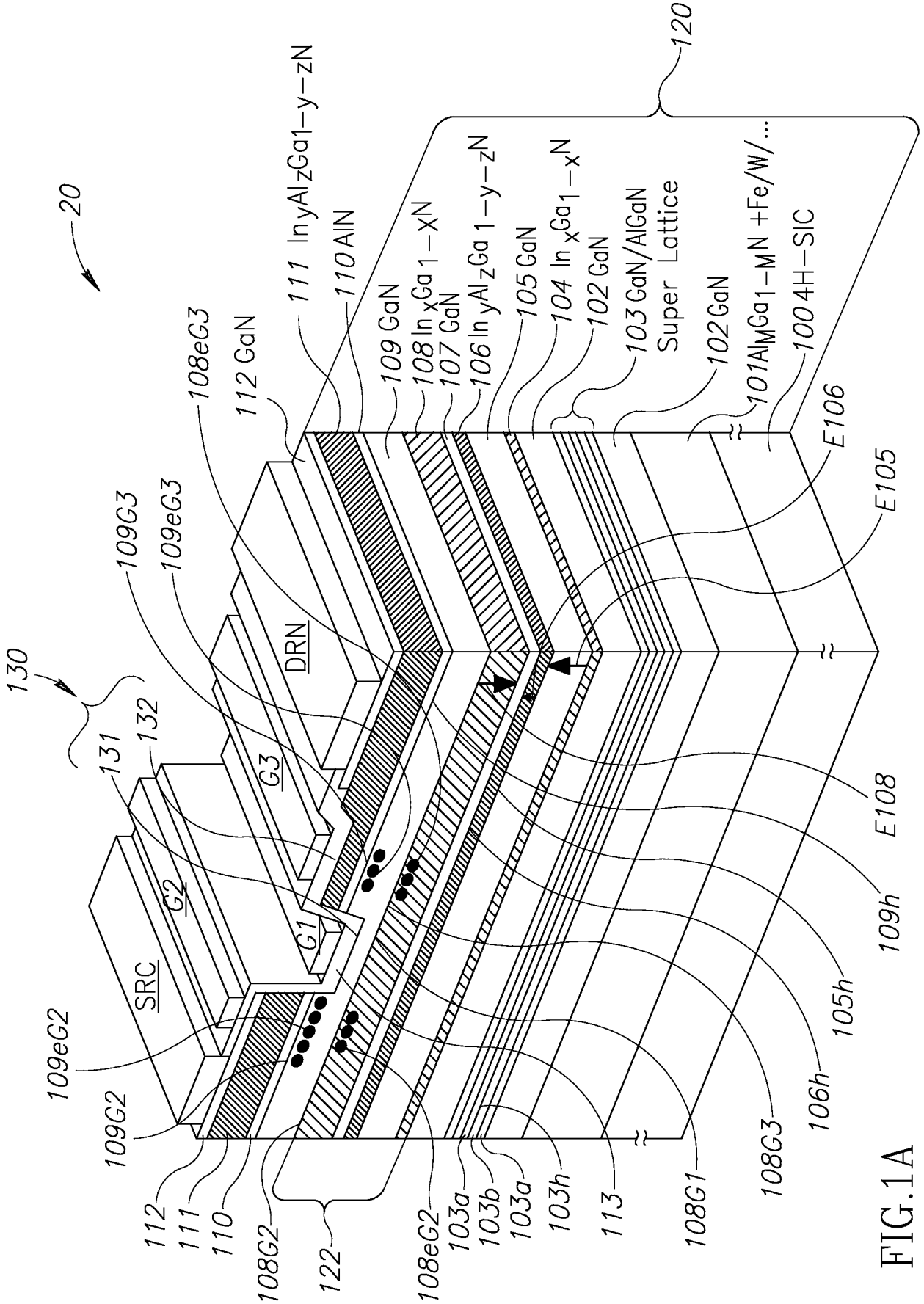

20
130
131
132
SRC
G2
G1
G3
DRN
109eG2
109G2
112
111
110
108G2
122
108eG2
103a
103b
103a
103h
113
108G1
108G3
106h
105h
109h
E108
E105
E106
109G3
109eG3
108eG3
112 GaN
111 InyAlzGa1−y−zN
110 AlN
109 GaN
108 InxGa1−xN
107 GaN
106 InyAlzGa1−y−zN
105 GaN
104 InxGa1−xN
102 GaN
103 GaN/AlGaN Super Lattice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

FIG.1A

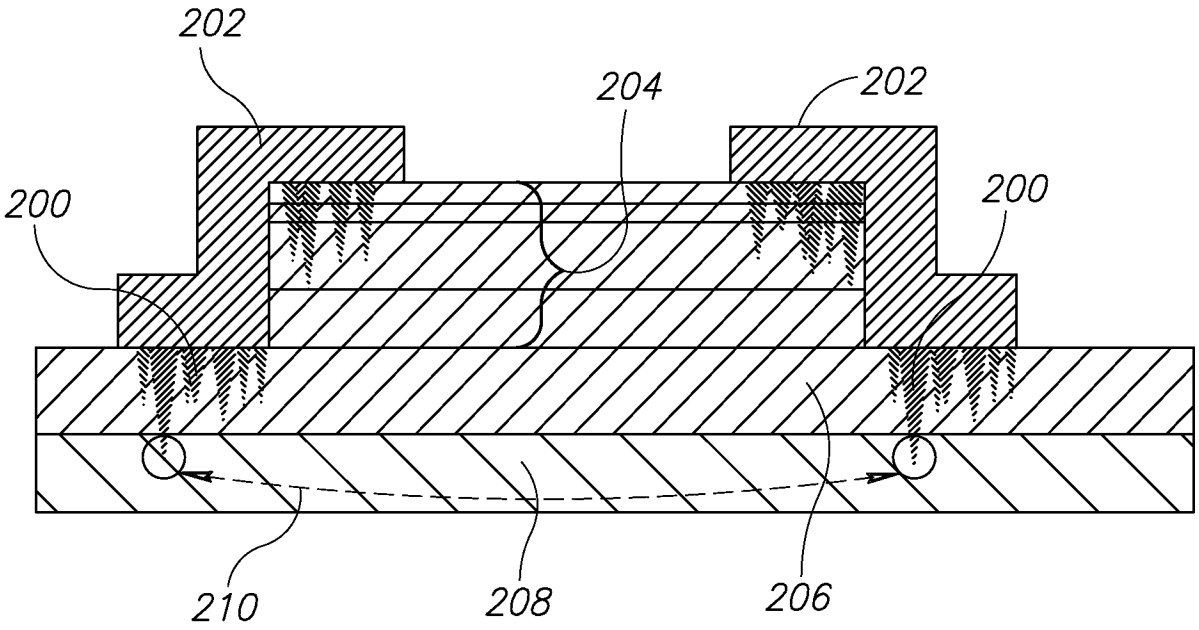


FIG.1B

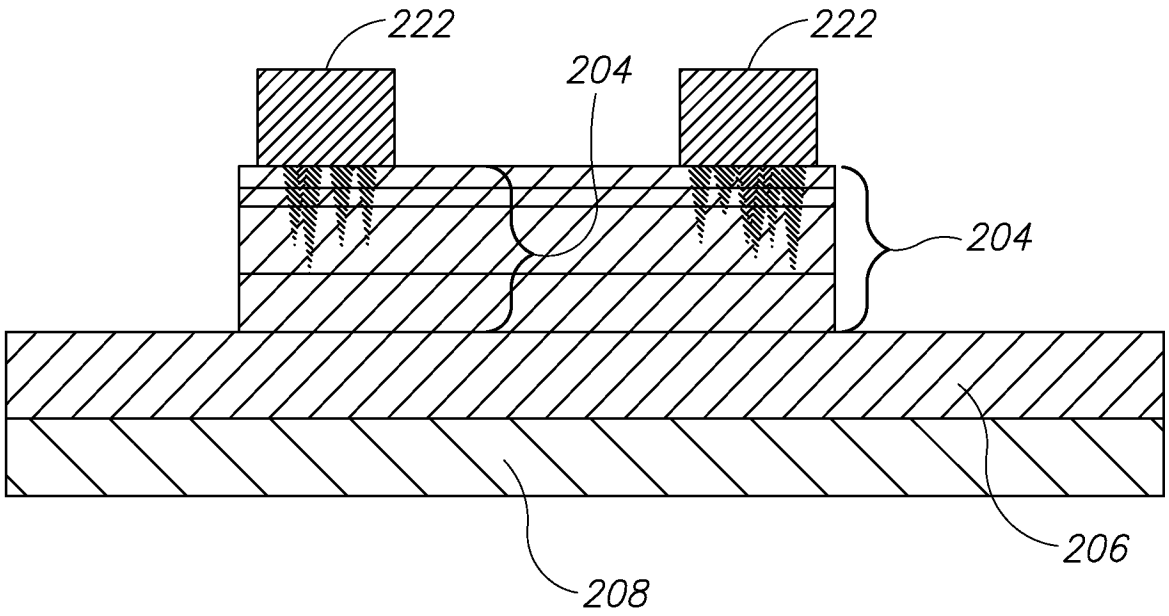


FIG.1C

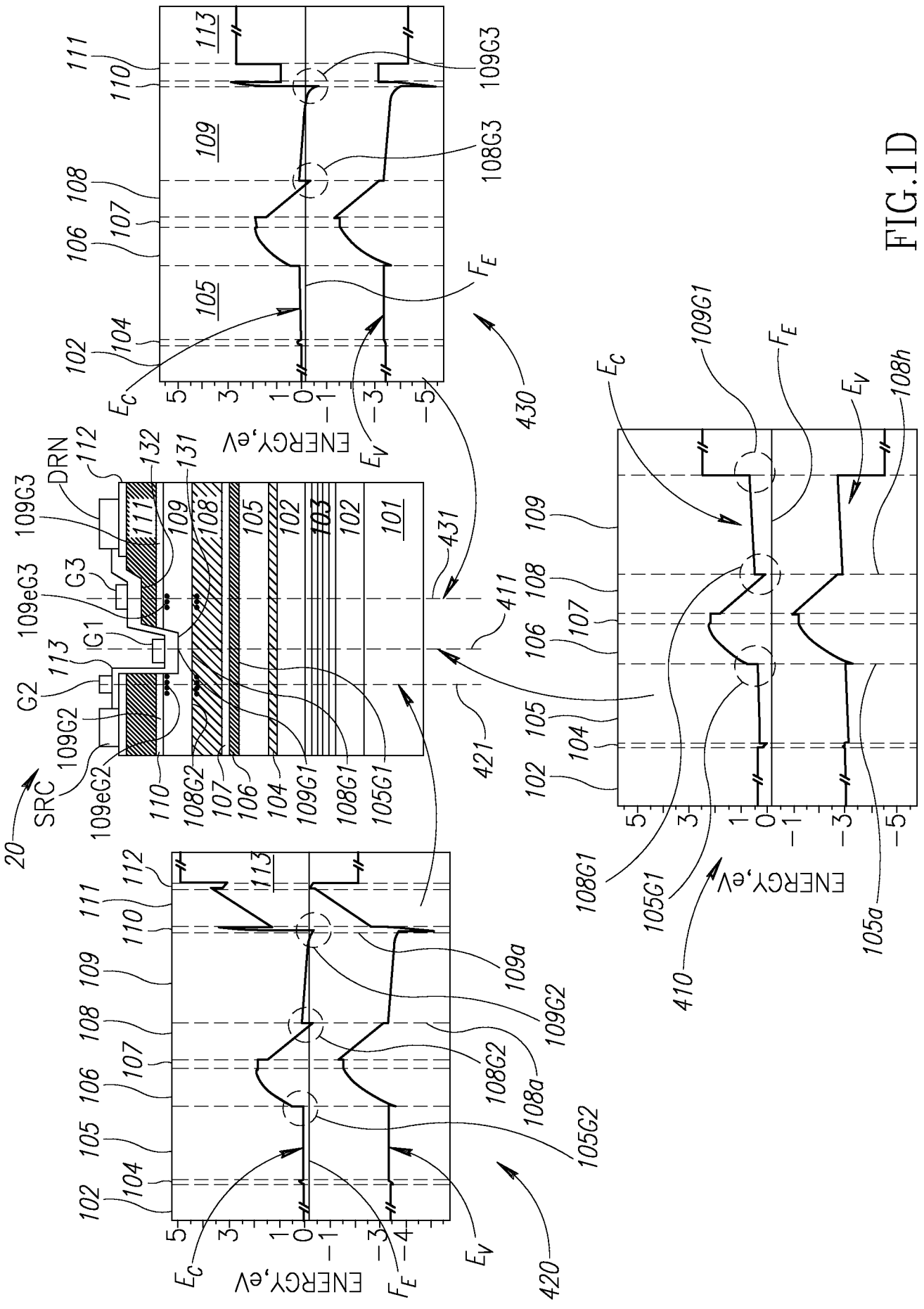

20
SRC
DRN
G1
G2
G3
109eG2
109eG3
109G2
109G3
110
108G2
107
106
104
109G1
108G1
105G1
102
103
101
111
112
113
132
131
108'
105
109
108
431
411
421
430
420
410
ENERGY,eV
E_C
E_V
F_E
109a
108a
109G2
108G2
105G2
108h
105a

FIG.1D

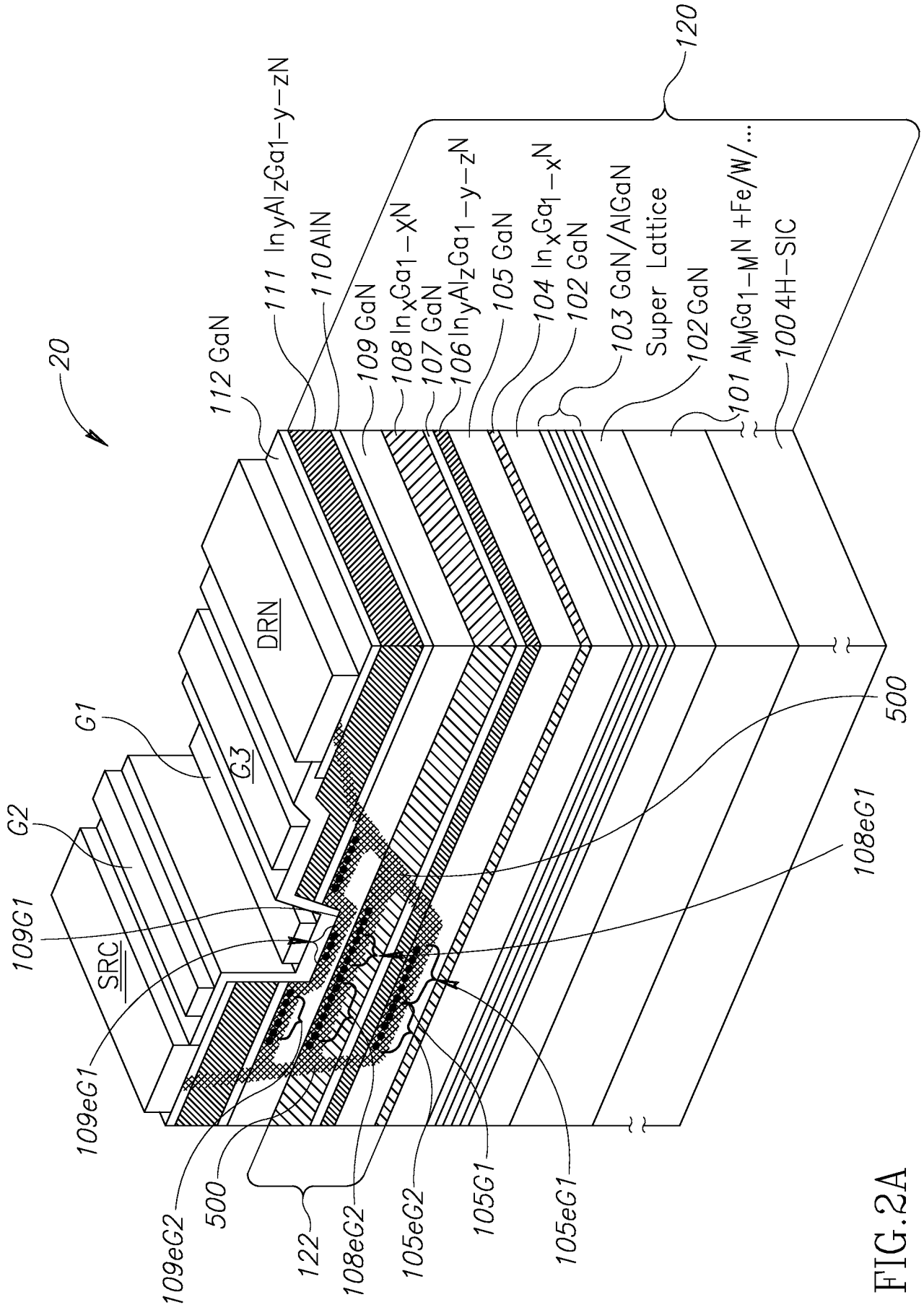

20
120
112 GaN
111 InyAlzGa1−y−zN
110 AlN
109 GaN
108 InxGa1−xN
107 GaN
106 InyAlzGa1−y−zN
105 GaN
104 InxGa1−xN
102 GaN
103 GaN/AlGaN
Super Lattice
102 GaN
101 AlMGa1−MN +Fe/W/...
100 4H−SIC
DRN
G3
G1
G2
SRC
109G1
109eG1
109eG2
500
122
108eG2
105eG2
105G1
105eG1
108eG1
500

FIG.2A

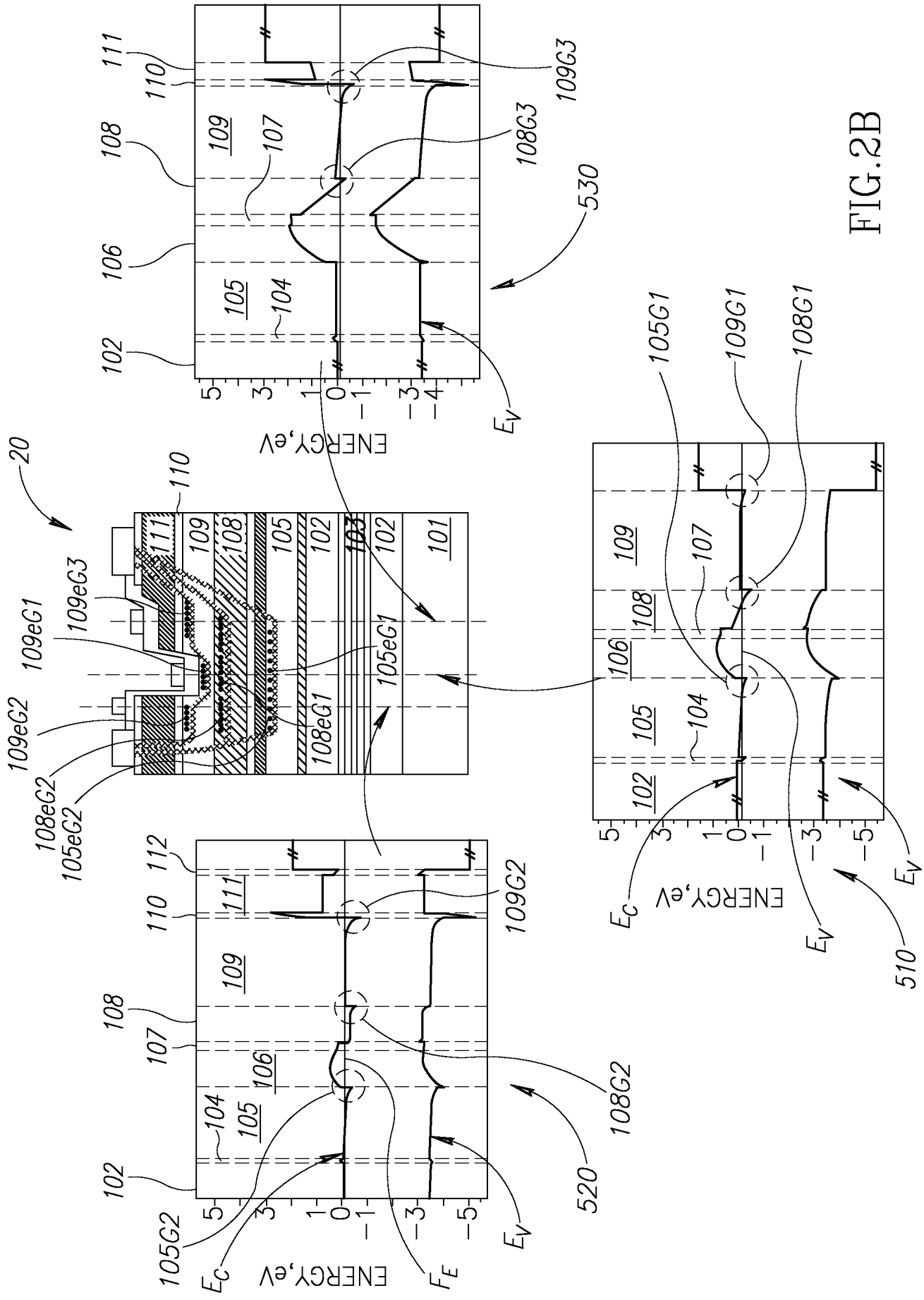

20
110
111
109
108
107
106
105
104
102
103
101
109eG1
109eG2
109eG3
108eG1
108eG2
105eG1
105eG2
ENERGY,eV
E_C
E_V
F_E
105G1
105G2
108G1
108G2
109G1
109G2
109G3
112
520
530
510

FIG.2B

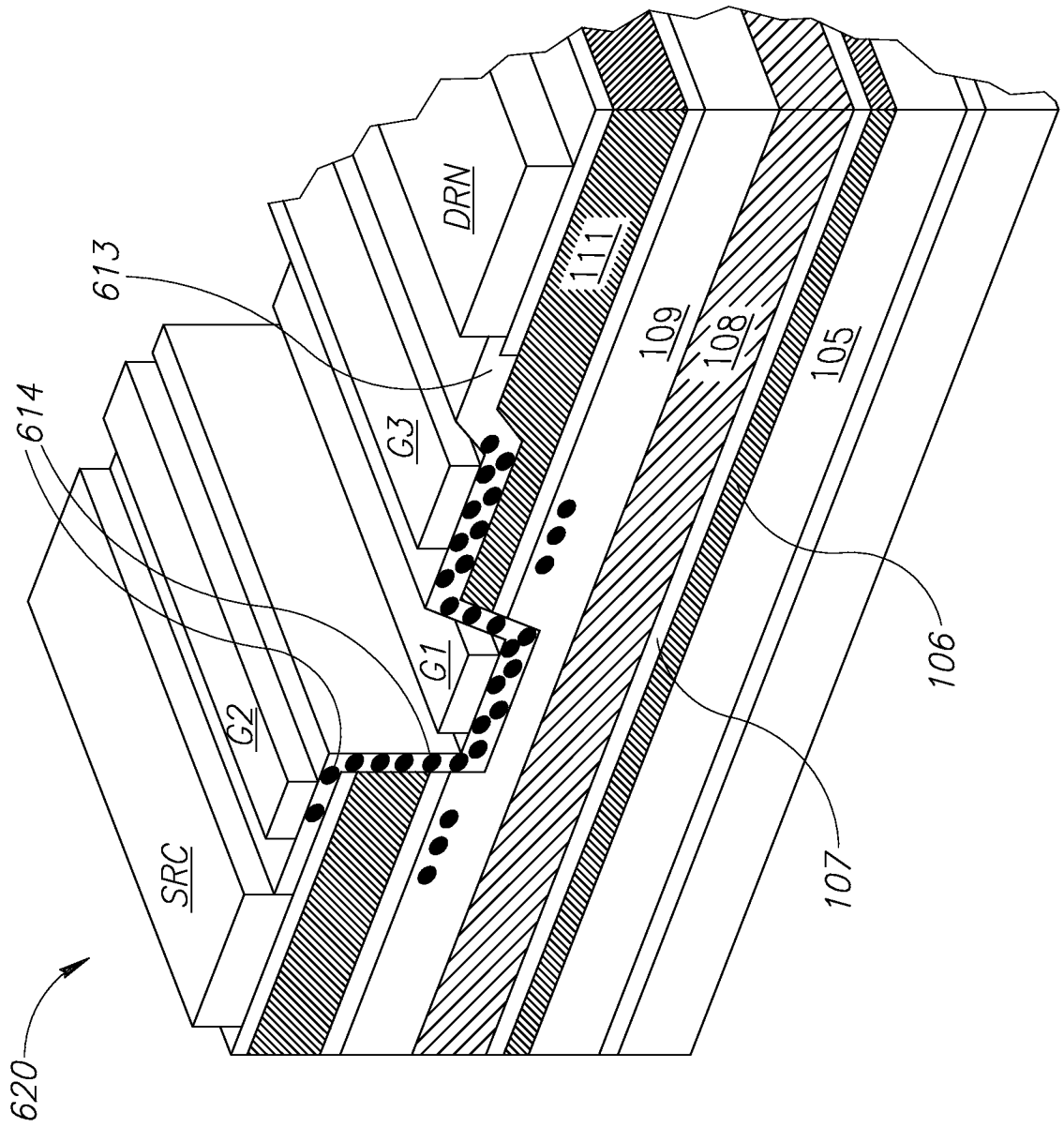


FIG.3

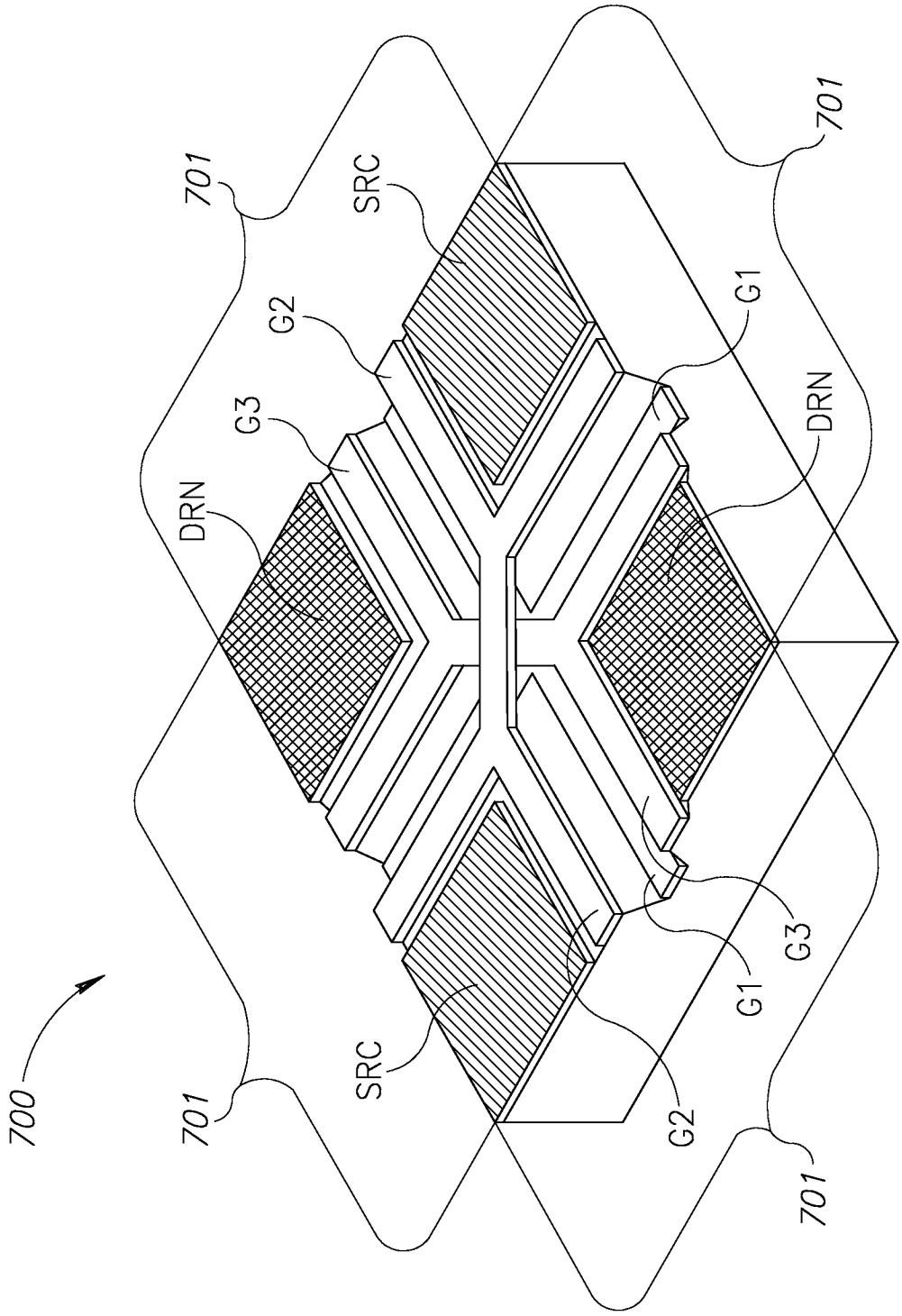


FIG.4A

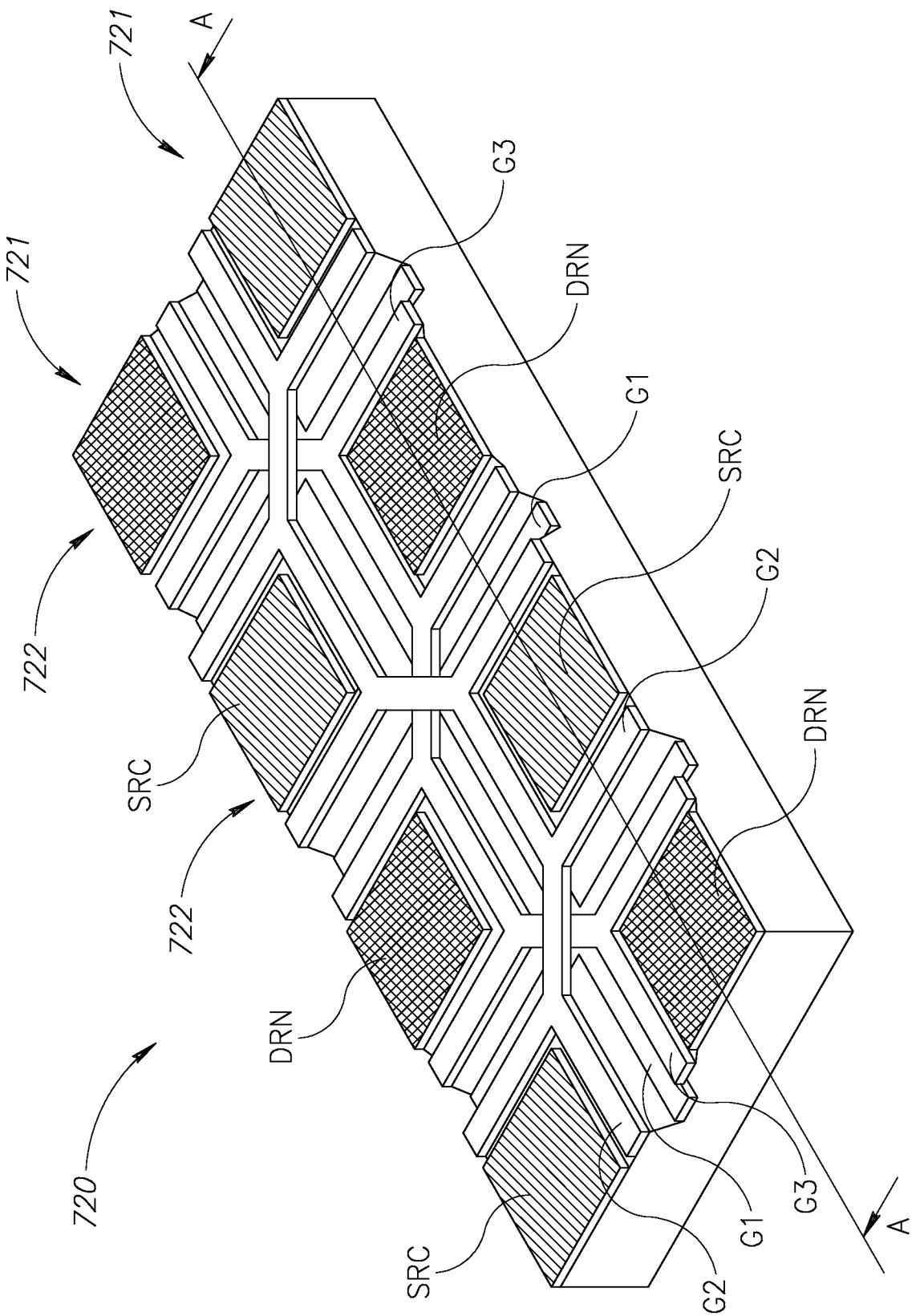

721
A
721
G3
DRN
721
G1
SRC
722
G2
SRC
DRN
722
DRN
720
SRC
G1
G3
G2
A

FIG.4B

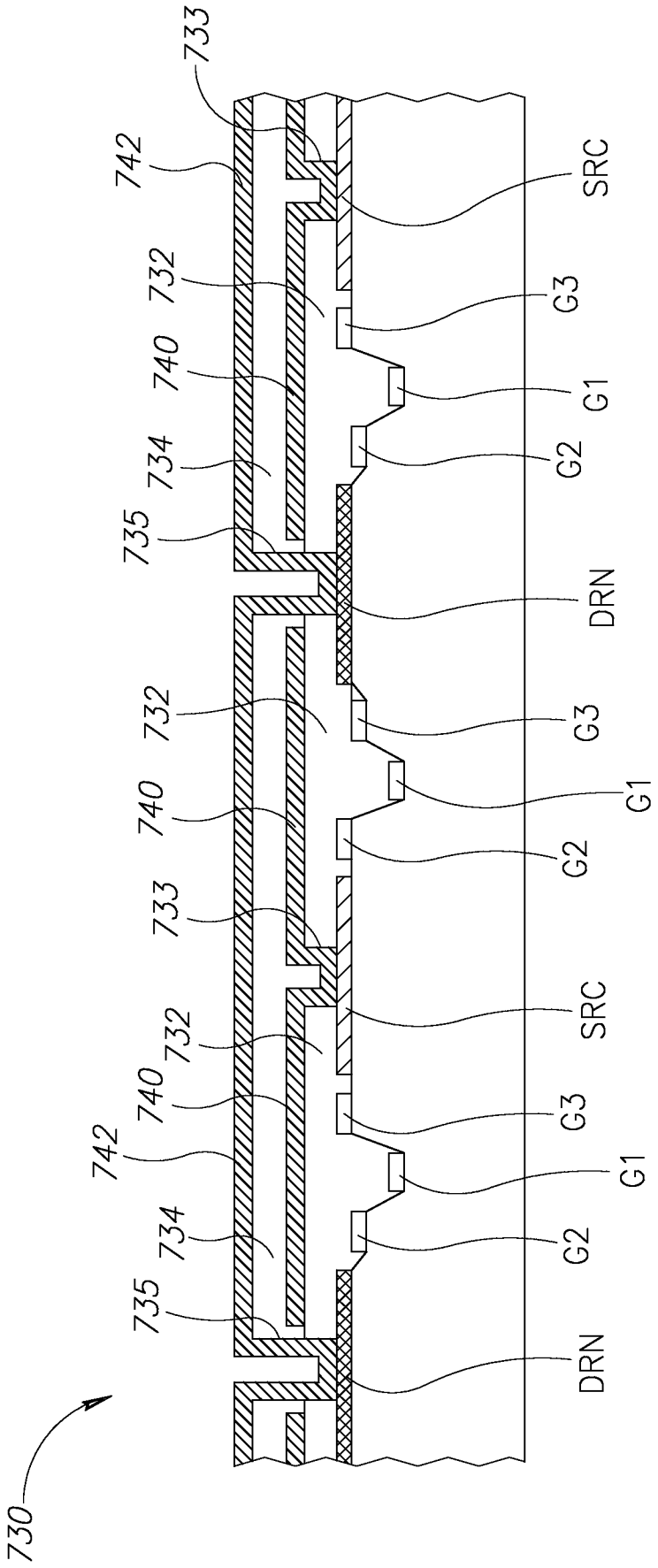


FIG.4C

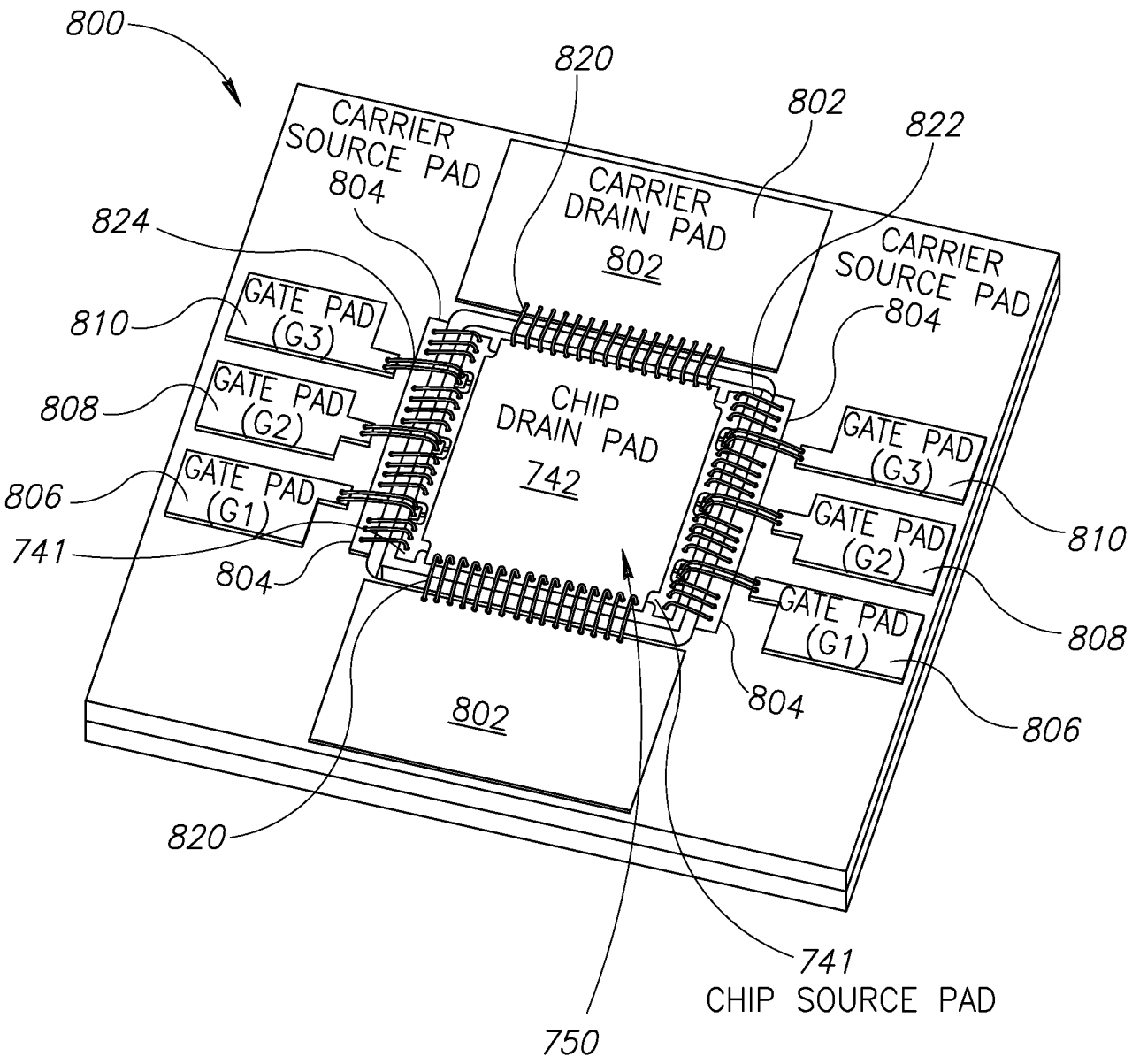

800
820
802
822
CARRIER SOURCE PAD
804
CARRIER DRAIN PAD
802
CARRIER SOURCE PAD
824
804
810
GATE PAD (G3)
808
GATE PAD (G2)
CHIP DRAIN PAD
742
804
806
GATE PAD (G1)
741
804
GATE PAD (G3)
810
GATE PAD (G2)
808
GATE PAD (G1)
804
806
802
820
741
CHIP SOURCE PAD
750

FIG.4D

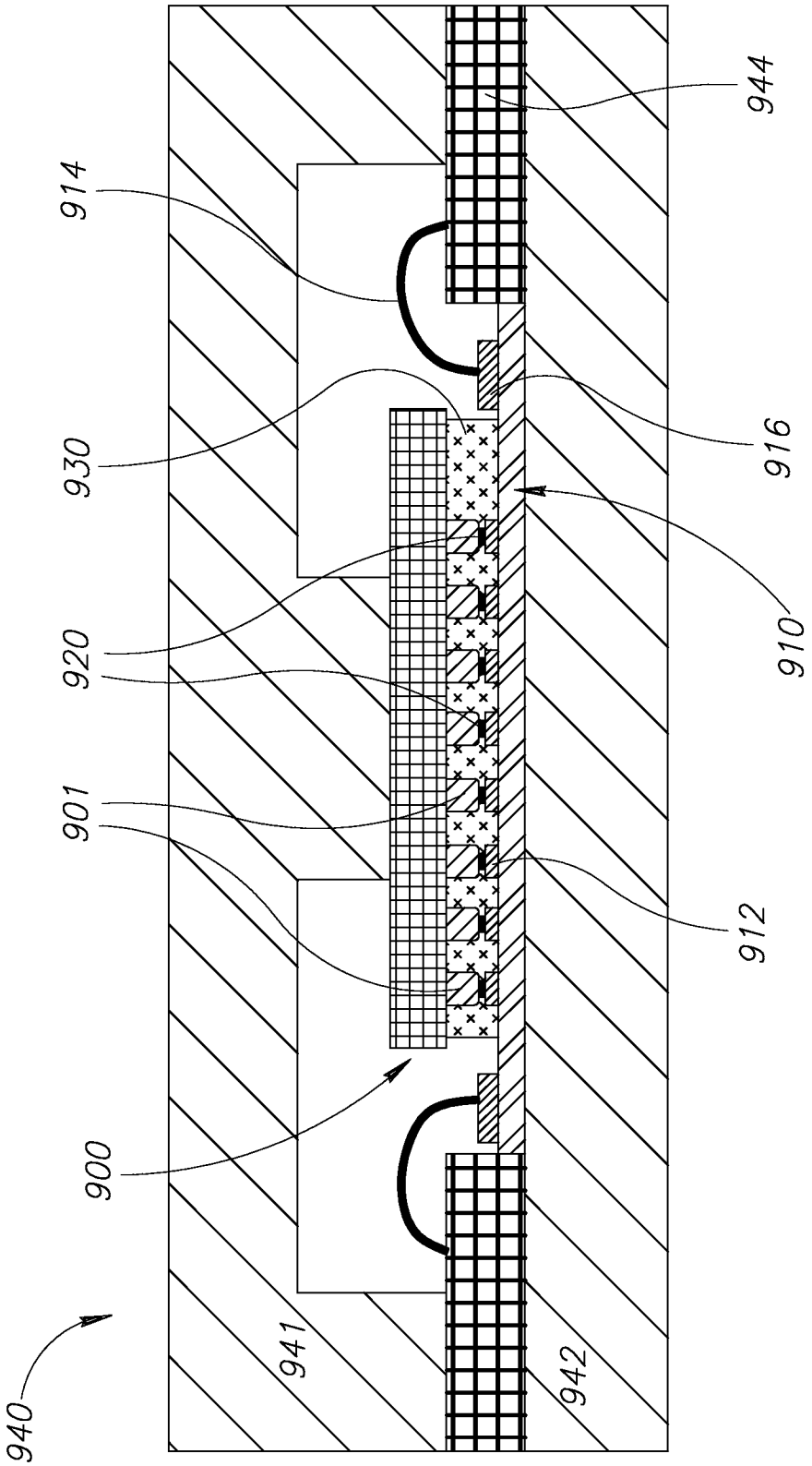


FIG.5