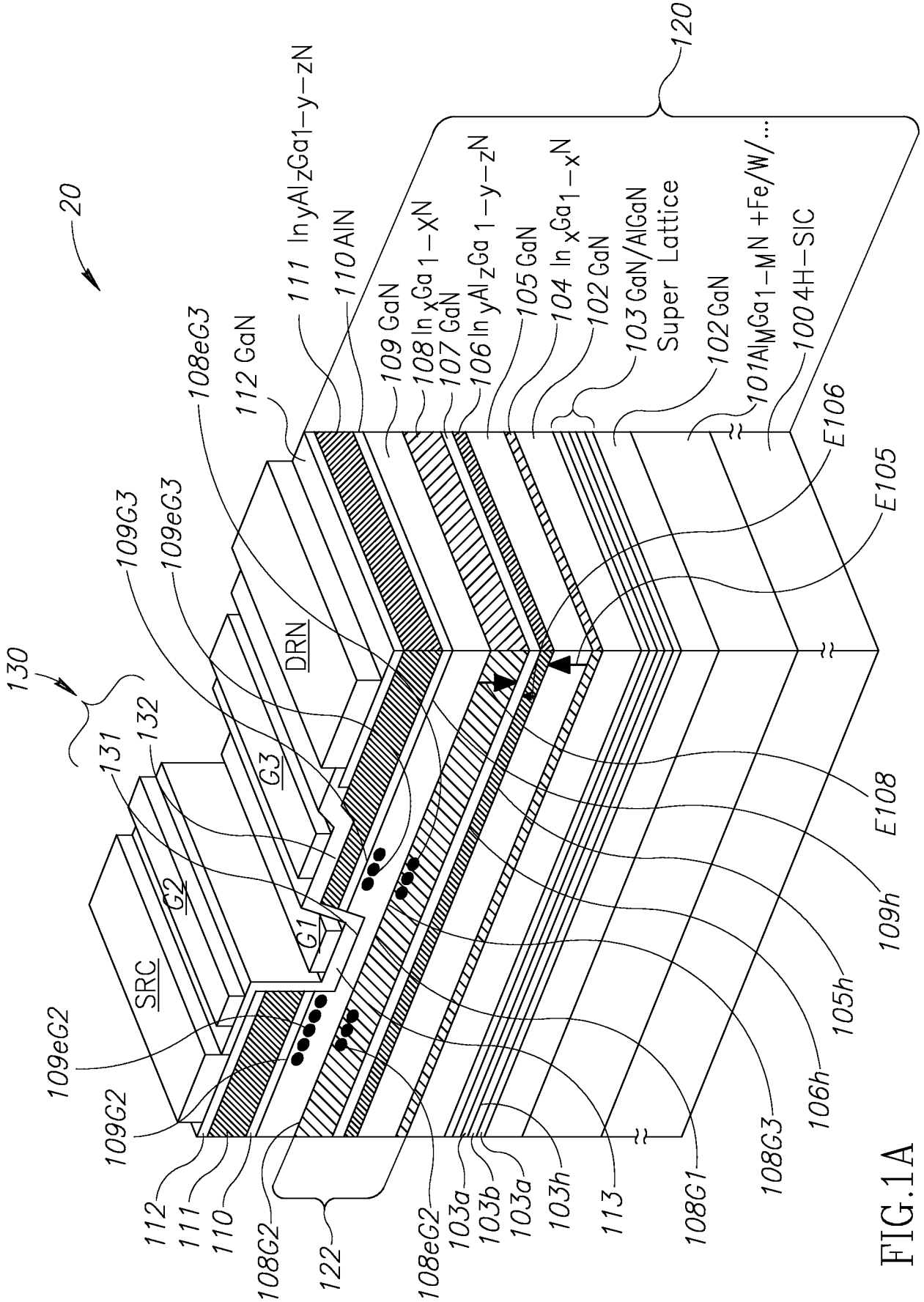

20
130
131
132
SRC
G2
G1
G3
DRN
109eG2
109G2
112
111
110
108G2
122
108eG2
103a
103b
103a
103h
113
108G1
108G3
106h
105h
109h
E108
E105
E106
109eG3
109G3
108eG3
112 GaN
111 InyAlzGa1−y−zN
110 AlN
109 GaN
108 InxGa1−xN
107 GaN
106 InyAlzGa1−y−zN
105 GaN
104 InxGa1−xN
102 GaN
103 GaN/AlGaN Super Lattice
102 GaN
101 AlMGa1−MN +Fe/W/...
100 4H−SiC
120

FIG.1A

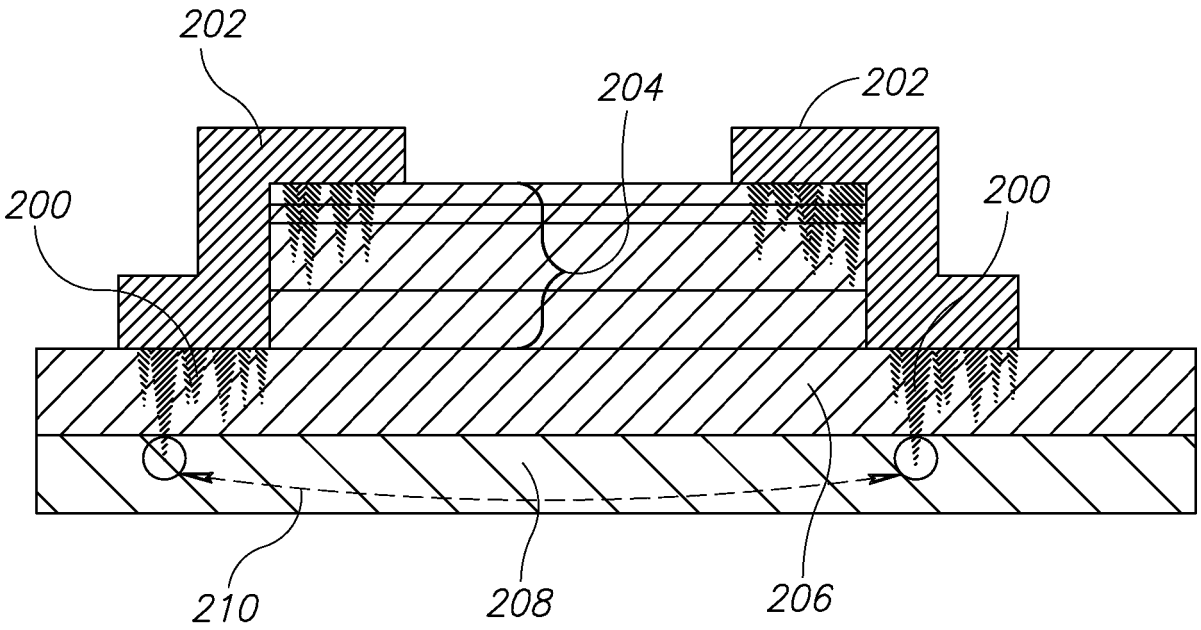


FIG.1B

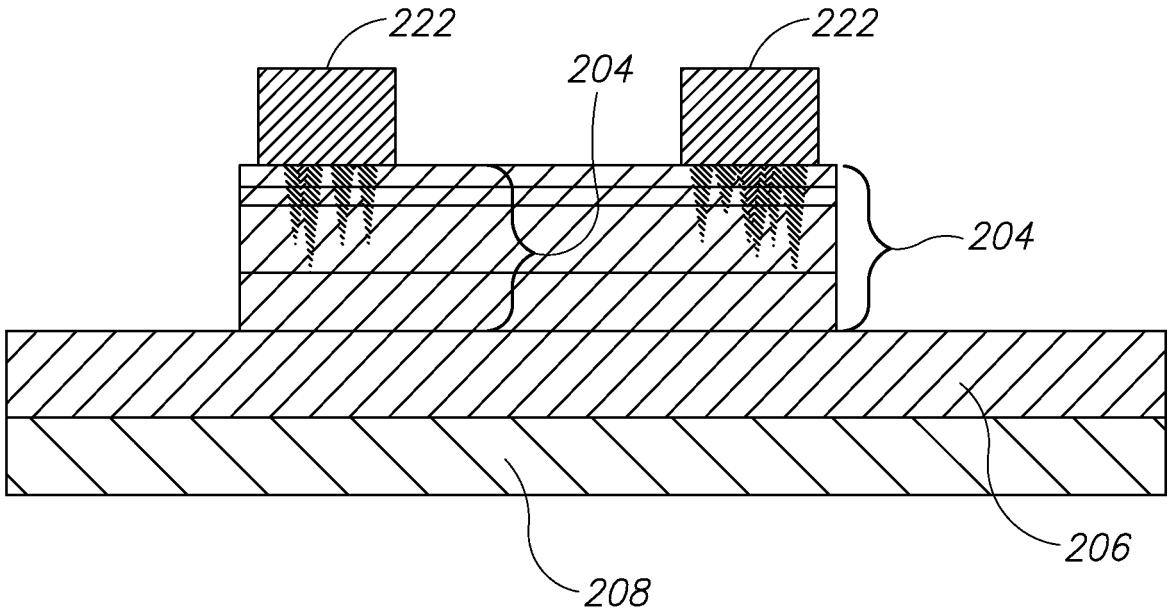


FIG.1C

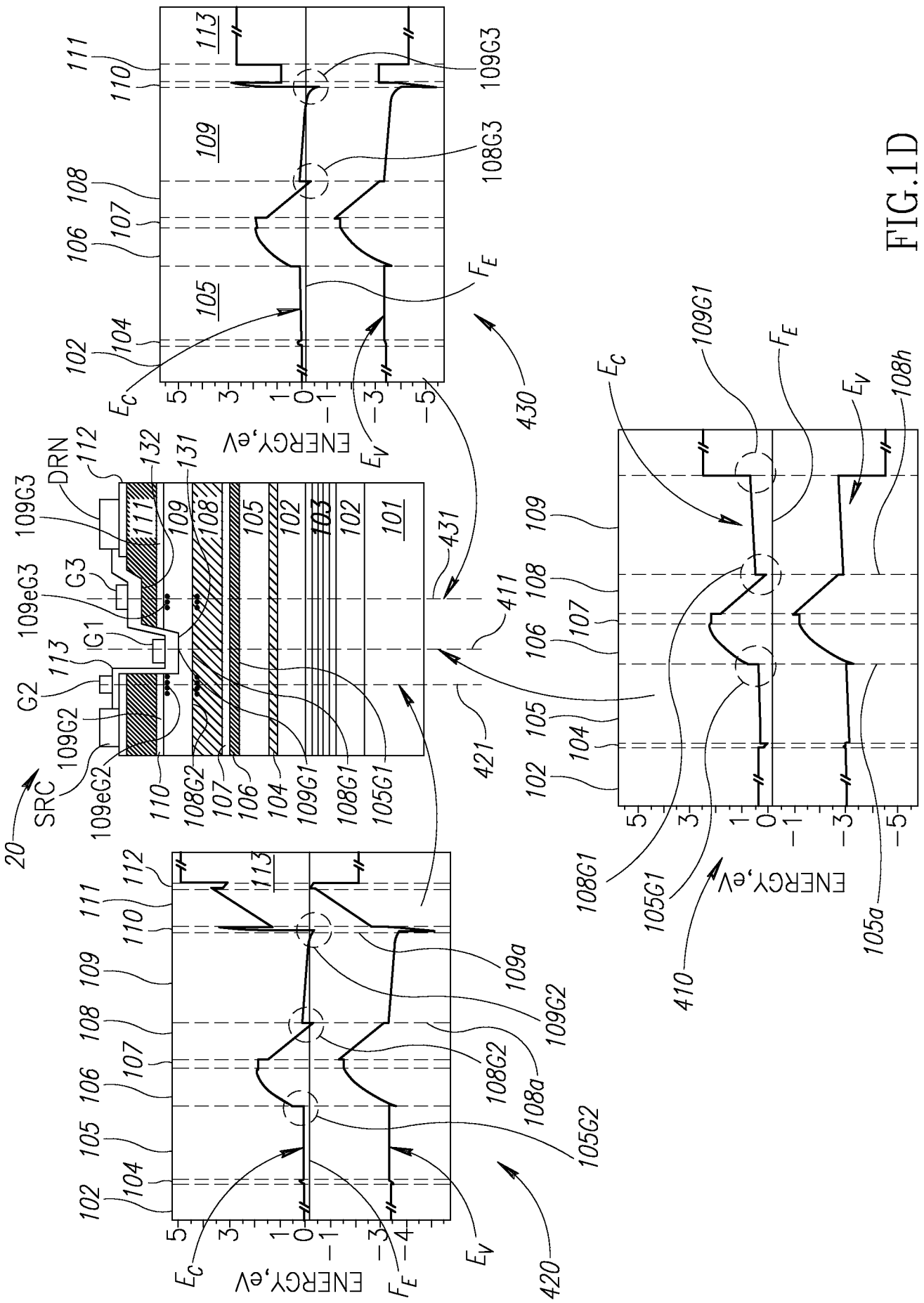

20
SRC
DRN
G1
G2
G3
109G1
109G2
109G3
109eG2
109eG3
108G1
108G2
108G3
105G1
105G2
105a
108h
108a
109a
410
411
420
421
430
431
E_C
E_V
F_E
ENERGY,eV

FIG.1D

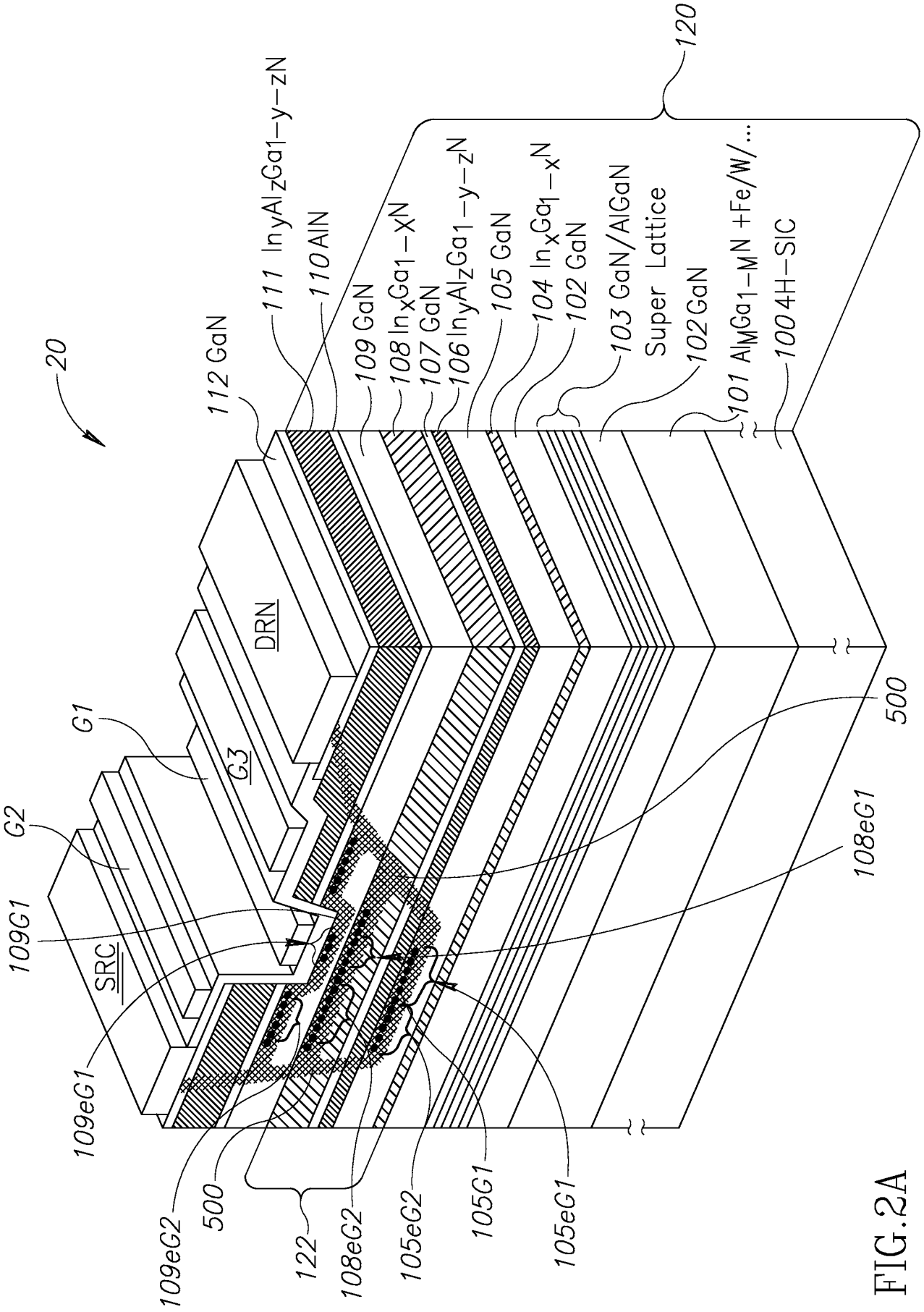

20
120
112 GaN
111 InyAlzGa1−y−zN
110 AlN
109 GaN
108 InxGa1−xN
107 GaN
106 InyAlzGa1−y−zN
105 GaN
104 InxGa1−xN
102 GaN
103 GaN/AlGaN
Super Lattice
102 GaN
101 AlMGa1−MN +Fe/W/...
100 4H−SiC
DRN
G3
G1
G2
SRC
109G1
109eG1
109eG2
500
122
108eG2
105eG2
105G1
105eG1
108eG1
500

FIG.2A

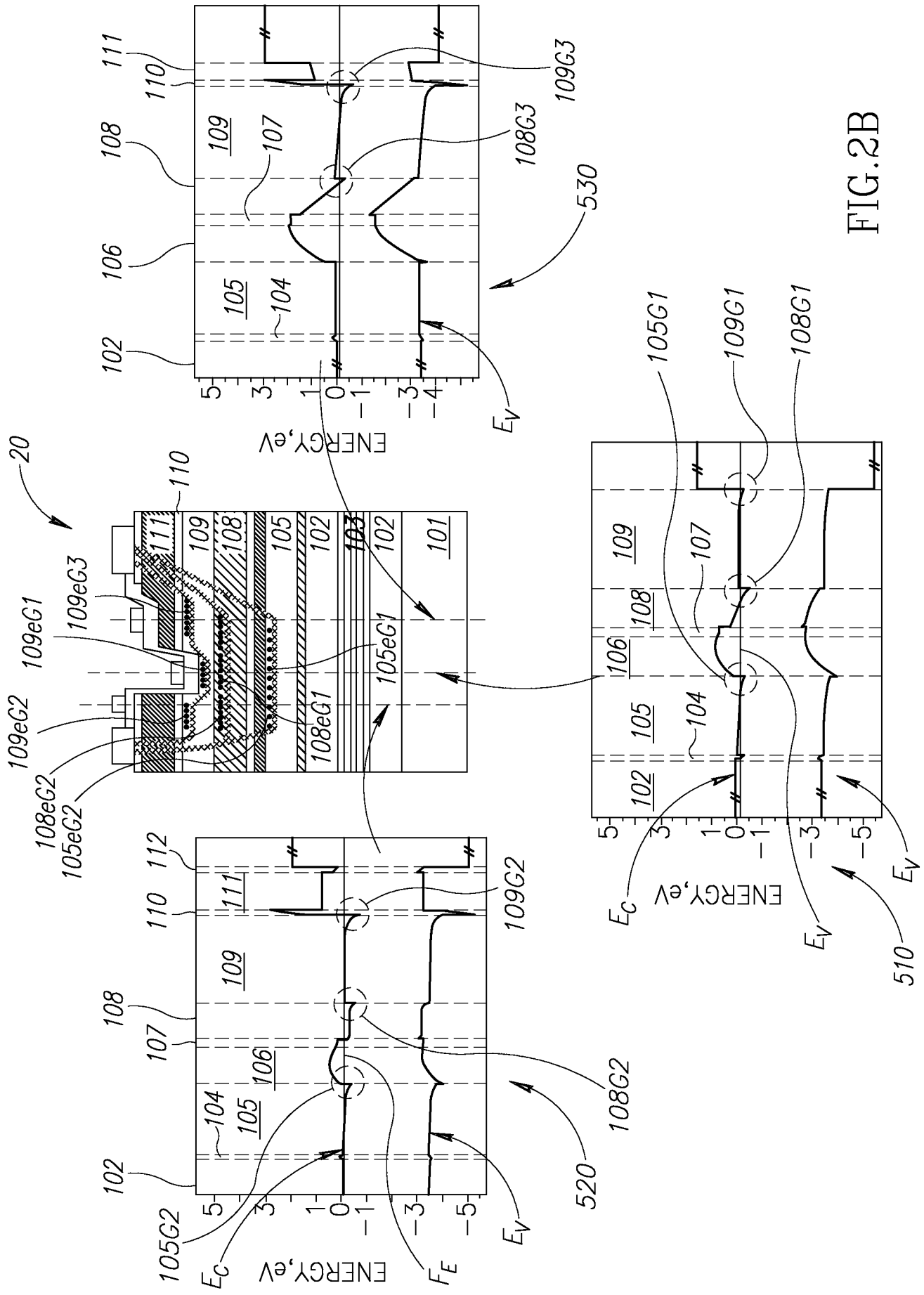

20
101
102
103
104
105
106
107
108
109
110
111
112
105eG1
108eG1
109eG1
109eG3
108eG2
105eG2
109eG2
105G2
108G2
109G2
105G1
108G1
109G1
108G3
109G3
530
520
510
E_C
E_V
F_E
ENERGY,eV

FIG.2B

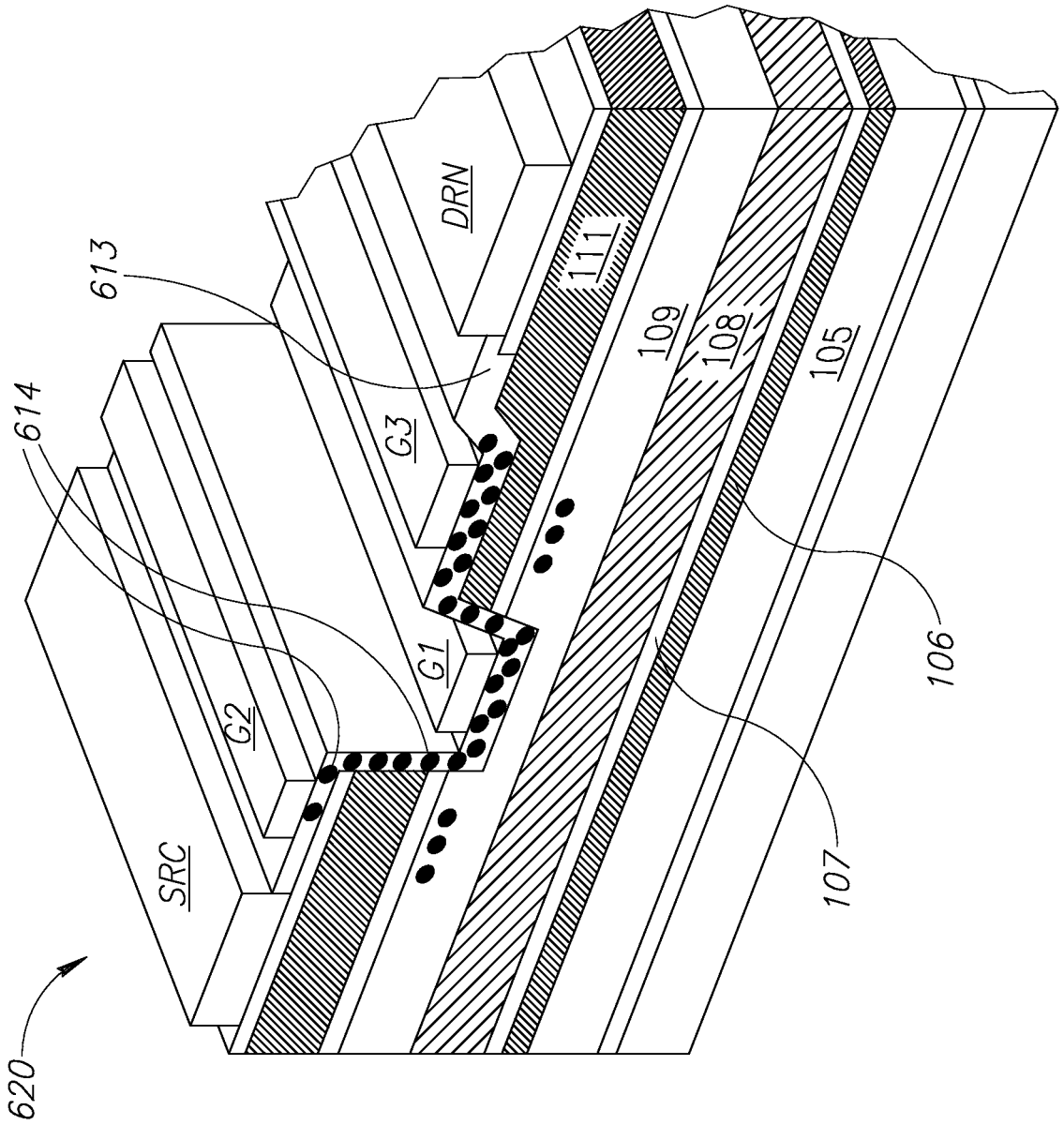


FIG.3

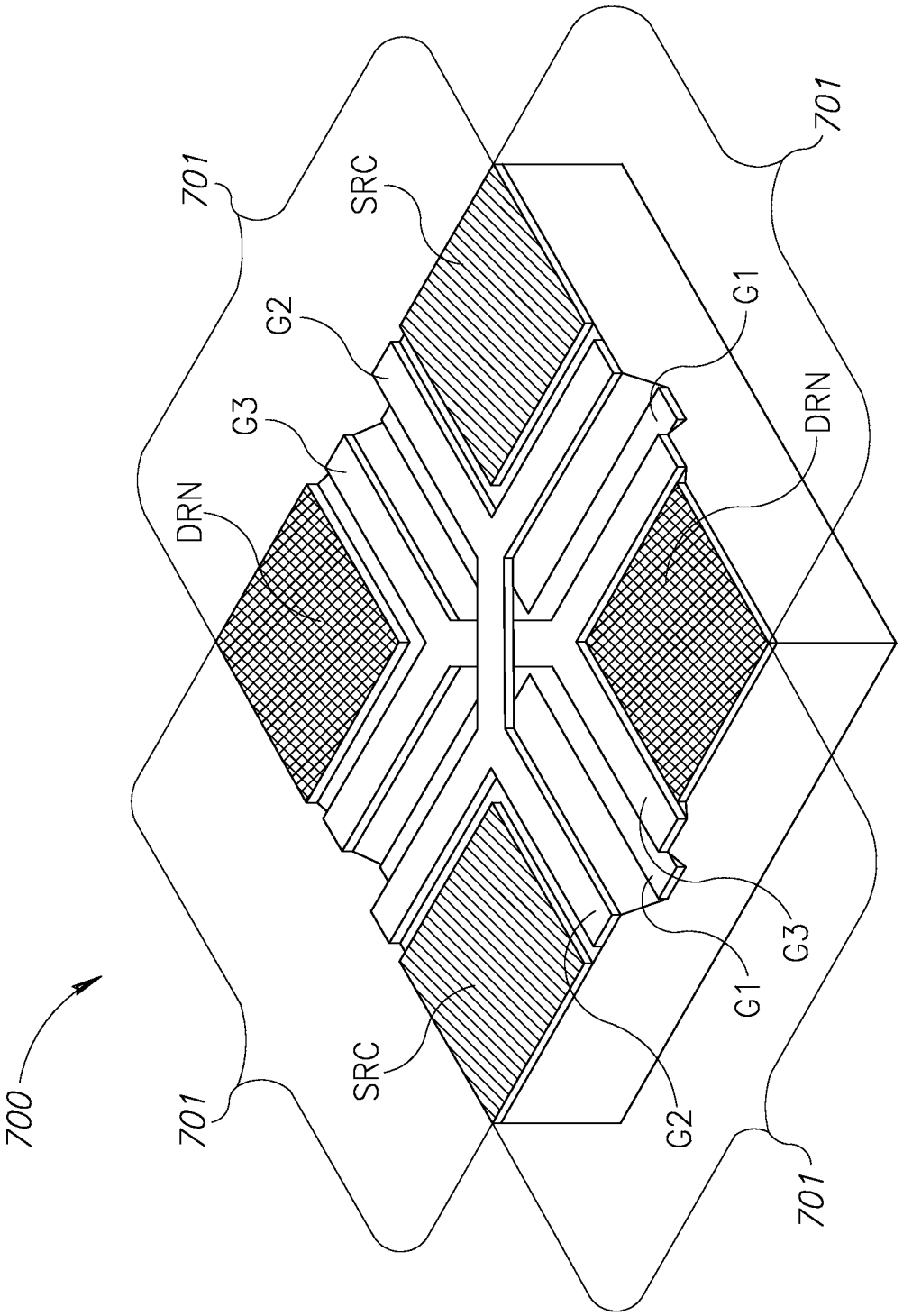


FIG.4A

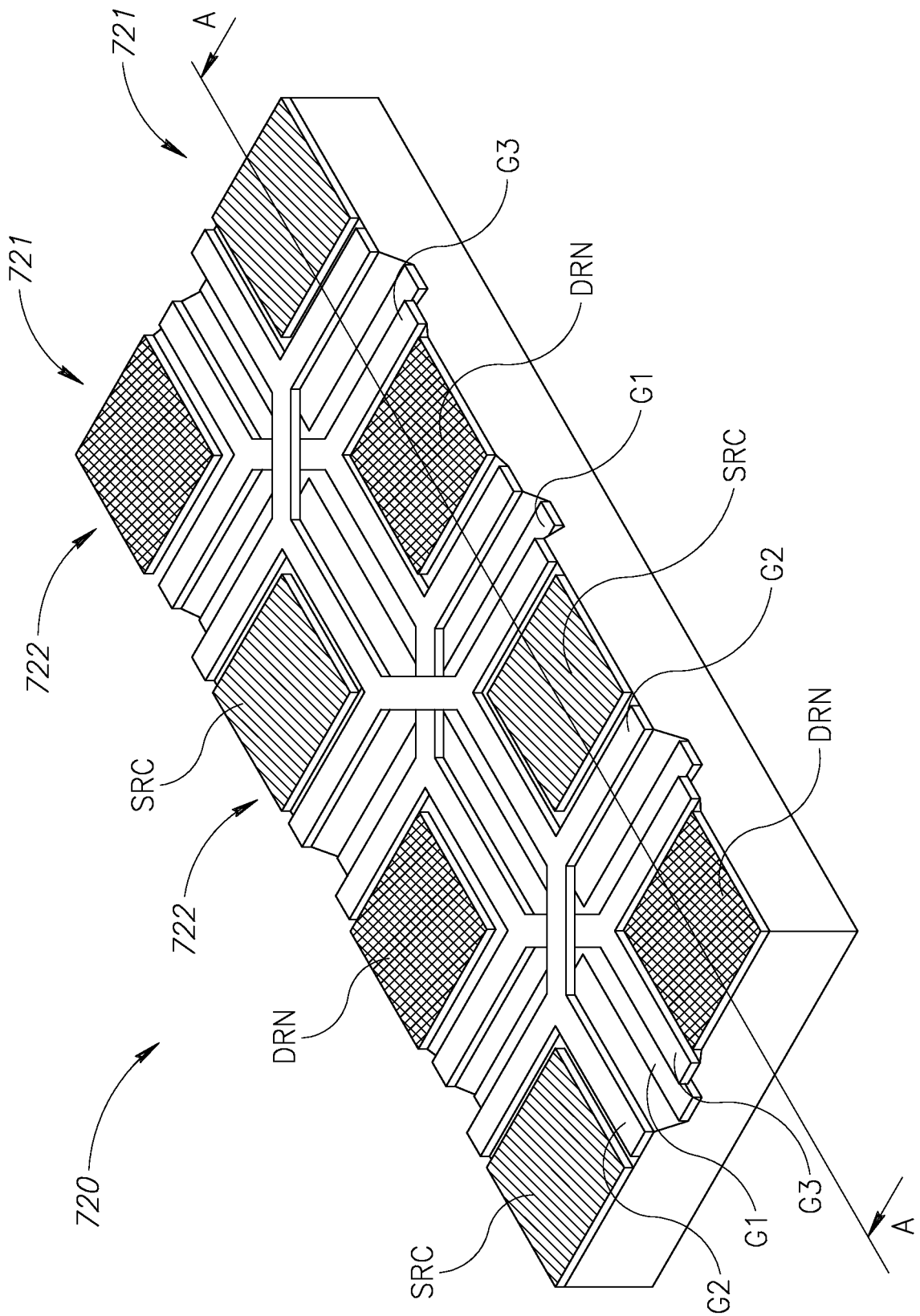
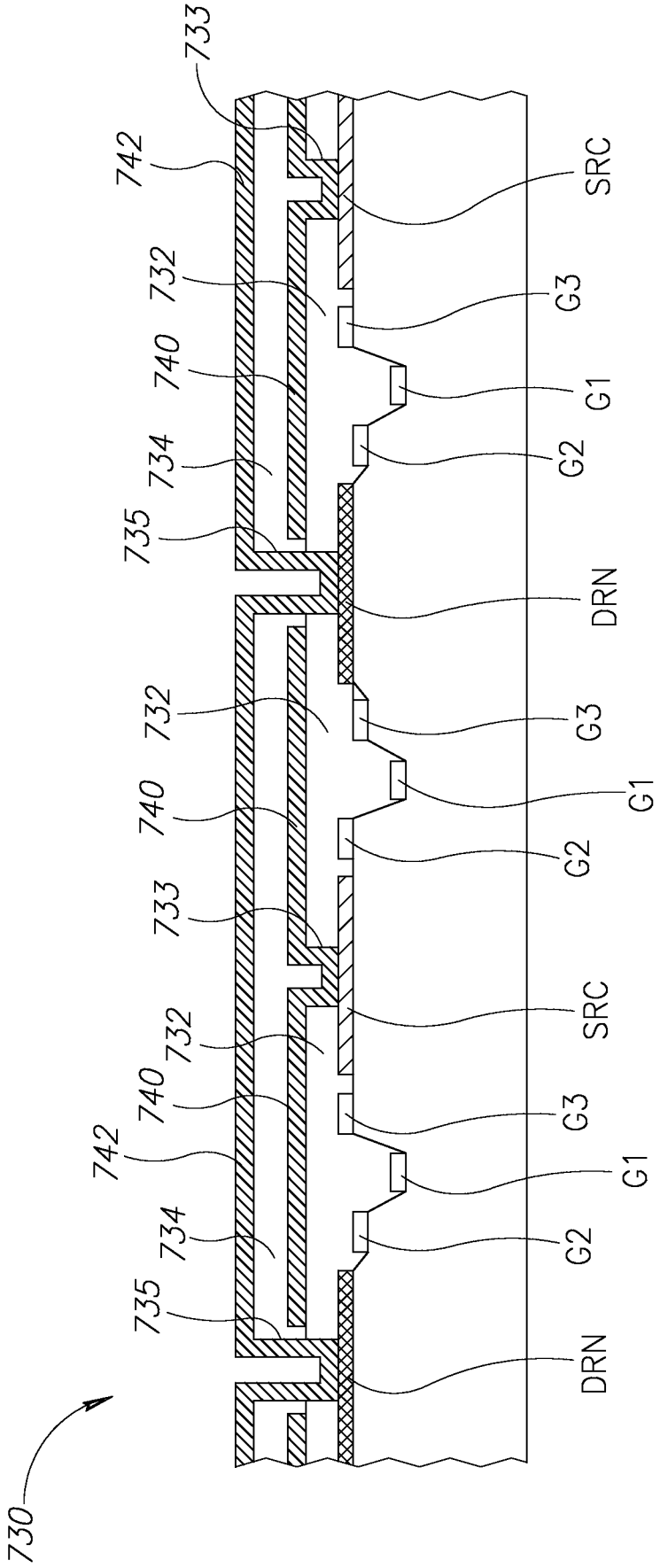


FIG.4B


730
735
734
742
740
732
733
DRN
G2
G1
G3
SRC
735
734
740
732
733
DRN
G2
G1
G3
SRC
742
740
732
735
734
742

A–A

FIG.4C

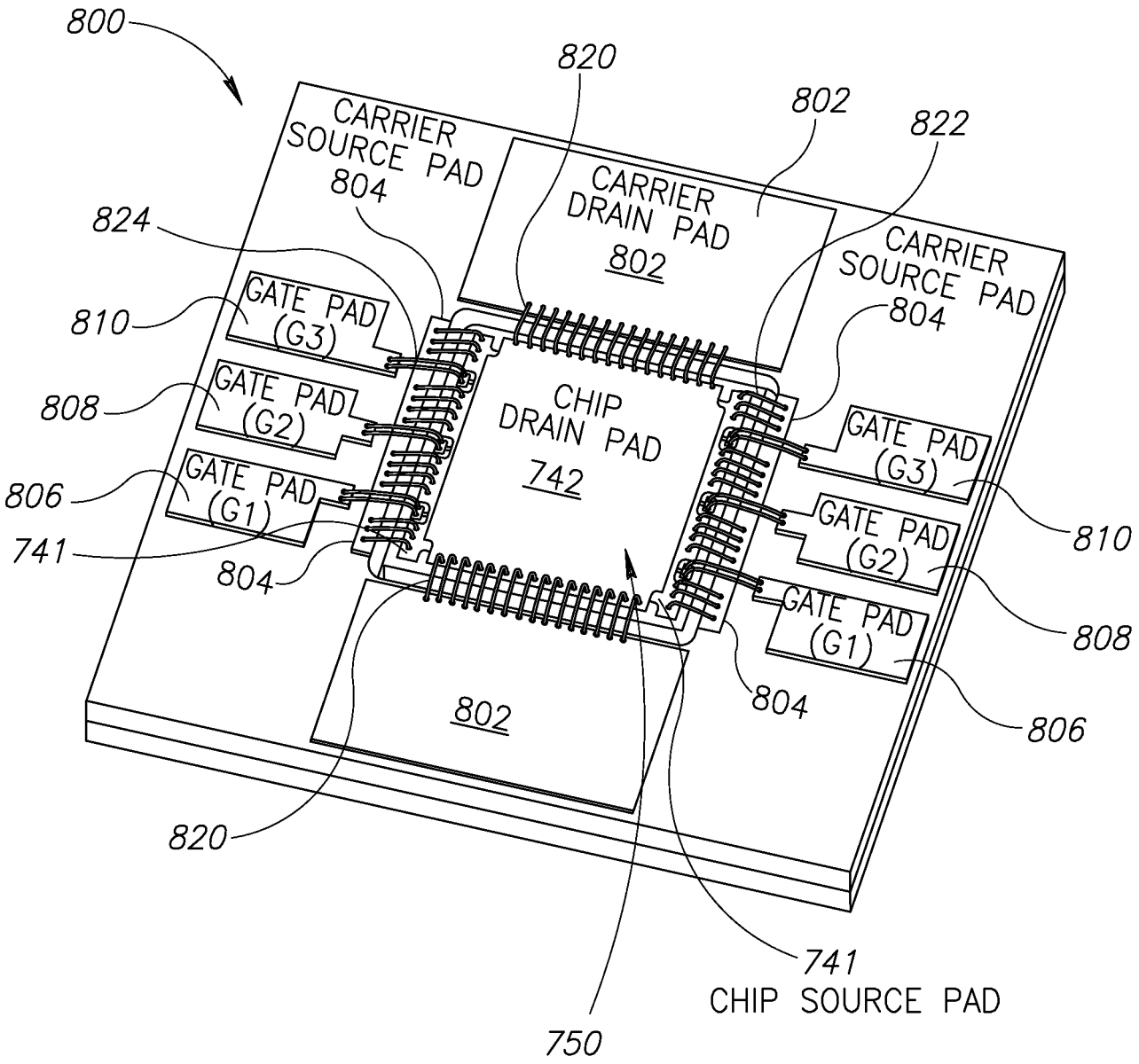

800
820
802
822
CARRIER SOURCE PAD
804
CARRIER DRAIN PAD
802
CARRIER SOURCE PAD
824
804
810
GATE PAD (G3)
808
GATE PAD (G2)
CHIP DRAIN PAD
742
804
806
GATE PAD (G1)
741
804
GATE PAD (G3)
810
GATE PAD (G2)
808
GATE PAD (G1)
804
806
802
820
741
CHIP SOURCE PAD
750

FIG.4D

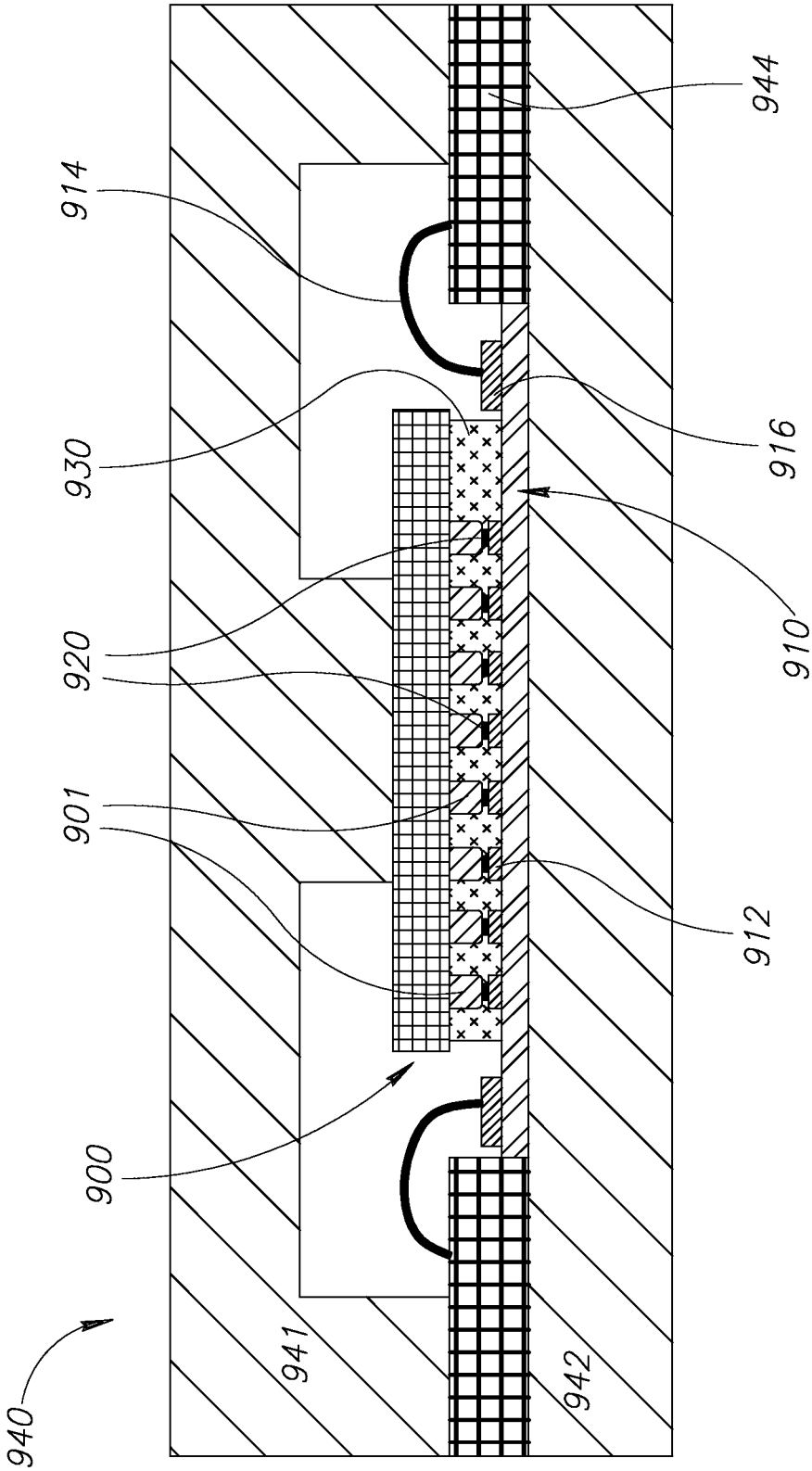


FIG.5