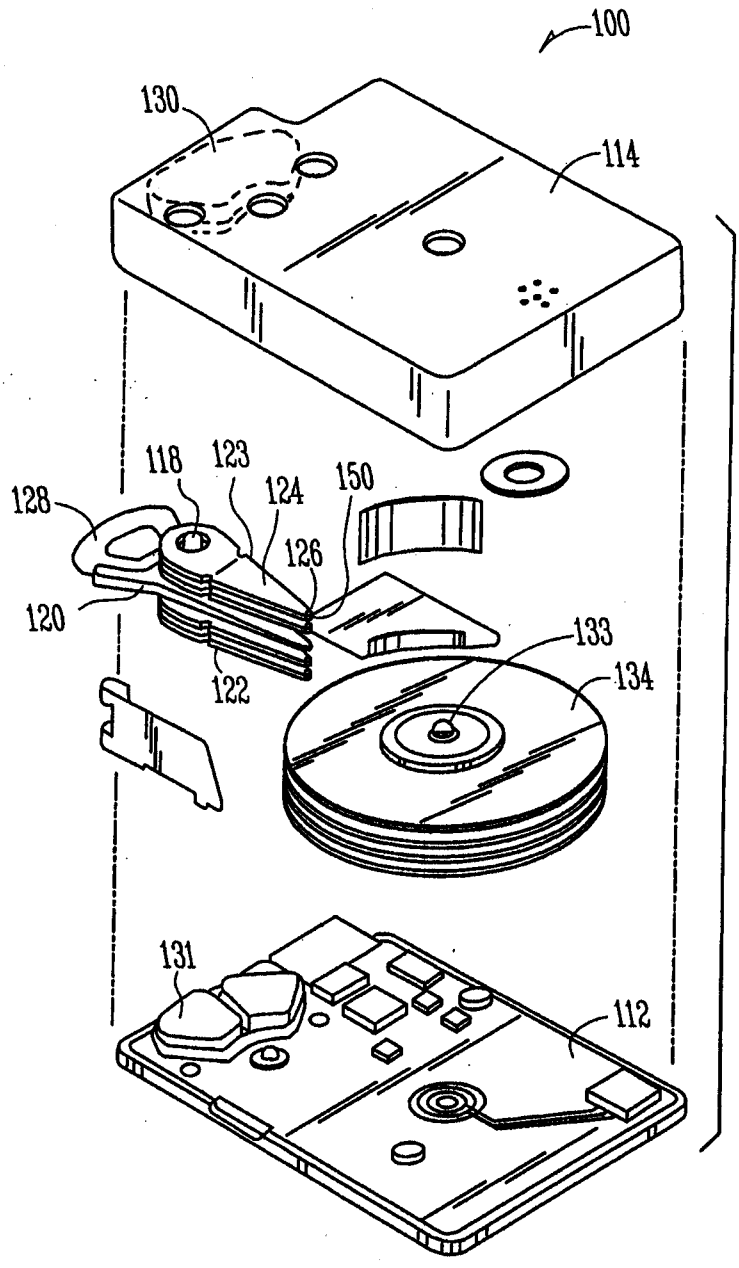


FIG. 1

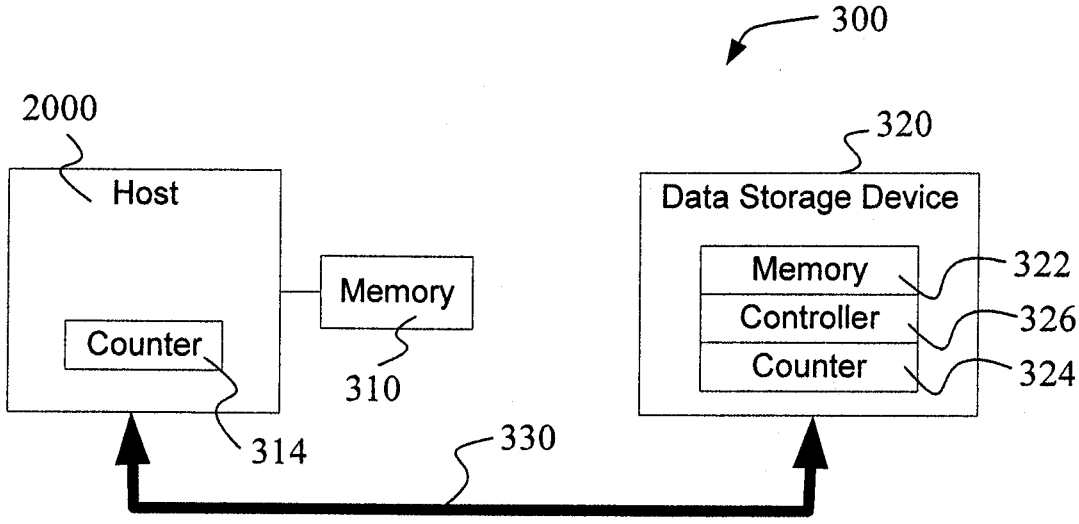

300
2000
Host
Counter
314
Memory
310
320
Data Storage Device
Memory
Controller
Counter
322
326
324
330

FIG. 2

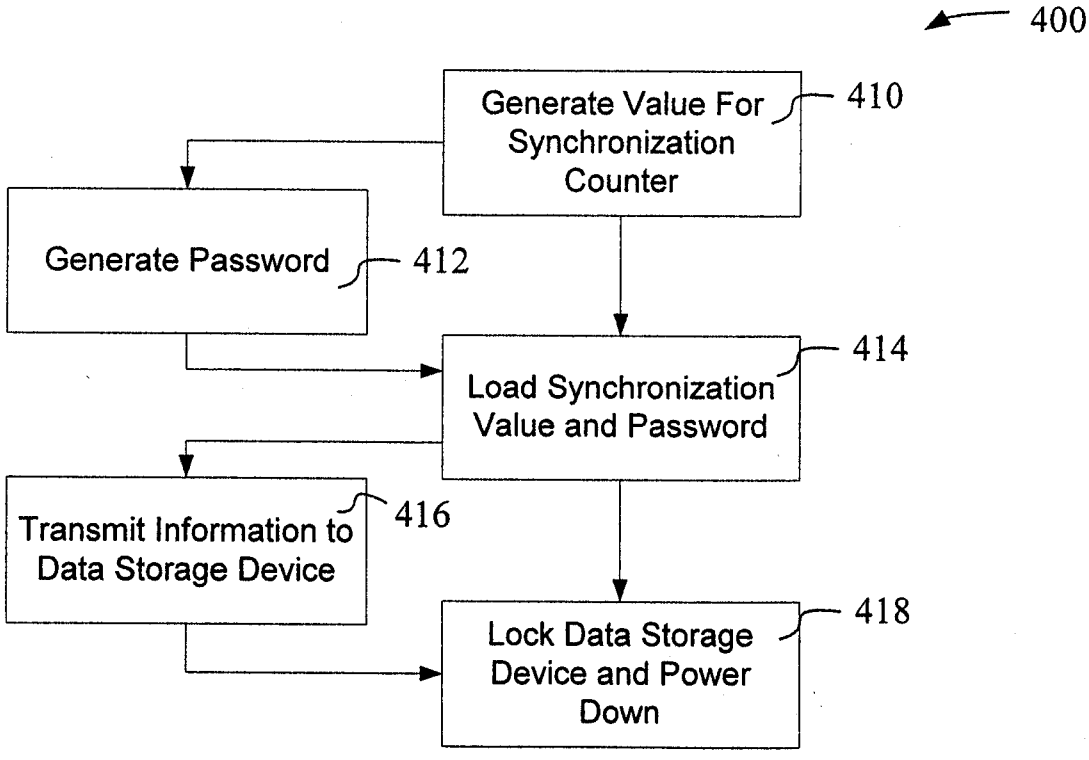

400
Generate Value For Synchronization Counter
410
Generate Password
412
Load Synchronization Value and Password
414
Transmit Information to Data Storage Device
416
Lock Data Storage Device and Power Down
418

FIG. 3

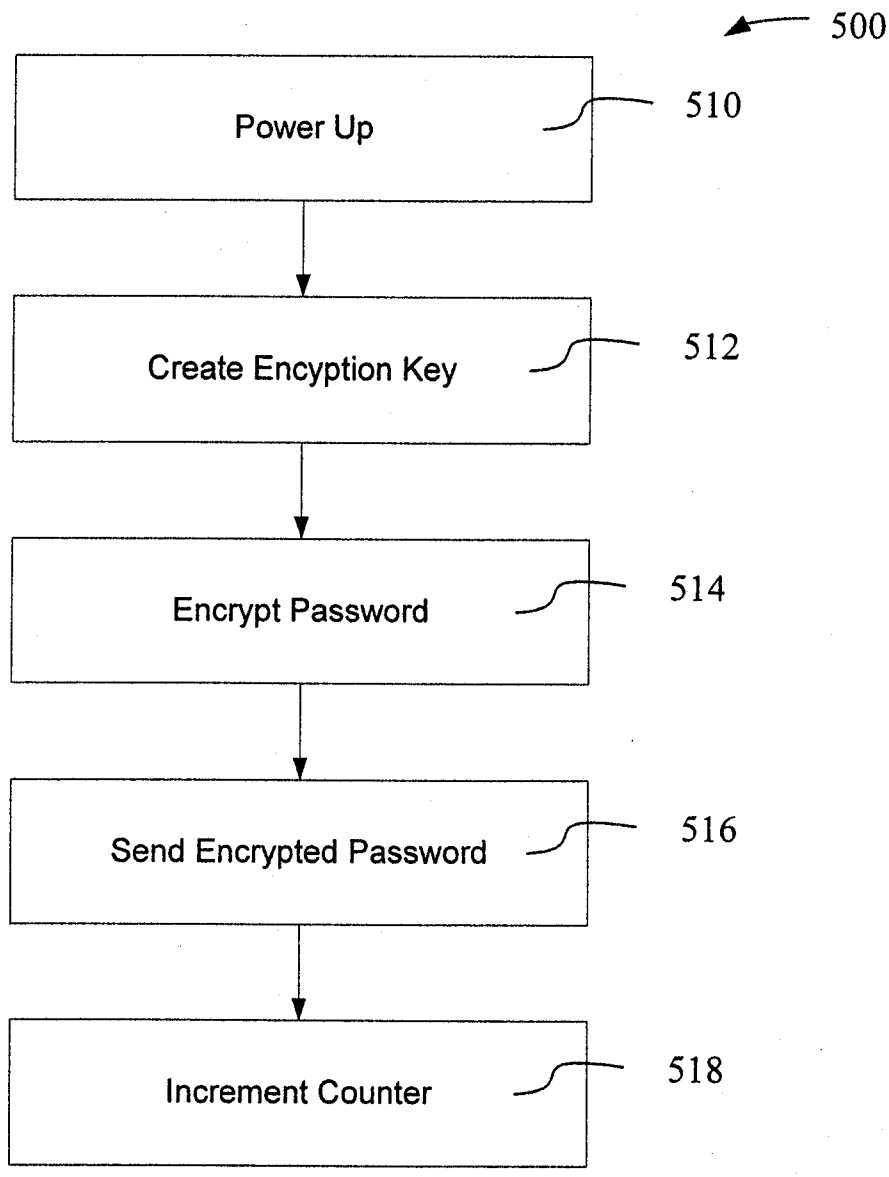

500
Power Up
510
Create Encyption Key
512
Encrypt Password
514
Send Encrypted Password
516
Increment Counter
518

FIG. 4

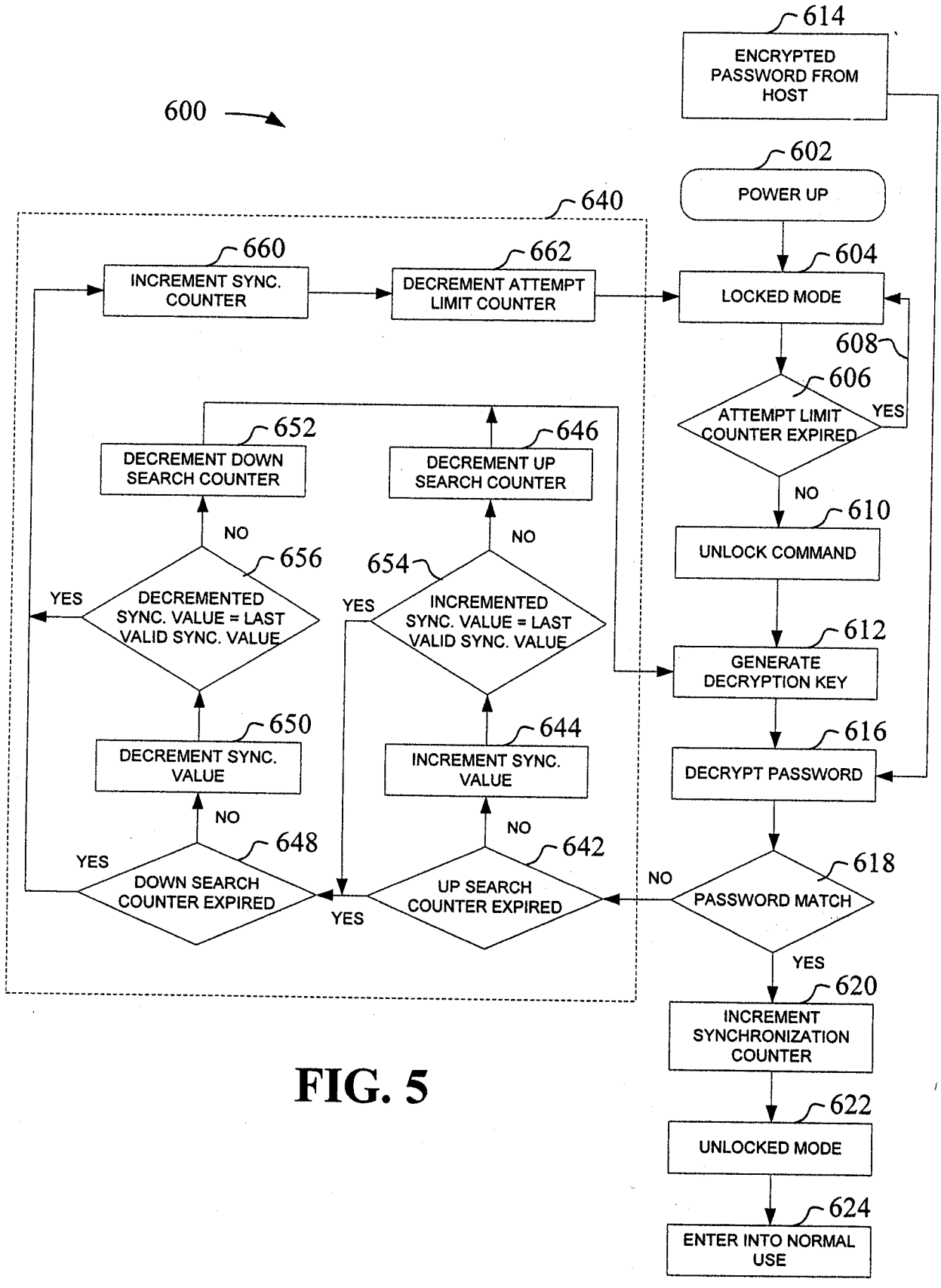

600
614
ENCRYPTED PASSWORD FROM HOST
602
POWER UP
640
660
INCREMENT SYNC. COUNTER
662
DECREMENT ATTEMPT LIMIT COUNTER
604
LOCKED MODE
608
606
ATTEMPT LIMIT COUNTER EXPIRED
YES
NO
652
DECREMENT DOWN SEARCH COUNTER
646
DECREMENT UP SEARCH COUNTER
610
UNLOCK COMMAND
NO
NO
656
654
YES
DECREMENTED SYNC. VALUE = LAST VALID SYNC. VALUE
YES
INCREMENTED SYNC. VALUE = LAST VALID SYNC. VALUE
612
GENERATE DECRYPTION KEY
650
644
DECREMENT SYNC. VALUE
INCREMENT SYNC. VALUE
616
DECRYPT PASSWORD
NO
NO
YES
648
642
618
DOWN SEARCH COUNTER EXPIRED
UP SEARCH COUNTER EXPIRED
NO
PASSWORD MATCH
YES
YES
620
INCREMENT SYNCHRONIZATION COUNTER
622
UNLOCKED MODE
624
ENTER INTO NORMAL USE

FIG. 5