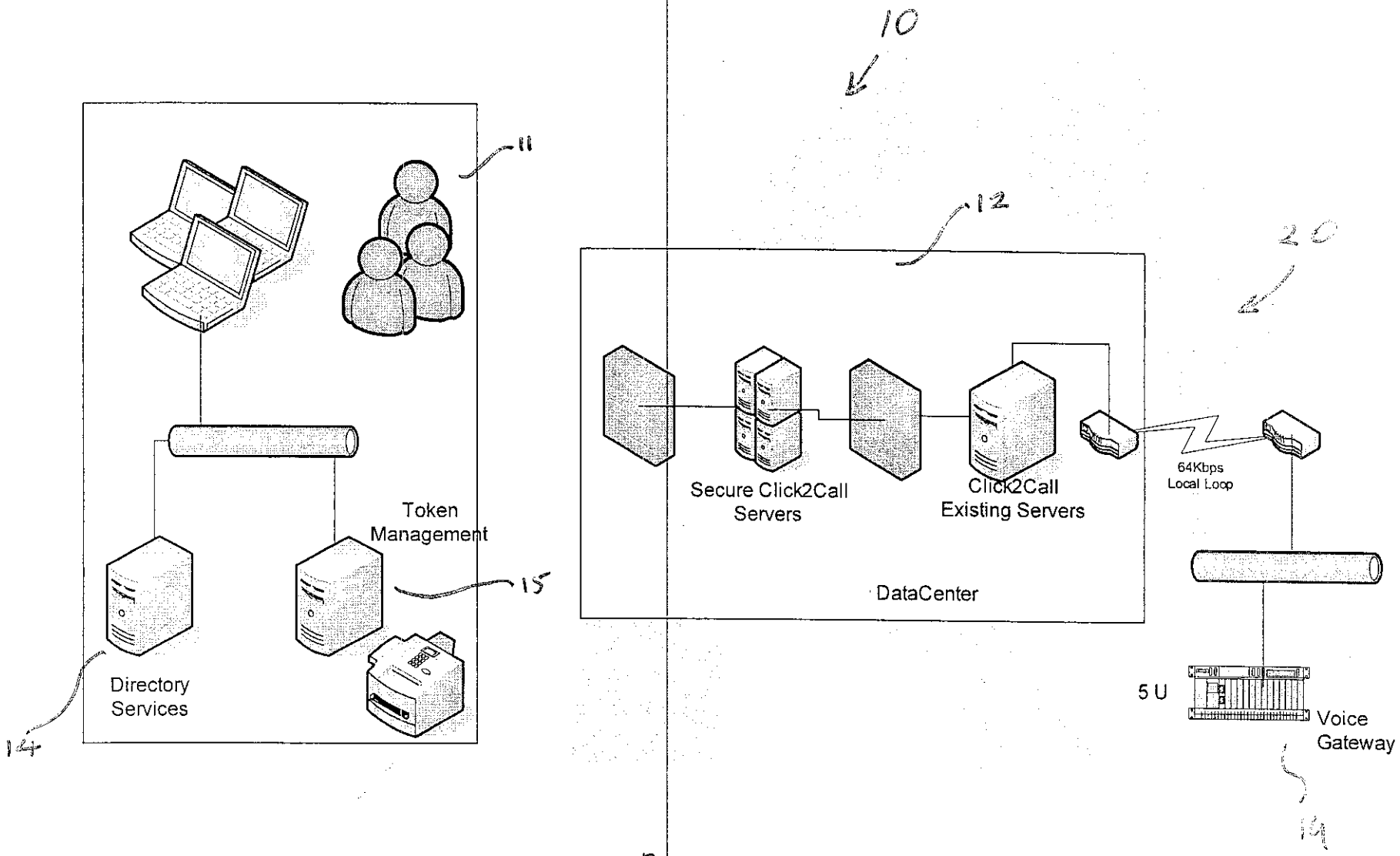

10
11
12
20
Token
Management
15
Directory
Services
14
Secure Click2Call
Servers
Click2Call
Existing Servers
64Kbps
Local Loop
DataCenter
5 U
Voice
Gateway
19

FIGURE 1

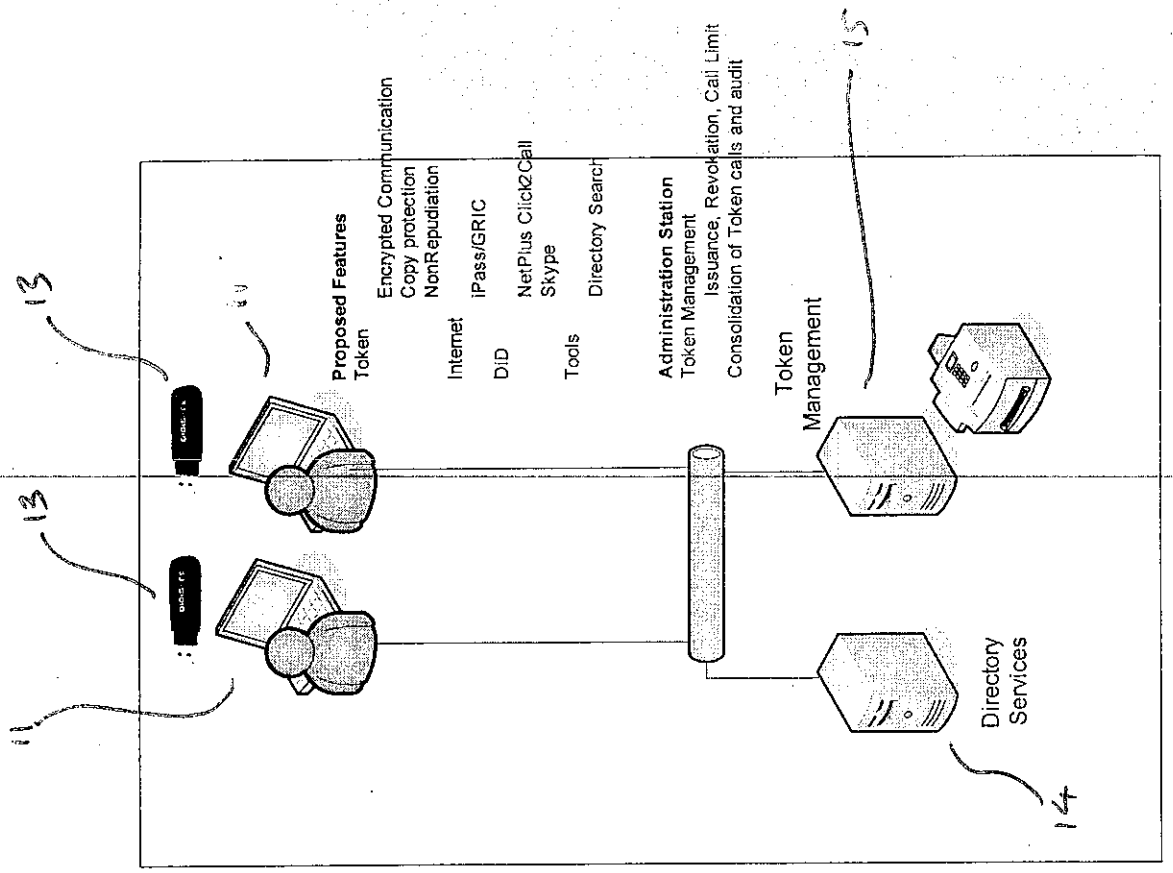
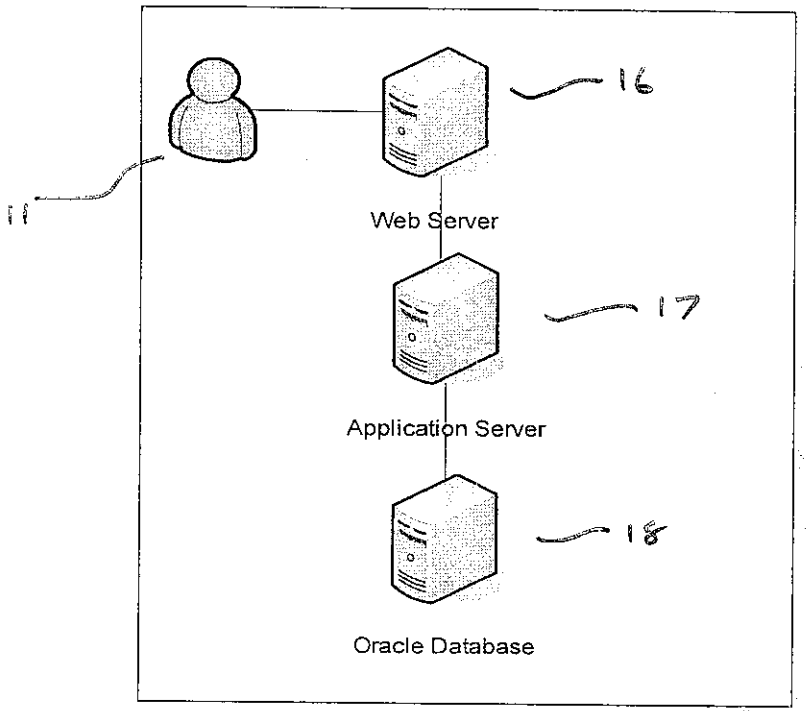

13
13
11
Proposed Features
Token
Encrypted Communication
Copy protection
NonRepudiation
Internet
iPass/GRIC
DiD
NetPlus Click2Call
Skype
Tools
Directory Search
Administration Station
Token Management
Issuance, Revokation, Call Limit
Consolidation of Token calls and audit
15
Token
Management
Directory
Services
14

FIGURE 2


16
11
Web Server
17
Application Server
18
Oracle Database

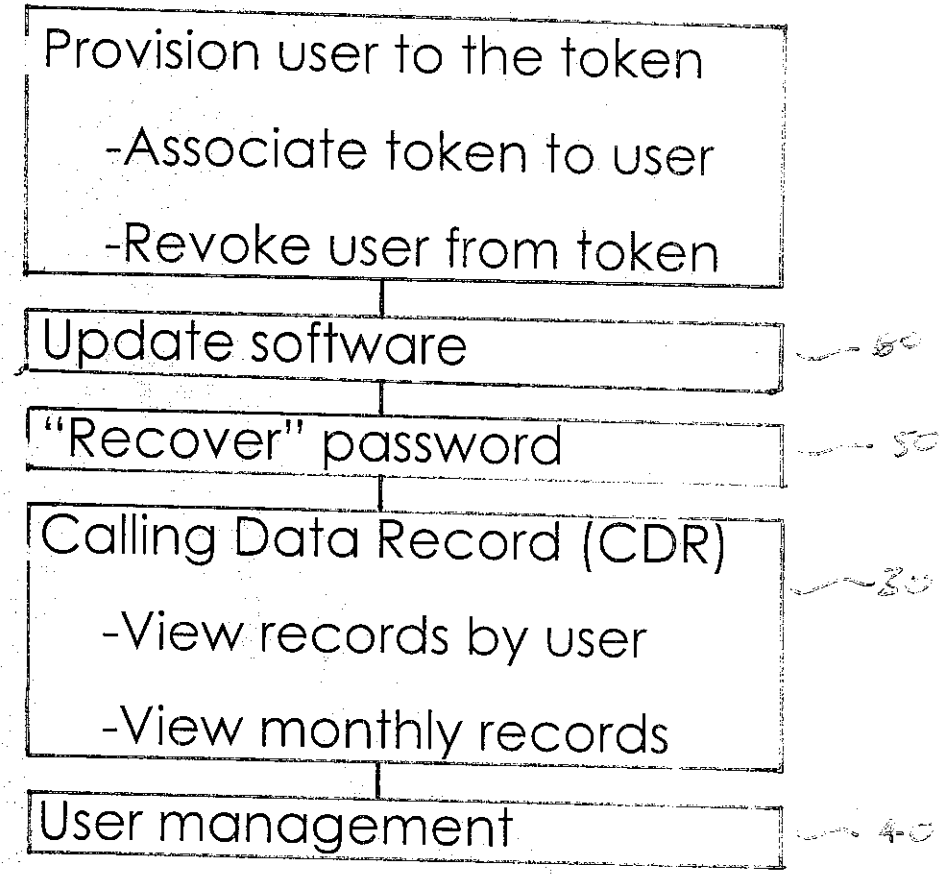

Provision user to the token
-Associate token to user
-Revoke user from token
Update software
60
"Recover" password
50
Calling Data Record (CDR)
30
-View records by user
-View monthly records
User management
40

FIGURE 3

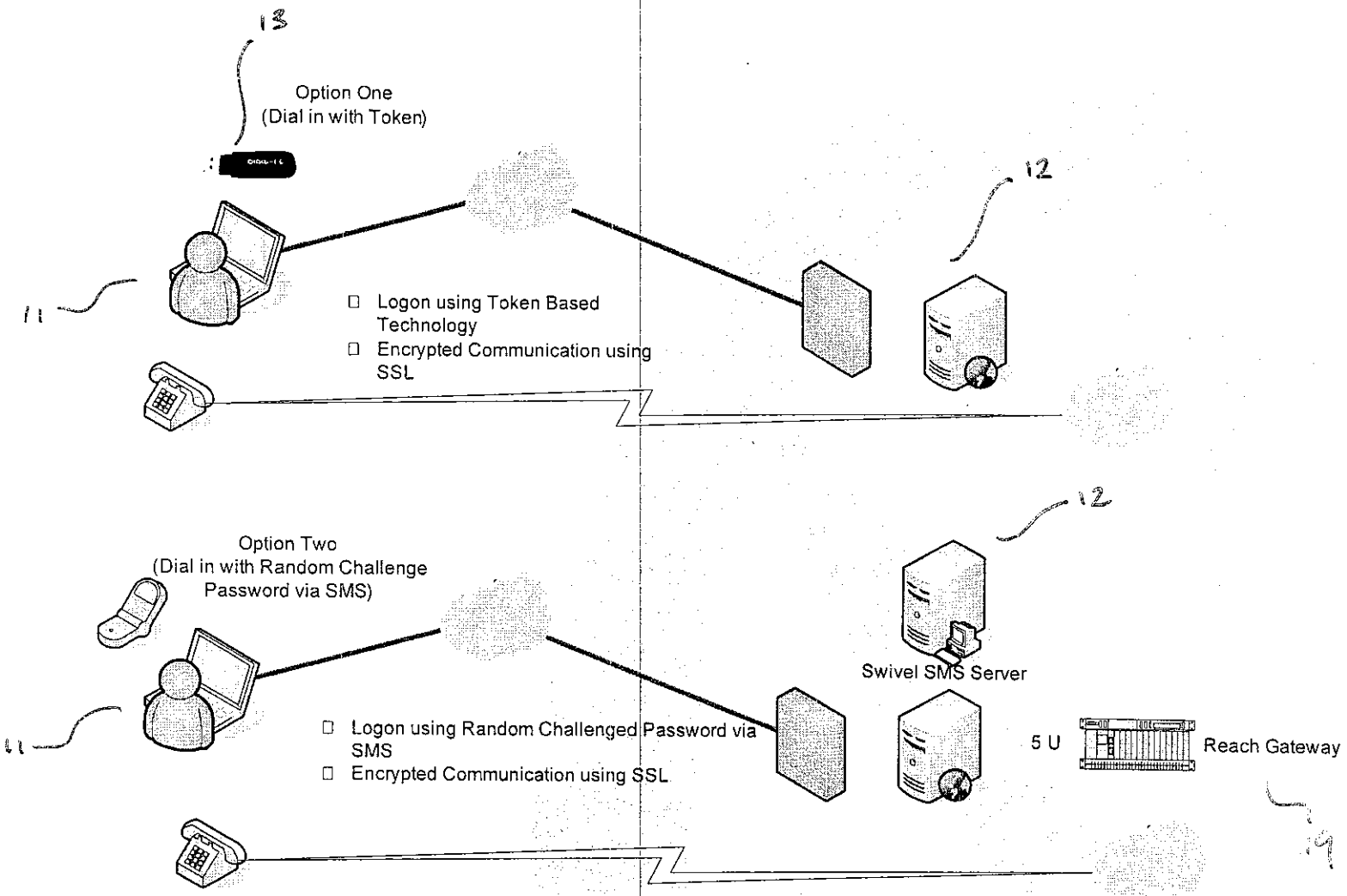

13
Option One
(Dial in with Token)
12
11
Logon using Token Based Technology
Encrypted Communication using SSL
12
Option Two
(Dial in with Random Challenge Password via SMS)
Swivel SMS Server
11
Logon using Random Challenged Password via SMS
Encrypted Communication using SSL
5 U
Reach Gateway
19

FIGURE 4

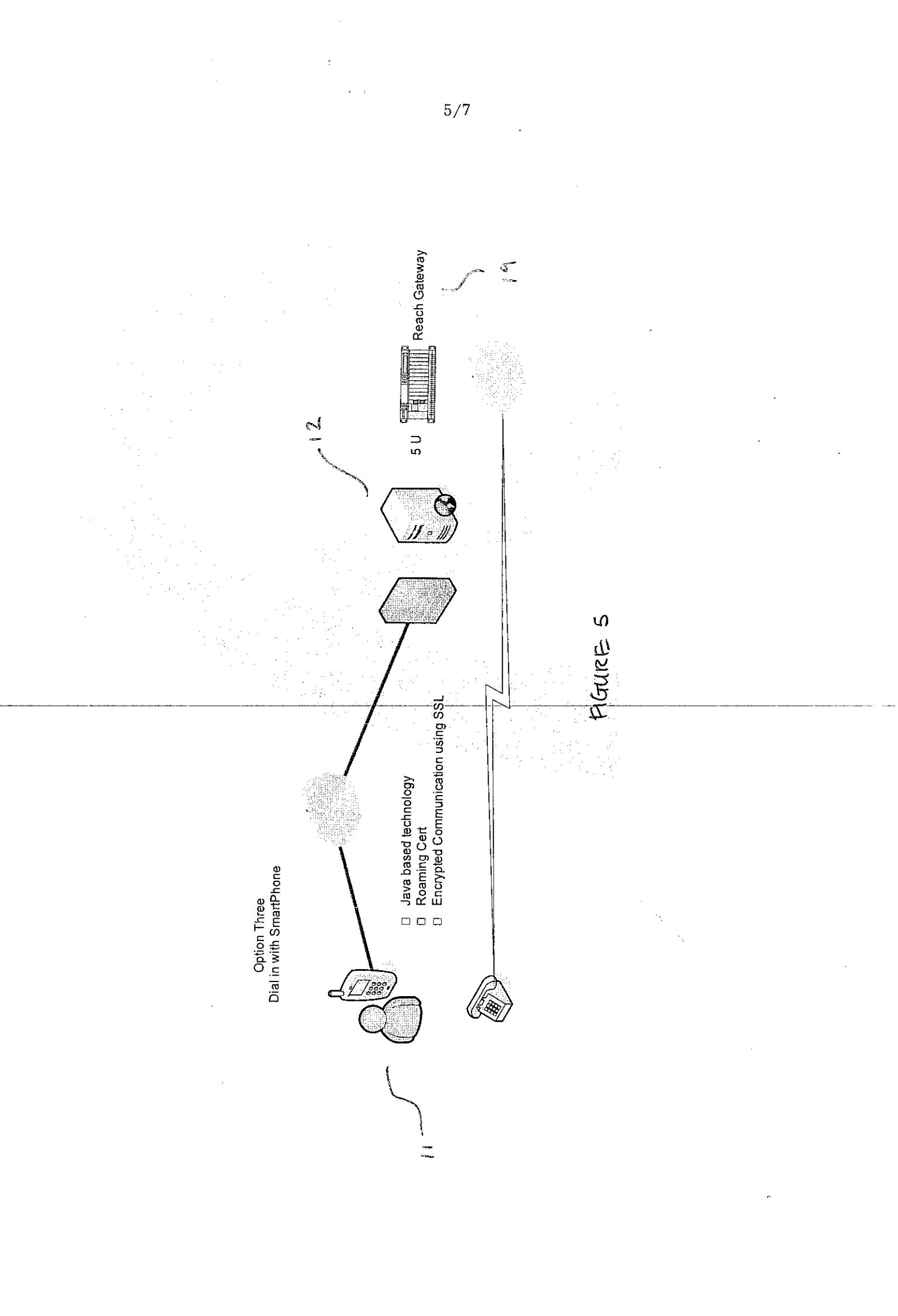

Option Three
Dial in with SmartPhone
Java based technology
Roaming Cert
Encrypted Communication using SSL
Reach Gateway
11
12
19

FIGURE 5

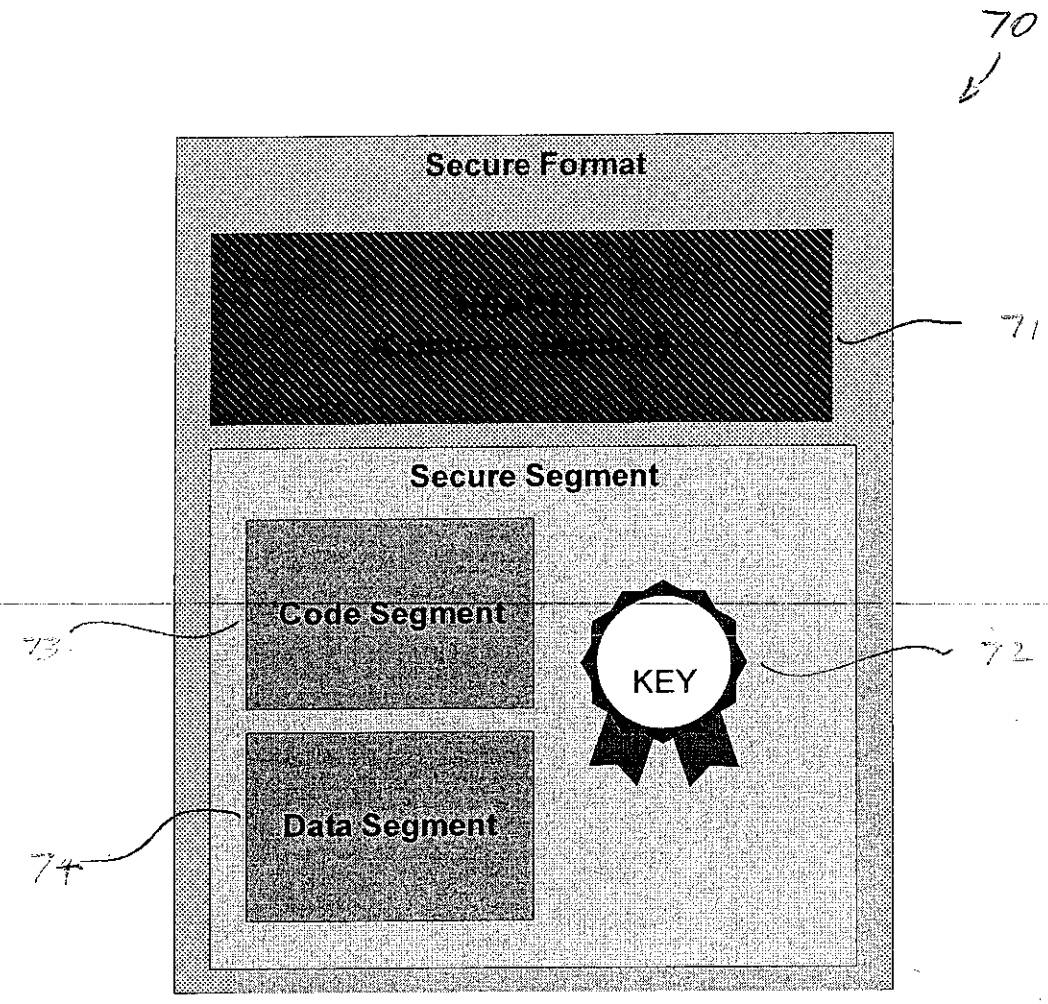

70
Secure Format
71
Secure Segment
Code Segment
KEY
72
73
Data Segment
74

FIGURE 6

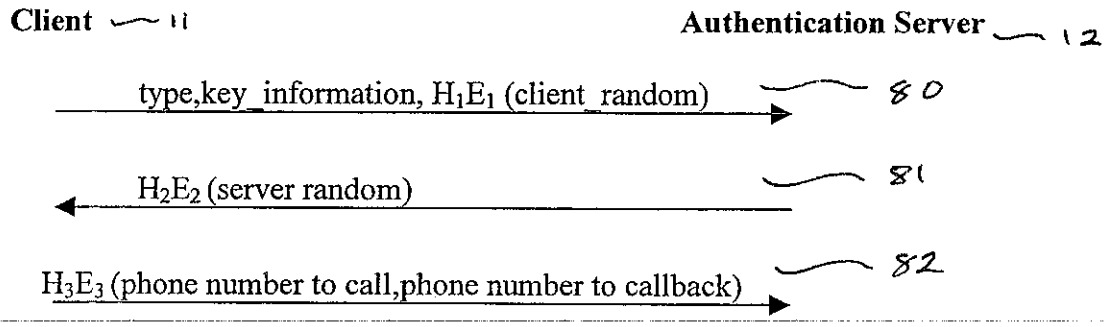

Client 11
Authentication Server 12
type,key_information, H_1E_1 (client_random)
80
H_2E_2 (server random)
81
H_3E_3 (phone number to call,phone number to callback)
82

FIGURE 7