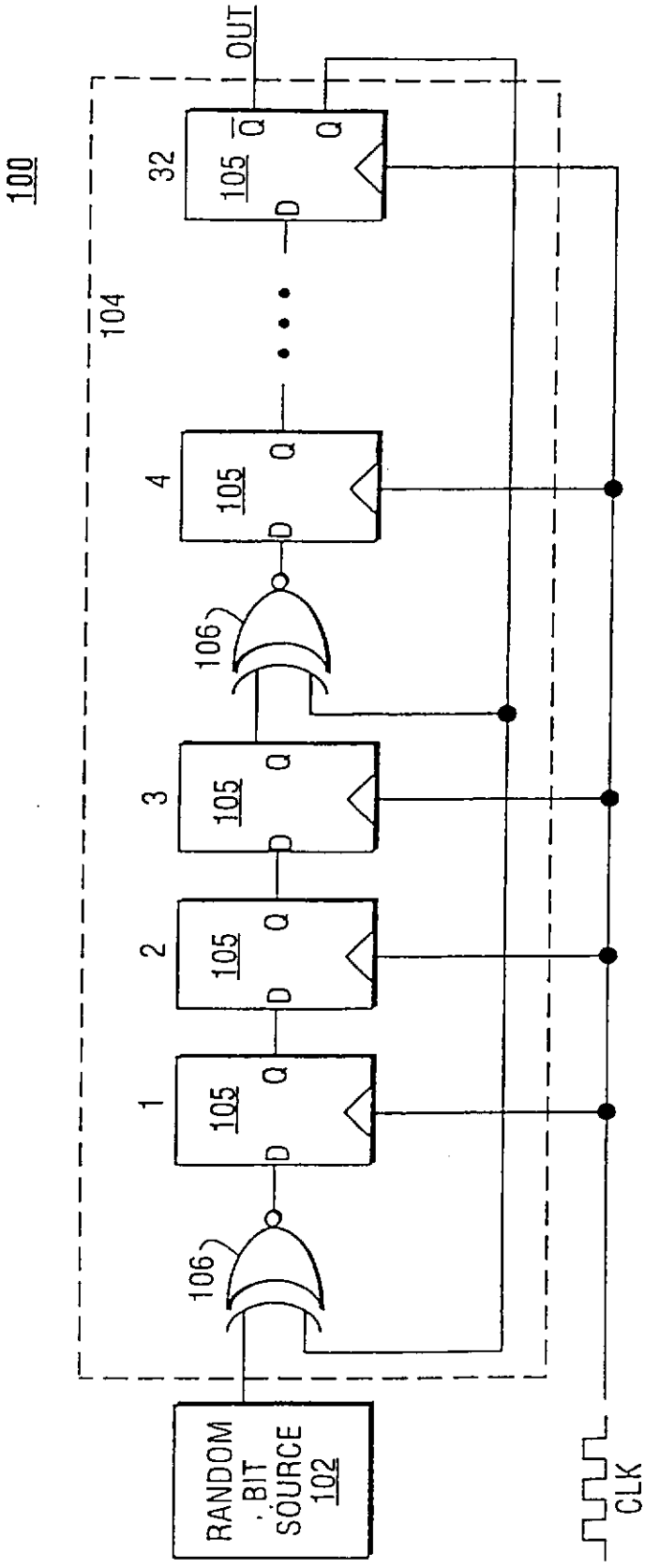


FIG. 1 (PRIOR ART)

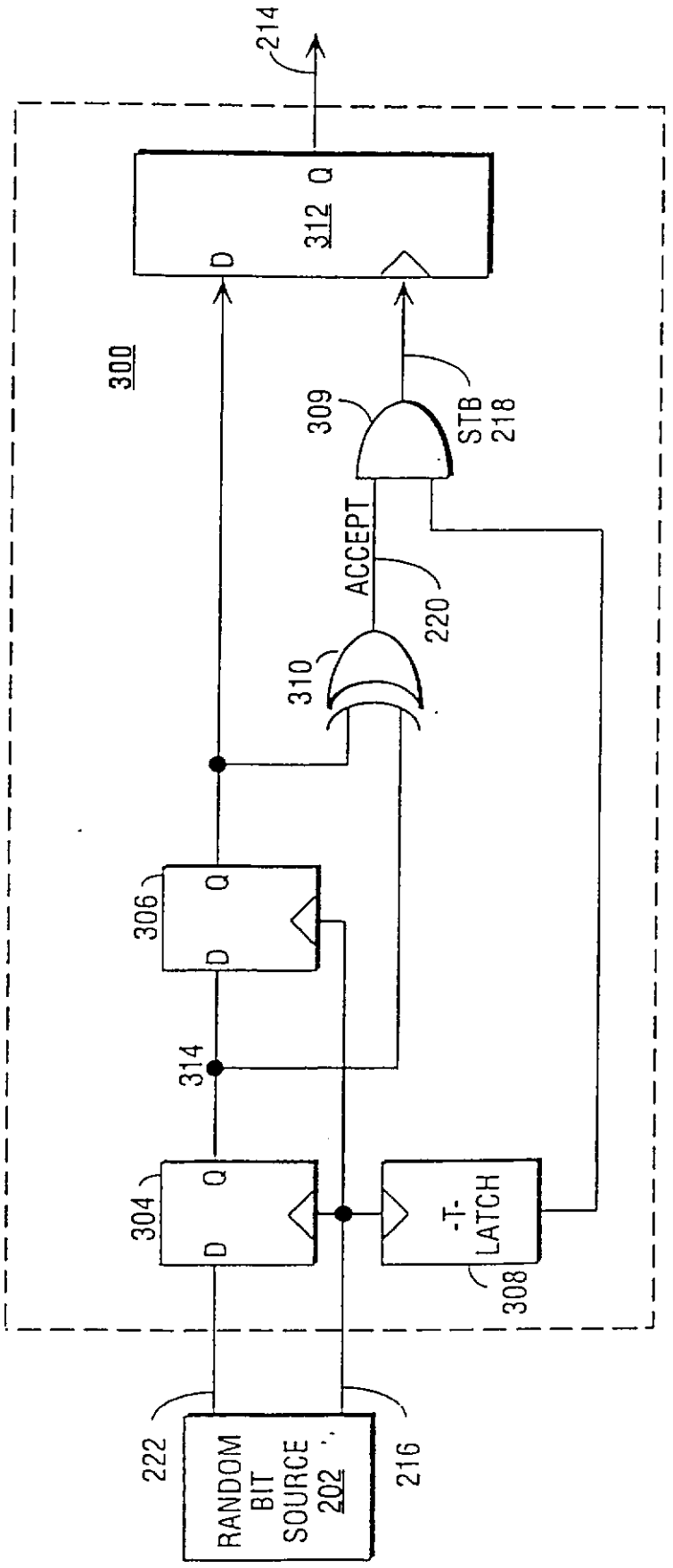

214
312
Q
D
300
309
STB
218
ACCEPT
220
310
306
Q
D
314
304
Q
D
-T-
LATCH
308
222
RANDOM
BIT
SOURCE
202
216

FIG. 3

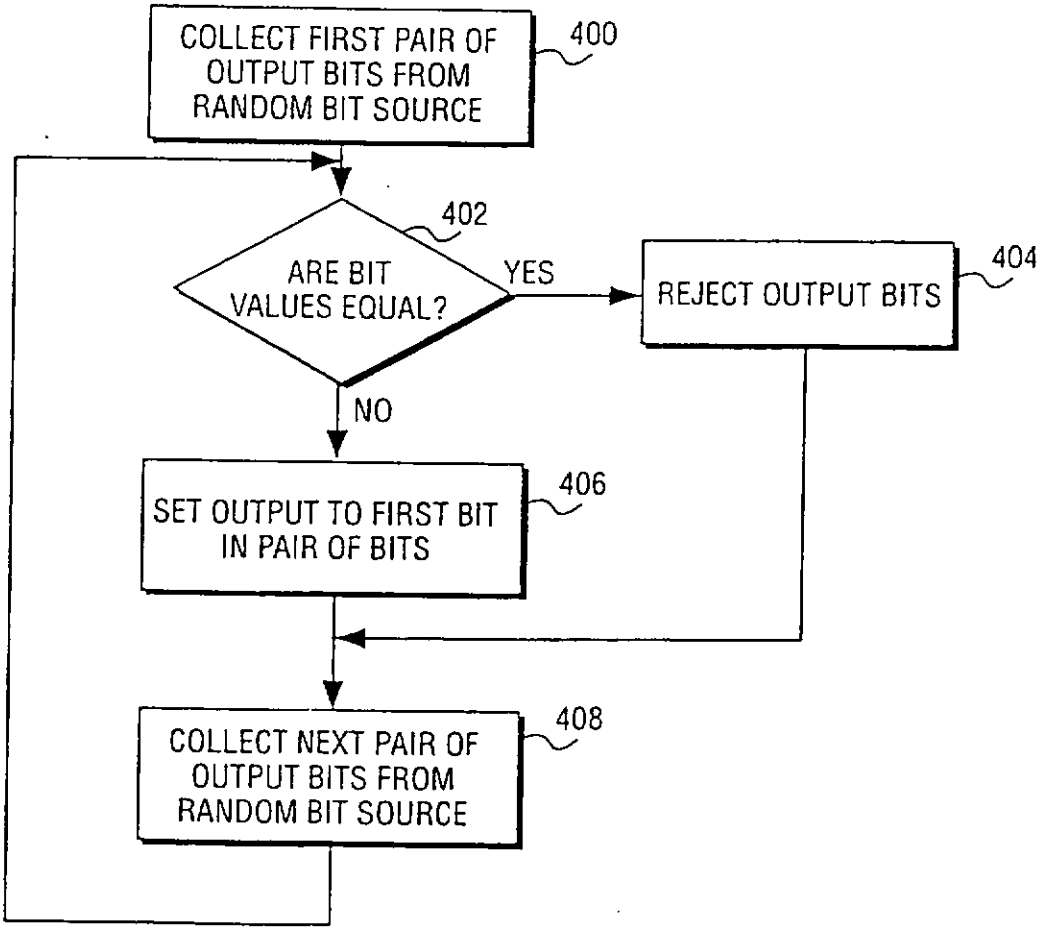

COLLECT FIRST PAIR OF OUTPUT BITS FROM RANDOM BIT SOURCE
400
ARE BIT VALUES EQUAL?
402
YES
REJECT OUTPUT BITS
404
NO
SET OUTPUT TO FIRST BIT IN PAIR OF BITS
406
COLLECT NEXT PAIR OF OUTPUT BITS FROM RANDOM BIT SOURCE
408

FIG. 4

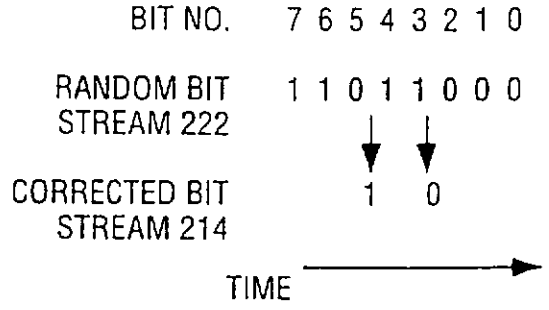


FIG. 5

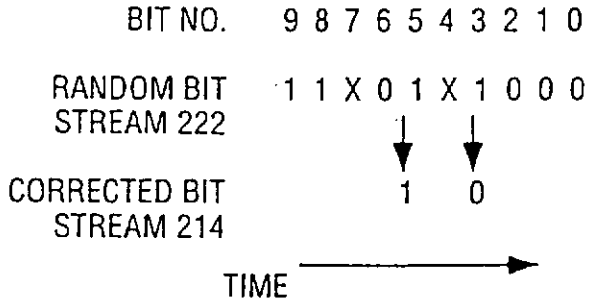


FIG. 8

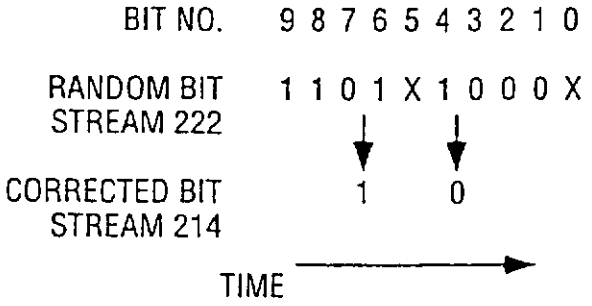


FIG. 11

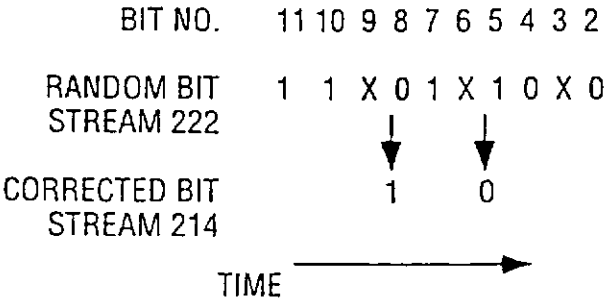


FIG. 14

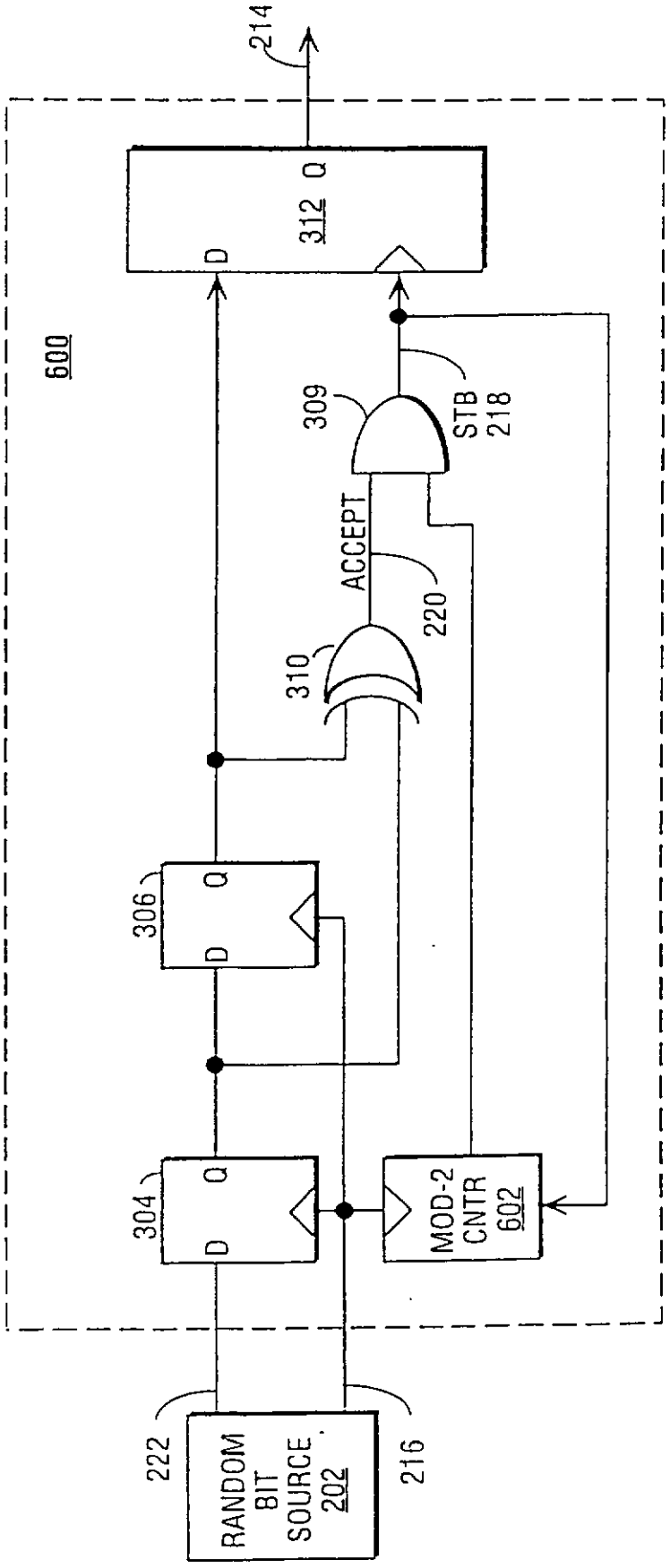

214
600
312
Q
D
309
STB
218
ACCEPT
220
310
306
Q
D
304
Q
D
MOD-2
CNTR
602
222
RANDOM
BIT
SOURCE
202
216

FIG. 6

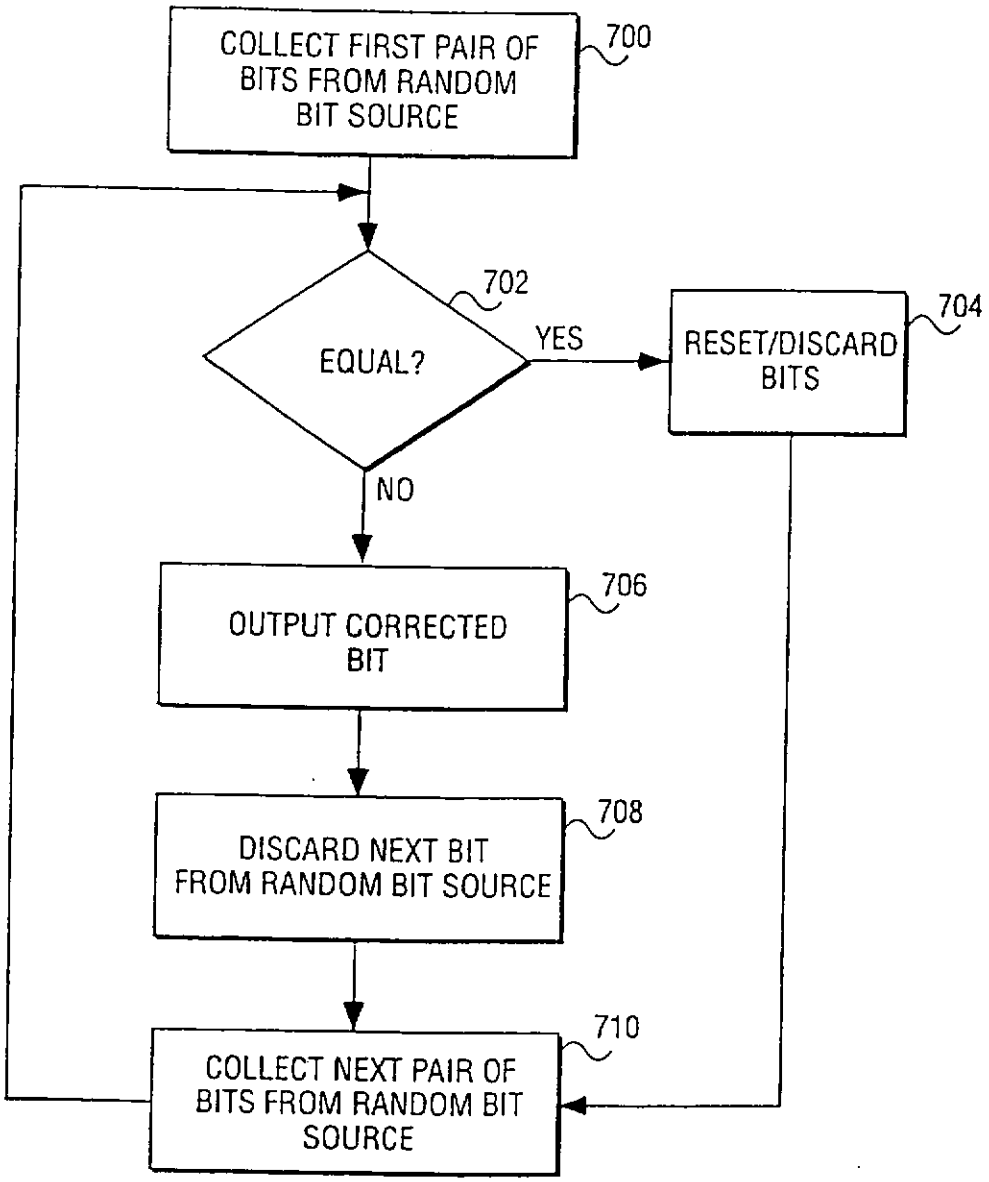

COLLECT FIRST PAIR OF BITS FROM RANDOM BIT SOURCE
700
EQUAL?
702
YES
RESET/DISCARD BITS
704
NO
OUTPUT CORRECTED BIT
706
DISCARD NEXT BIT FROM RANDOM BIT SOURCE
708
COLLECT NEXT PAIR OF BITS FROM RANDOM BIT SOURCE
710

FIG. 7

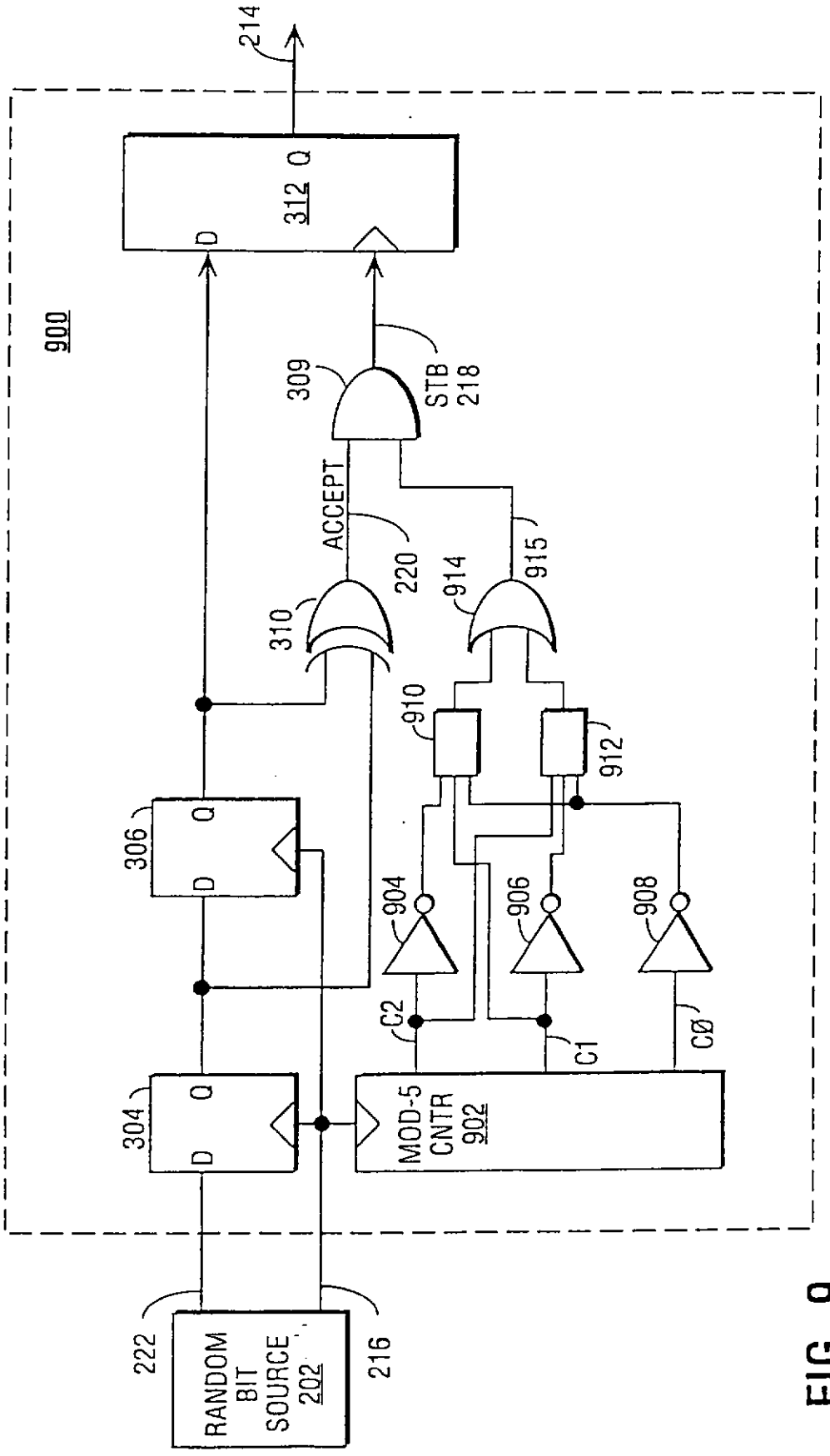

214
900
312 Q
D
309
STB
218
ACCEPT
220
310
914
915
910
912
306
Q
D
904
906
908
C2
C1
C0
304
MOD-5
CNTR
902
222
RANDOM
BIT
SOURCE
202
216

FIG. 9

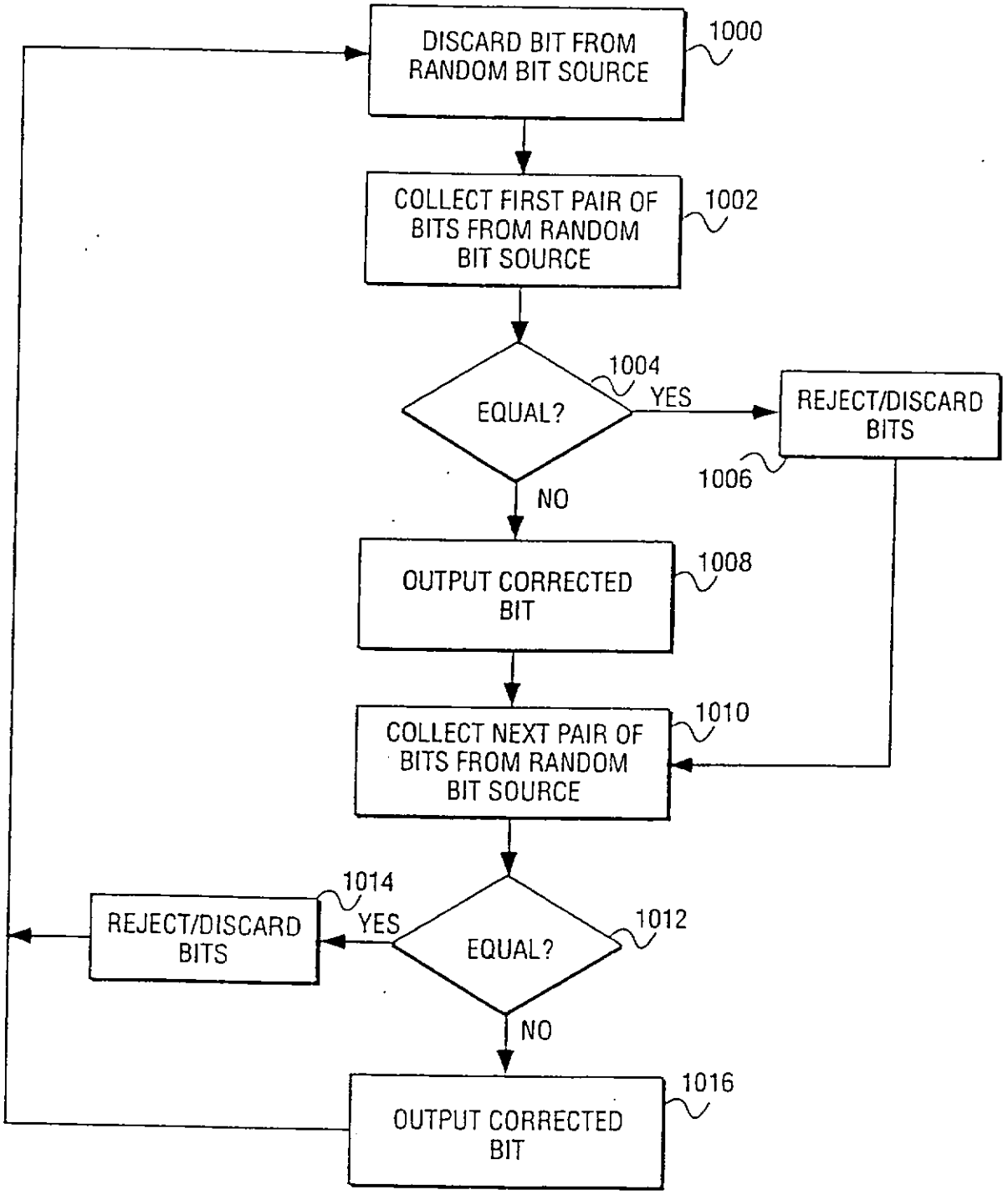

DISCARD BIT FROM RANDOM BIT SOURCE
1000
COLLECT FIRST PAIR OF BITS FROM RANDOM BIT SOURCE
1002
EQUAL?
1004
YES
REJECT/DISCARD BITS
1006
NO
OUTPUT CORRECTED BIT
1008
COLLECT NEXT PAIR OF BITS FROM RANDOM BIT SOURCE
1010
EQUAL?
1012
YES
REJECT/DISCARD BITS
1014
NO
OUTPUT CORRECTED BIT
1016

FIG. 10

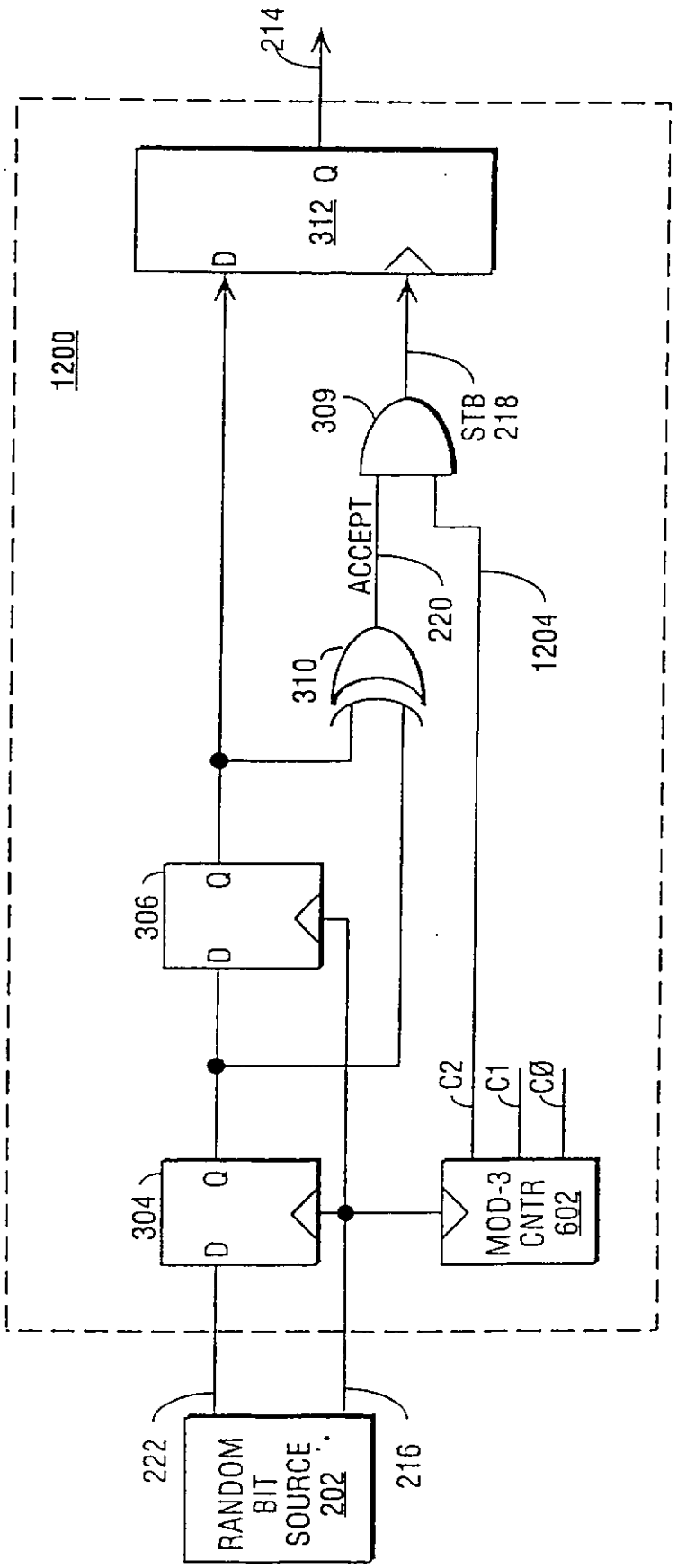

214
312 Q
D
1200
309
STB
218
ACCEPT
220
1204
310
306
Q
D
304
Q
D
C2
C1
CØ
MOD-3
CNTR
602
222
RANDOM
BIT
SOURCE
202
216

FIG. 12

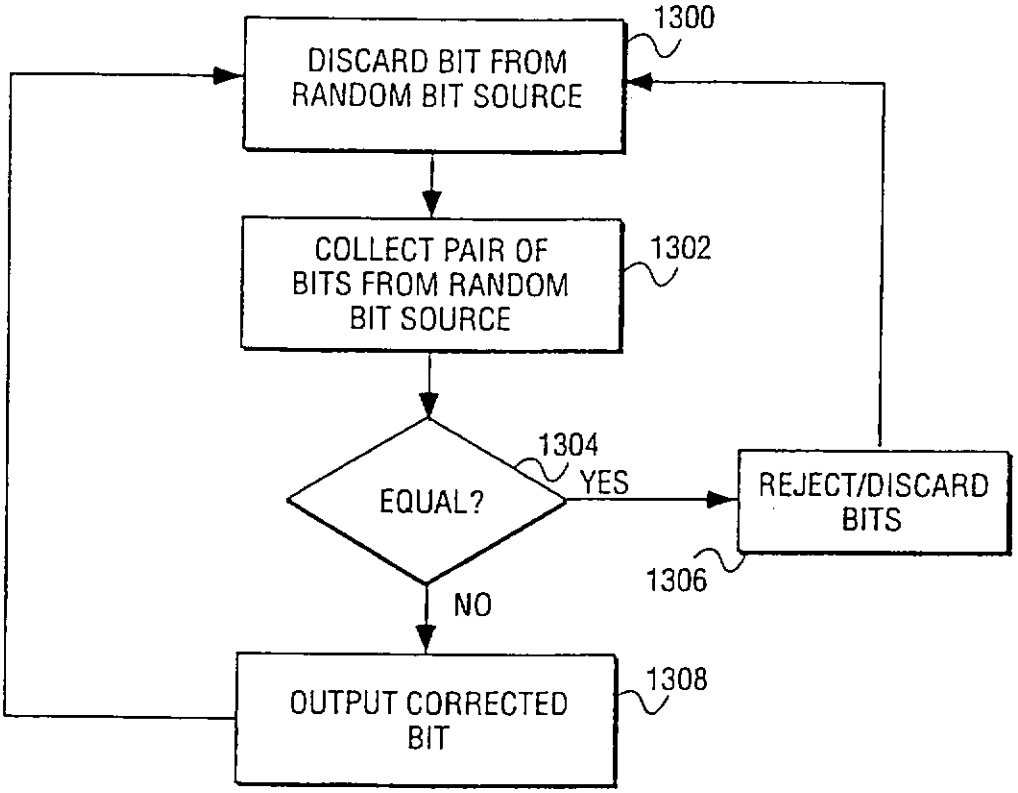

DISCARD BIT FROM RANDOM BIT SOURCE
1300
COLLECT PAIR OF BITS FROM RANDOM BIT SOURCE
1302
EQUAL?
1304
YES
REJECT/DISCARD BITS
1306
NO
OUTPUT CORRECTED BIT
1308

FIG. 13

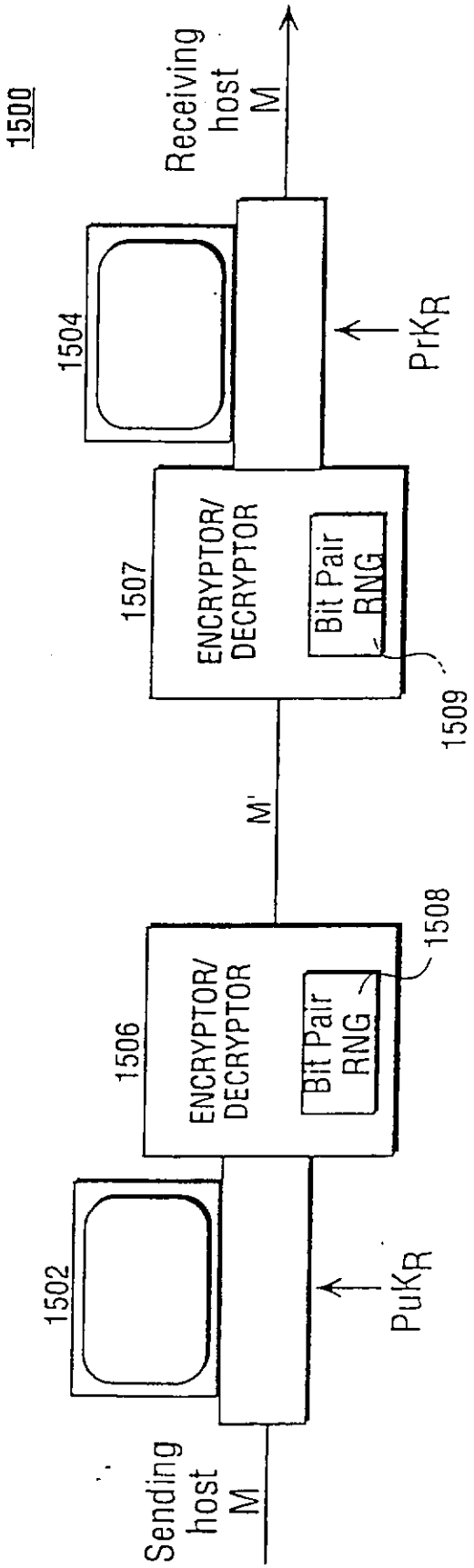

1500
Receiving host M
1504
PrKR
1507
ENCRYPTOR/ DECRYPTOR
Bit Pair RNG
1509
M'
1506
ENCRYPTOR/ DECRYPTOR
Bit Pair RNG
1508
1502
PuKR
Sending host M

FIG. 15