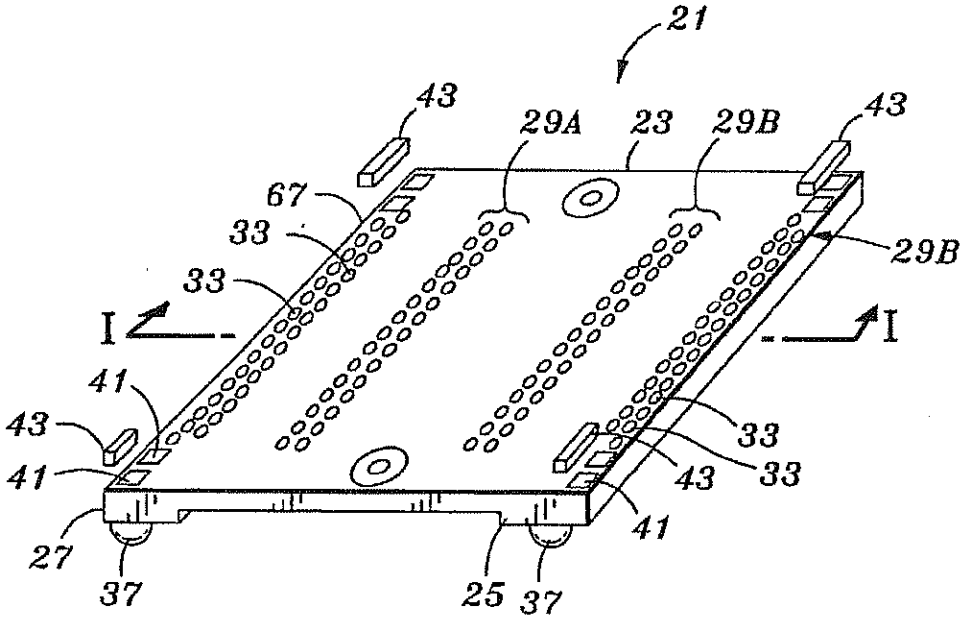

21
43
29A
23
29B
43
67
33
33
29B
I
I
41
43
41
33
43
33
41
27
37
25
37

FIG. 1

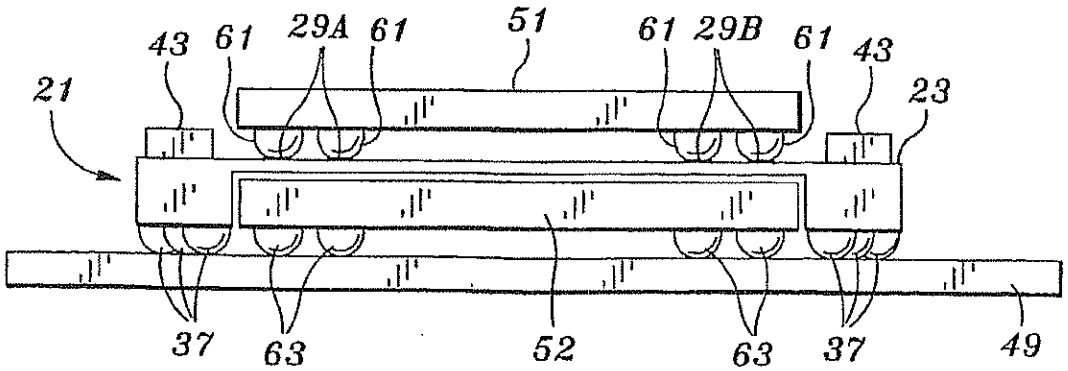

43
61
29A
61
51
61
29B
61
43
21
23
37
63
52
63
37
49

FIG. 2

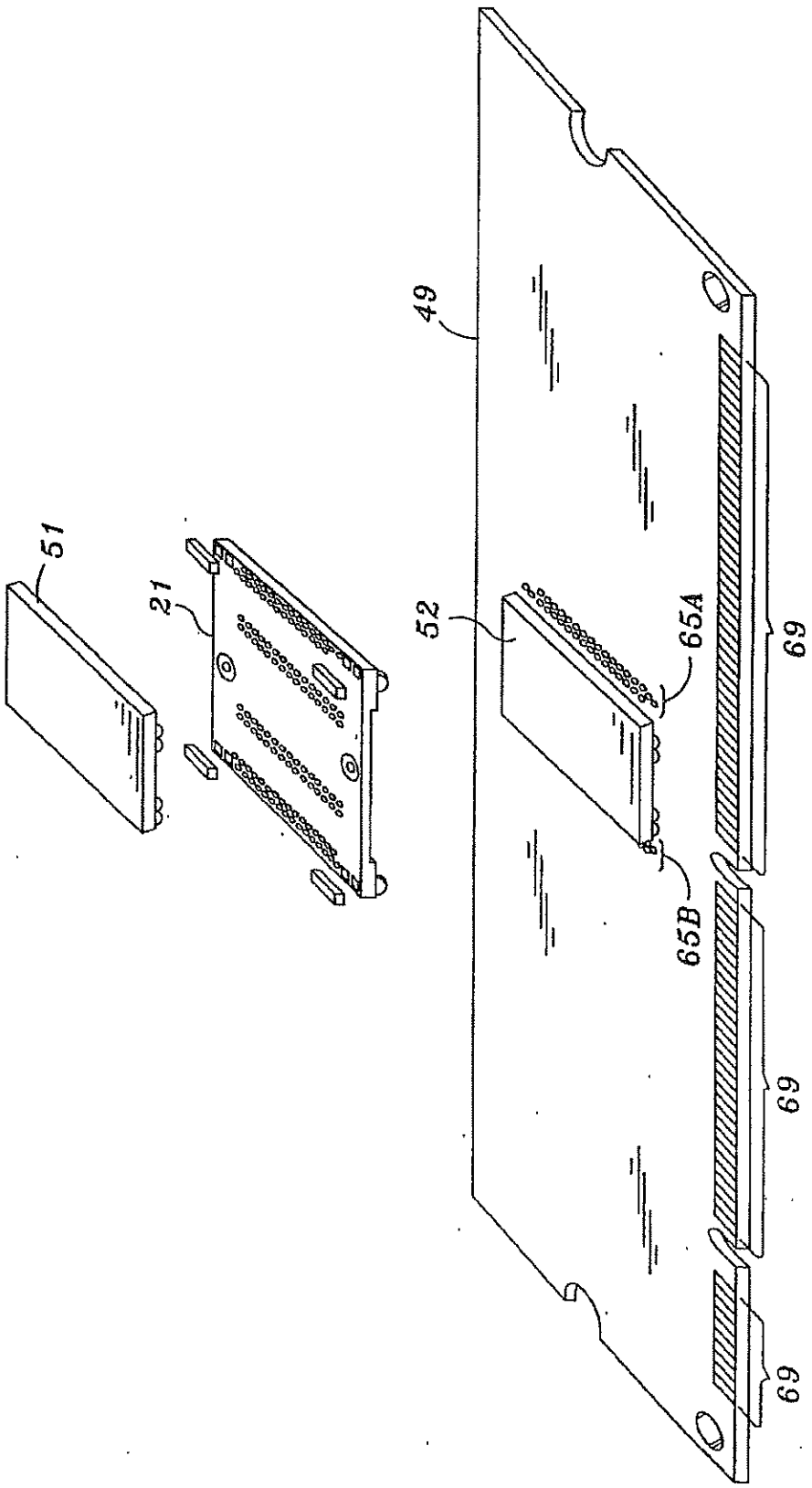


FIG. 3

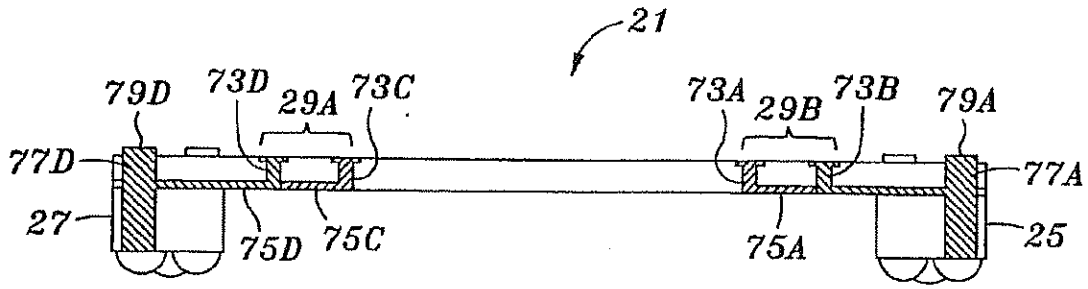


FIG. 4

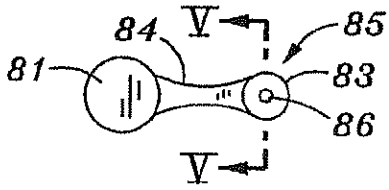


FIG. 5A

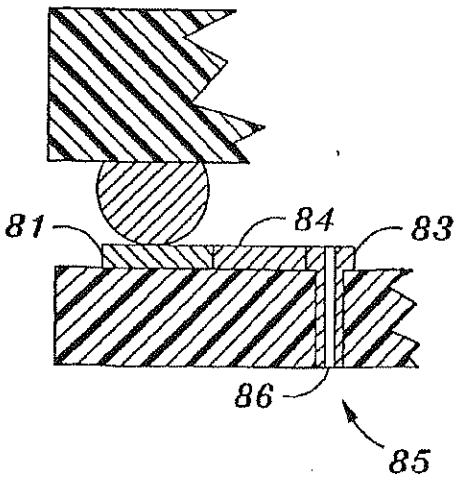


FIG. 5B

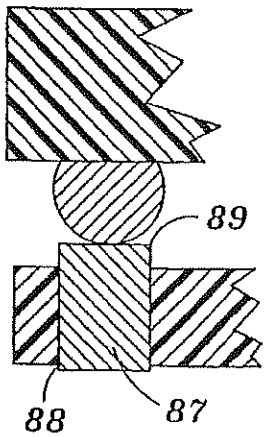


FIG. 5C

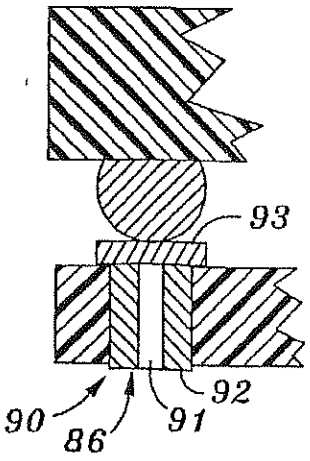


FIG. 5D

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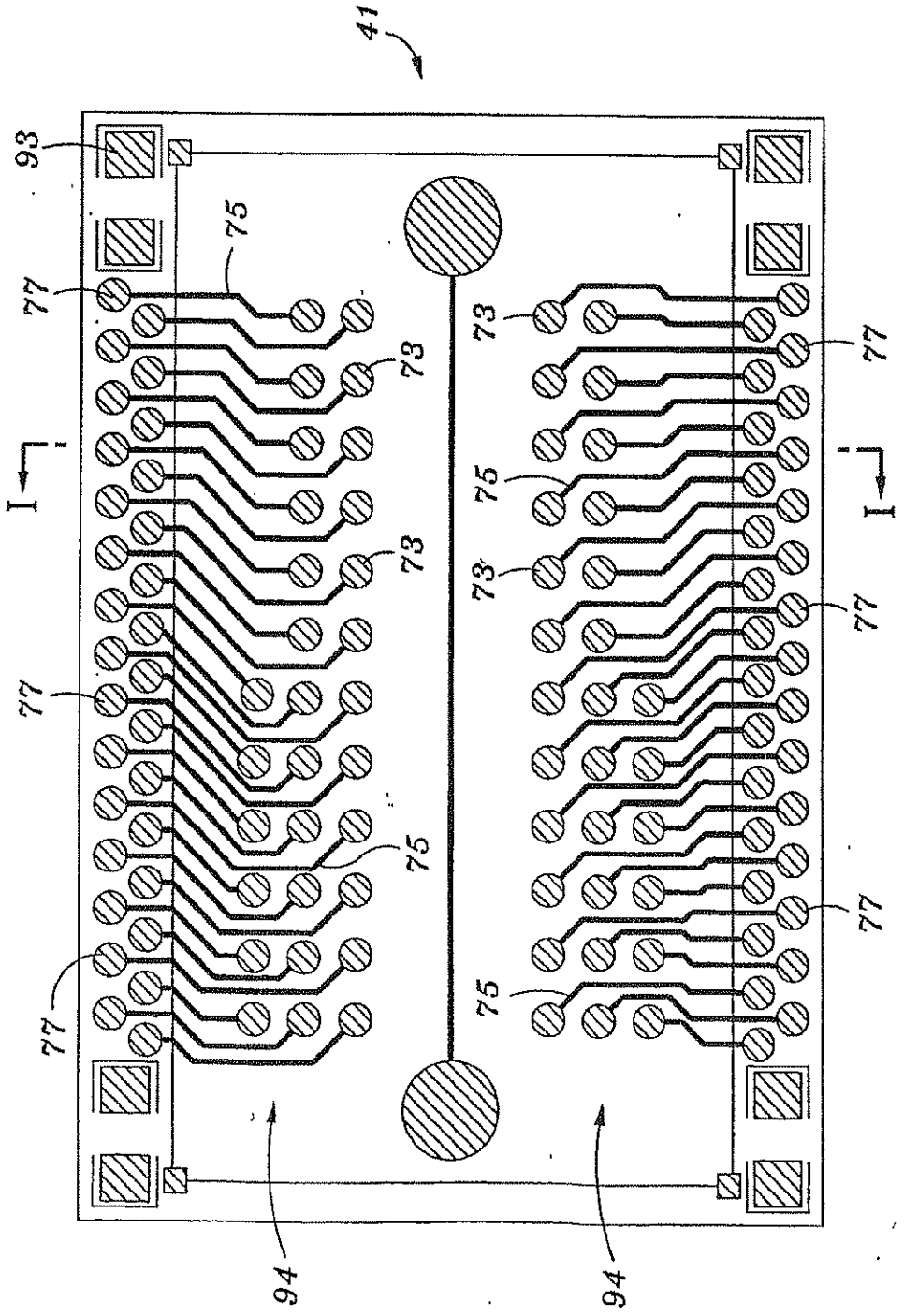


FIG. 6

14 AUG 2006

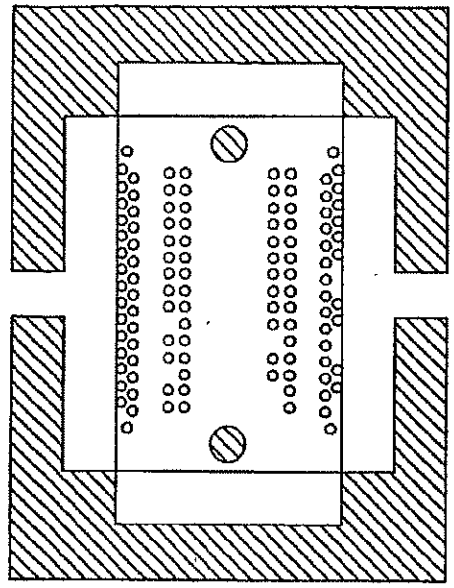


FIG. 7B

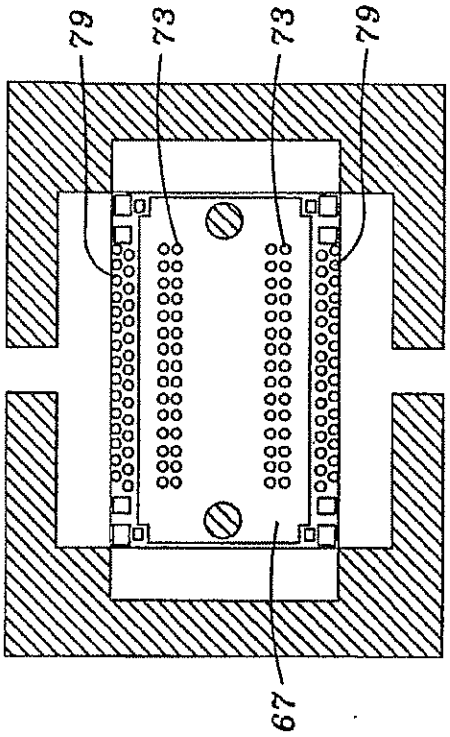


FIG. 7D

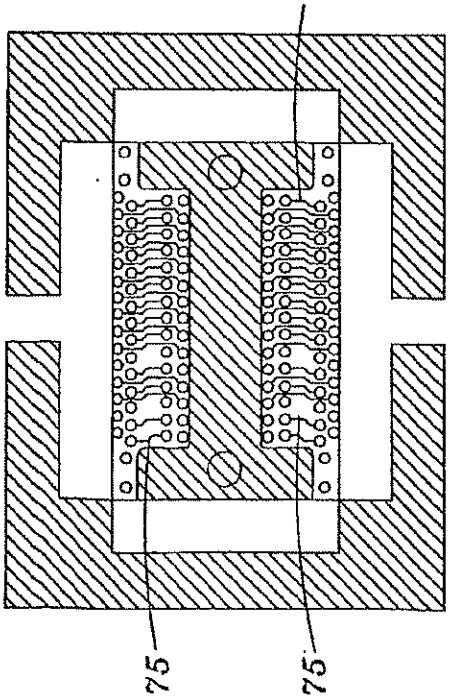


FIG. 7A

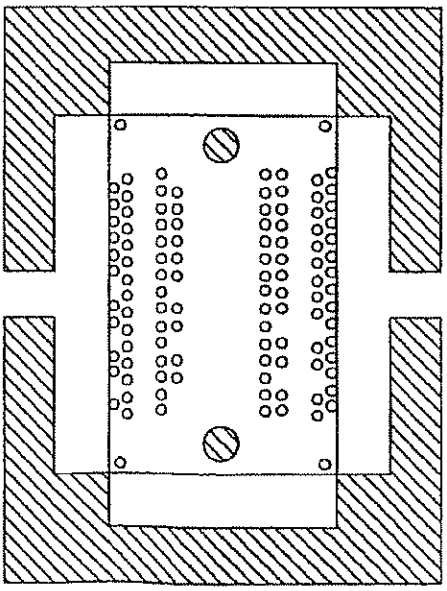


FIG. 7C

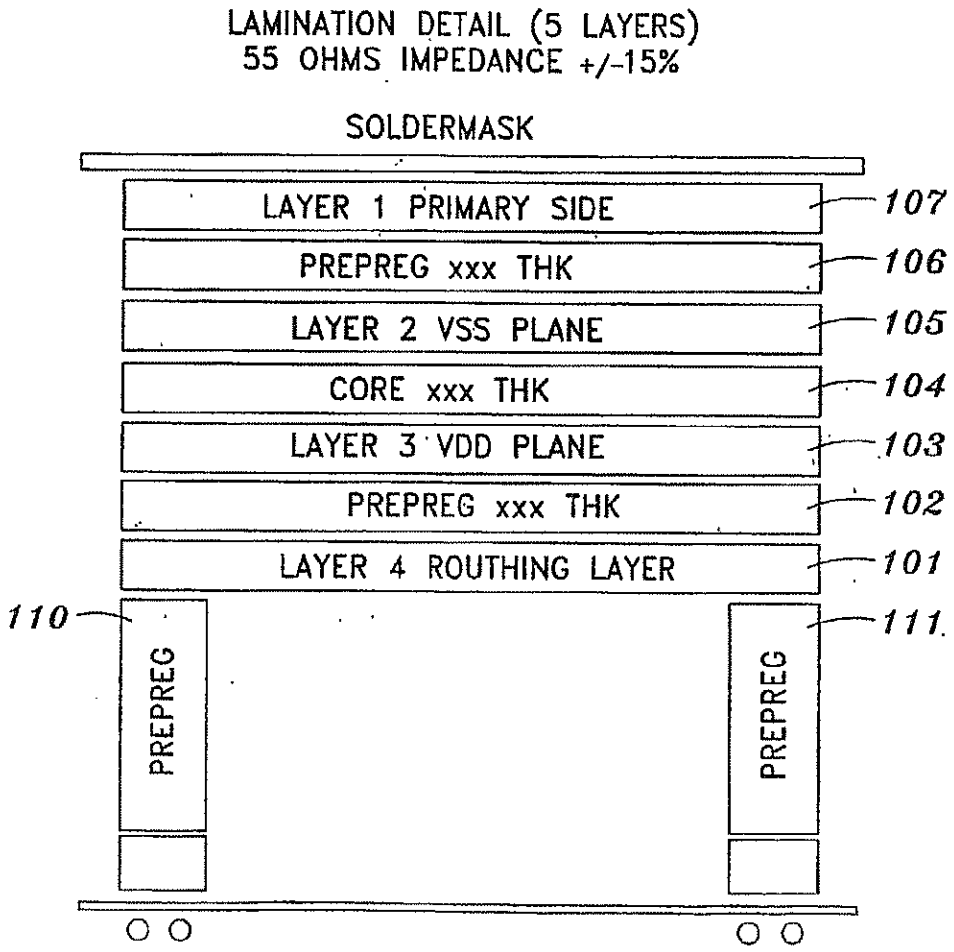

LAMINATION DETAIL (5 LAYERS)
55 OHMS IMPEDANCE +/-15%
SOLDERMASK
LAYER 1 PRIMARY SIDE
107
PREPREG xxx THK
106
LAYER 2 VSS PLANE
105
CORE xxx THK
104
LAYER 3 VDD PLANE
103
PREPREG xxx THK
102
LAYER 4 ROUTHING LAYER
101
110
PREPREG
111
PREPREG

FIG. 8A

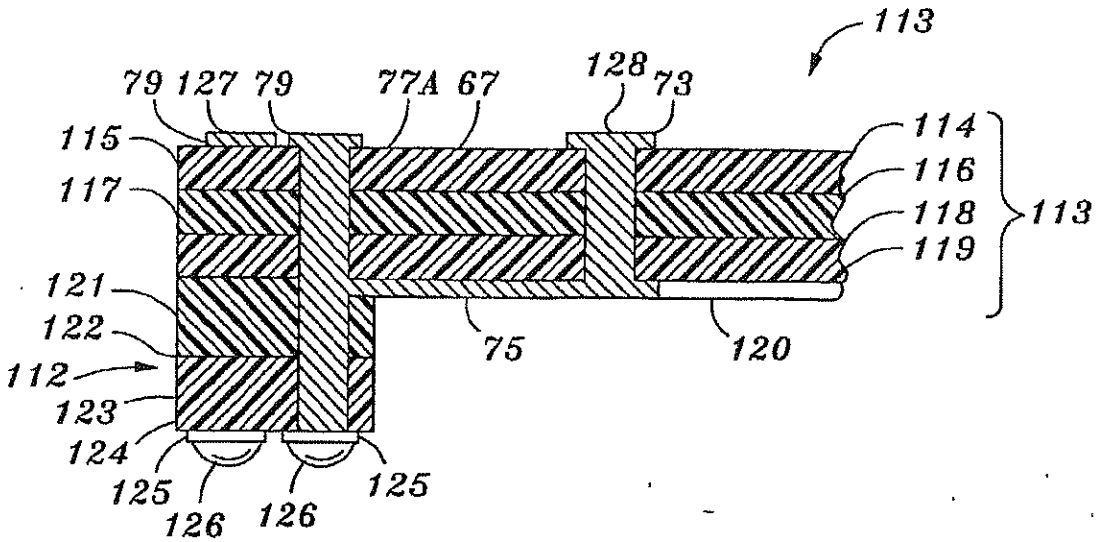

113
79
127
79
77A
67
128
73
115
117
121
122
112
123
124
125
126
126
125
75
120
114
116
118
119
113

FIG. 8B

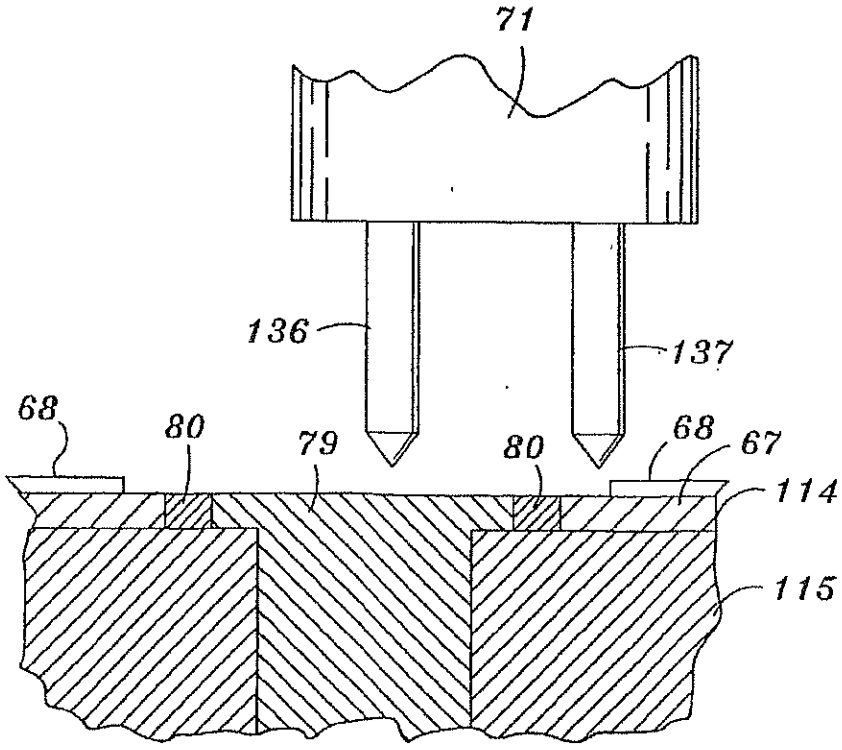

71
136
137
68
80
79
80
68
67
114
115

FIG. 8C

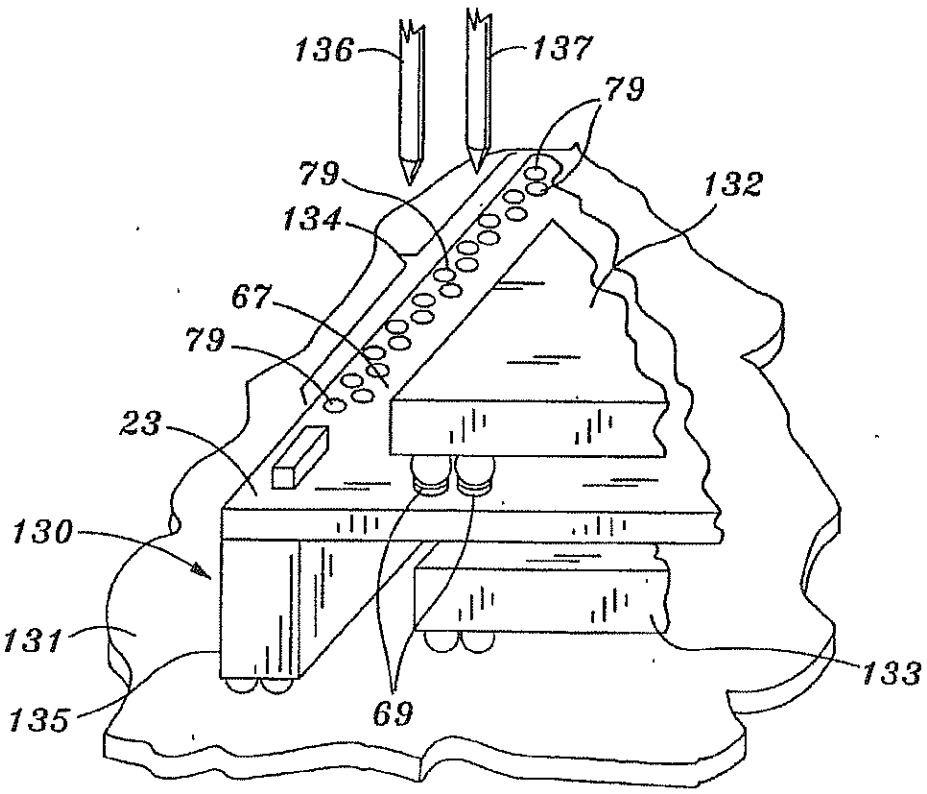


FIG. 9

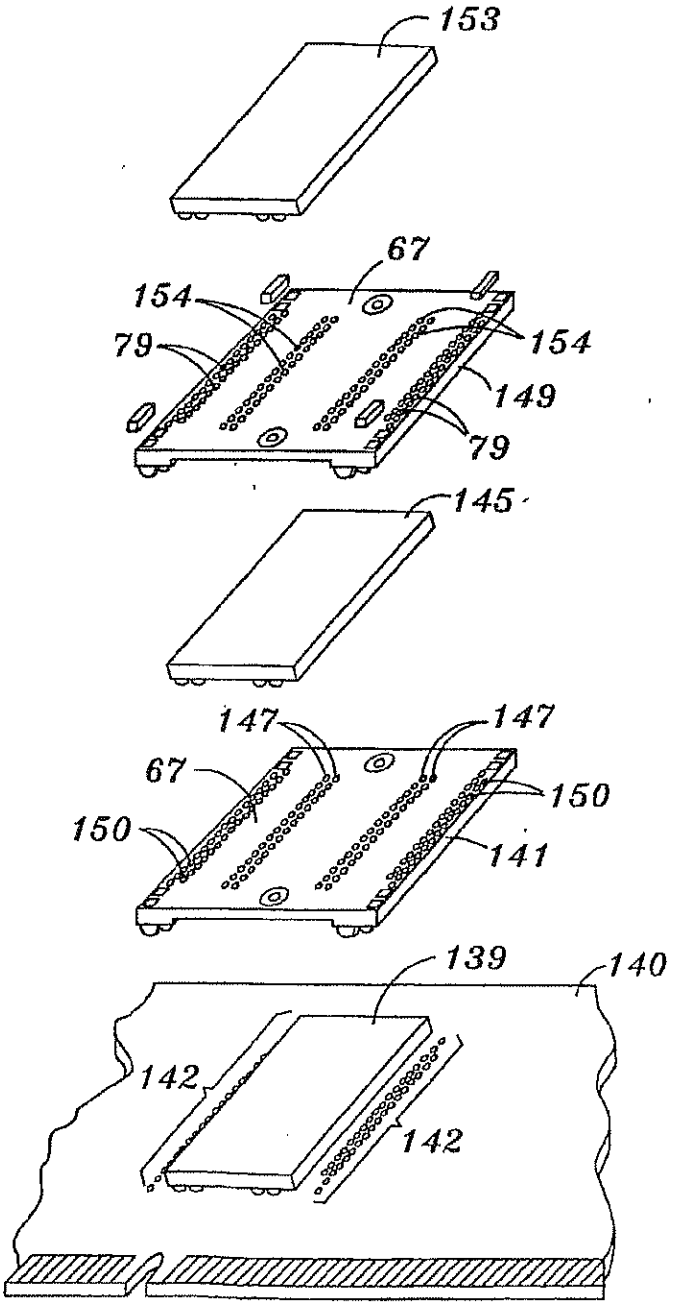

153
67
154
79
154
149
79
145
147
147
67
150
150
141
139
140
142
142

FIG. 10

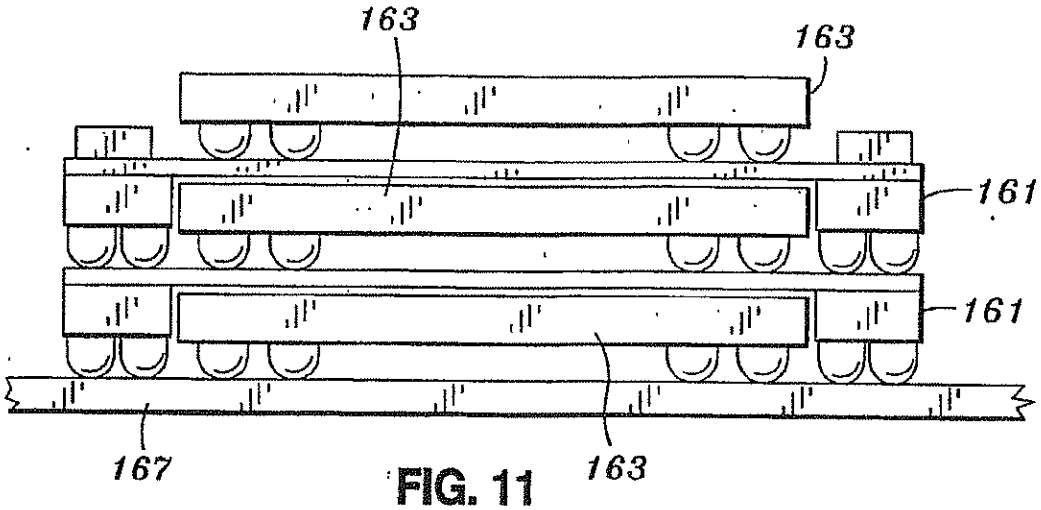


FIG. 11

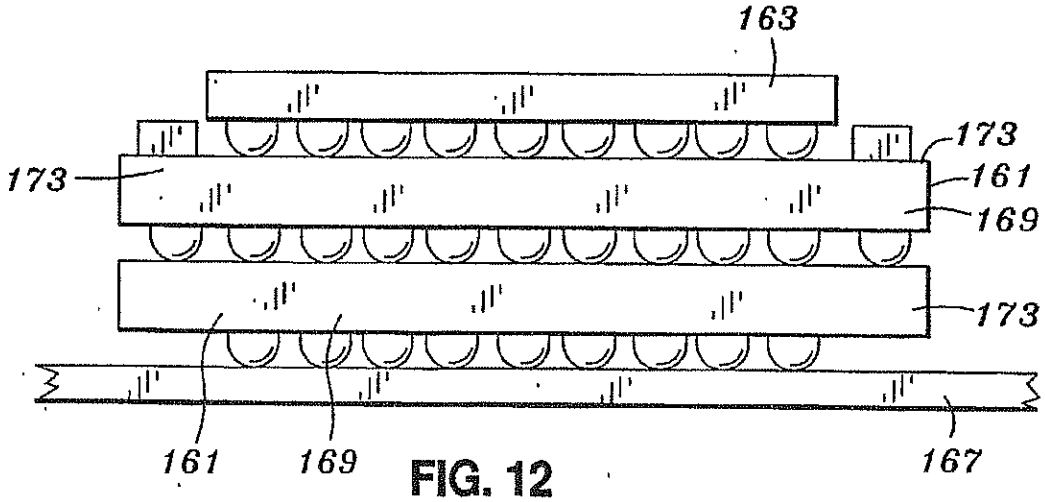


FIG. 12

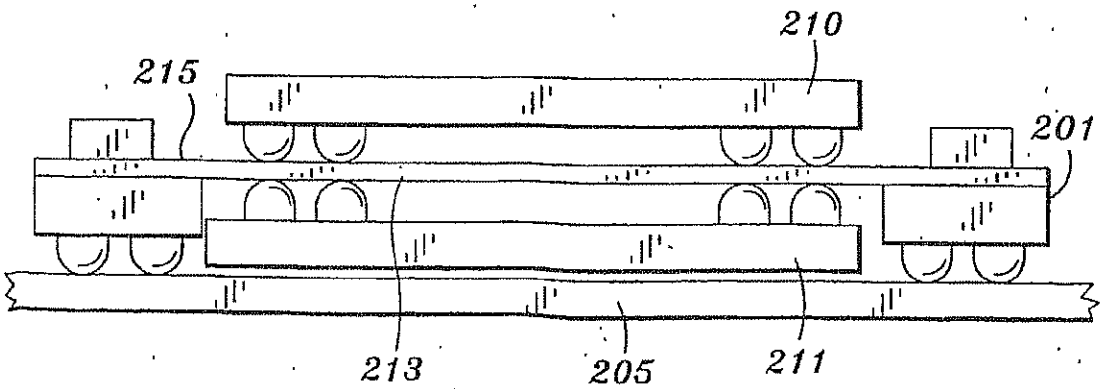


FIG. 13

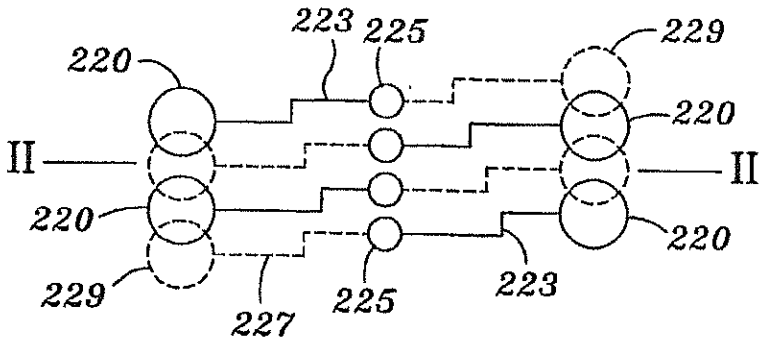

223
225
229
220
220
II
II
220
220
229
227
225
223

FIG. 14

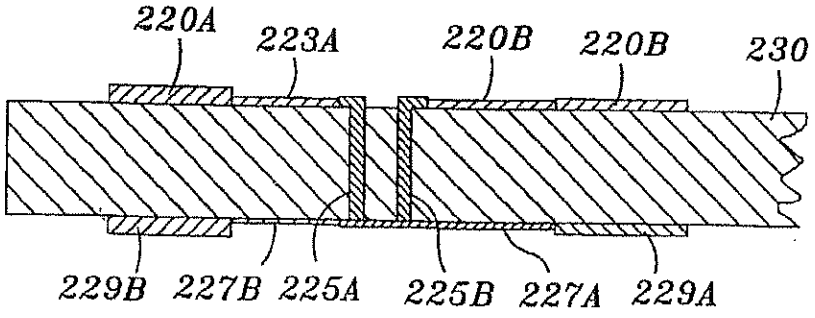

220A
223A
220B
220B
230
229B
227B
225A
225B
227A
229A

FIG. 15

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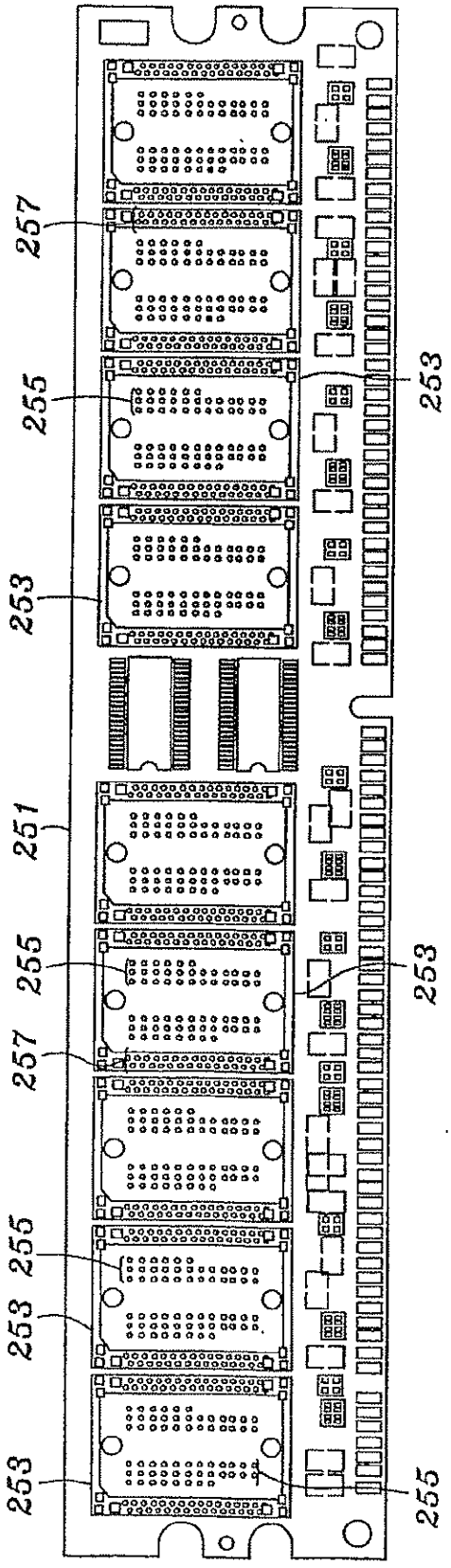


FIG. 16

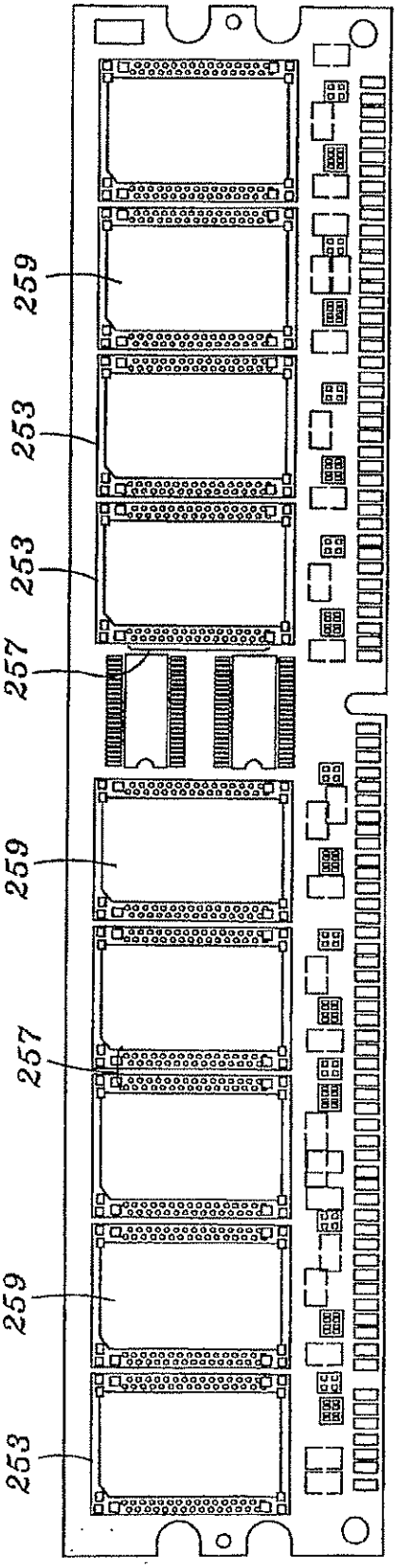


FIG. 17

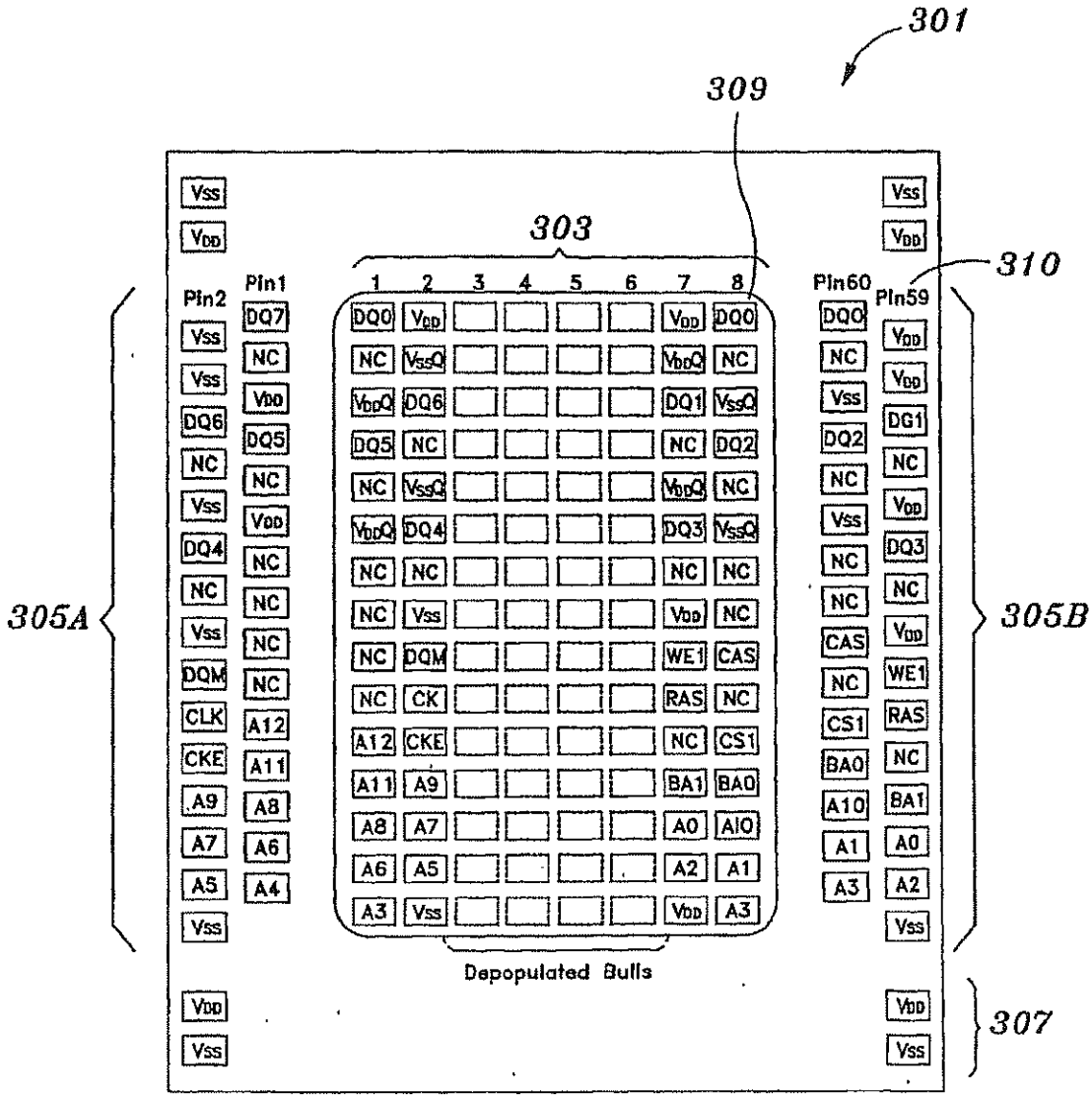

301
309
303
310
305A
305B
307
Pin1
Pin2
Pin59
Pin60
1 2 3 4 5 6 7 8
Depopulated Balls

FIG. 18

Pin Conversion Table

Conopy™ Pin#	Conopy™ Signal	FBGA Pin#	FBGA Signal	Conopy™ Pin#	Conopy™ Signal	FBGA Pin#	FBGA Signal	Conopy™ Pin#	Conopy™ Signal	FBGA Pin#	FBGA Signal	Conopy™ Pin#	Conopy™ Signal	FBGA Pin#	FBGA Signal
1	DQ7	A1	DQ7	16	V_{SS}	H2	V_{SS}	31	V_{DD}	R7	V_{DD}	46	NC	H8	NC
2	V_{SS}	A2	V_{SS}	17	NC	J1	NC	32	A3	R8	A3	47	NC	G7	NC
3	NC	B1	NC	18	DQM	J2	DQM	33	A2	P7	A2	48	NC	G8	NC
4	V_{SS}	B2	$V_{SS}Q$	19	NC	K1	NC	34	A1	P8	A1	49	DQ3	F7	DQ3
5	V_{DD}	C1	$V_{DD}Q$	20	CK	K2	CK	35	A0	N7	A0	50	V_{SS}	F8	$V_{SS}Q$
6	DQ6	C2	DQ6	21	A12	L1	A12	36	A10	NB	A10	51	V_{DD}	E7	$V_{DD}Q$
7	DQ5	D1	DQ5	22	CKE	L2	CKE	37	BA1	M7	BA1	52	NC	E8	NC
8	NC	D2	NC	23	A11	M1	A11	38	BA0	NC	BA0	53	NC	D7	NC
9	NC	E1	NC	24	A9	M2	A9	39	NC	L7	NC	54	DQ2	D8	DQ2
10	V_{SS}	E2	$V_{SS}Q$	25	A8	N1	A8	40	C5#	L8	CS#	55	DQ1	C7	DQ1
11	V_{DD}	F1	VQ3	26	A7	N2	A7	41	RAS	K7	RAS	56	V_{SS}	C8	$V_{SS}Q$
12	DQ4	F2	DQ4	27	A6	P1	A6	42	NC	K8	NC	57	V_{DD}	B7	V_{DD}
13	NC	G1	NC	28	A5	P2	A5	43	WE#	J7	WE#	58	NC	B8	NC
14	NC	G2	NC	29	A4	R1	A4	44	CAS#	J8	CAS#	59	V_{DD}	A7	$V_{DD}Q$
15	NC	H1	NC	30	V_{SS}	R2	V_{SS}	45	V_{DD}	H7	V_{DD}	60	DQ0	A8	DQ0

FIG. 19

14 AUG 2006

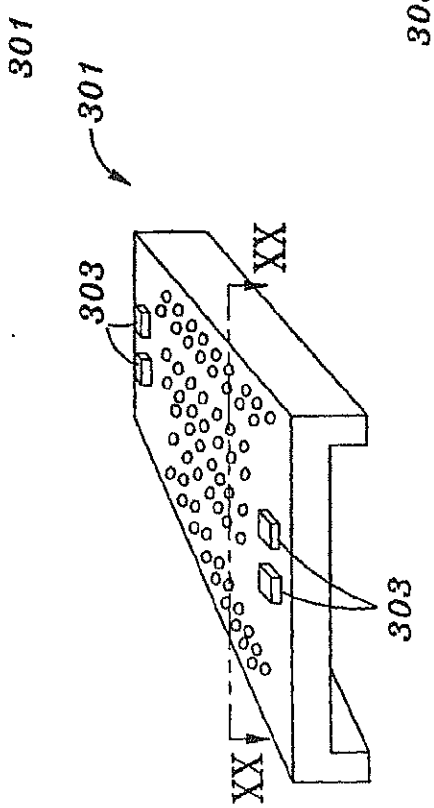


FIG. 21

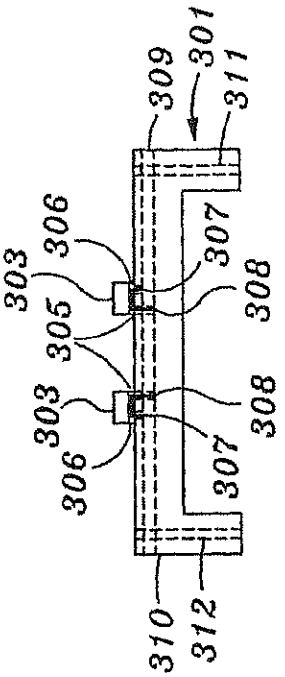


FIG. 21A

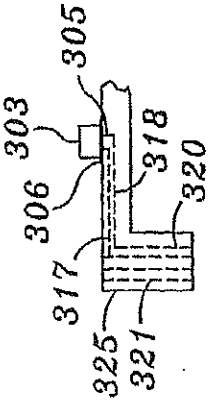


FIG. 21B

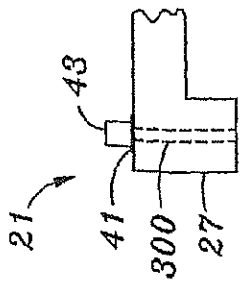


FIG. 20

14 AUG 2006

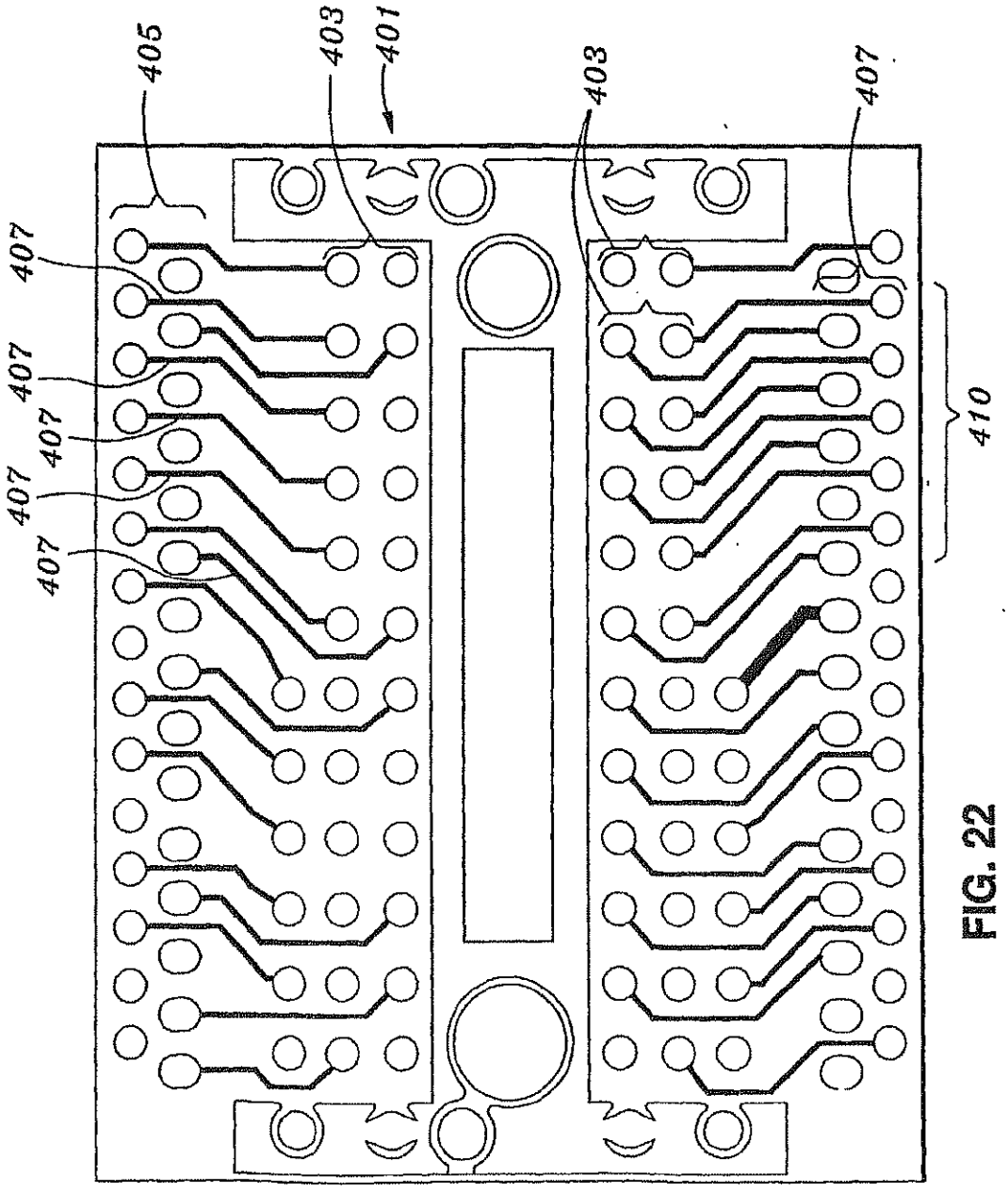


FIG. 22