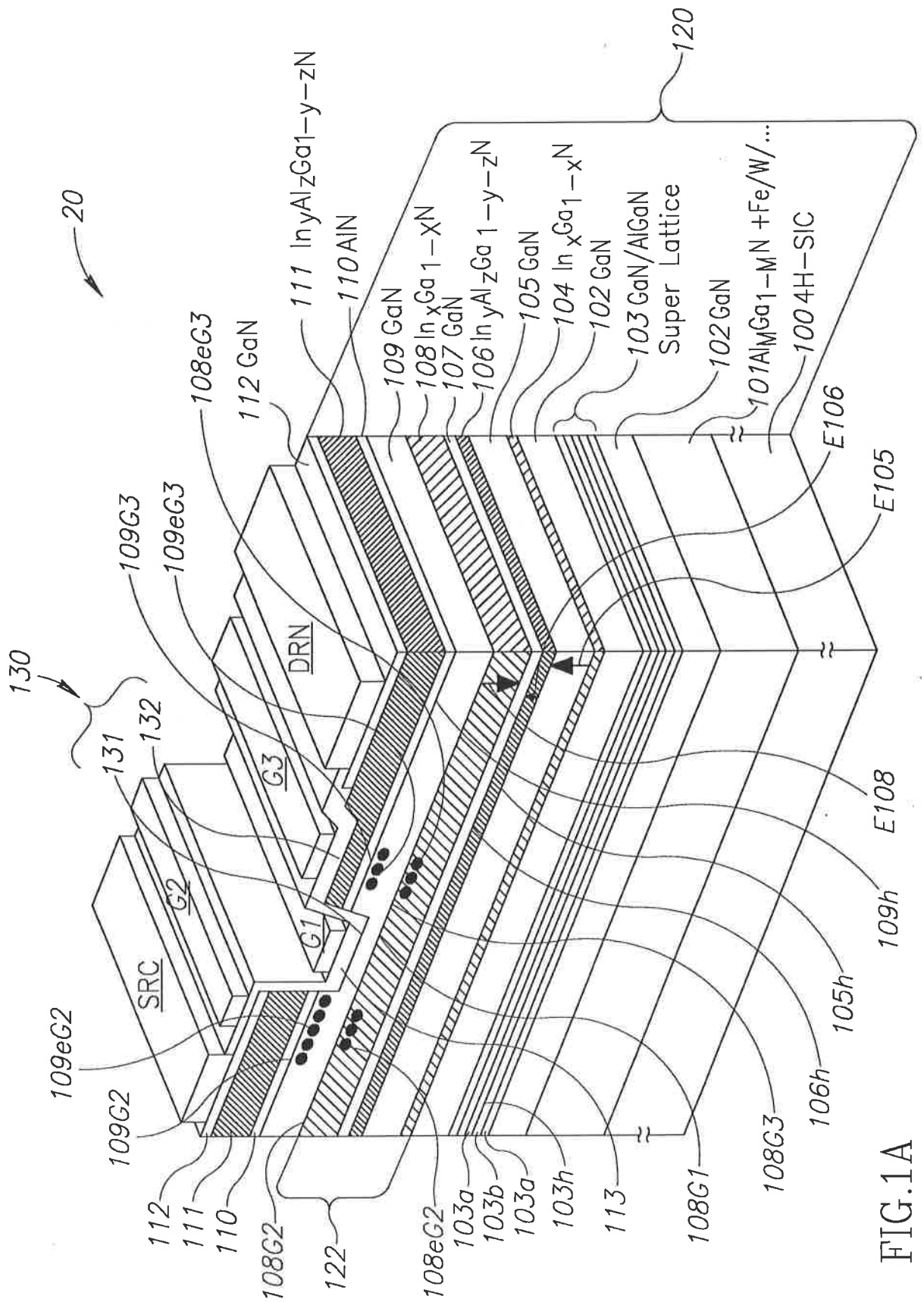

20
130
131
132
SRC
G2
G1
G3
DRN
109eG2
109G2
109G3
109eG3
108eG3
112 GaN
111 InyAlzGa1−y−zN
110 AlN
109 GaN
108 InxGa1−xN
107 GaN
106 InyAlzGa1−y−zN
105 GaN
104 InxGa1−xN
102 GaN
103 GaN/AlGaN Super Lattice
102 GaN
101 AlMGa1−MN +Fe/W/...
100 4H−SIC
120
E106
E105
E108
109h
105h
106h
108G3
108G1
113
103h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

FIG.1A

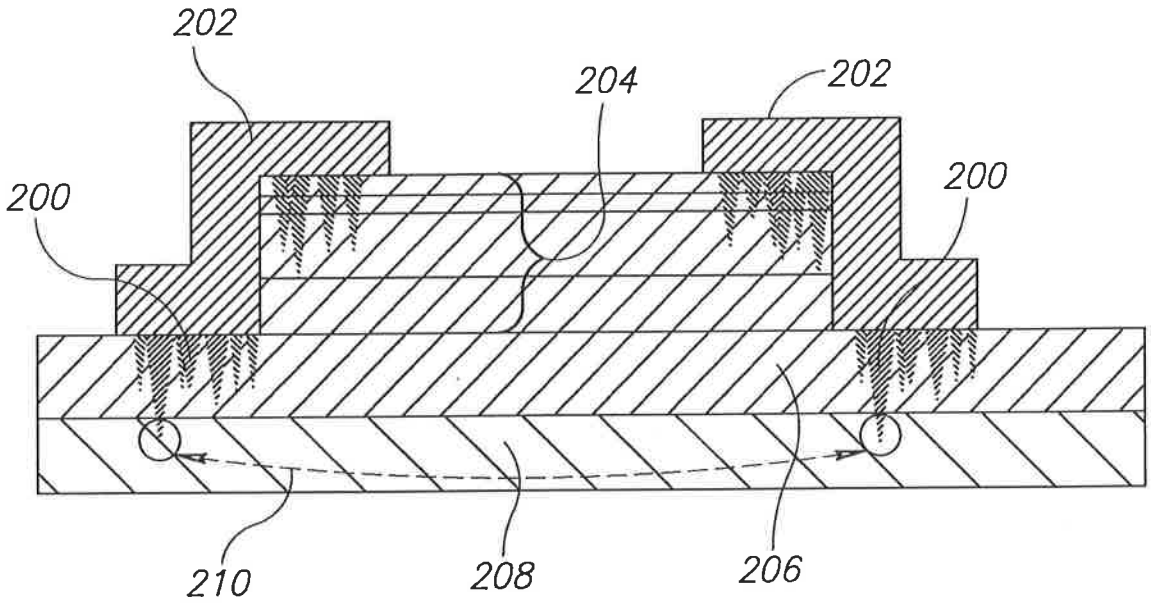


FIG.1B

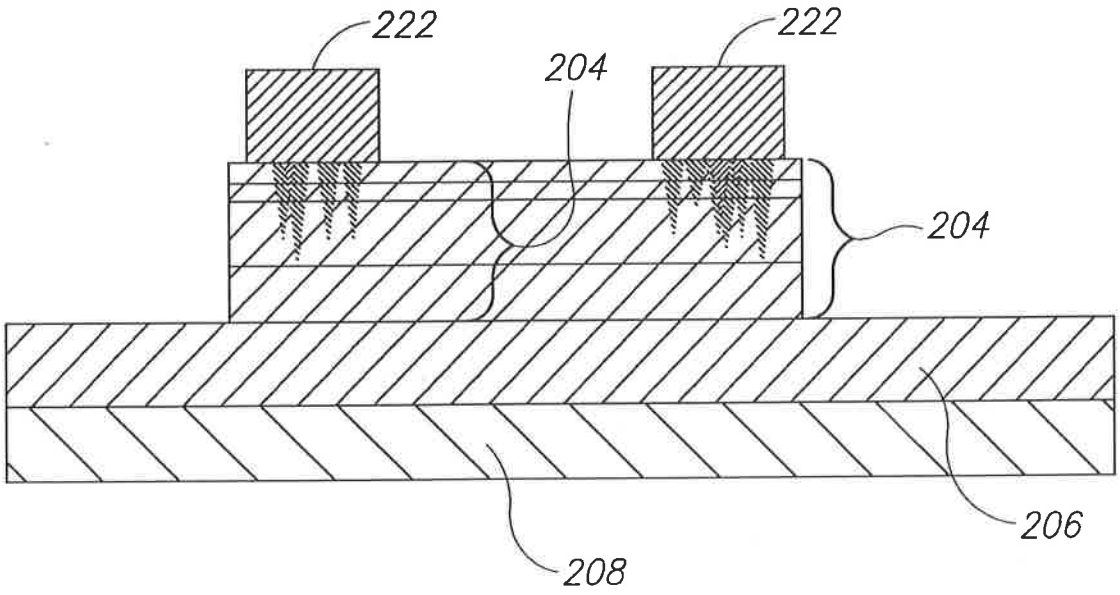


FIG.1C

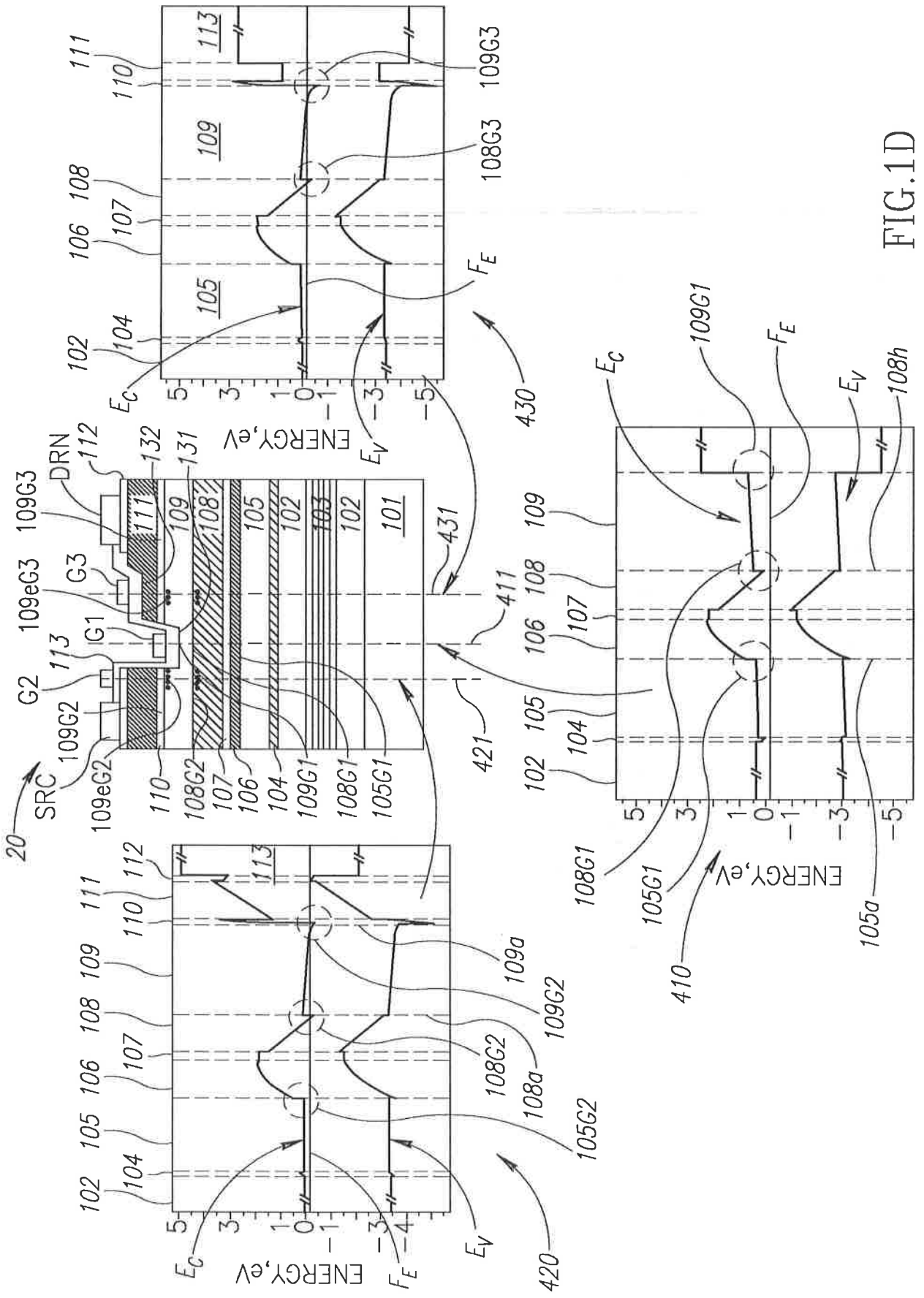

20
SRC
DRN
G1
G2
G3
109eG2
109G2
109eG3
109G3
110
108G2
107
106
104
109G1
108G1
105G1
101
102
103
105
108
109
111
112
113
132
131
421
411
431
420
430
410
105G2
108a
109a
109G2
108G3
105a
108h
E_C
E_V
F_E
ENERGY,eV

FIG.1D

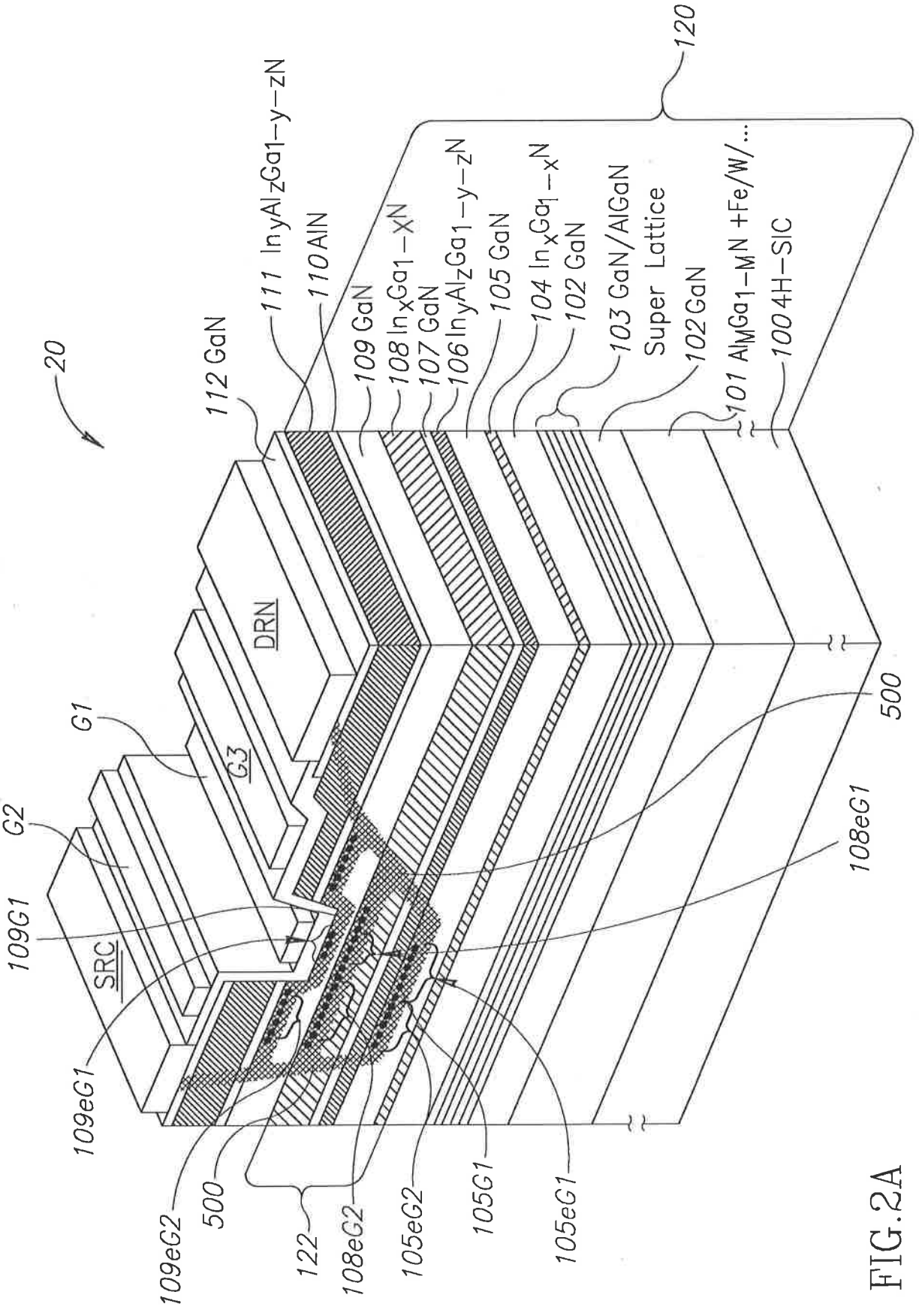

20
120
112 GaN
111 InyAlzGa1−y−zN
110 AlN
109 GaN
108 InxGa1−xN
107 GaN
106 InyAlzGa1−y−zN
105 GaN
104 InxGa1−xN
102 GaN
103 GaN/AlGaN
Super Lattice
102 GaN
101 AlMGa1−MN +Fe/W/...
100 4H−SIC
DRN
G3
G1
G2
SRC
109G1
109eG1
109eG2
500
122
108eG2
105eG2
105G1
105eG1
108eG1

FIG. 2A

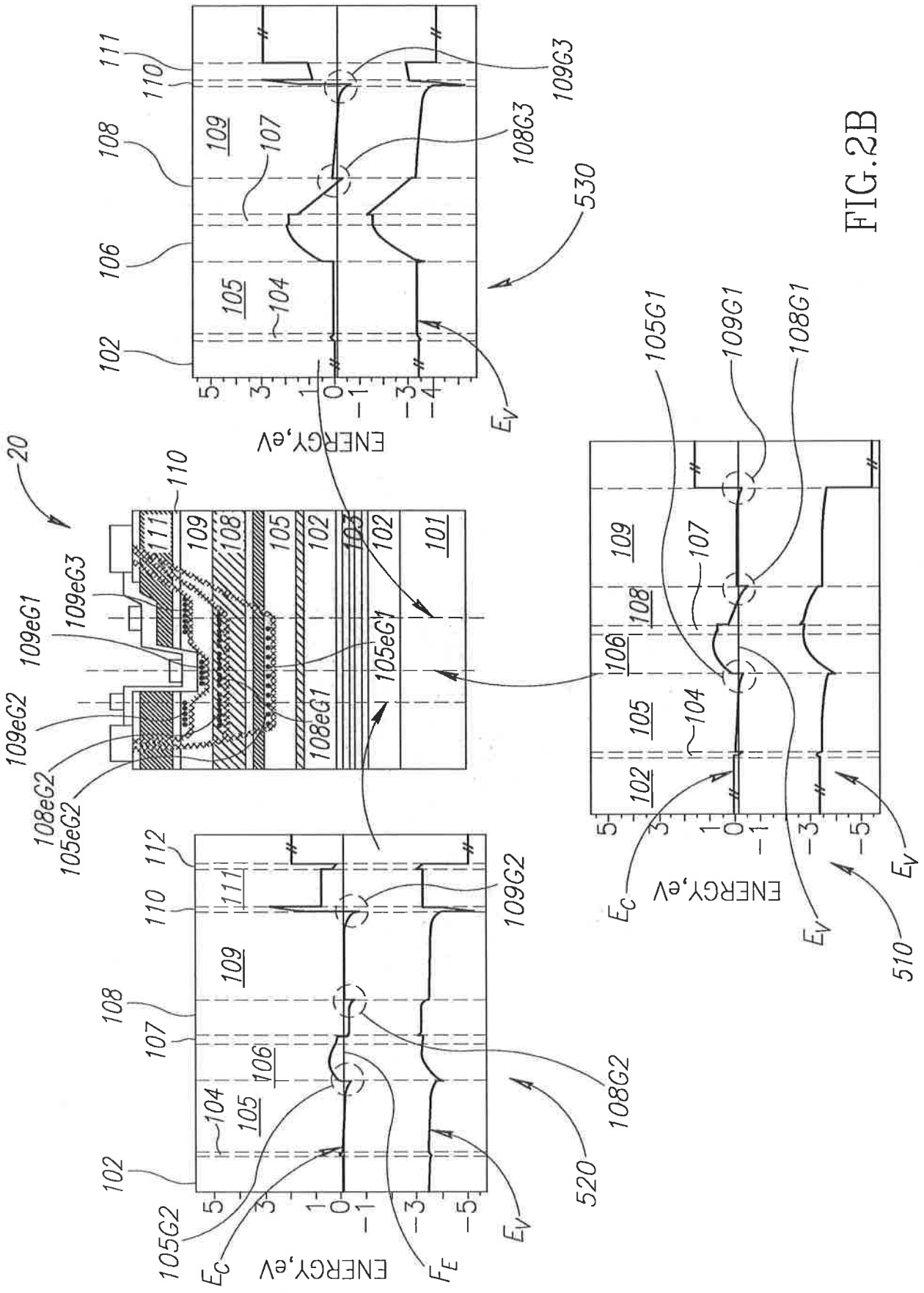

20
110
111
109
108
107
106
105
104
102
101
103
109eG3
109eG1
109eG2
108eG2
105eG2
108eG1
105eG1
109G3
108G3
530
E_V
ENERGY,eV
109G1
105G1
108G1
E_C
510
109G2
108G2
105G2
520
F_E

FIG.2B

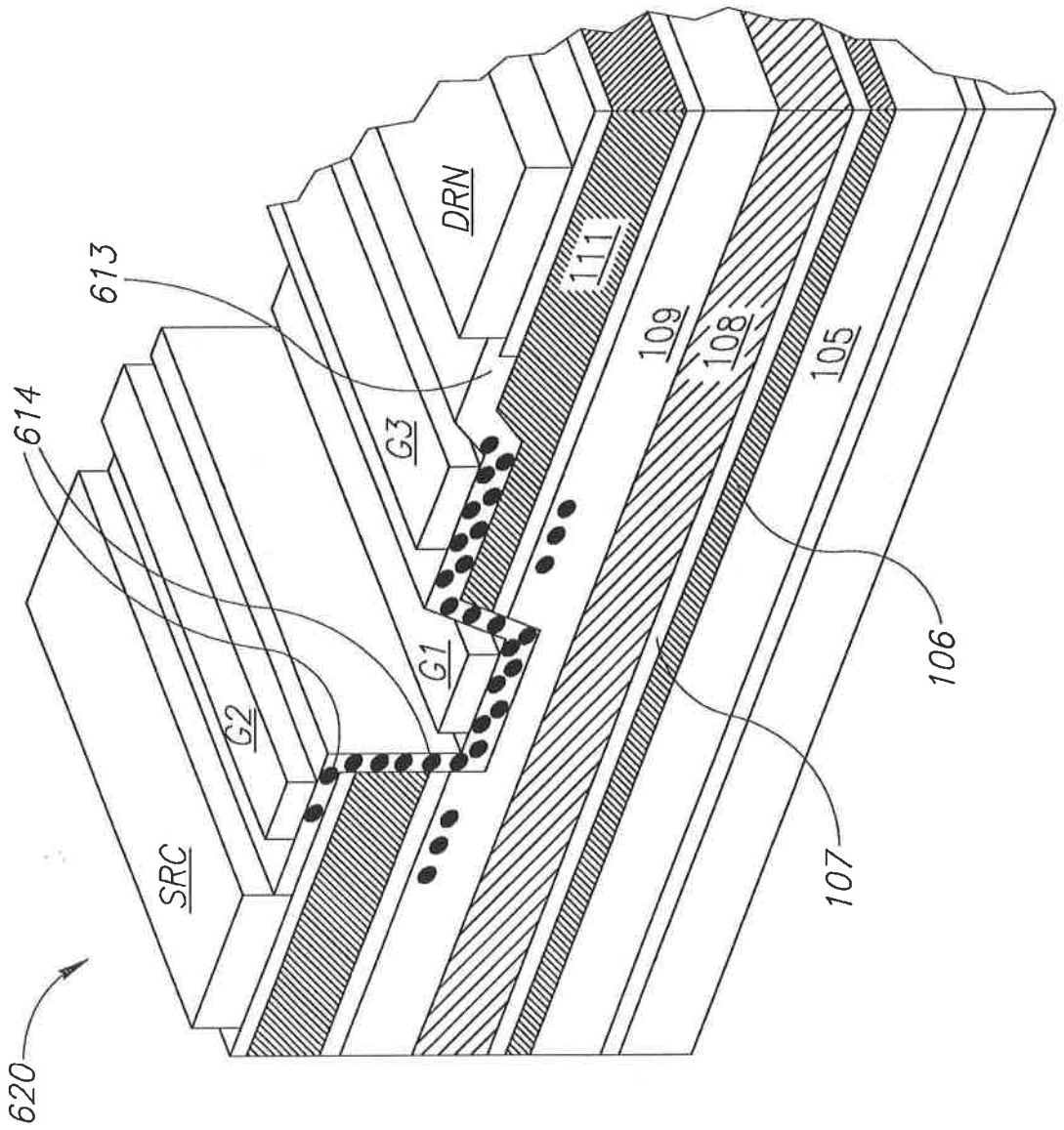


FIG.3

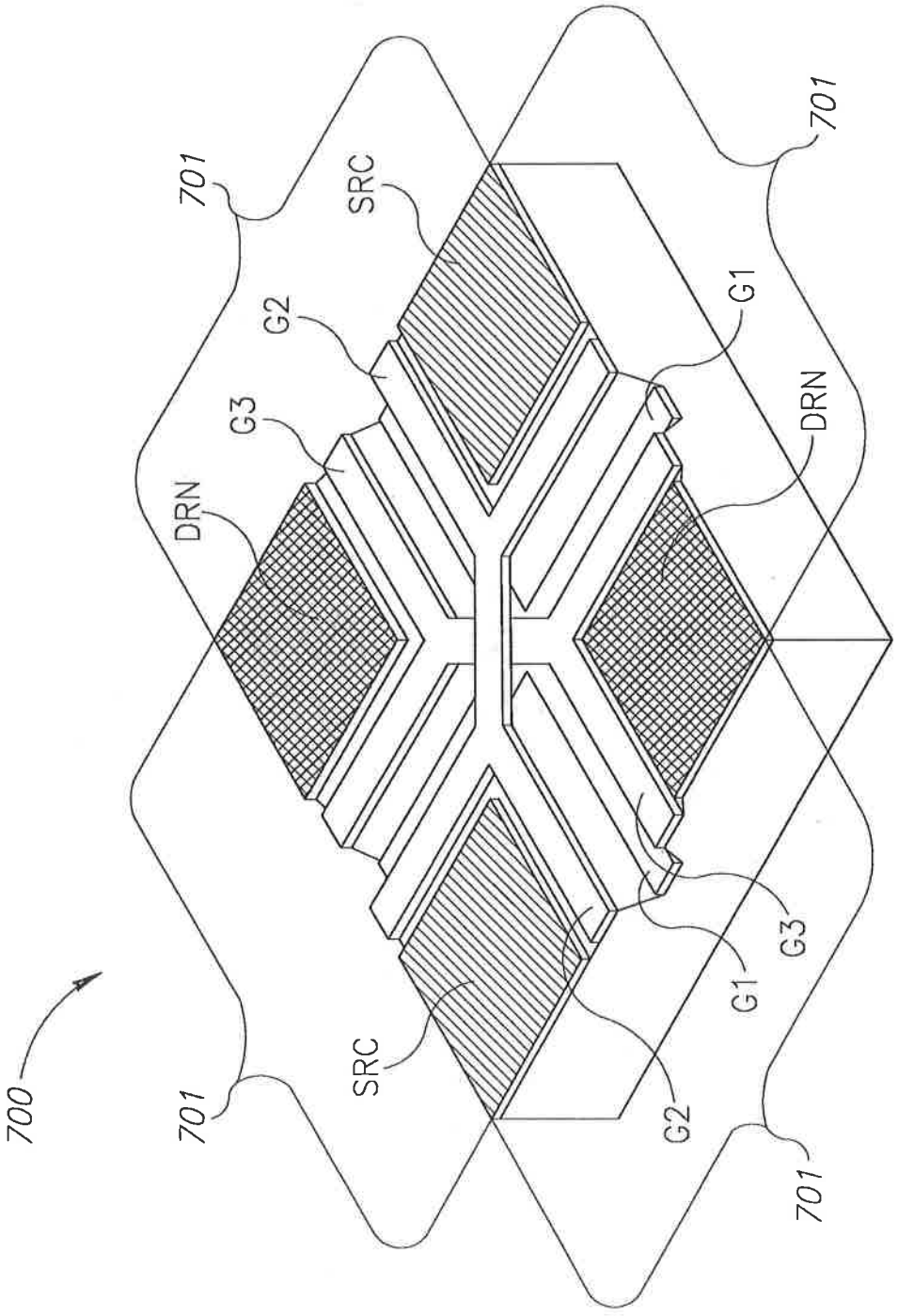


FIG.4A

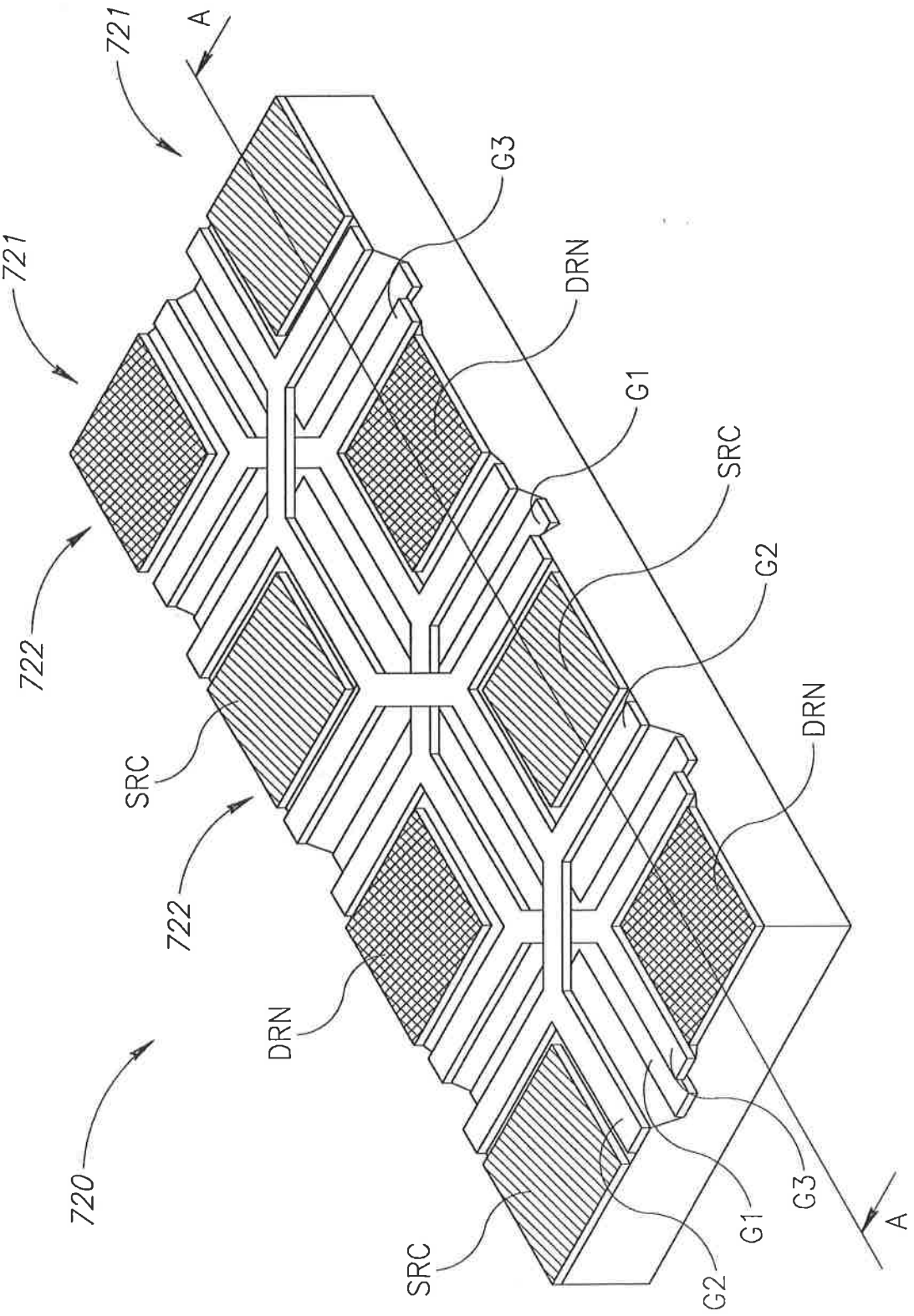


FIG.4B

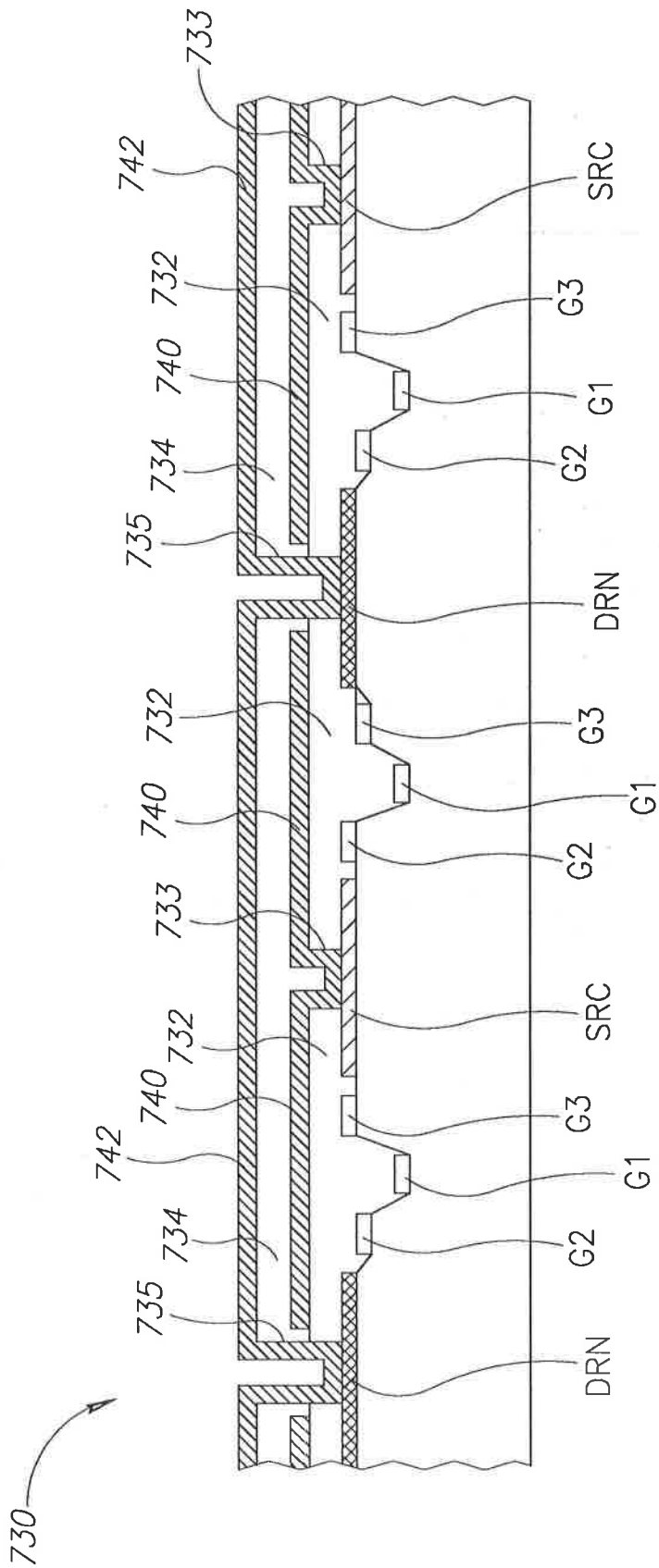

730
733
742
732
740
734
735
SRC
G3
G1
G2
DRN
732
740
733
732
740
742
734
735
G3
G1
G2
SRC
G3
G1
G2
DRN
A-A

FIG.4C

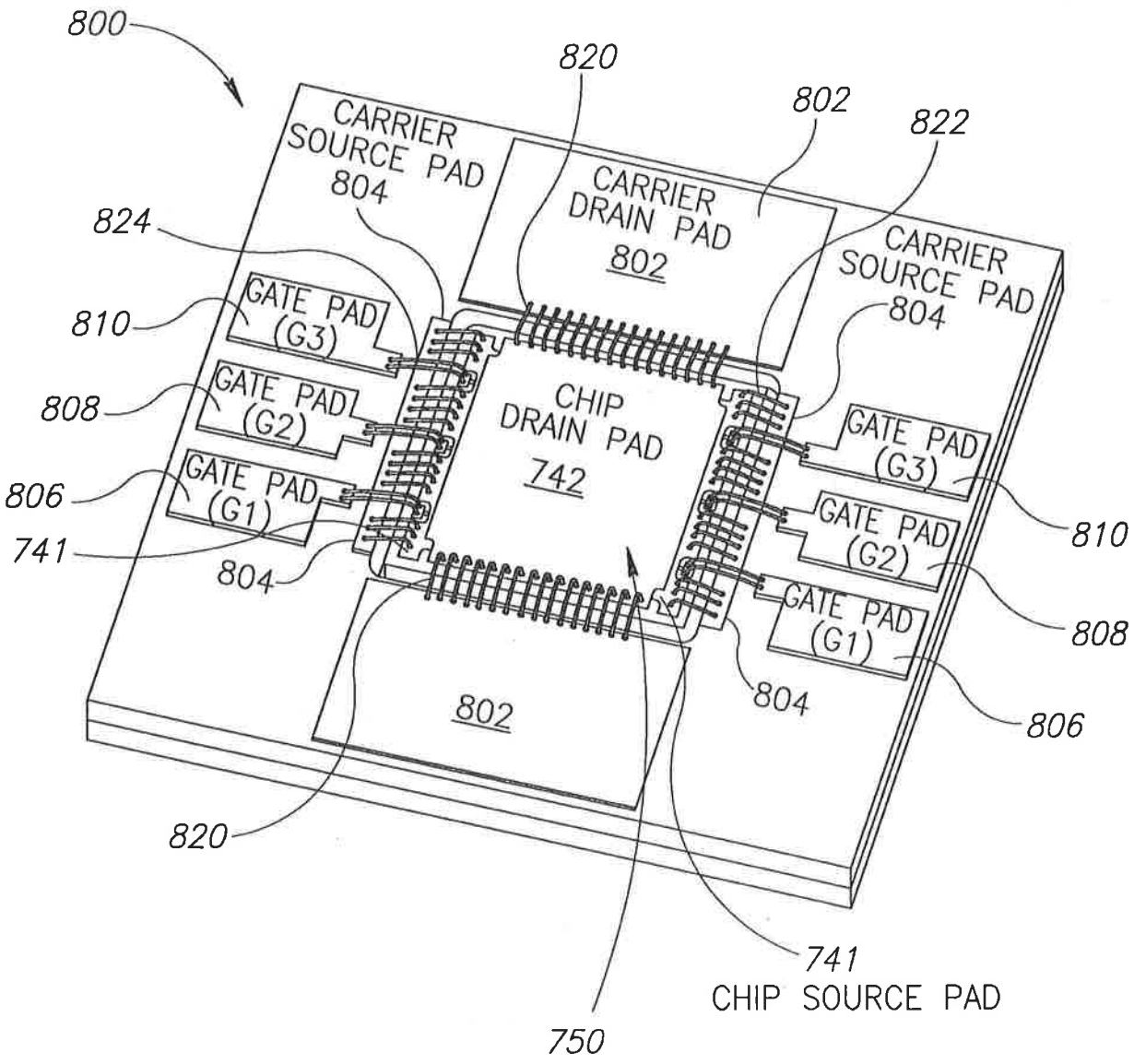

800
820
802
822
CARRIER SOURCE PAD
804
CARRIER DRAIN PAD
802
CARRIER SOURCE PAD
824
804
GATE PAD (G3)
810
GATE PAD (G2)
808
GATE PAD (G1)
806
741
804
CHIP DRAIN PAD
742
GATE PAD (G3)
GATE PAD (G2)
GATE PAD (G1)
810
808
806
804
802
820
750
741
CHIP SOURCE PAD

FIG.4D

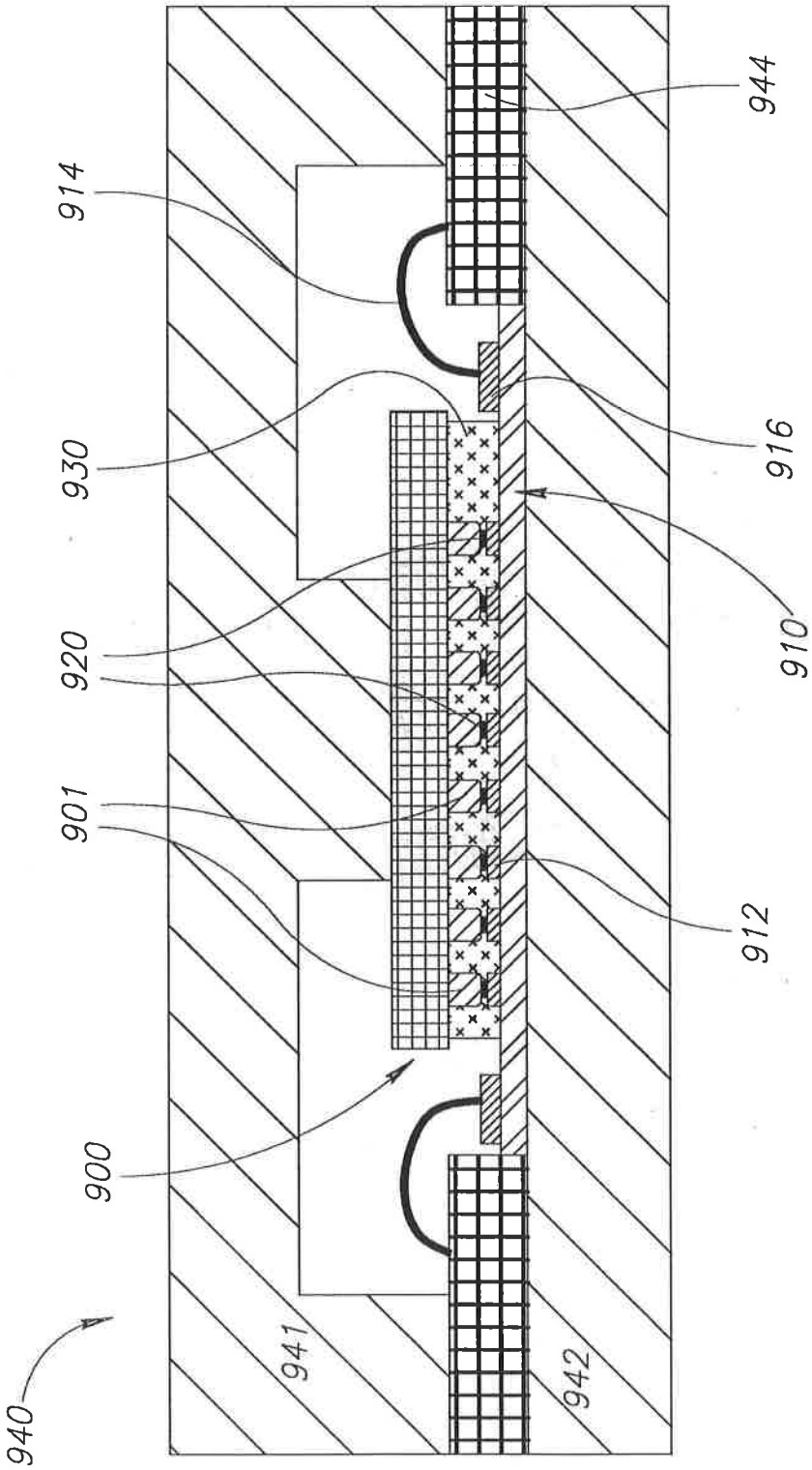


FIG.5