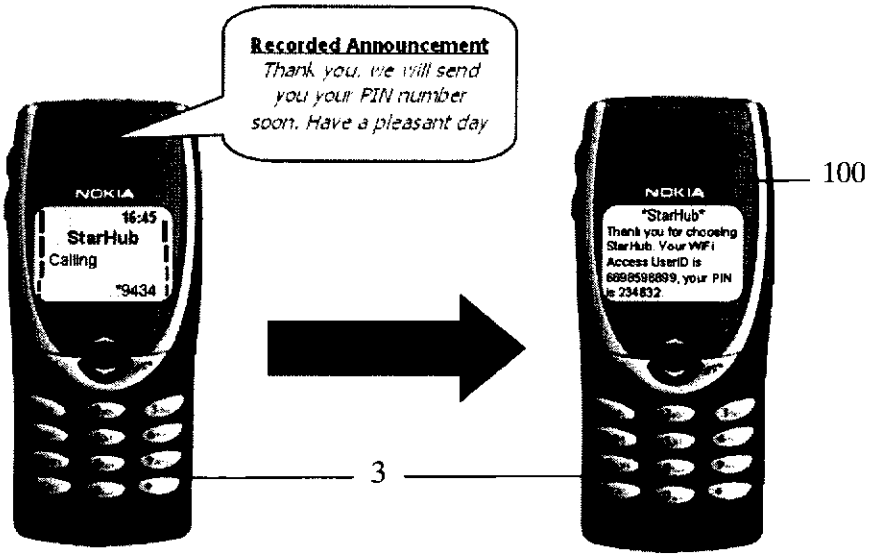



**Figure 10**

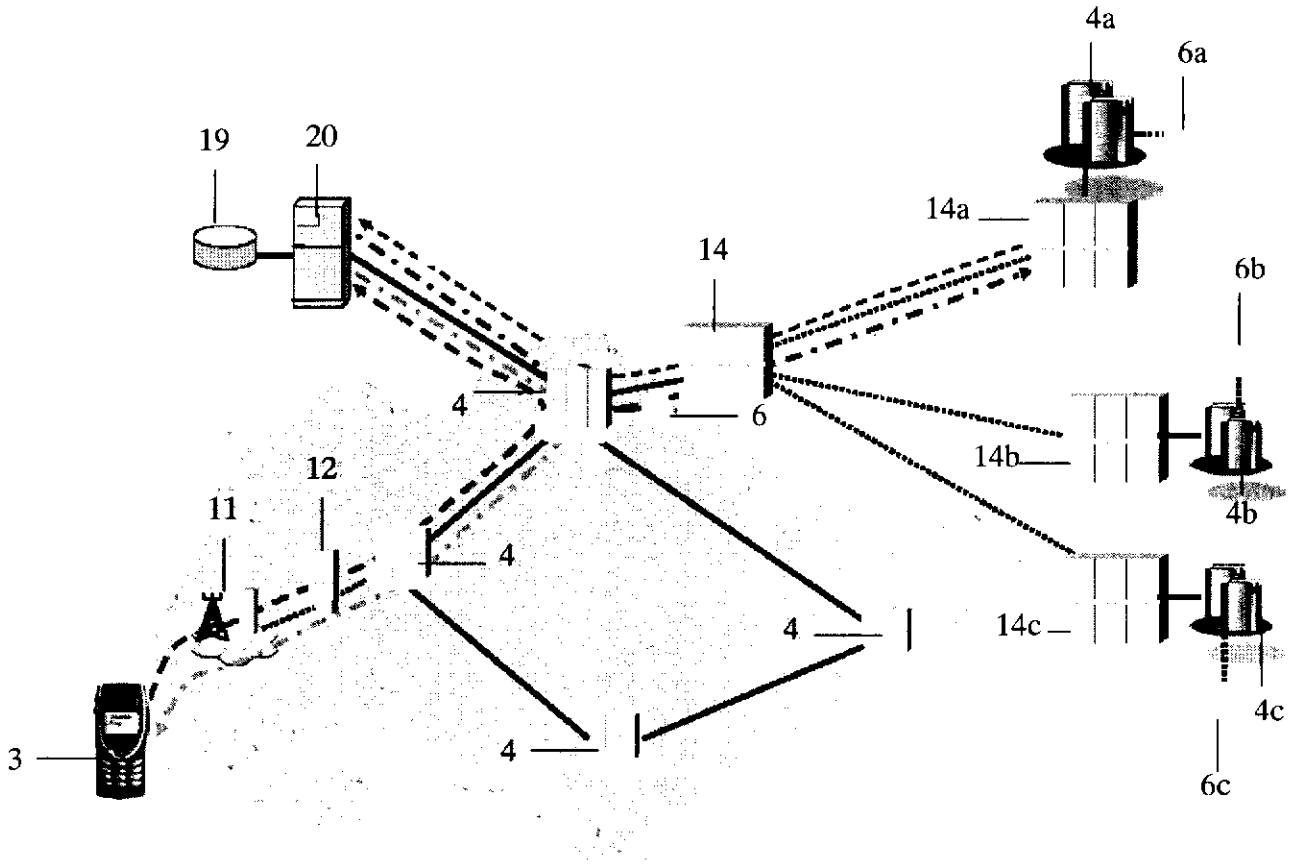



**Figure 11**

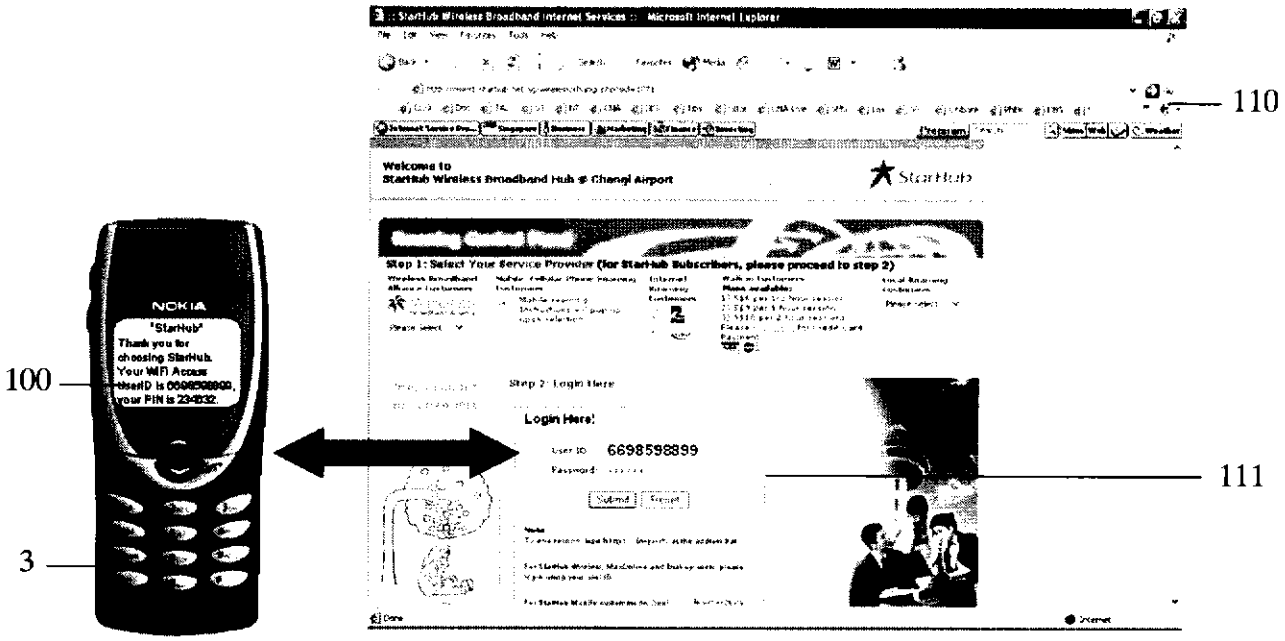



Figure 12

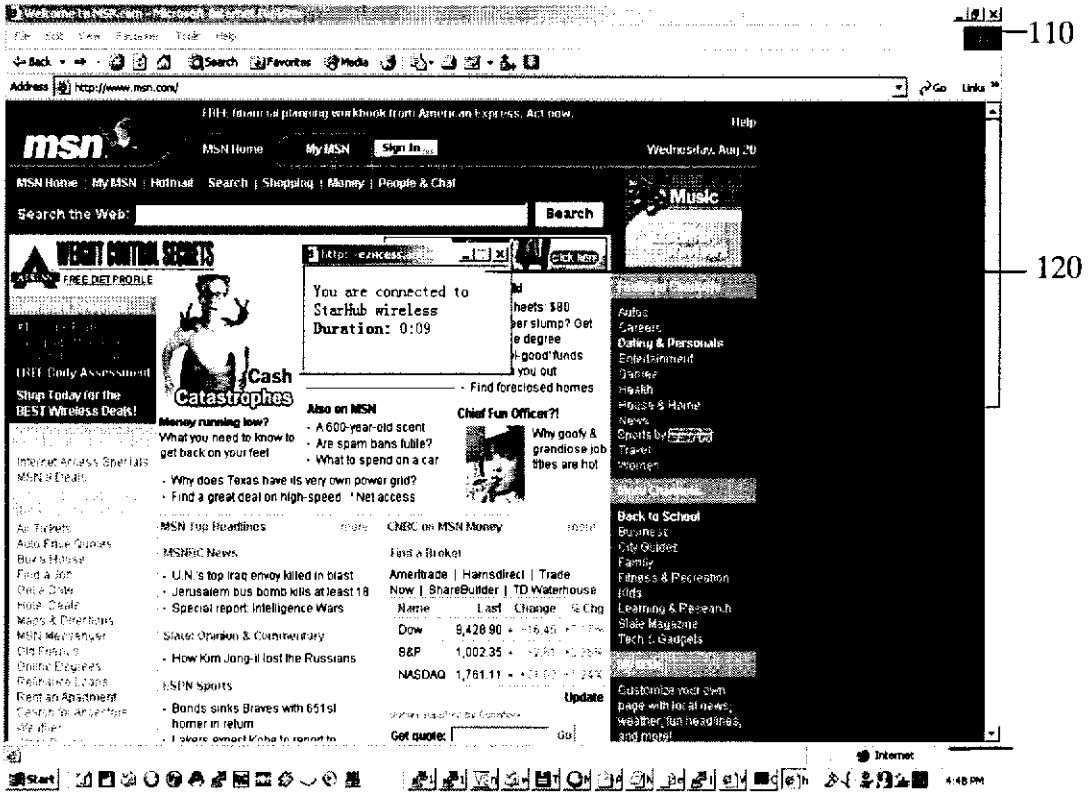



Figure 13

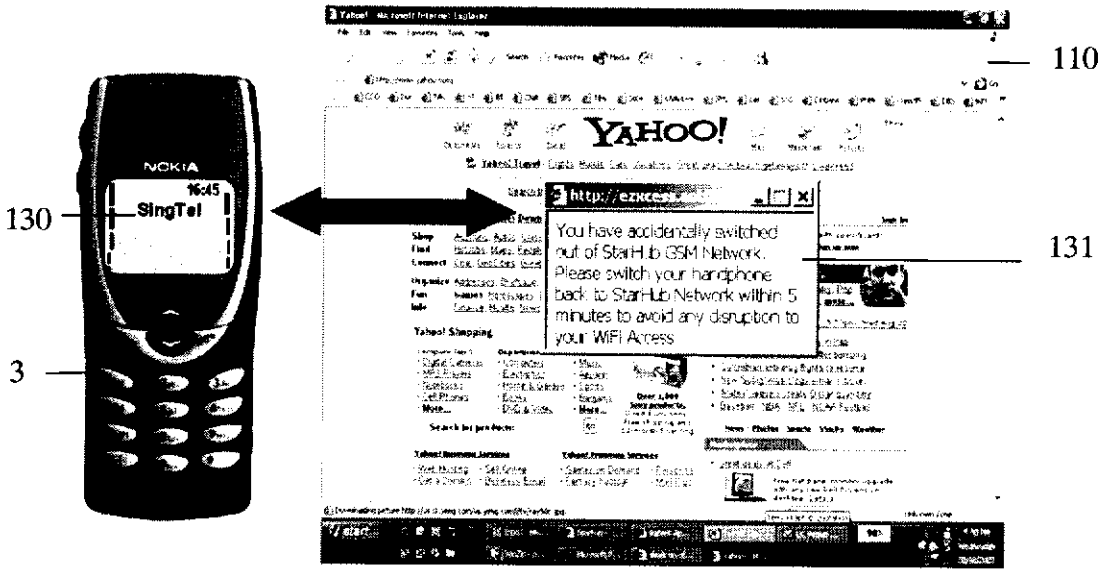

110
130
131
3
NOKIA
16:45
SingTel
YAHOO!
You have accidentally switched out of StarHub GSM Network. Please switch your handphone back to StarHub Network within 5 minutes to avoid any disruption to your WiFi Access

**Figure 14**