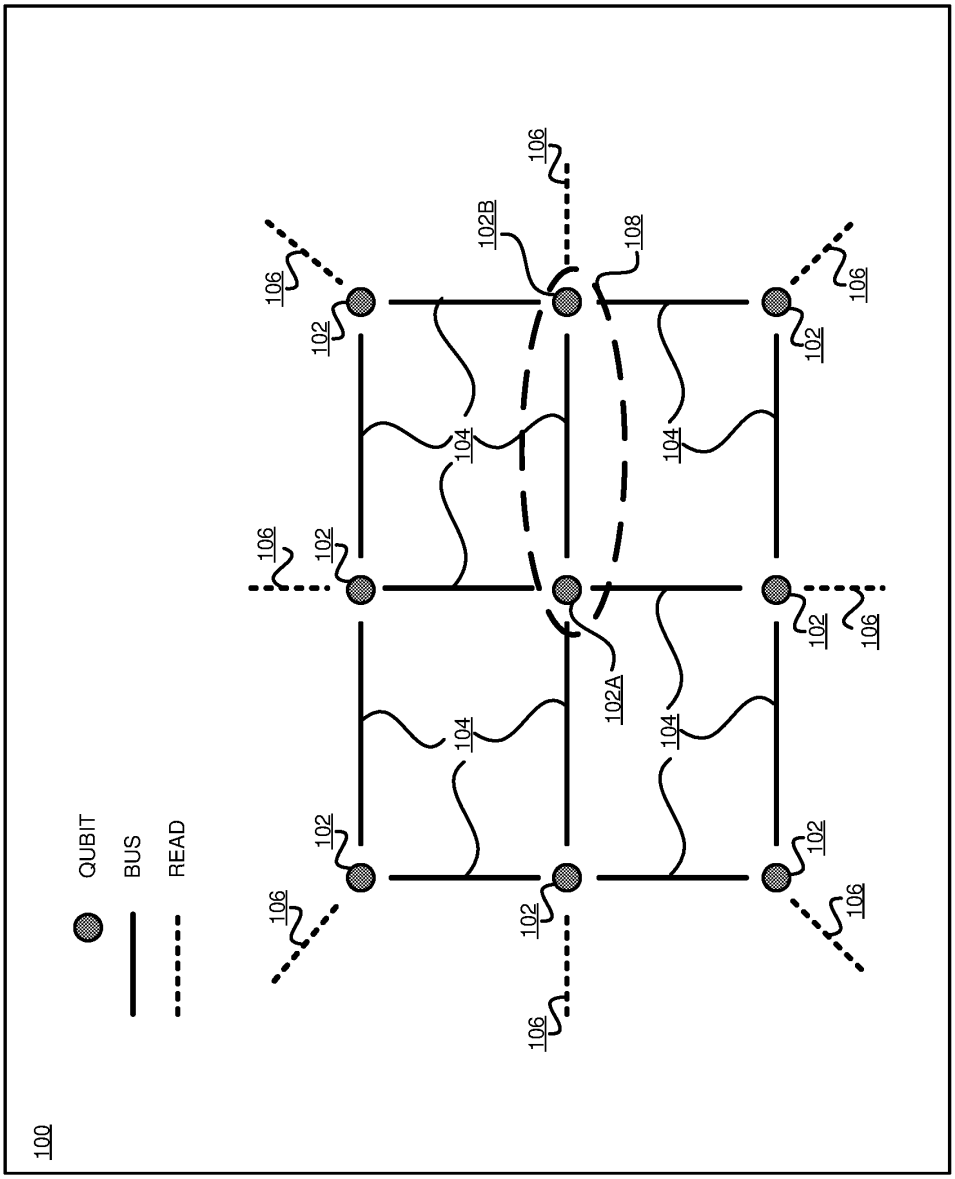
FIGURE 1



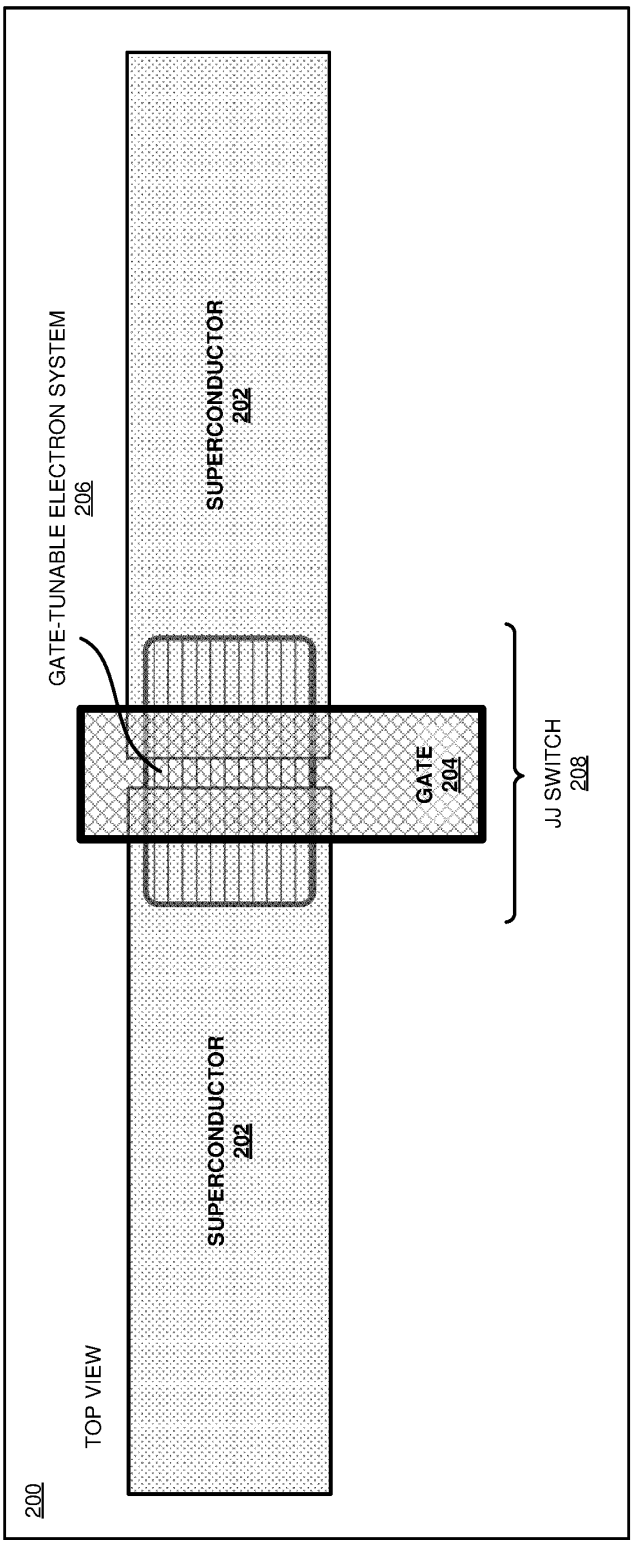
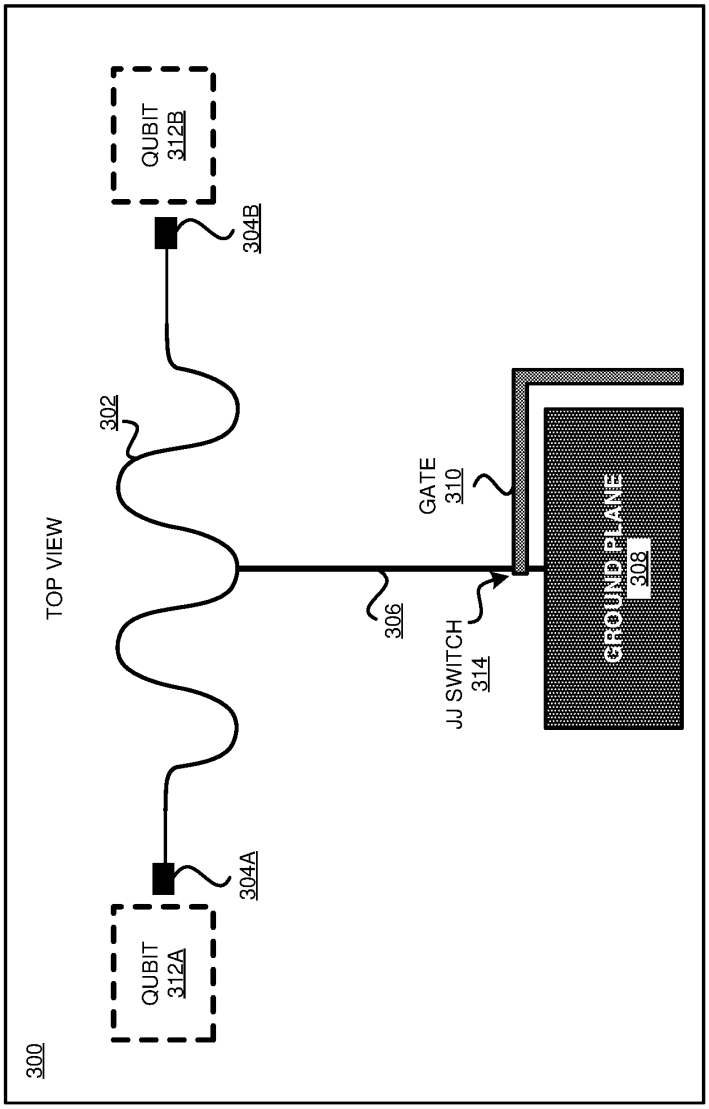

200
TOP VIEW
SUPERCONDUCTOR
202
SUPERCONDUCTOR
202
GATE-TUNABLE ELECTRON SYSTEM
206
GATE
204
JJ SWITCH
208

FIGURE 2

FIGURE 3


300
TOP VIEW
QUBIT 312A
QUBIT 312B
304A
304B
302
306
GATE 310
JJ SWITCH 314
GROUND PLANE 308

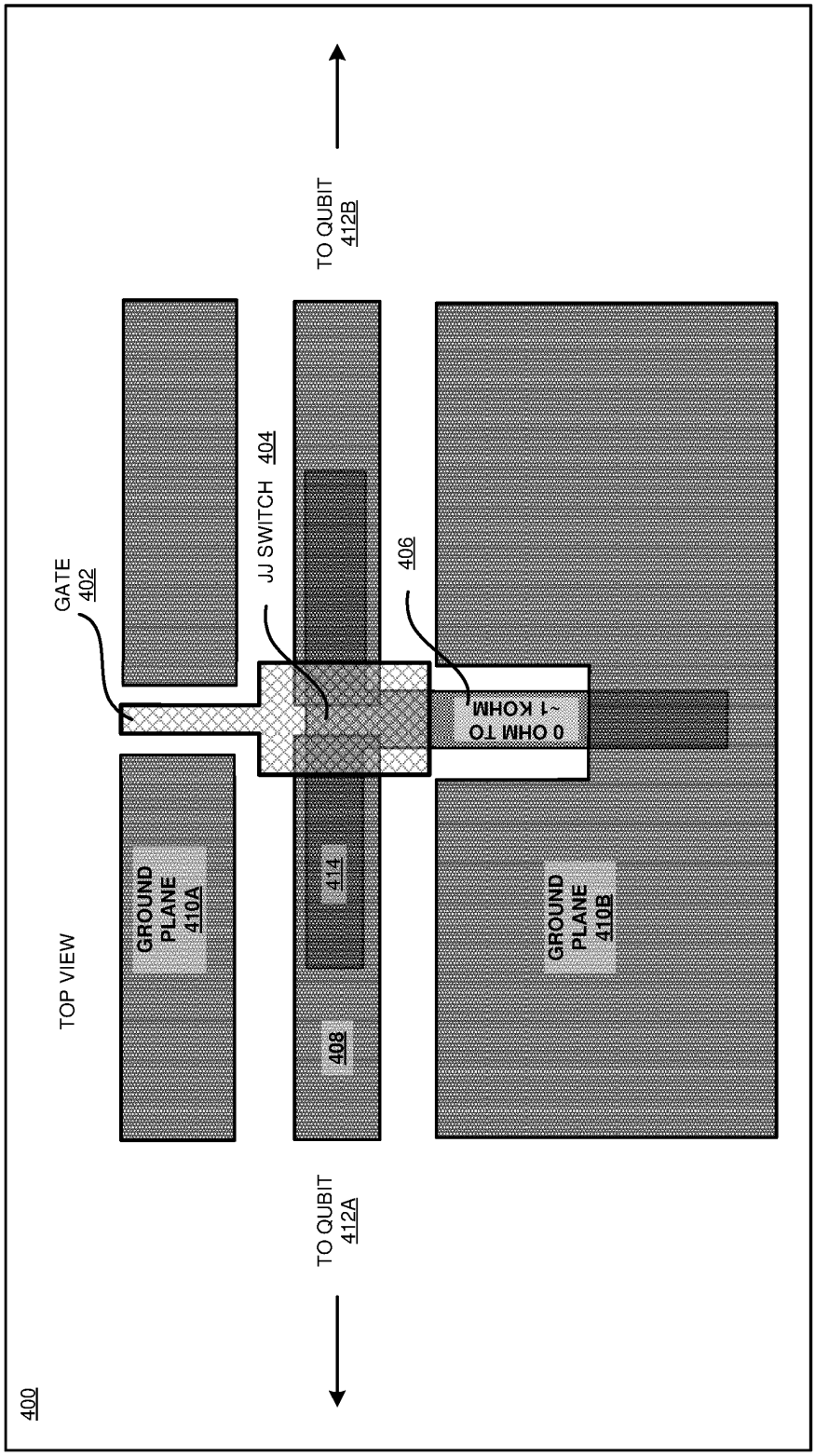
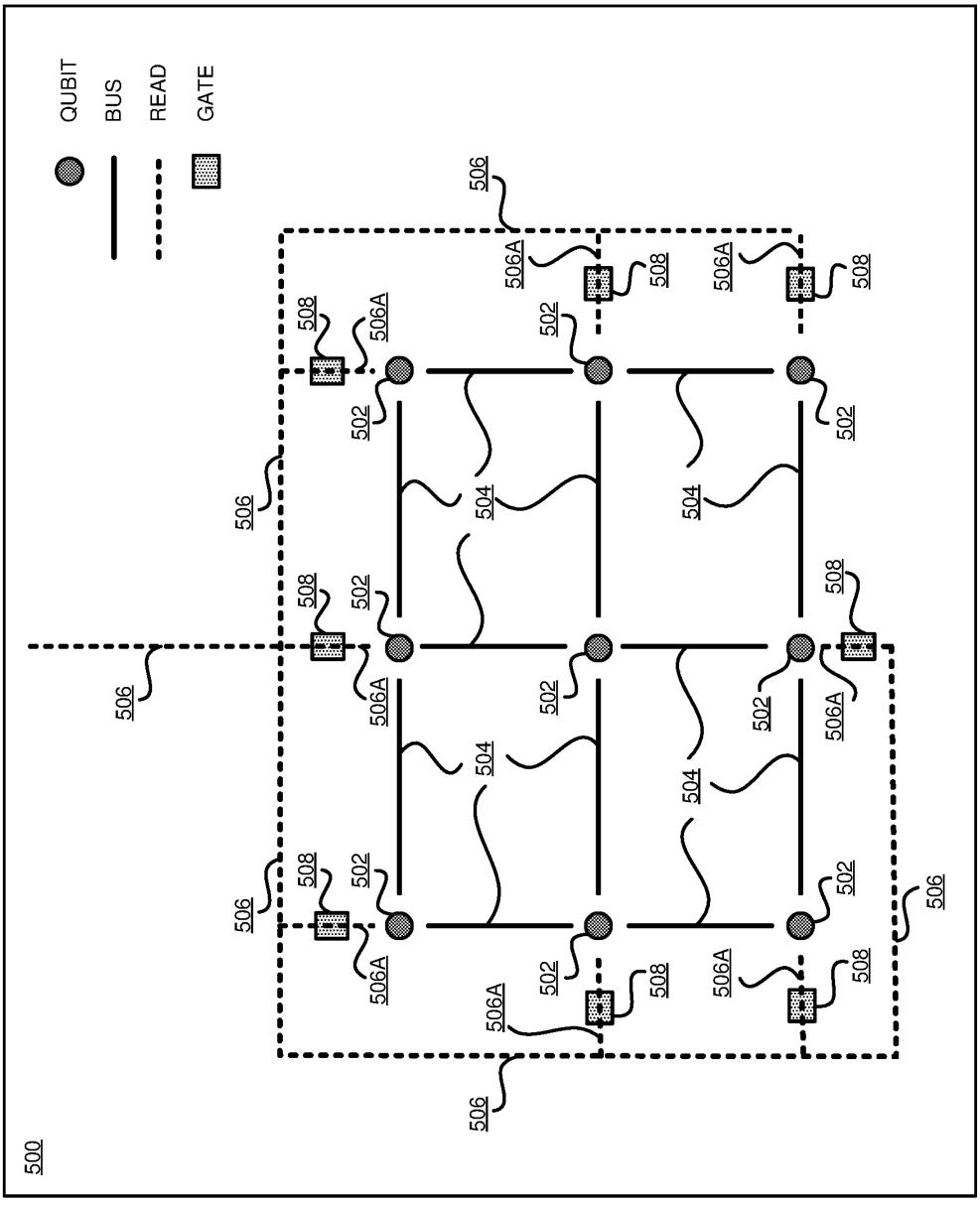

400
TOP VIEW
GROUND PLANE 410A
GROUND PLANE 410B
GATE 402
JJ SWITCH 404
406
0 OHM TO ~1 KOHM
414
408
TO QUBIT 412A
TO QUBIT 412B

FIGURE 4

FIGURE 5



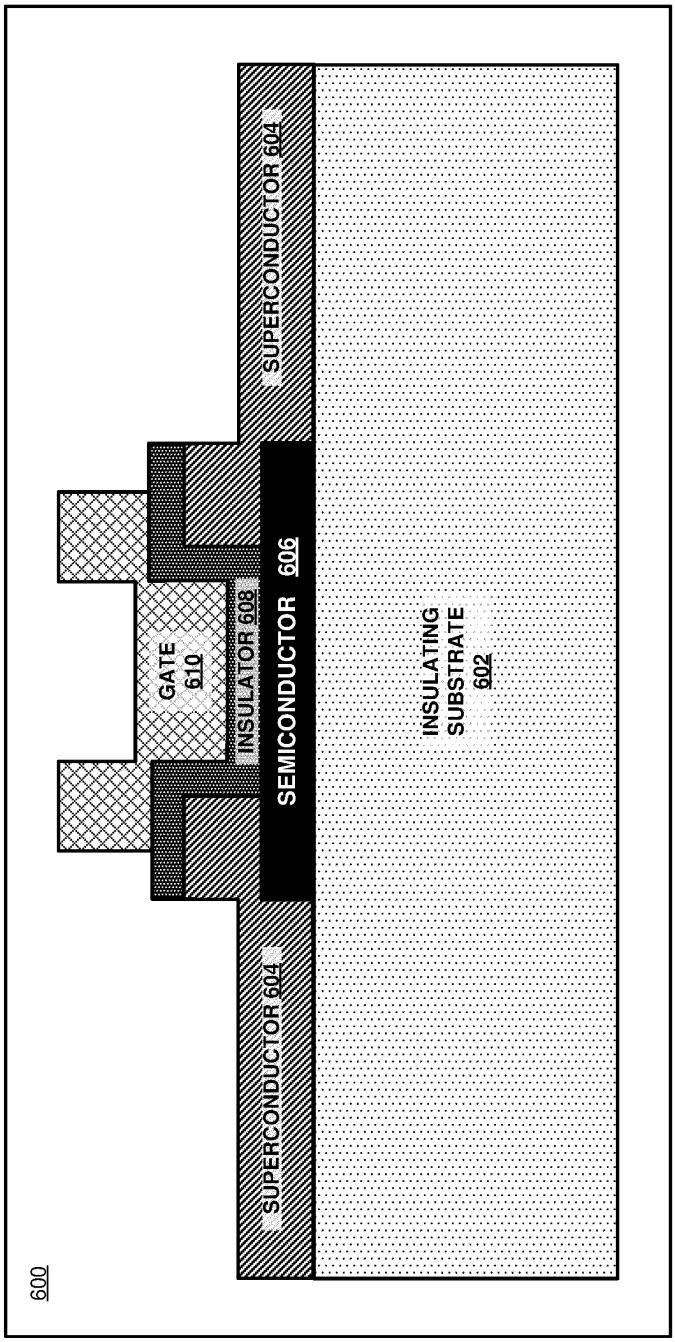

600
SUPERCONDUCTOR 604
SEMICONDUCTOR 606
INSULATOR 608
GATE 610
INSULATING SUBSTRATE 602
SUPERCONDUCTOR 604

FIGURE 6

FIGURE 7

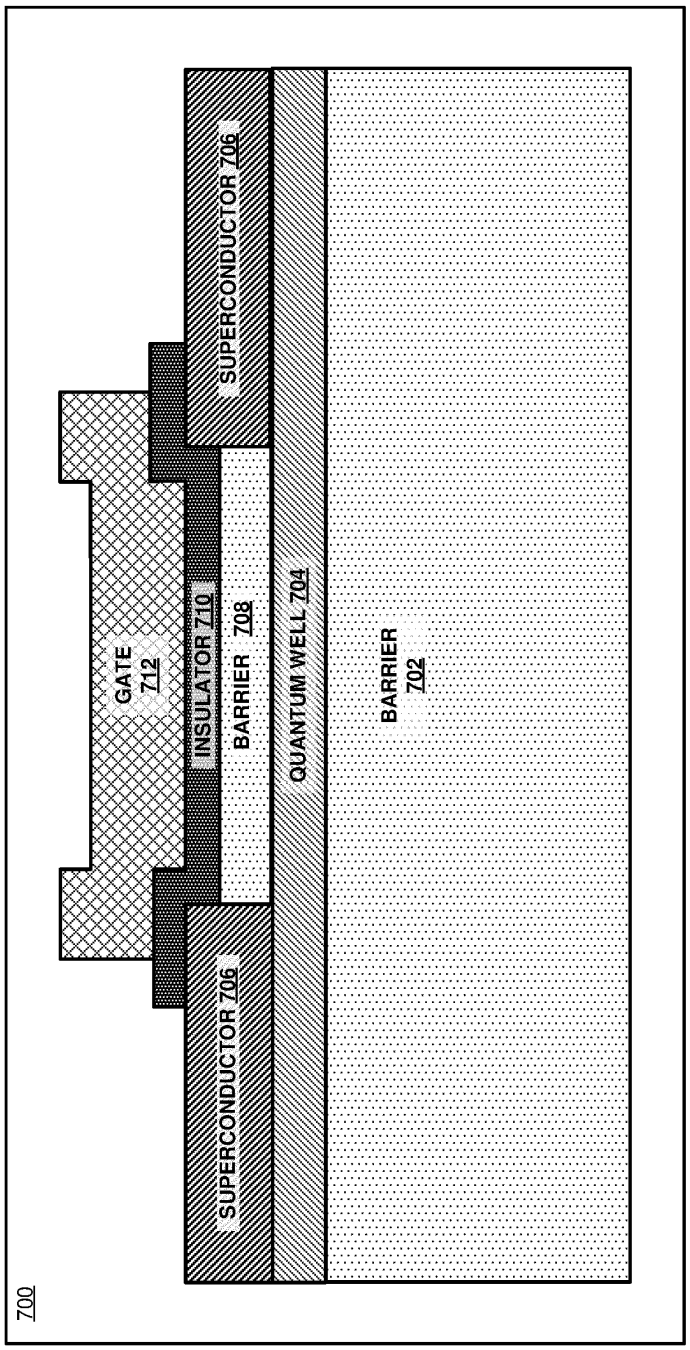

700
SUPERCONDUCTOR 706
GATE 712
INSULATOR 710
BARRIER 708
QUANTUM WELL 704
BARRIER 702
SUPERCONDUCTOR 706

FIGURE 8

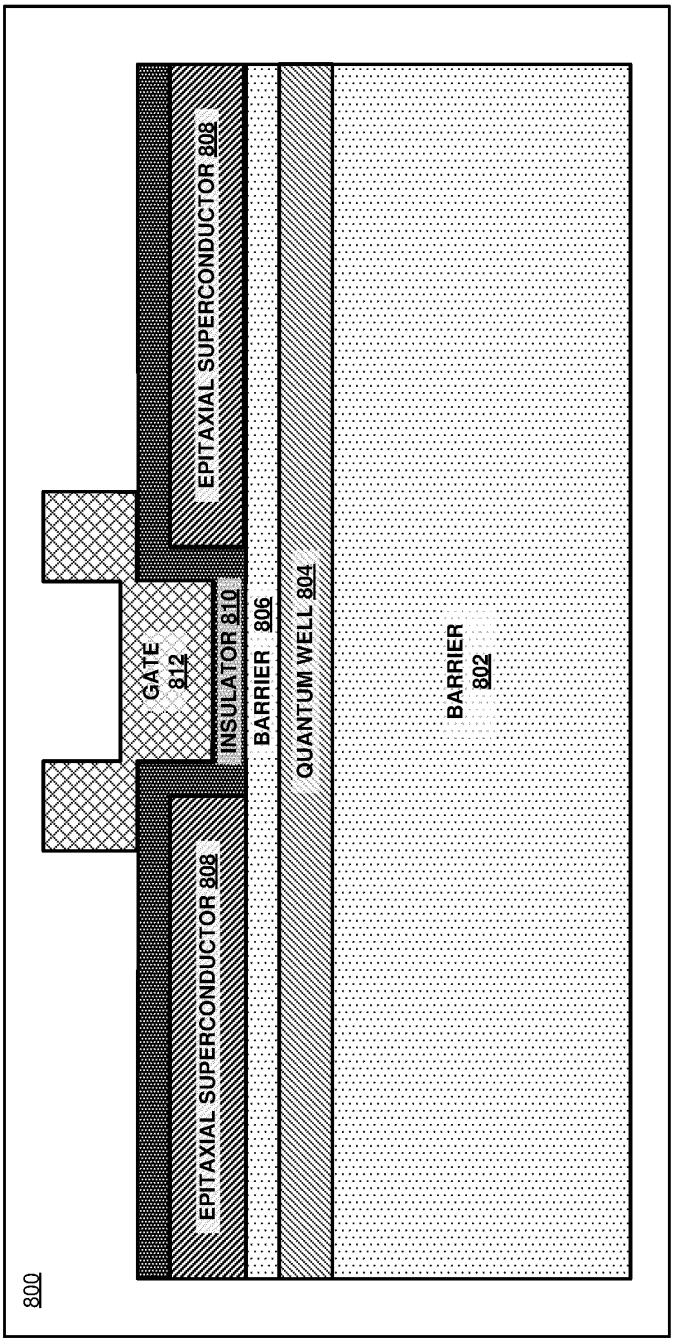
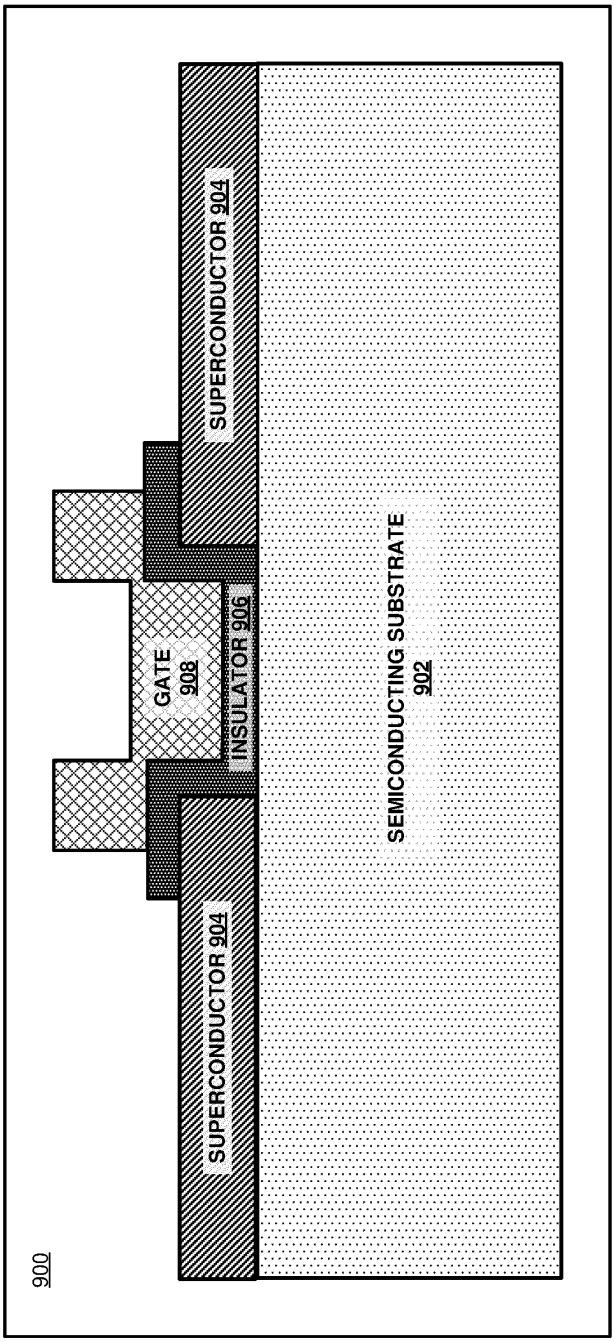

800
EPITAXIAL SUPERCONDUCTOR 808
EPITAXIAL SUPERCONDUCTOR 808
GATE 812
INSULATOR 810
BARRIER 806
QUANTUM WELL 804
BARRIER 802

FIGURE 9


900
SUPERCONDUCTOR 904
SUPERCONDUCTOR 904
GATE 908
INSULATOR 906
SEMICONDUCTING SUBSTRATE 902

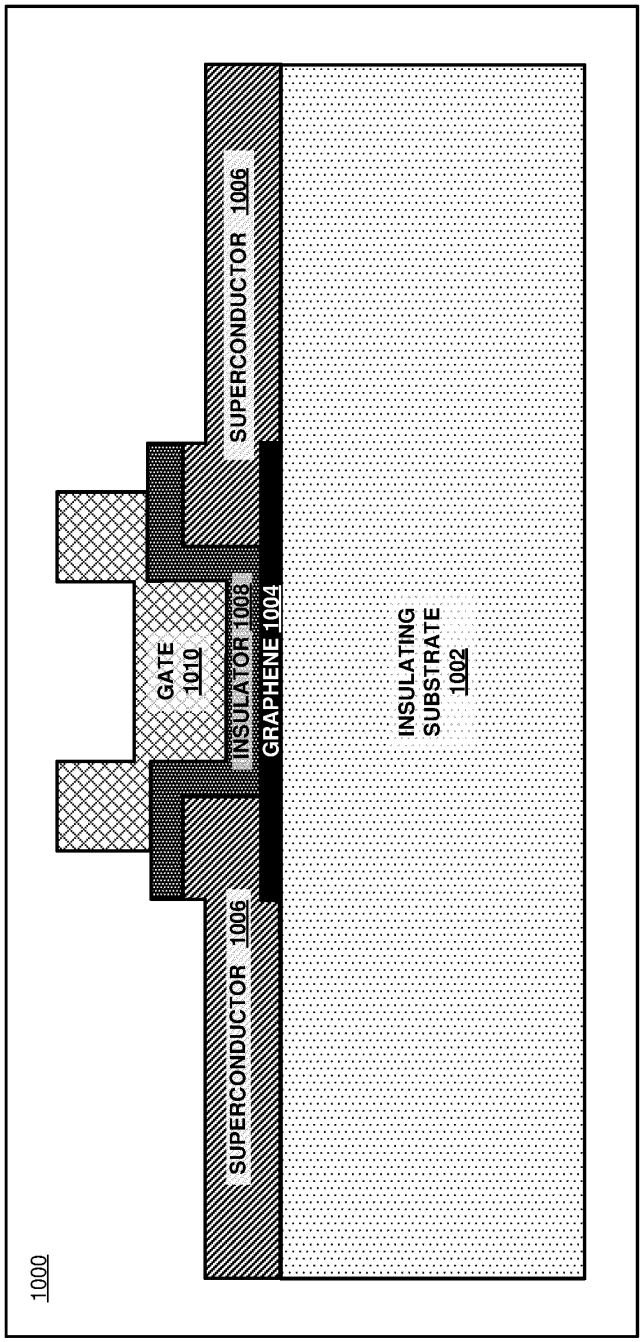

1000
SUPERCONDUCTOR 1006
GATE 1010
INSULATOR 1008
GRAPHENE 1004
SUPERCONDUCTOR 1006
INSULATING SUBSTRATE 1002

FIGURE 10

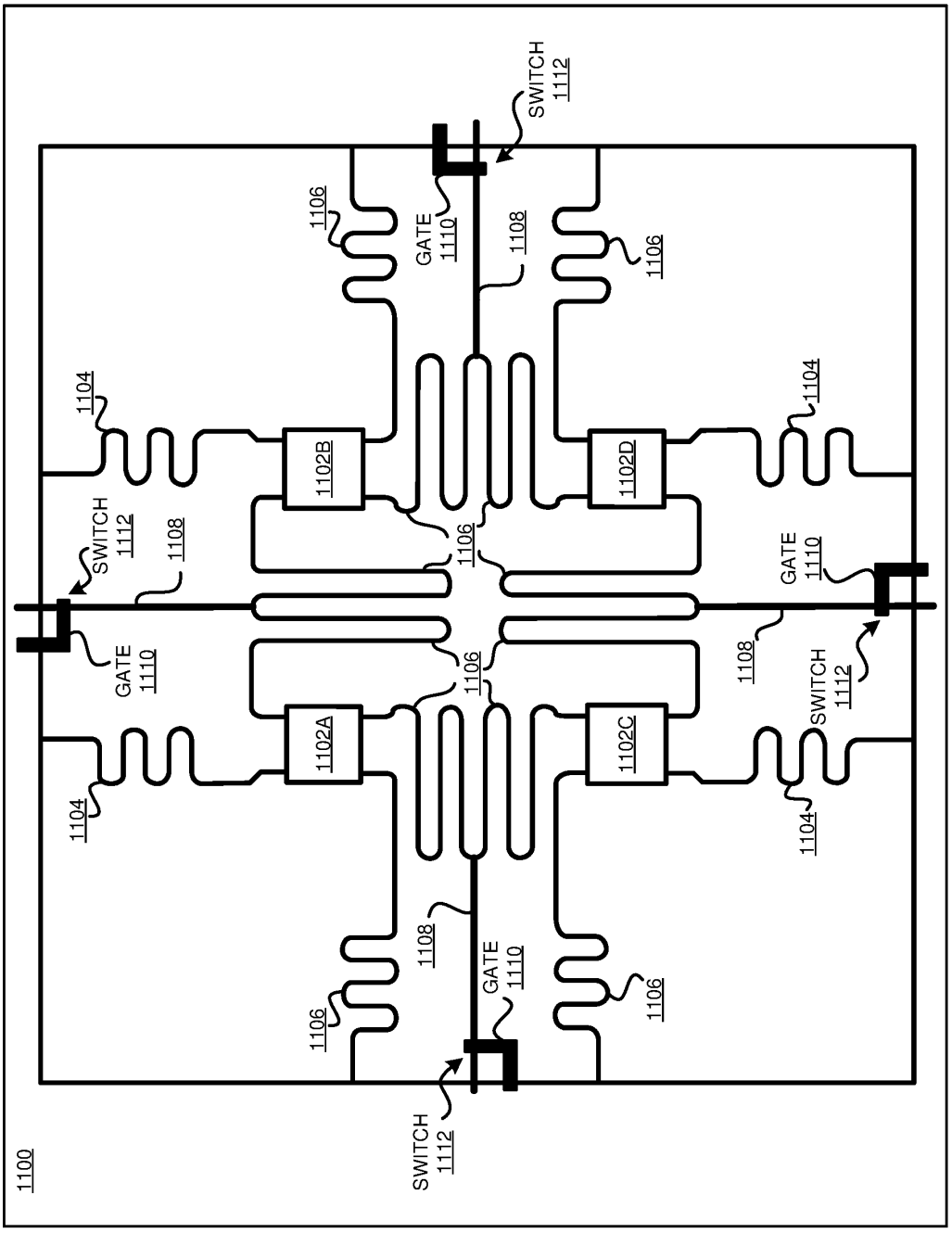

1100
SWITCH 1112
GATE 1110
1102A
1102B
1102C
1102D
1104
1106
1108

FIGURE 11