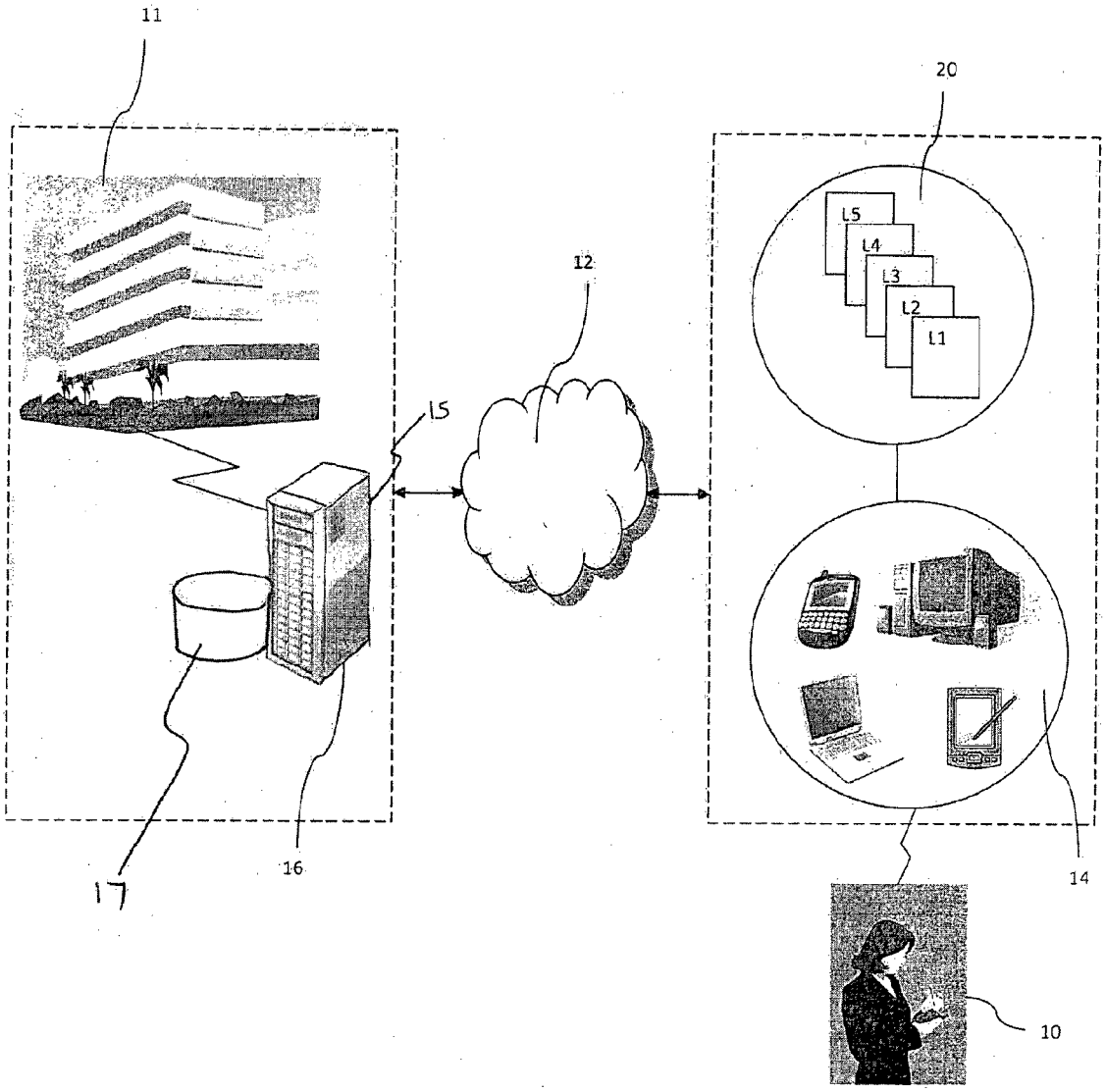

FIGURE 1

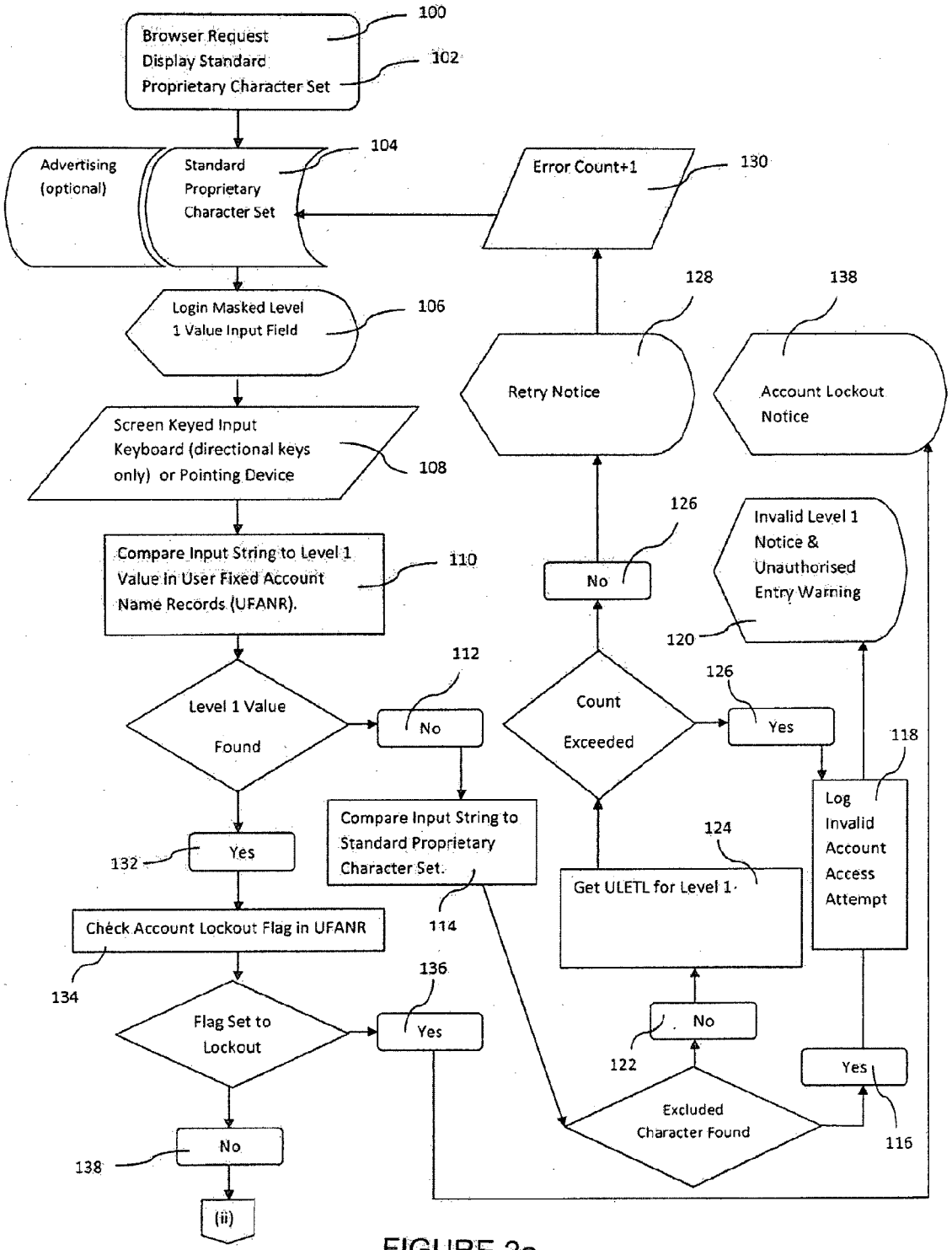
Browser Request Display Standard Proprietary Character Set
100
102
Advertising (optional)
Standard Proprietary Character Set
104
Error Count+1
130
Login Masked Level 1 Value Input Field
106
128
138
Retry Notice
Account Lockout Notice
Screen Keyed Input Keyboard (directional keys only) or Pointing Device
108
126
Invalid Level 1 Notice & Unauthorised Entry Warning
120
Compare Input String to Level 1 Value in User Fixed Account Name Records (UFANR).
110
No
112
Level 1 Value Found
Count Exceeded
126
Yes
118
Log Invalid Account Access Attempt
Compare Input String to Standard Proprietary Character Set.
124
Get ULETL for Level 1
132
Yes
Check Account Lockout Flag in UFANR
114
134
136
Flag Set to Lockout
Yes
No
122
Yes
Excluded Character Found
116
138
No
(ii)

FIGURE 2a

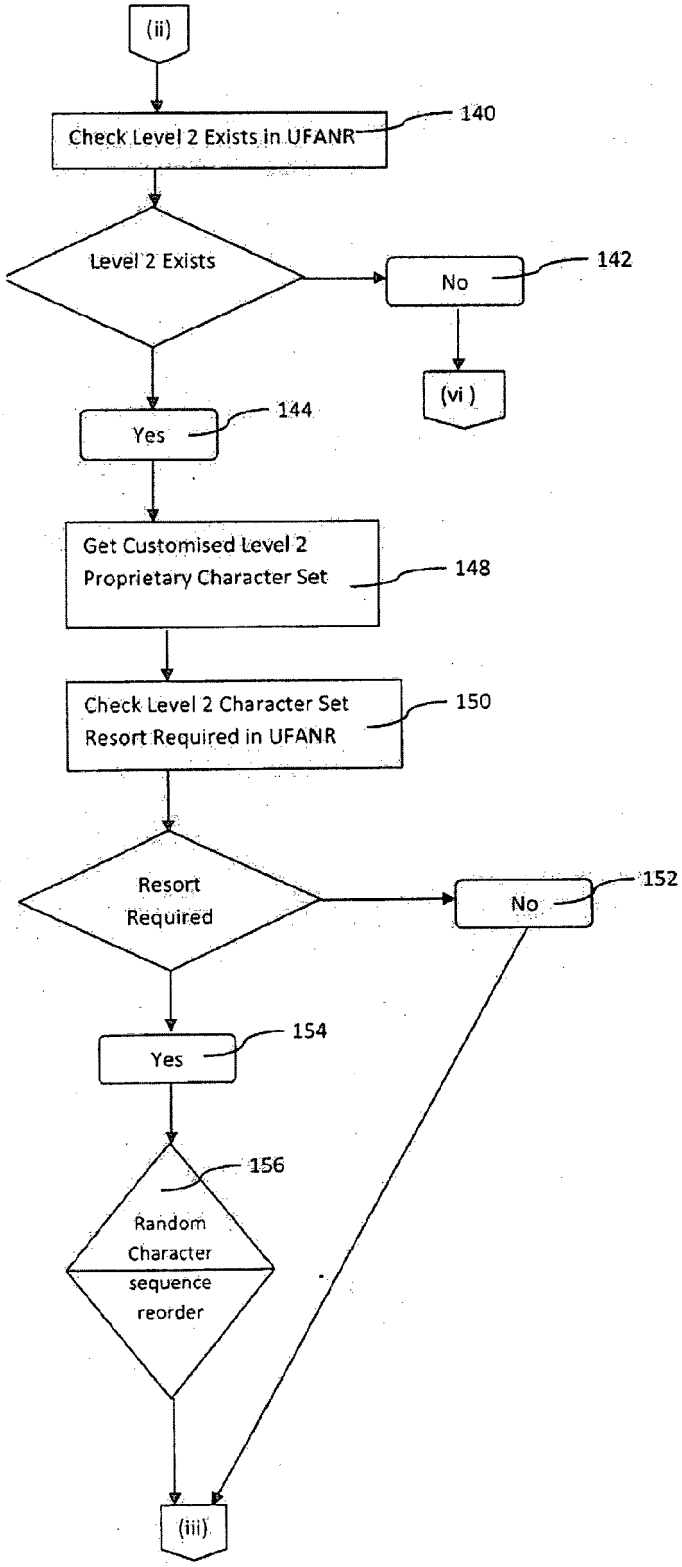
(ii)
Check Level 2 Exists in UFANR
140
Level 2 Exists
No
142
(vi)
Yes
144
Get Customised Level 2 Proprietary Character Set
148
Check Level 2 Character Set Resort Required in UFANR
150
Resort Required
No
152
Yes
154
156
Random Character sequence reorder
(iii)

FIGURE 2b

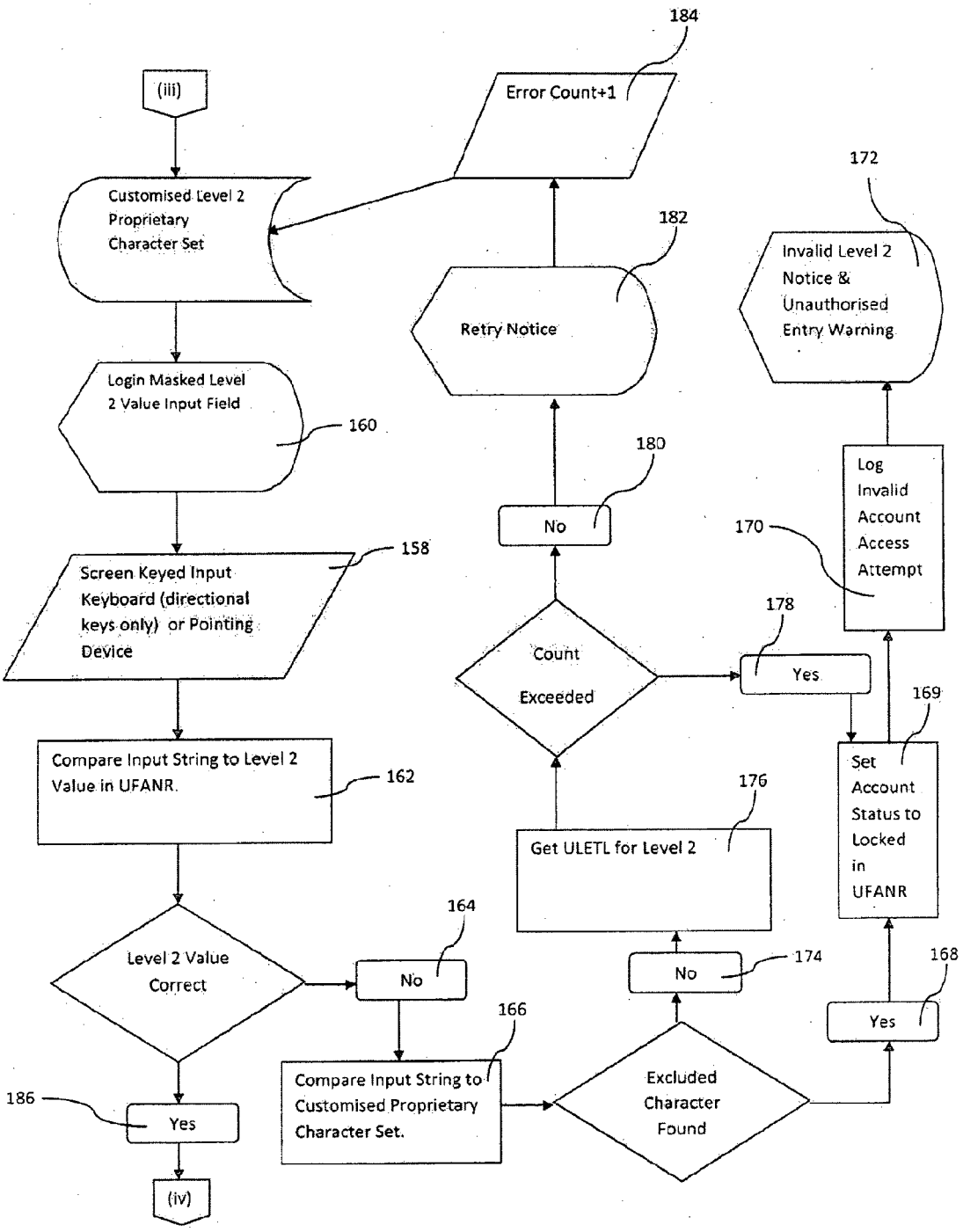
(iii)
Customised Level 2 Proprietary Character Set
Login Masked Level 2 Value Input Field
160
Screen Keyed Input Keyboard (directional keys only) or Pointing Device
158
Compare Input String to Level 2 Value in UFANR.
162
Level 2 Value Correct
164
No
Yes
186
(iv)
Compare Input String to Customised Proprietary Character Set.
166
Excluded Character Found
Yes
168
No
174
Get ULETL for Level 2
176
Count Exceeded
178
Yes
No
180
Retry Notice
182
Error Count+1
184
Set Account Status to Locked in UFANR
169
Log Invalid Account Access Attempt
170
Invalid Level 2 Notice & Unauthorised Entry Warning
172

FIGURE 2c

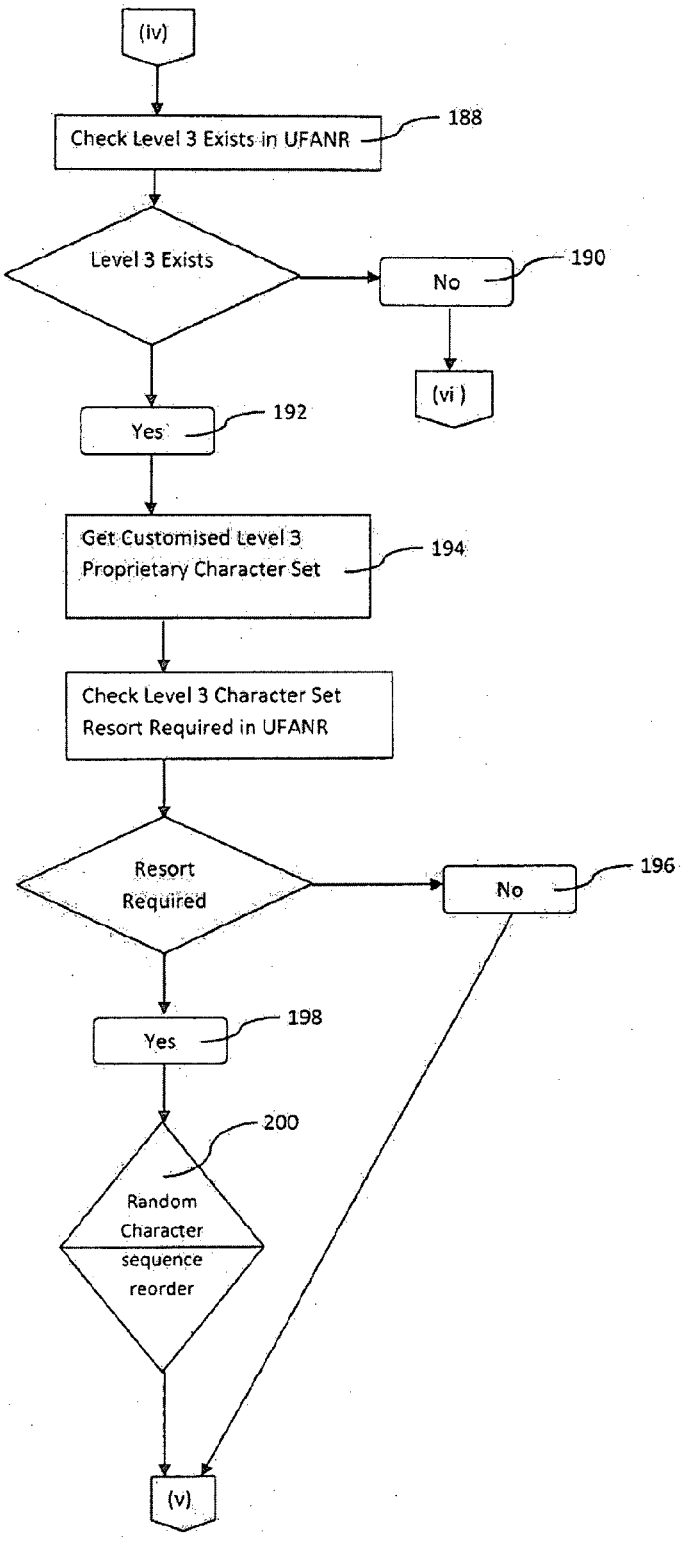
(iv)
Check Level 3 Exists in UFANR
188
Level 3 Exists
No
190
(vi)
Yes
192
Get Customised Level 3 Proprietary Character Set
194
Check Level 3 Character Set Resort Required in UFANR
Resort Required
No
196
Yes
198
200
Random Character sequence reorder
(v)

FIGURE 2d

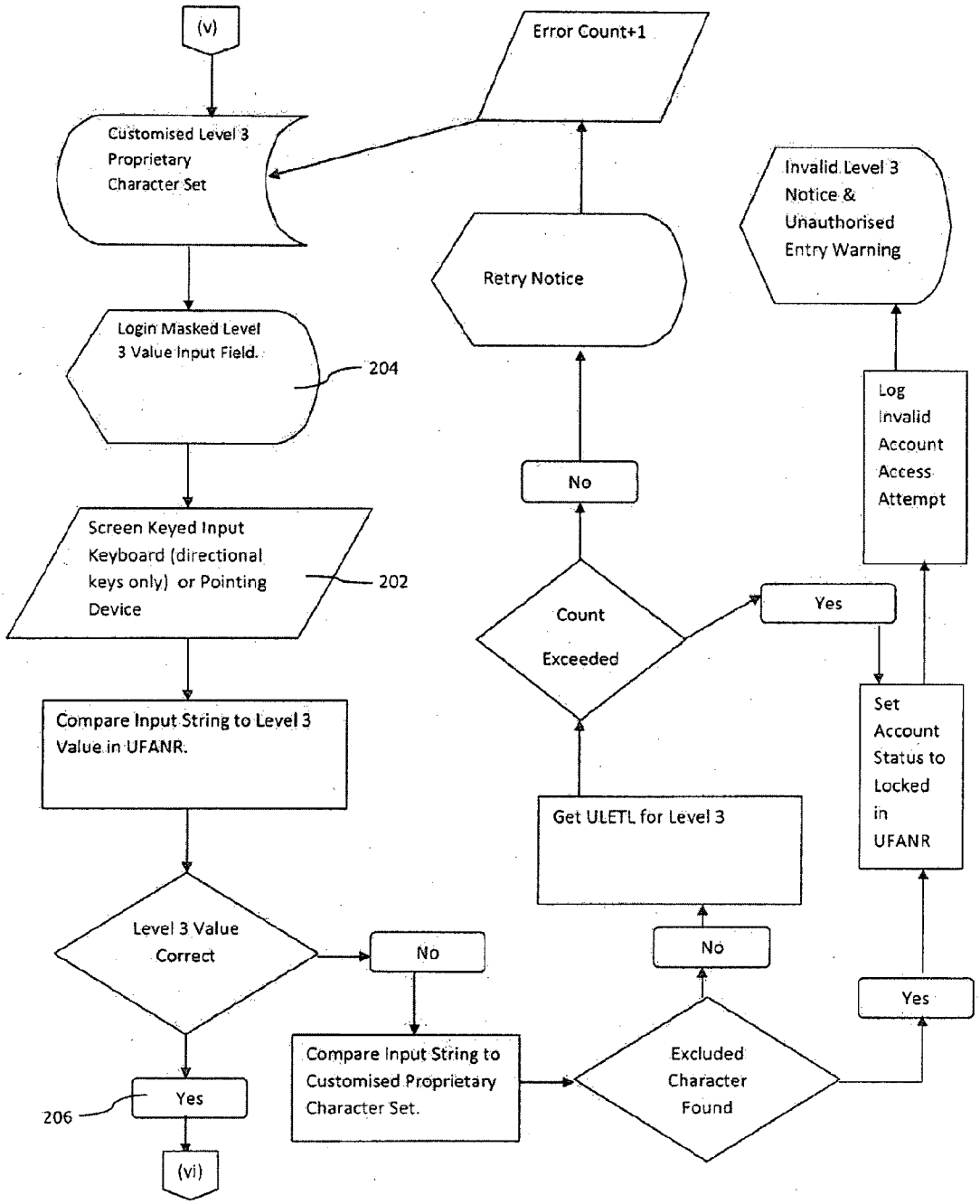
(v)
Error Count+1
Customised Level 3 Proprietary Character Set
Invalid Level 3 Notice & Unauthorised Entry Warning
Retry Notice
Login Masked Level 3 Value Input Field.
204
Log Invalid Account Access Attempt
No
Screen Keyed Input Keyboard (directional keys only) or Pointing Device
202
Count Exceeded
Yes
Compare Input String to Level 3 Value in UFANR.
Set Account Status to Locked in UFANR
Get ULETL for Level 3
Level 3 Value Correct
No
No
Yes
Compare Input String to Customised Proprietary Character Set.
Excluded Character Found
Yes
206
(vi)

FIGURE 2e

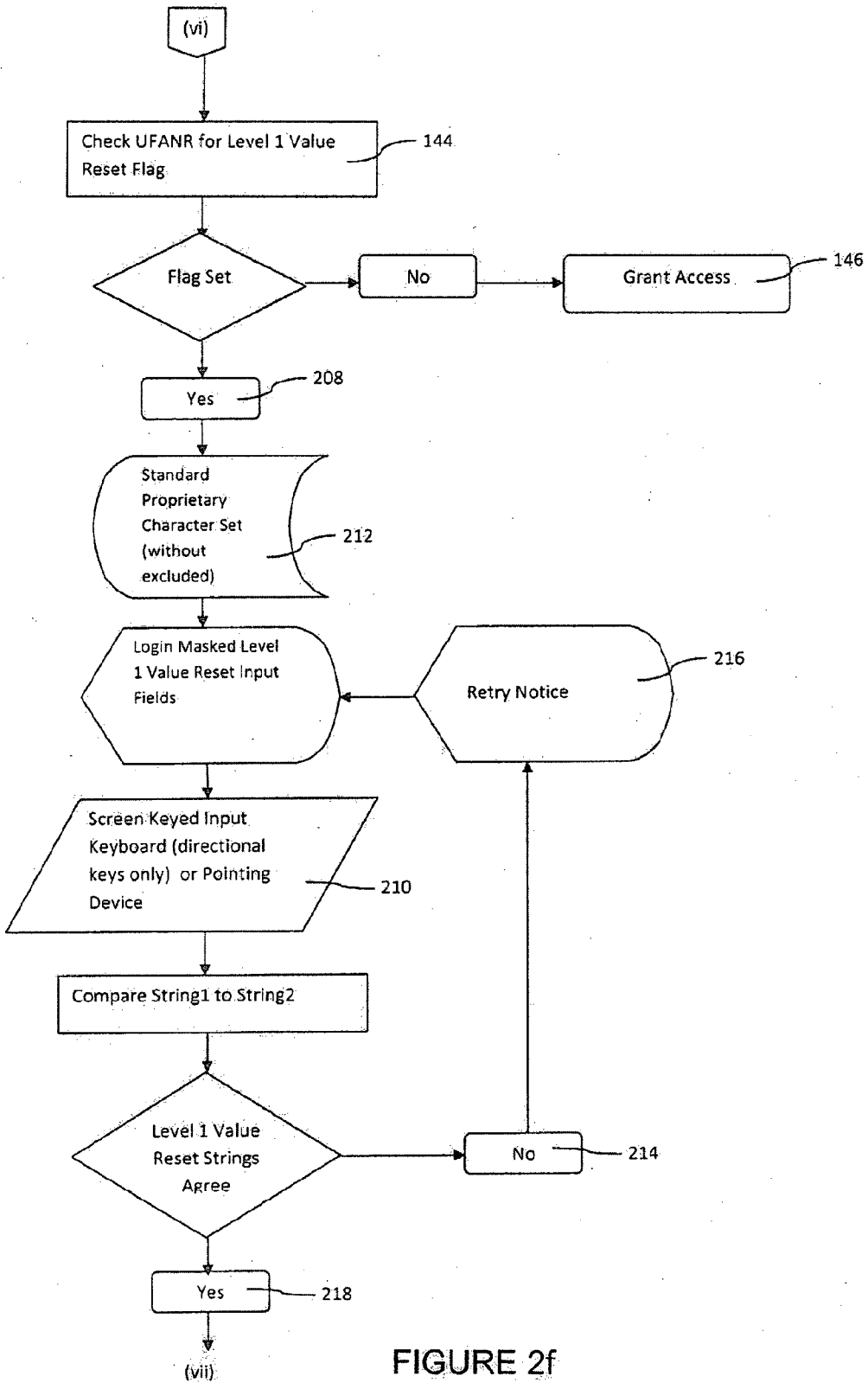
(vi)
Check UFANR for Level 1 Value Reset Flag
144
Flag Set
No
Grant Access
146
Yes
208
Standard Proprietary Character Set (without excluded)
212
Login Masked Level 1 Value Reset Input Fields
Retry Notice
216
Screen Keyed Input Keyboard (directional keys only) or Pointing Device
210
Compare String1 to String2
Level 1 Value Reset Strings Agree
No
214
Yes
218
(vii)

FIGURE 2f

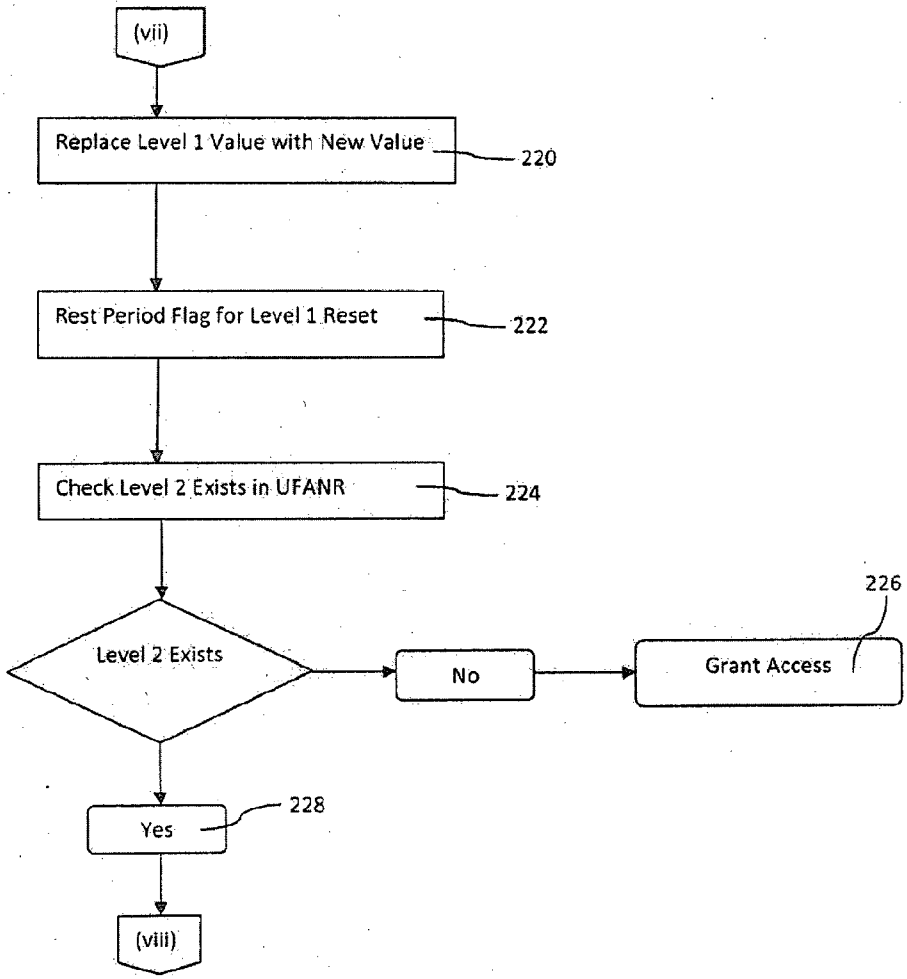
(vii)
Replace Level 1 Value with New Value
220
Rest Period Flag for Level 1 Reset
222
Check Level 2 Exists in UFANR
224
226
Level 2 Exists
No
Grant Access
Yes
228
(viii)

FIGURE 2g

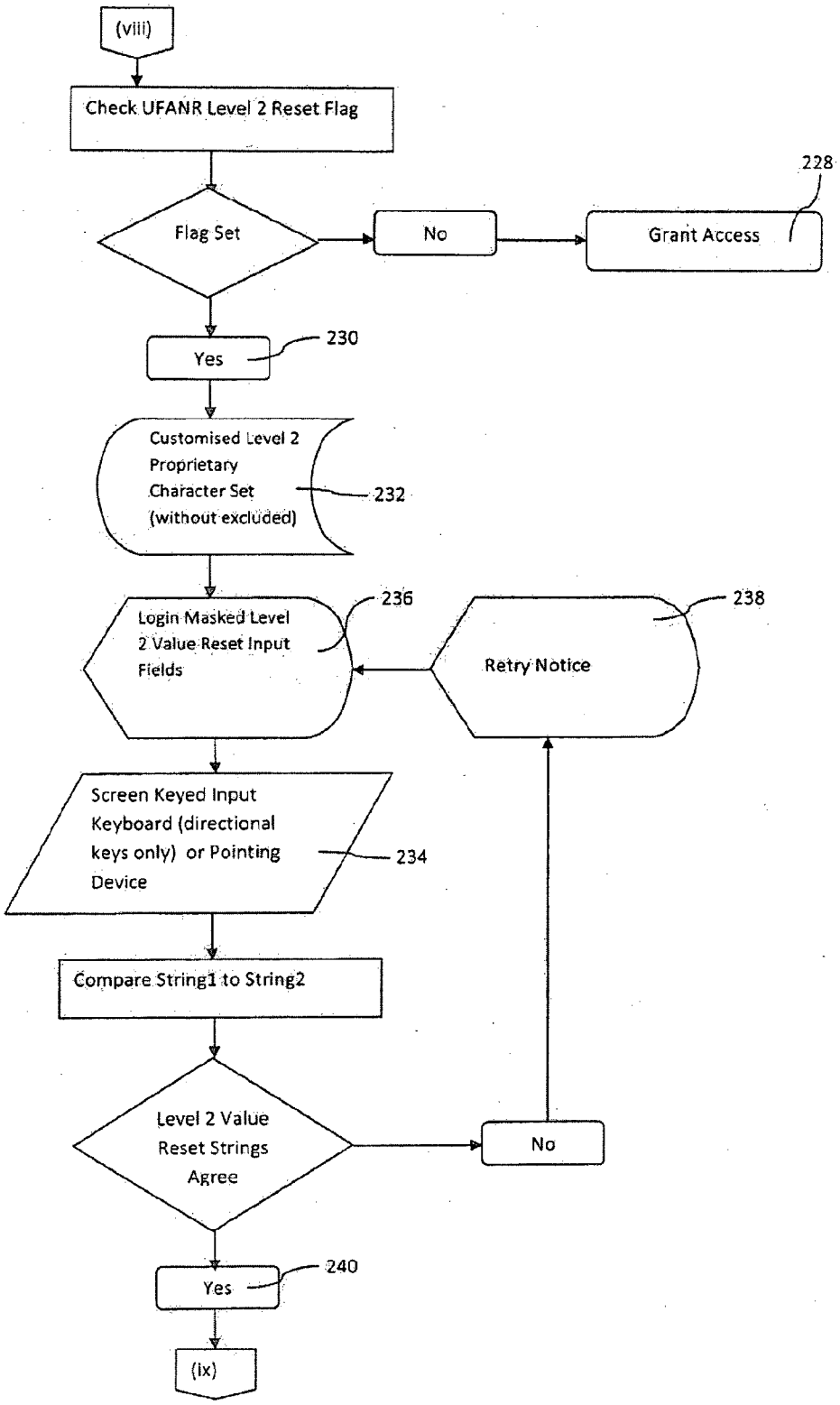
(viii)
Check UFANR Level 2 Reset Flag
Flag Set
No
228
Grant Access
Yes
230
Customised Level 2 Proprietary Character Set (without excluded)
232
Login Masked Level 2 Value Reset Input Fields
236
Retry Notice
238
Screen Keyed Input Keyboard (directional keys only) or Pointing Device
234
Compare String1 to String2
Level 2 Value Reset Strings Agree
No
Yes
240
(ix)

FIGURE 2h

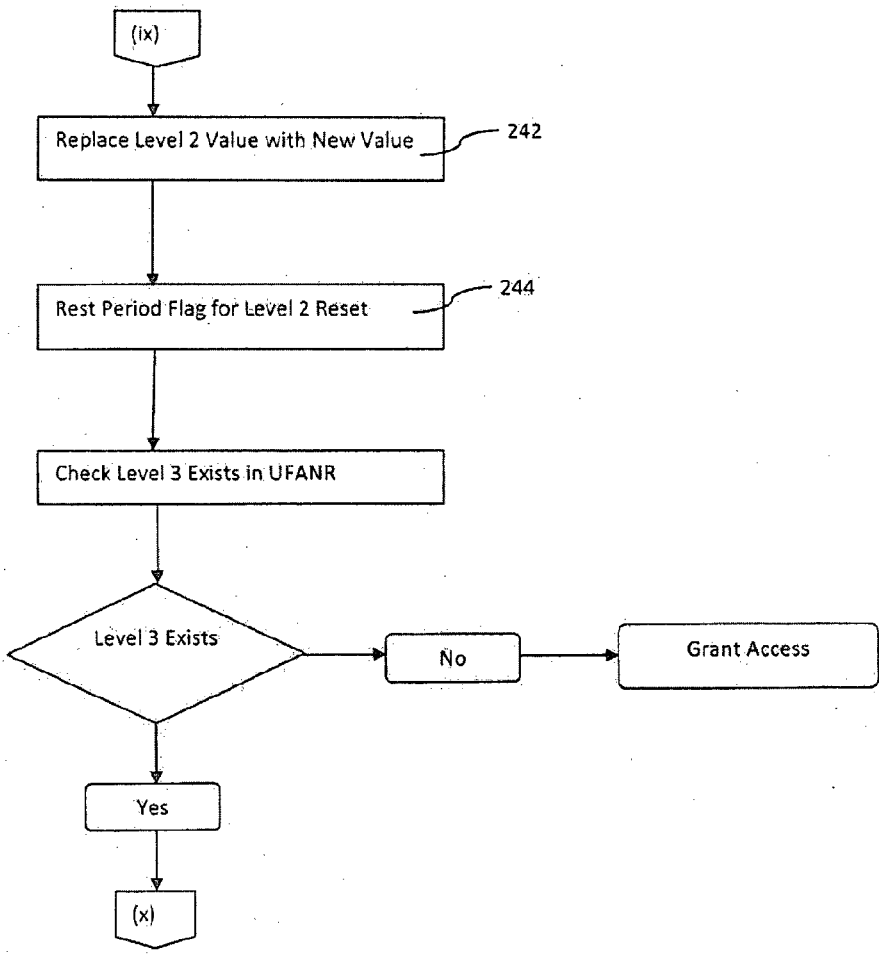
(ix)
Replace Level 2 Value with New Value
242
Rest Period Flag for Level 2 Reset
244
Check Level 3 Exists in UFANR
Level 3 Exists
No
Grant Access
Yes
(x)

FIGURE 2i

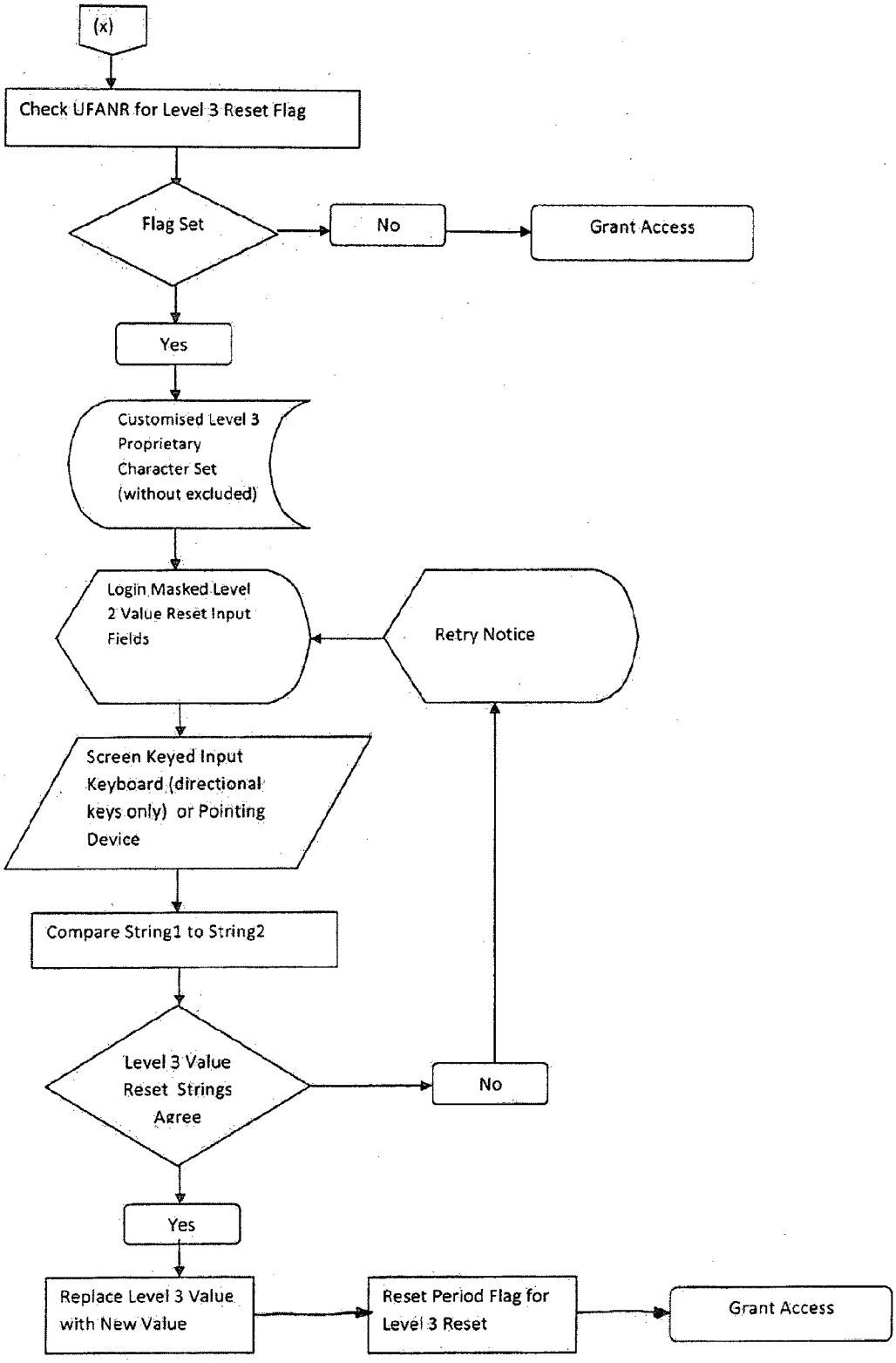
(x)
Check UFANR for Level 3 Reset Flag
Flag Set
No
Grant Access
Yes
Customised Level 3 Proprietary Character Set (without excluded)
Login Masked Level 2 Value Reset Input Fields
Retry Notice
Screen Keyed Input Keyboard (directional keys only) or Pointing Device
Compare String1 to String2
Level 3 Value Reset Strings Agree
No
Yes
Replace Level 3 Value with New Value
Reset Period Flag for Level 3 Reset
Grant Access

FIGURE 2j

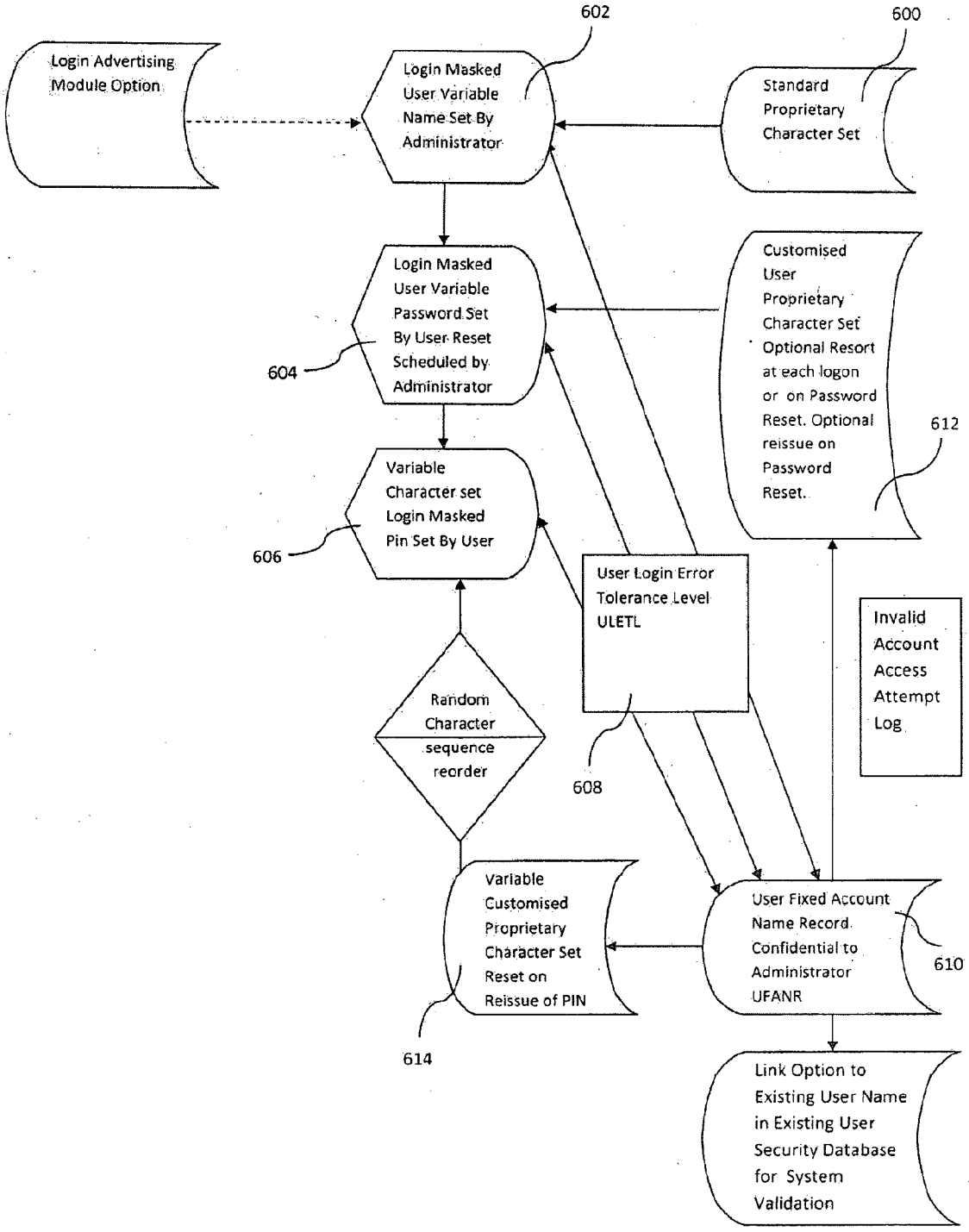
Login Advertising Module Option
602
Login Masked User Variable Name Set By Administrator
600
Standard Proprietary Character Set
Login Masked User Variable Password Set By User Reset Scheduled by Administrator
604
Customised User Proprietary Character Set Optional Resort at each logon or on Password Reset. Optional reissue on Password Reset.
612
Variable Character set Login Masked Pin Set By User
606
User Login Error Tolerance Level ULETL
Invalid Account Access Attempt Log
Random Character sequence reorder
608
Variable Customised Proprietary Character Set Reset on Reissue of PIN
614
User Fixed Account Name Record Confidential to Administrator UFANR
610
Link Option to Existing User Name in Existing User Security Database for System Validation

FIGURE 3

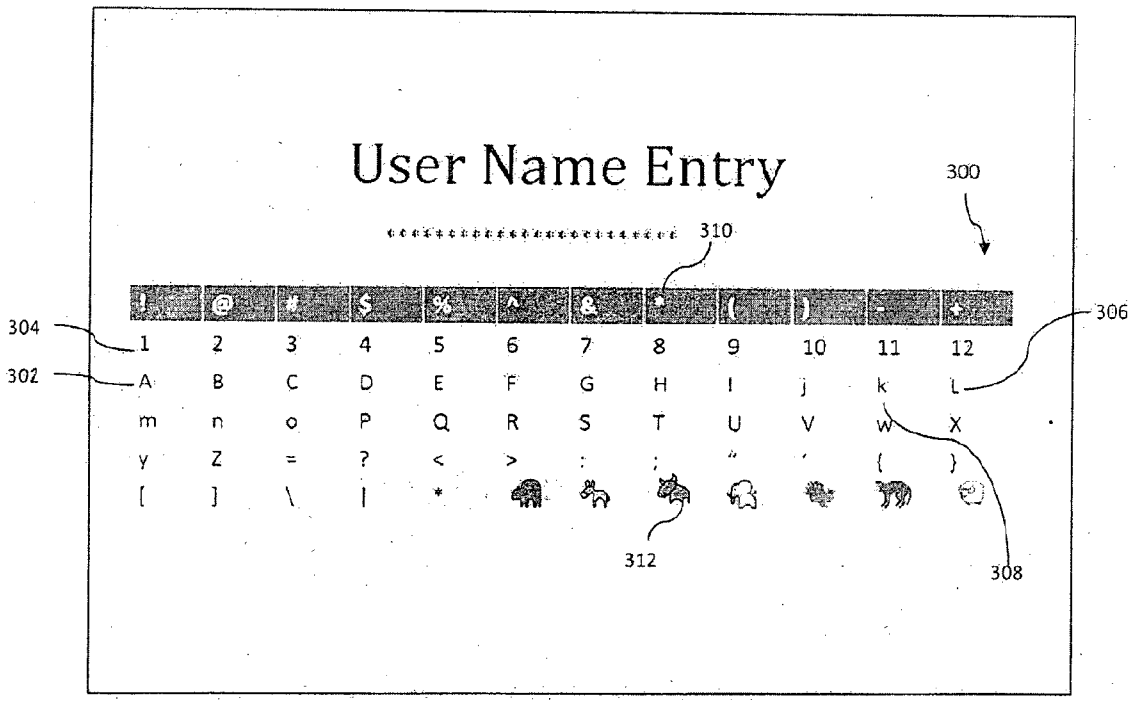
User Name Entry
300
310
304
302
306
308
312
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I j k L
m n o P Q R S T U V W X
y Z = ? < > : ; " ' { }
[ ] \ | *

FIGURE 4

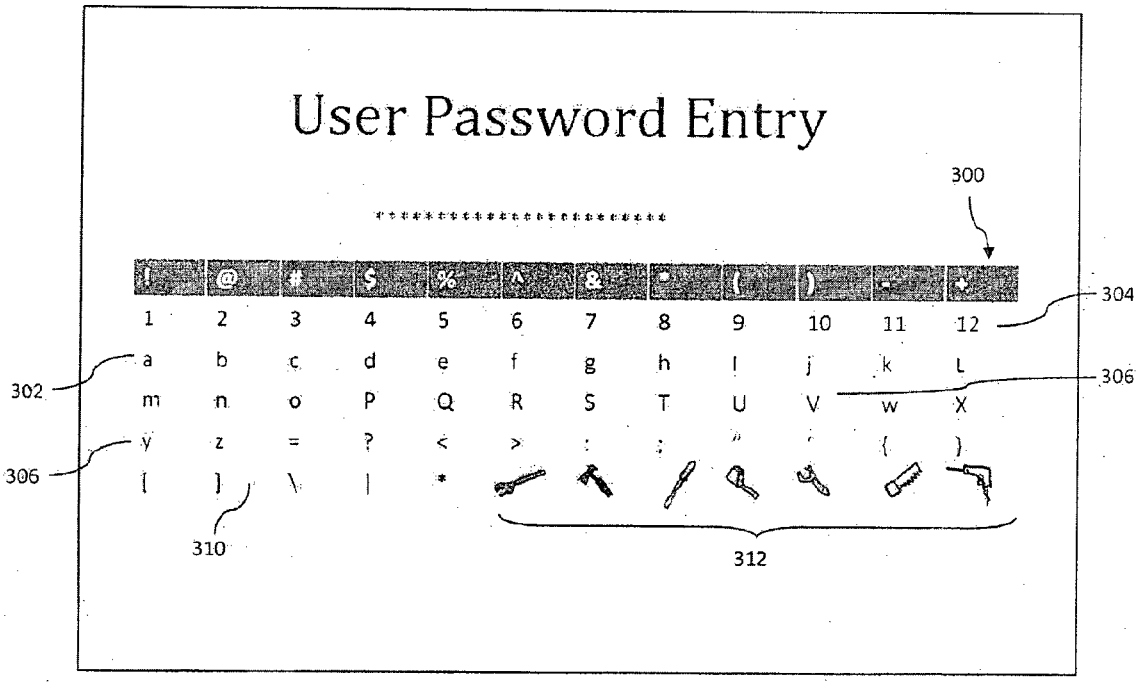

FIGURE 5

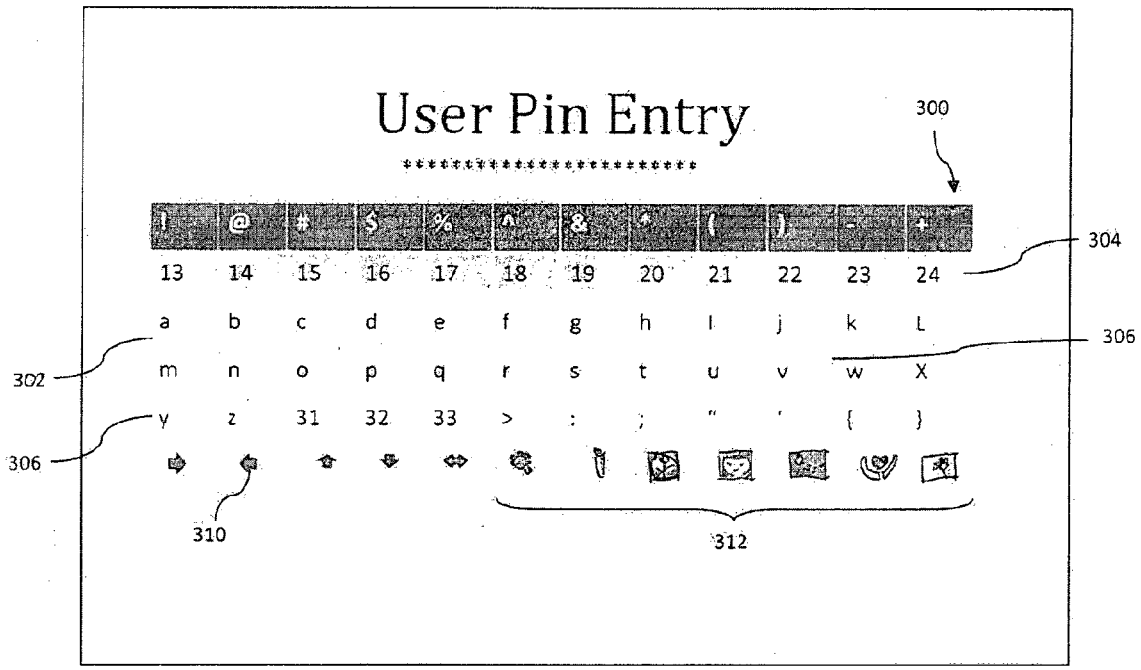
User Pin Entry
300
304
306
302
306
310
312
13 14 15 16 17 18 19 20 21 22 23 24
a b c d e f g h I j k L
m n o p q r s t u v w X
y z 31 32 33 > : ; " ' { }

FIGURE 6

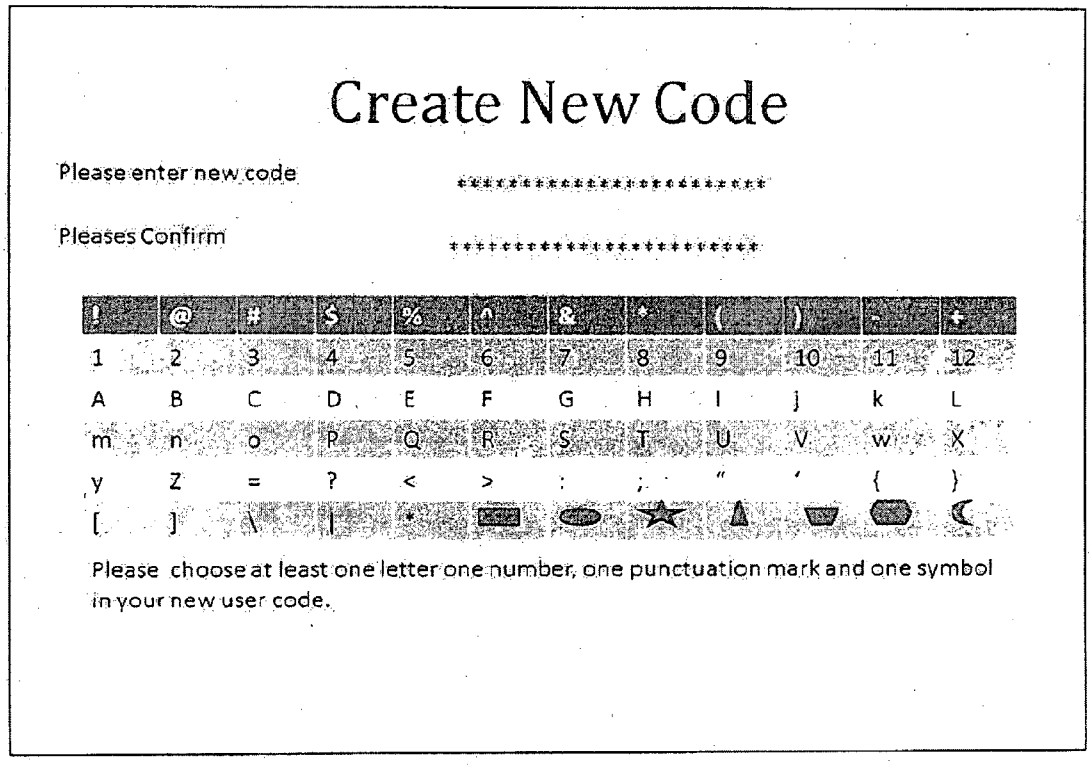
Create New Code
Please enter new code
Pleases Confirm
! @ # $ % ^ & * ( ) - +
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I j k L
m n o P Q R S T U V w X
y Z = ? < > : ; " ' { }
[ ] \ | ` ~
Please choose at least one letter one number, one punctuation mark and one symbol in your new user code.

FIGURE 7

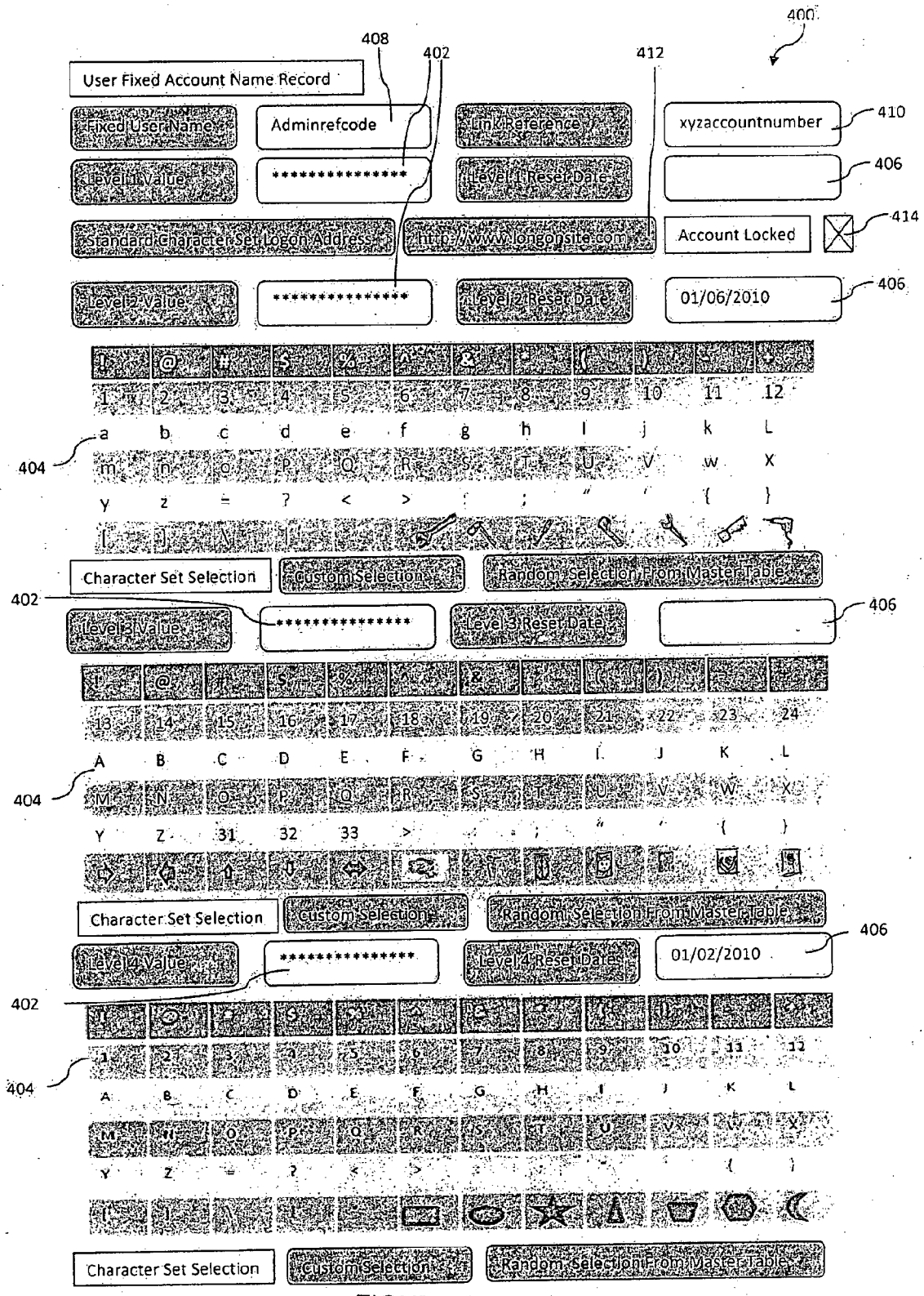
400
408
402
412
User Fixed Account Name Record
Fixed User Name
Adminrefcode
Link Reference
xyzaccountnumber
410
Level 1 Value
Level 1 Reset Date
406
Standard Character Set Logon Address
http://www.longonsite.com
Account Locked
414
Level 2 Value
Level 2 Reset Date
01/06/2010
406
404
Character Set Selection
Custom Selection
Random Selection From Master Table
402
Level 3 Value
Level 3 Reset Date
406
404
Character Set Selection
Custom Selection
Random Selection From Master Table
Level 4 Value
Level 4 Reset Dates
01/02/2010
406
402
404
Character Set Selection
Custom Selection
Random Selection From Master Table

FIGURE 8

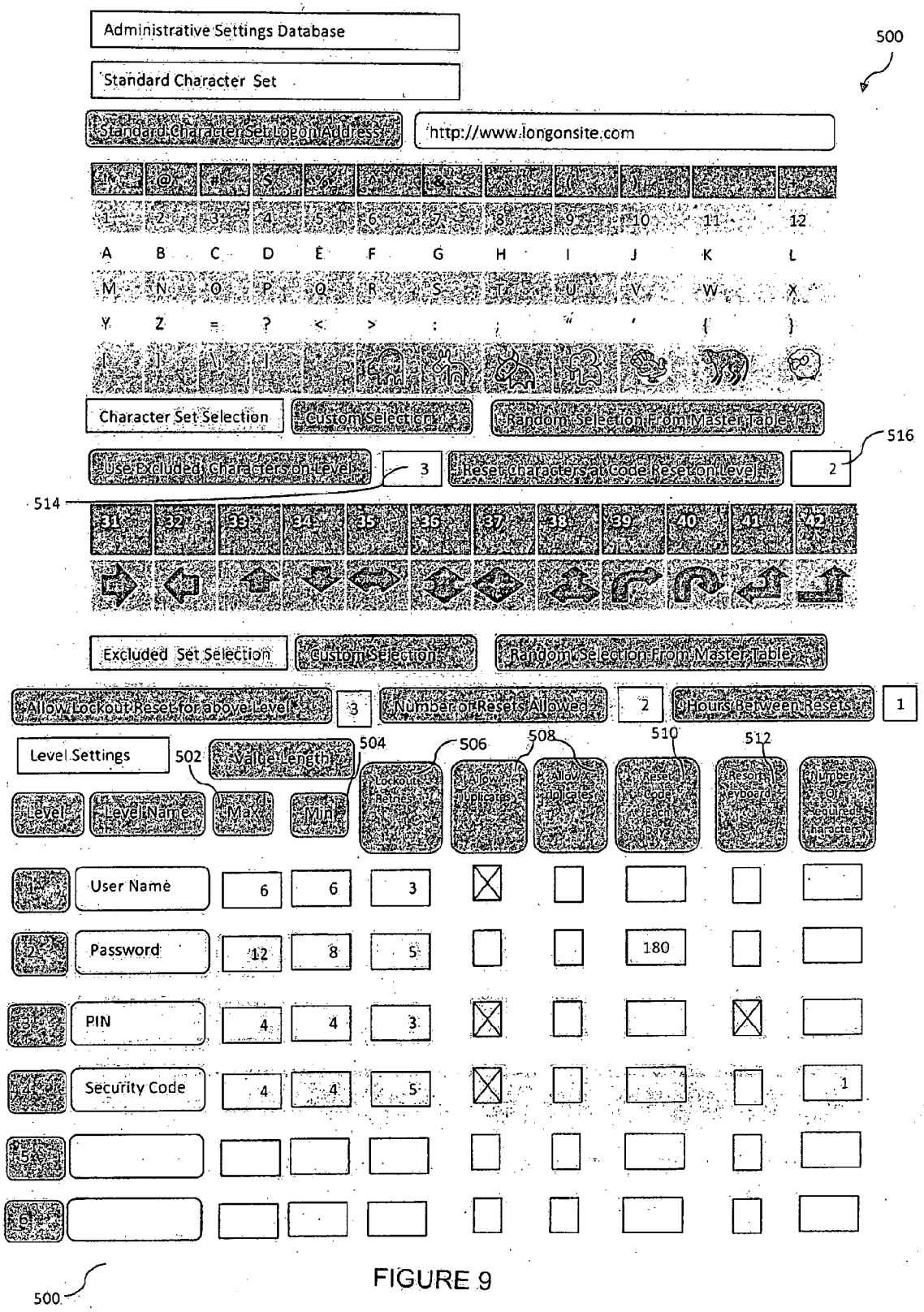
Administrative Settings Database
Standard Character Set
Standard Character Set Logon Address
http://www.longonsite.com
Character Set Selection
Custom Selection
Random Selection From Master Table
Use Excluded characters on Level
3
Reset characters at Code Reset on Level
2
Excluded Set Selection
Custom Selection
Random Selection From Master Table
Allow Lockout Reset for above Level
3
Number of Resets Allowed
2
Hours Between Resets
1
Level Settings
Value Length
Level
Level Name
Max
Min
Lockout Retries
Allow Duplicates
Allow Duplicates
Reset Code Each Days
Reset Keyboard
Number of Required Characters
1
User Name
6
6
3
2
Password
12
8
5
180
3
PIN
4
4
3
4
Security Code
4
4
5
1
5
6
500
502
504
506
508
510
512
514
516

FIGURE 9

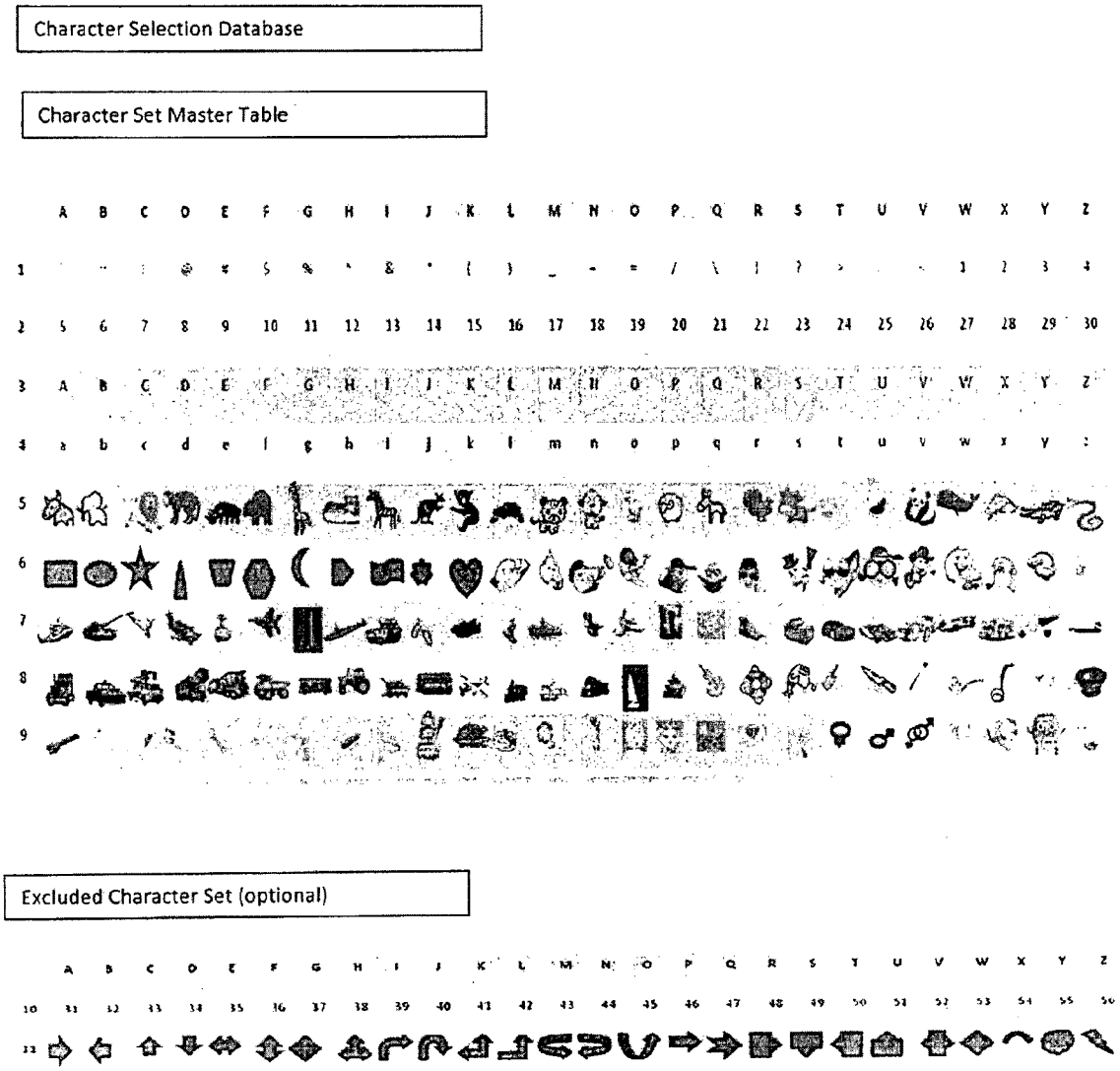
Character Selection Database
Character Set Master Table
Excluded Character Set (optional)

FIGURE 10

Character Selection Database

Character Set Master Table

Standard Character Range (appear in every set)	AD51:L52, H53:AG53
Required Character Range (do not include excluded characters)	H54:AG58
Excluded Character Range (do not include required characters)	H59:AG60

FIGURE 11

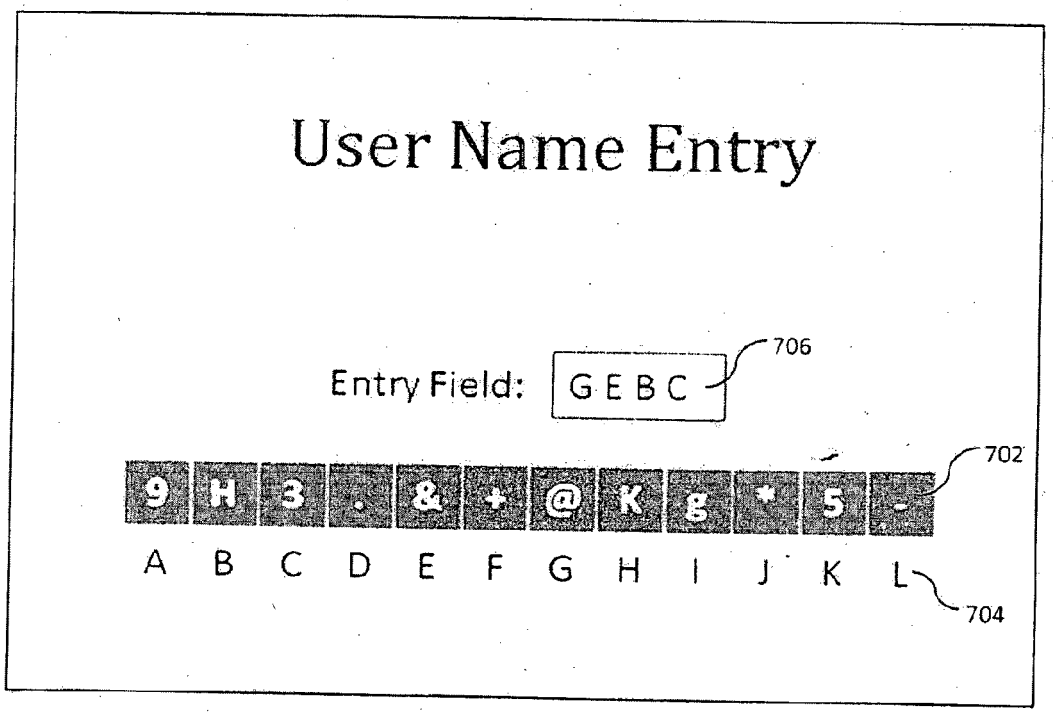
User Name Entry
Entry Field:
G E B C
706
9 H 3 . & + @ K g * 5 -
702
A B C D E F G H I J K L
704

FIGURE 12