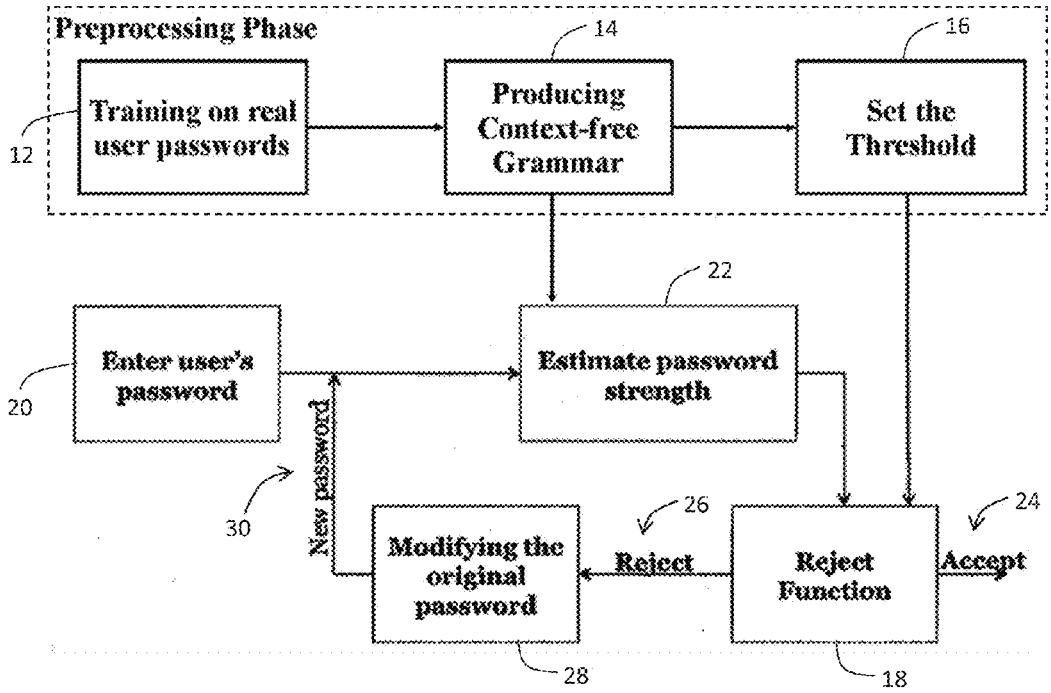
Preprocessing Phase
Training on real user passwords
Producing Context-free Grammar
Set the Threshold
Enter user's password
Estimate password strength
New password
Modifying the original password
Reject
Reject Function
Accept
12
14
16
20
22
24
26
28
30
18

FIG. 1

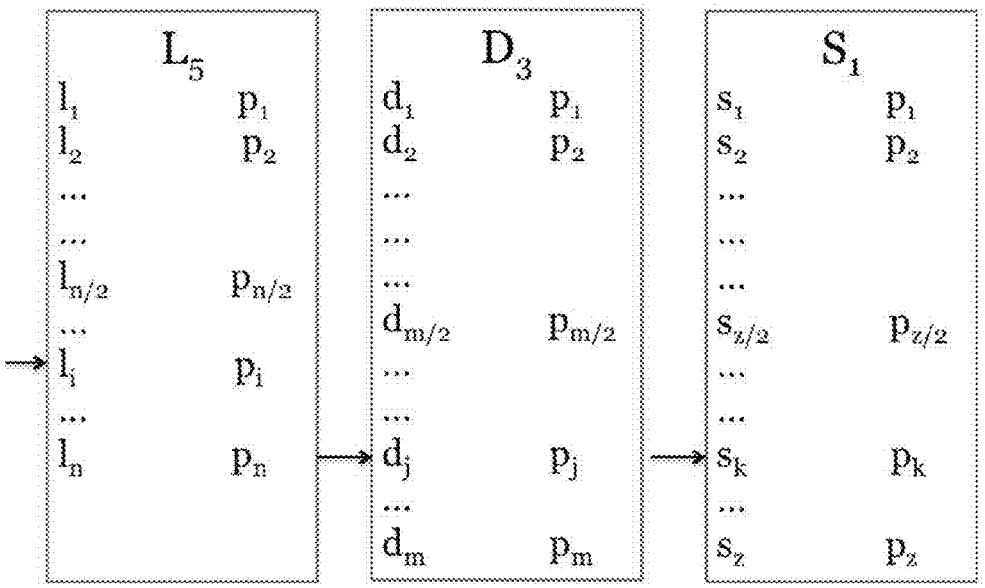
L_5
l_1 p_1
l_2 p_2
$l_{n/2}$ $p_{n/2}$
l_i p_i
l_n p_n
D_3
d_1 p_1
d_2 p_2
$d_{m/2}$ $p_{m/2}$
d_j p_j
d_m p_m
S_1
s_1 p_1
s_2 p_2
$s_{z/2}$ $p_{z/2}$
s_k p_k
s_z p_z

FIG. 2