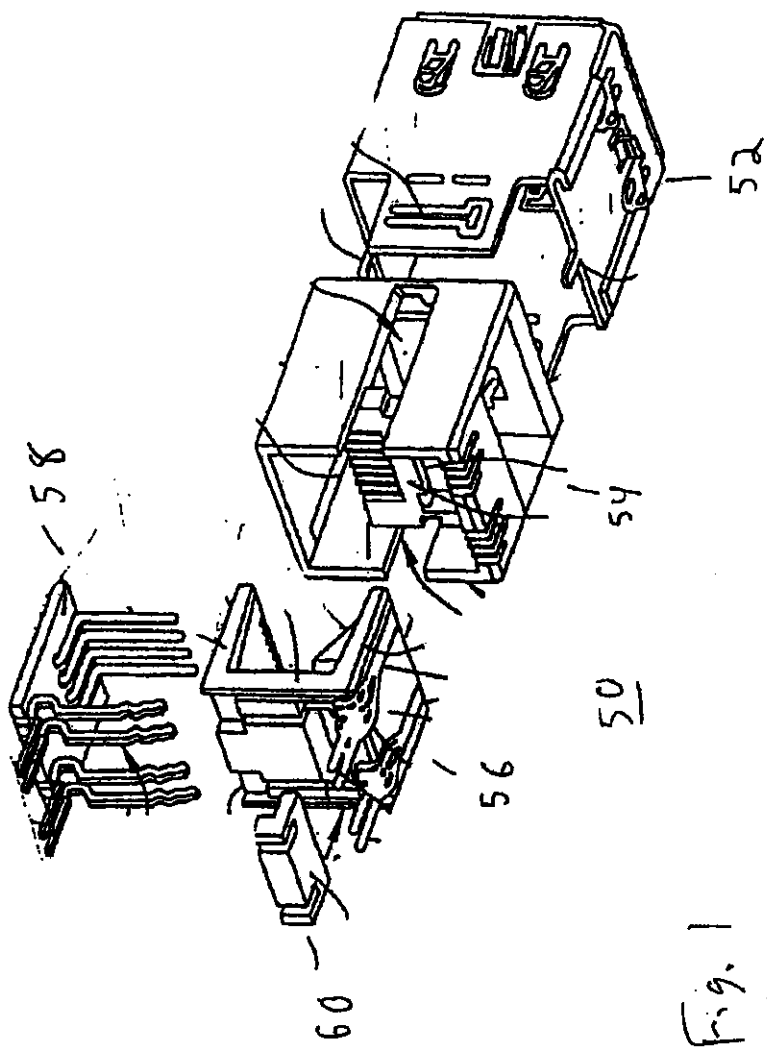


Fig. 1

- Prior Art -

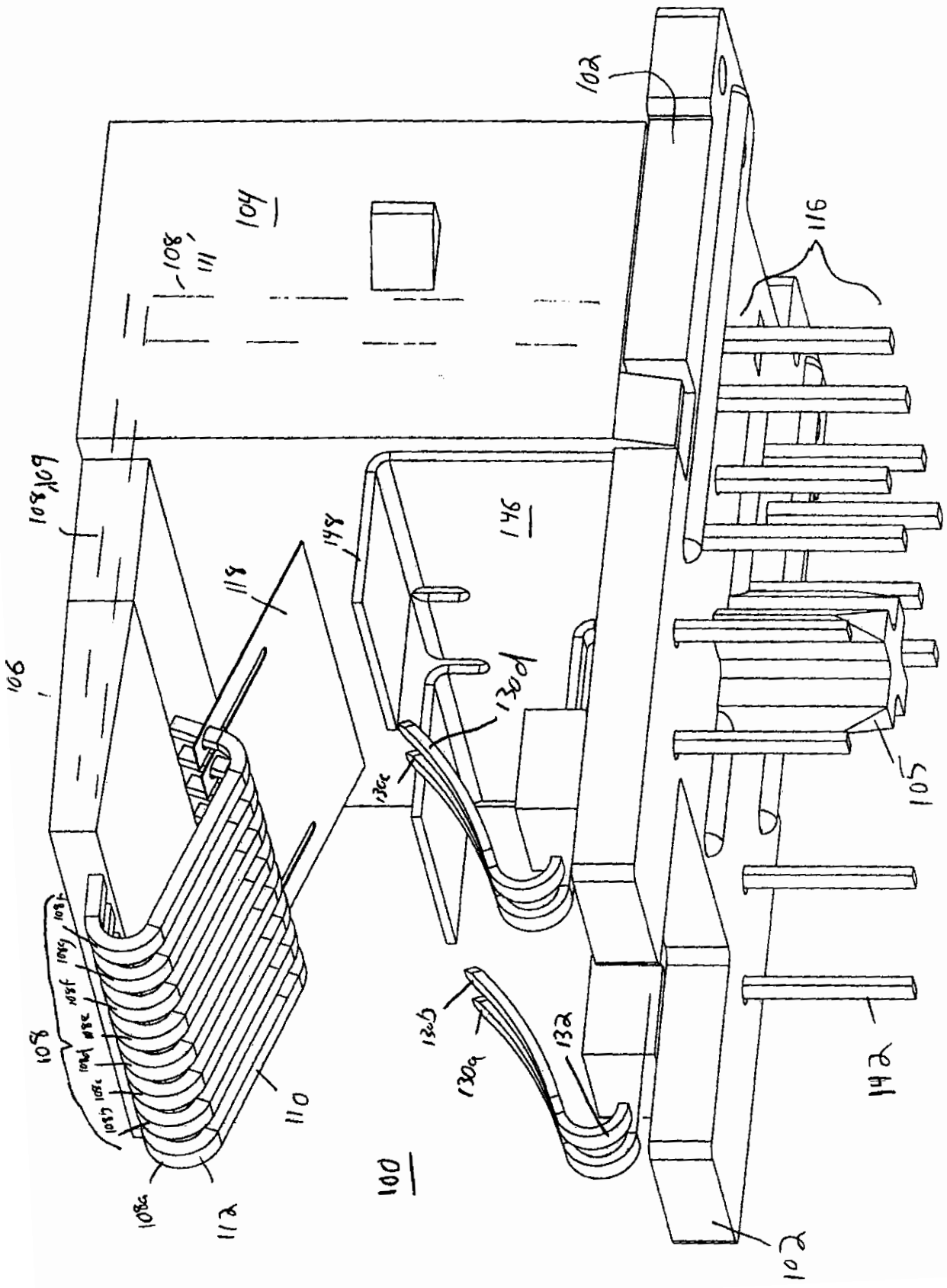

102
116
104
108'
111
108
109
106
148
146
118
130d
130c
105
130b
130a
132
142
110
108a
112
100
102

FIG. 2

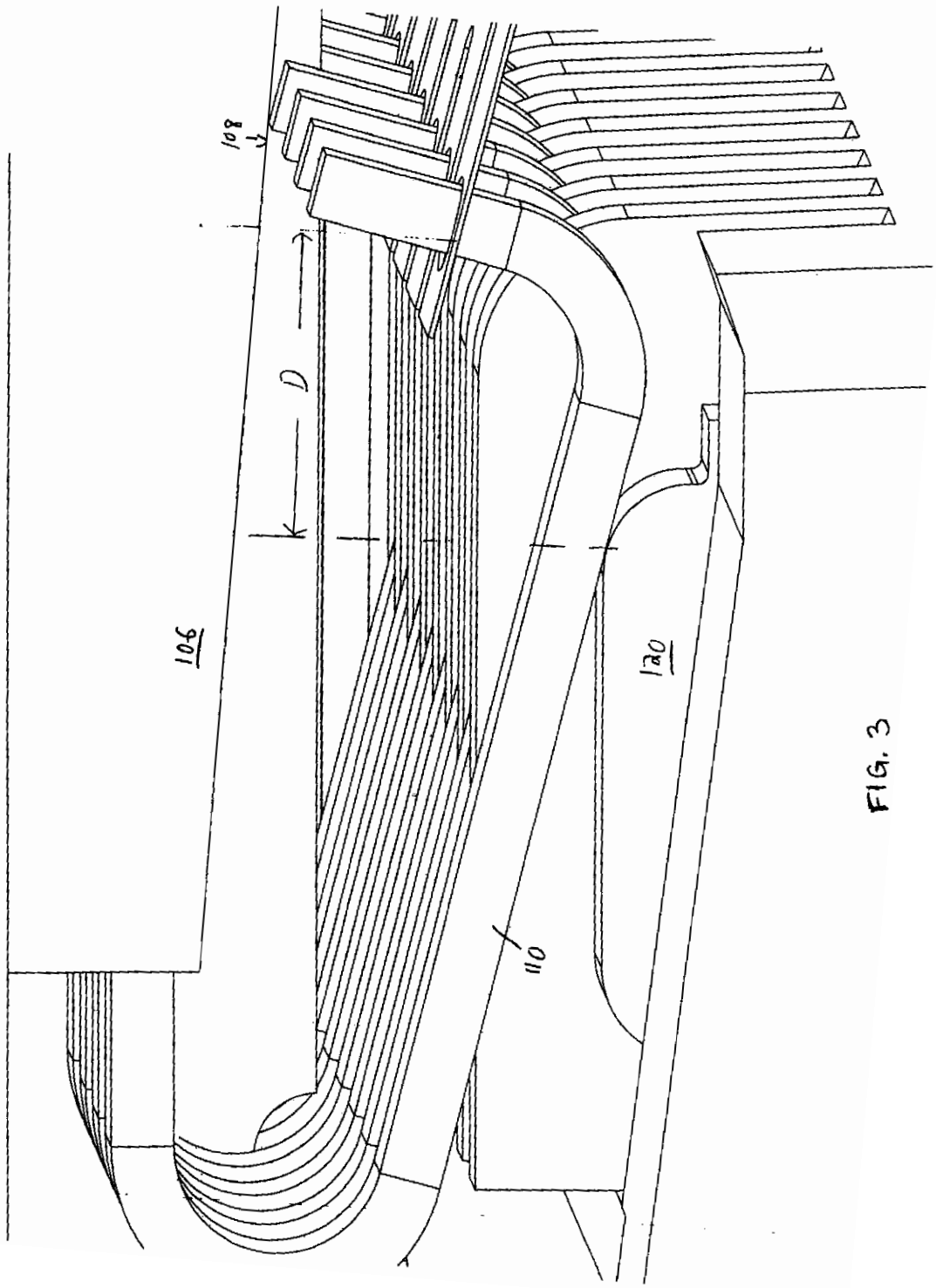


FIG. 3

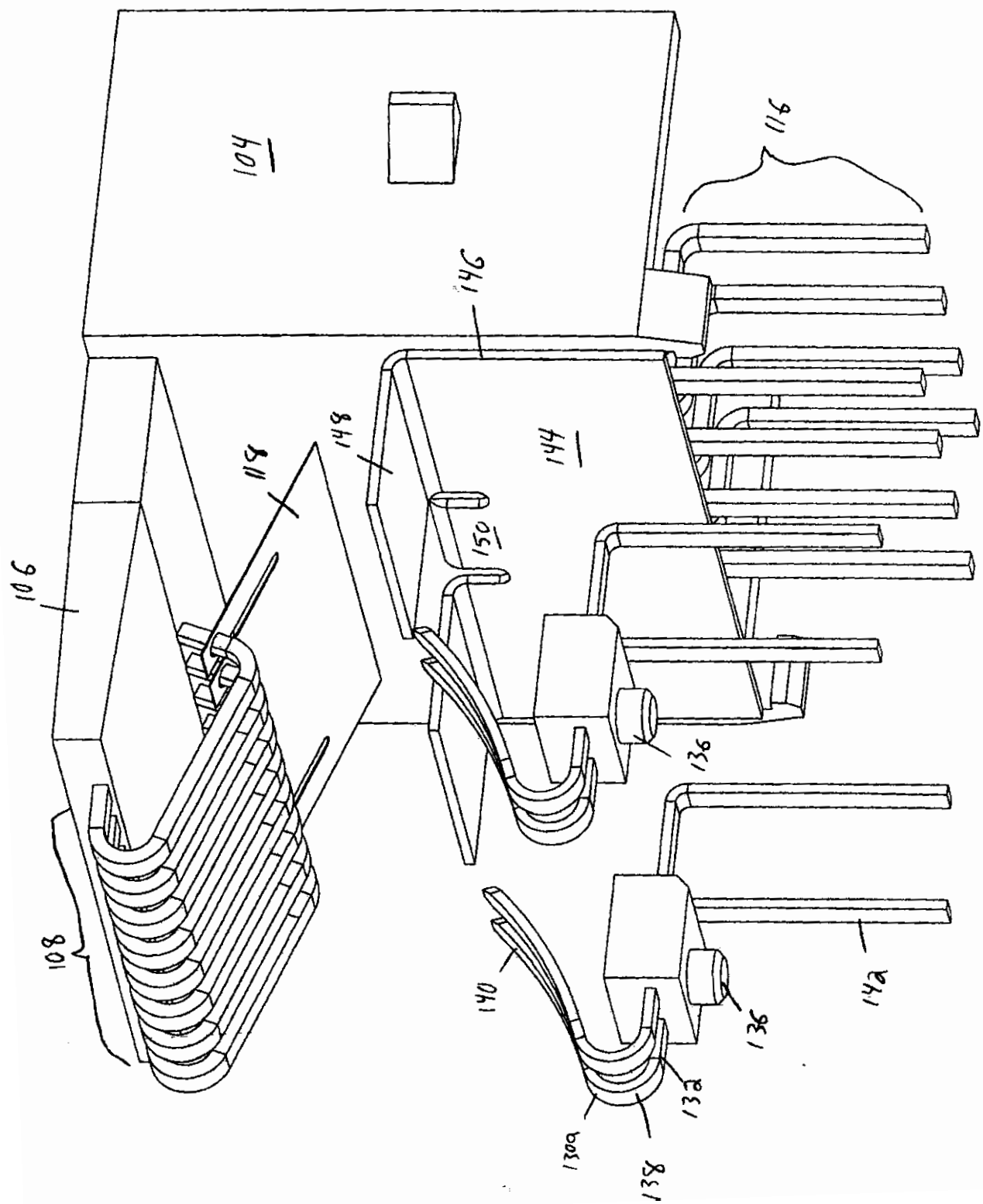

101
116
146
144
141
148
150
136
140
138a
138b
138
142
136
108
101

FIG. 4

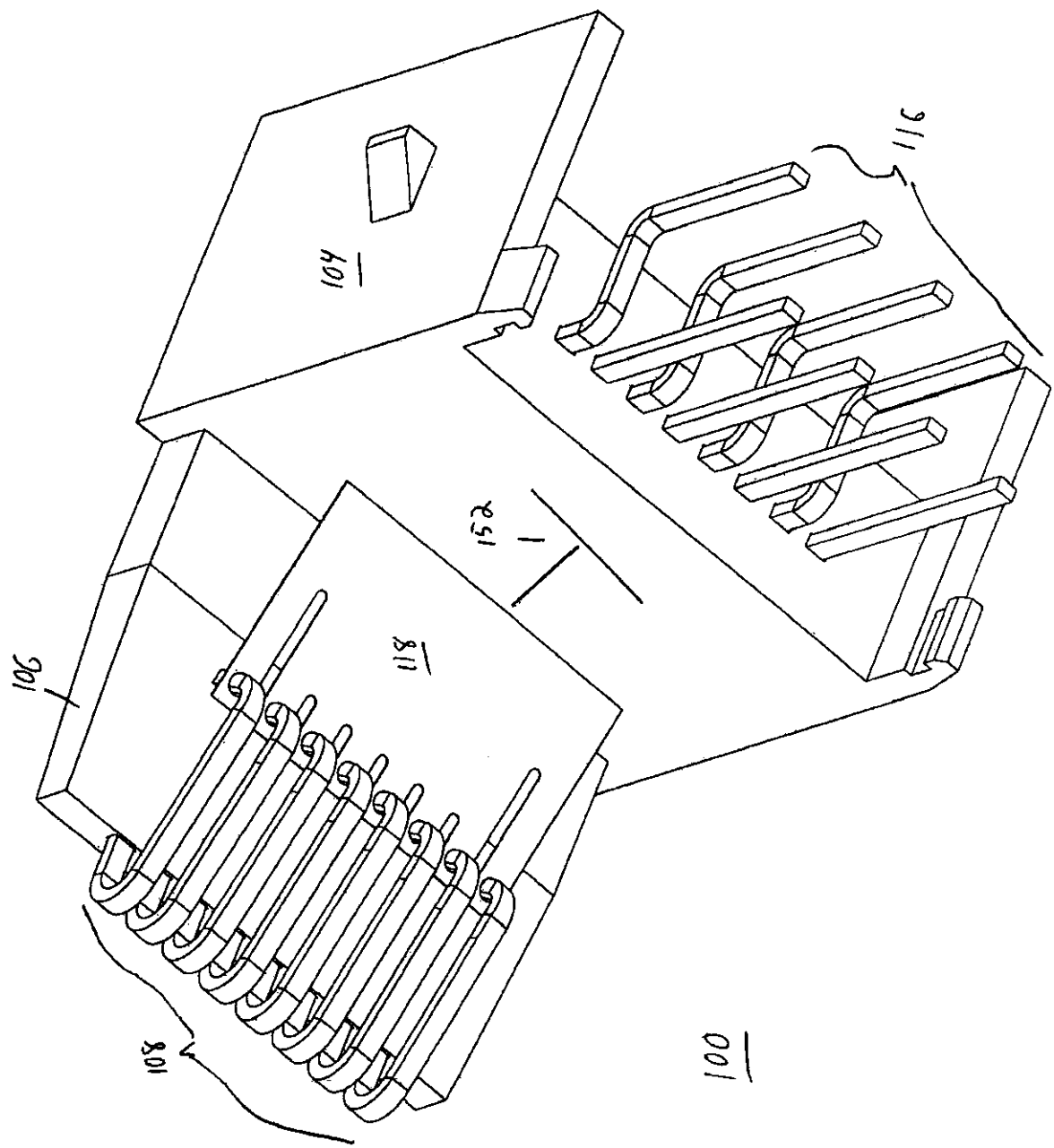


FIG. 5

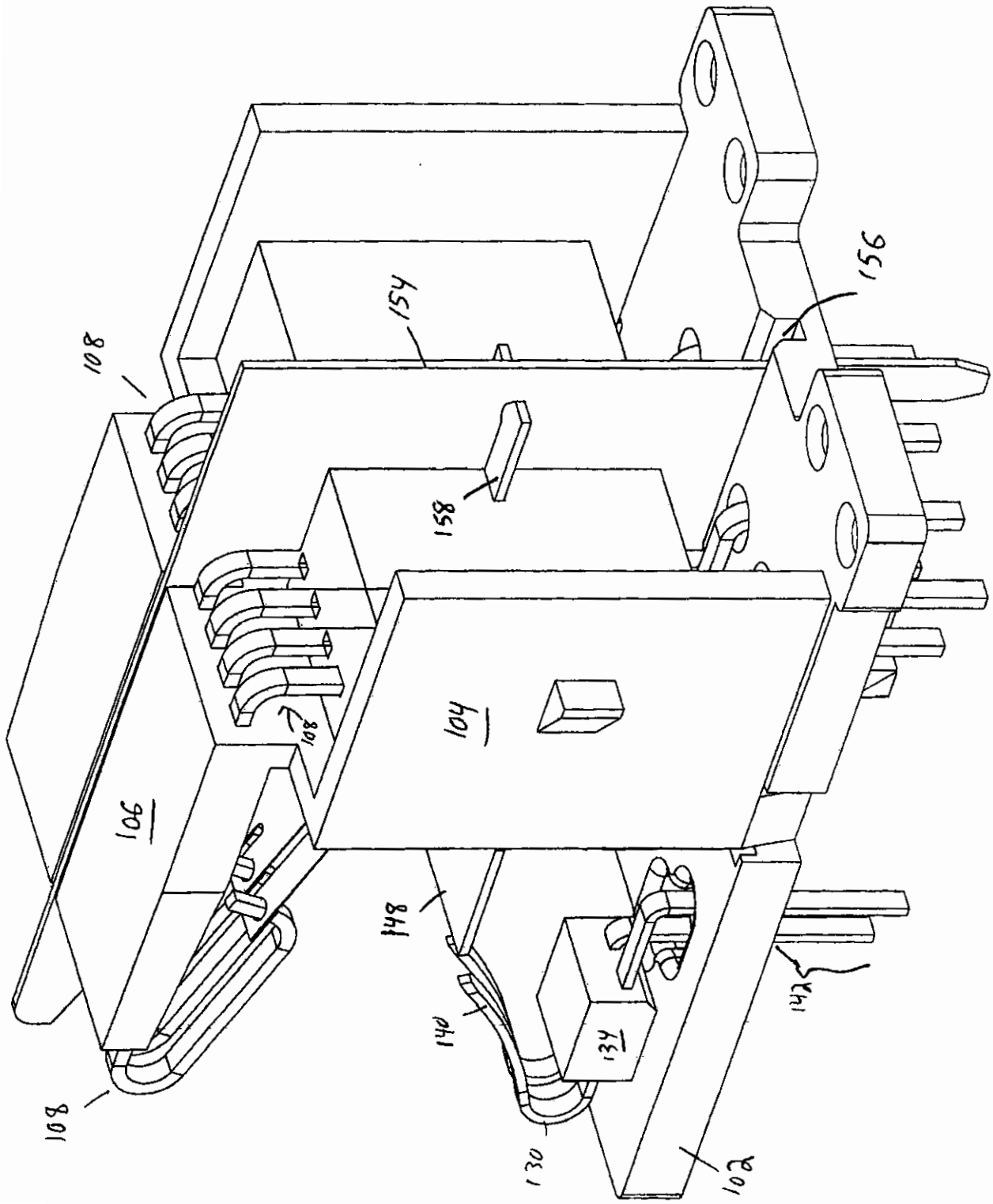


FIG. 6

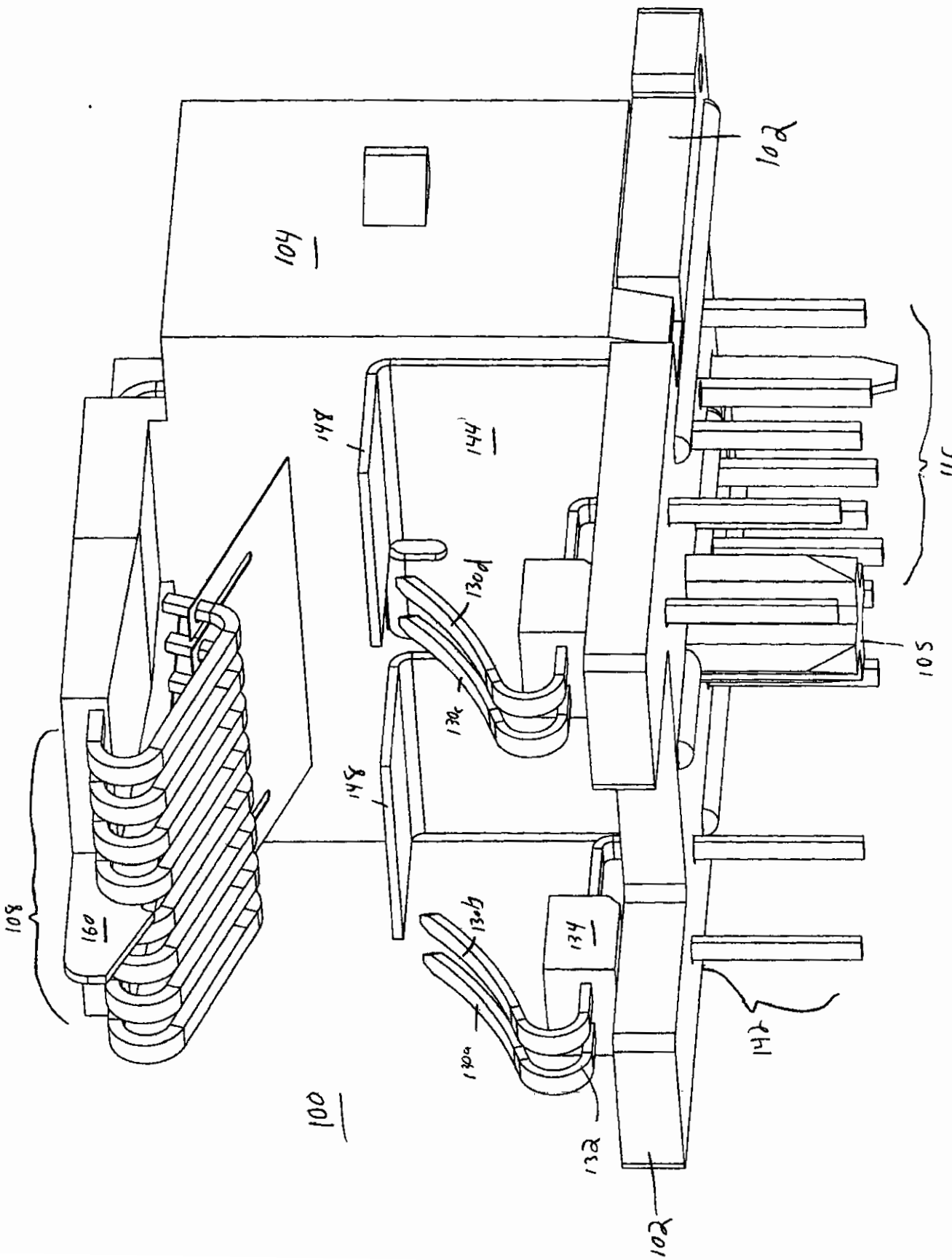

100
102
104
108
116
130a
130b
130c
130d
132
134
141
144'
145
148
160
102
105

FIG. 7

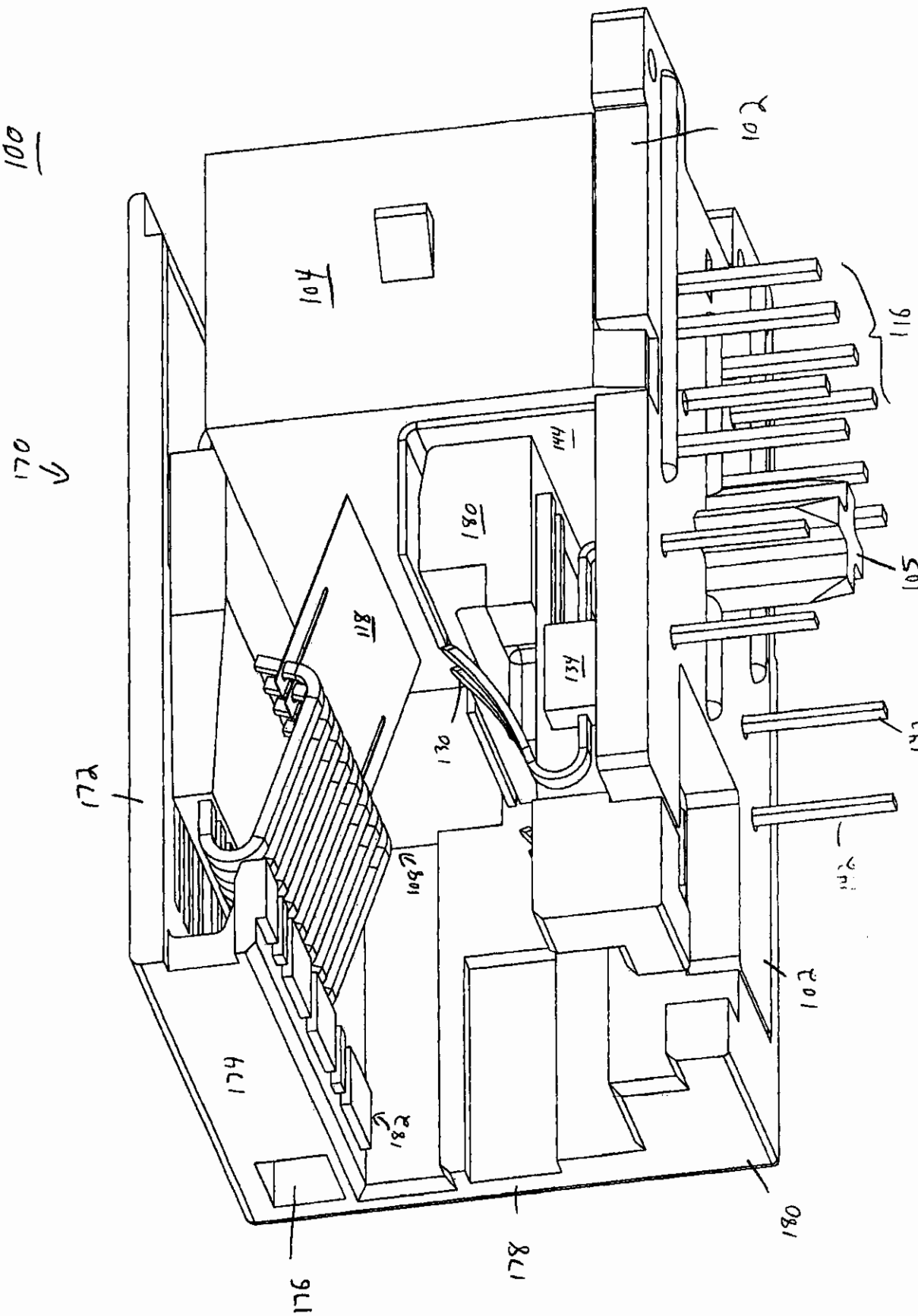

100
170
101
116
105
194
103
180
178
176
174
182
184
188
130
132
186
102

FIG. 8

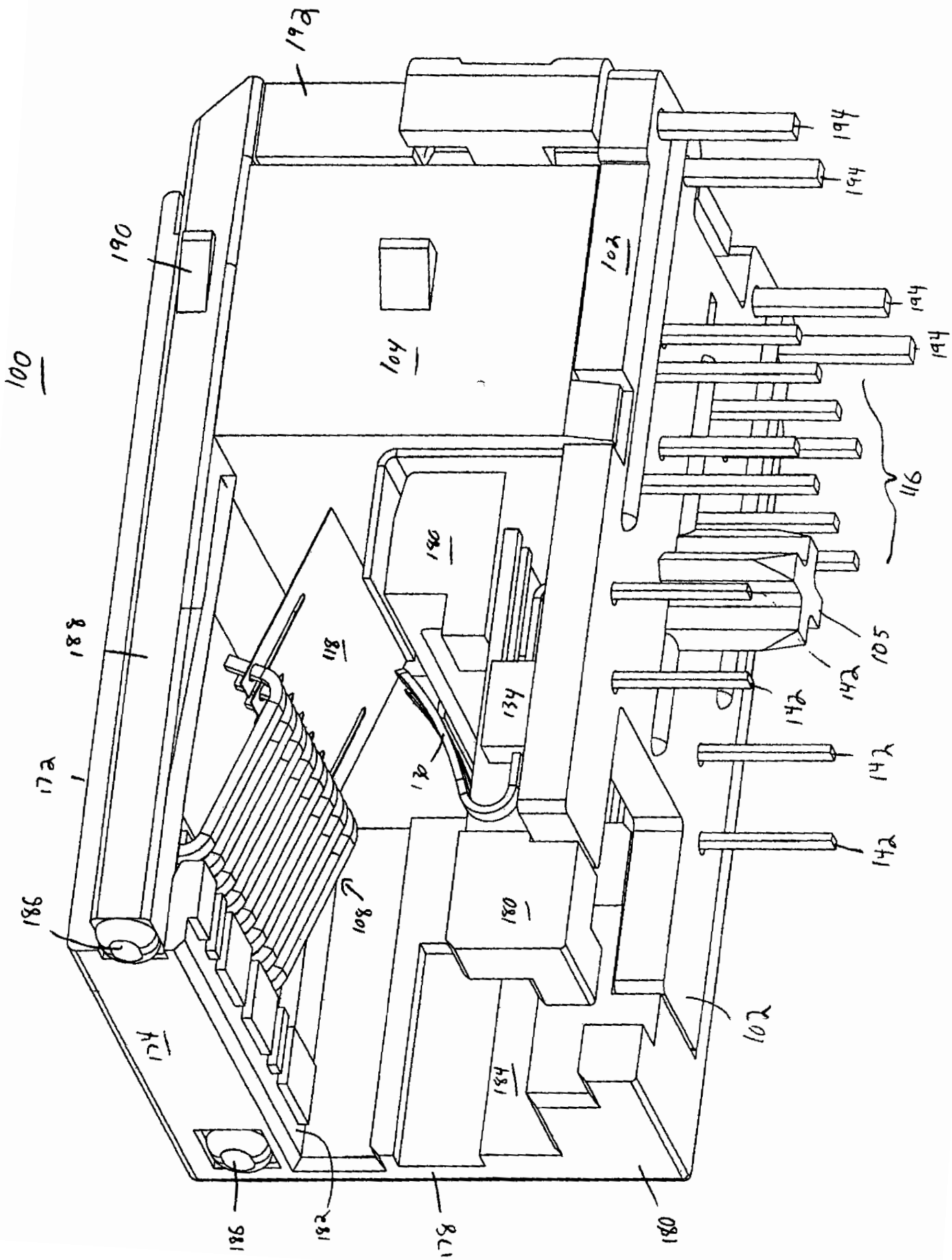

100
190
192
194
194
194
102
104
116
105
142
142
142
142
188
172
186
180
182
184
178
176
174
170
168
166
164
162
160
158
156
154
152
150
148
146
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132
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124
122
120
118
114
112
110
108
106

FIG. 9

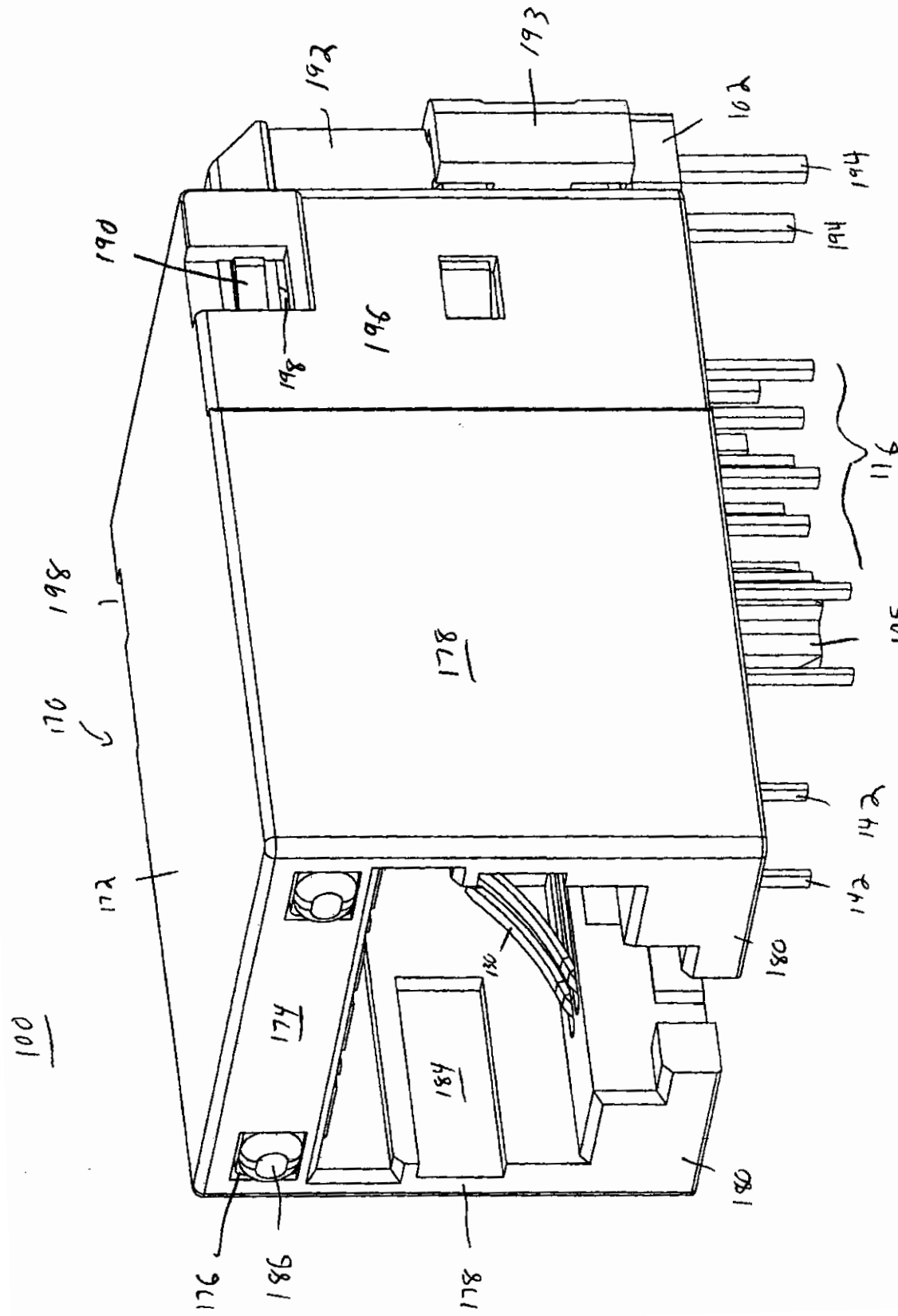

100
102
104
106
108
110
112
114
116
118
120
122
124
126
128
130
132
134
136
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140
142
144
146
148
150
152
154
156
158
160
162
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190
192
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194
196
198

FIG. 10

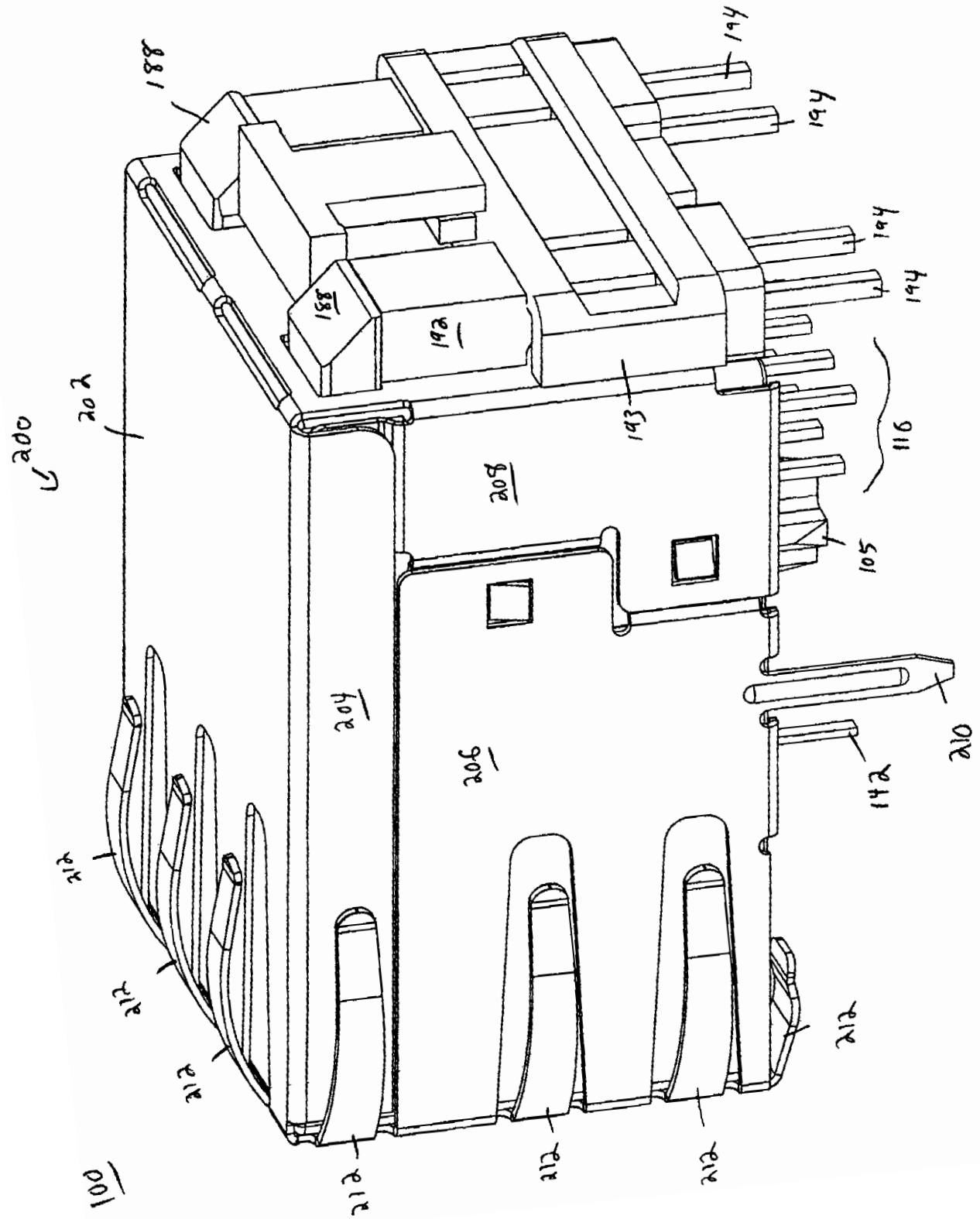


FIG. 11

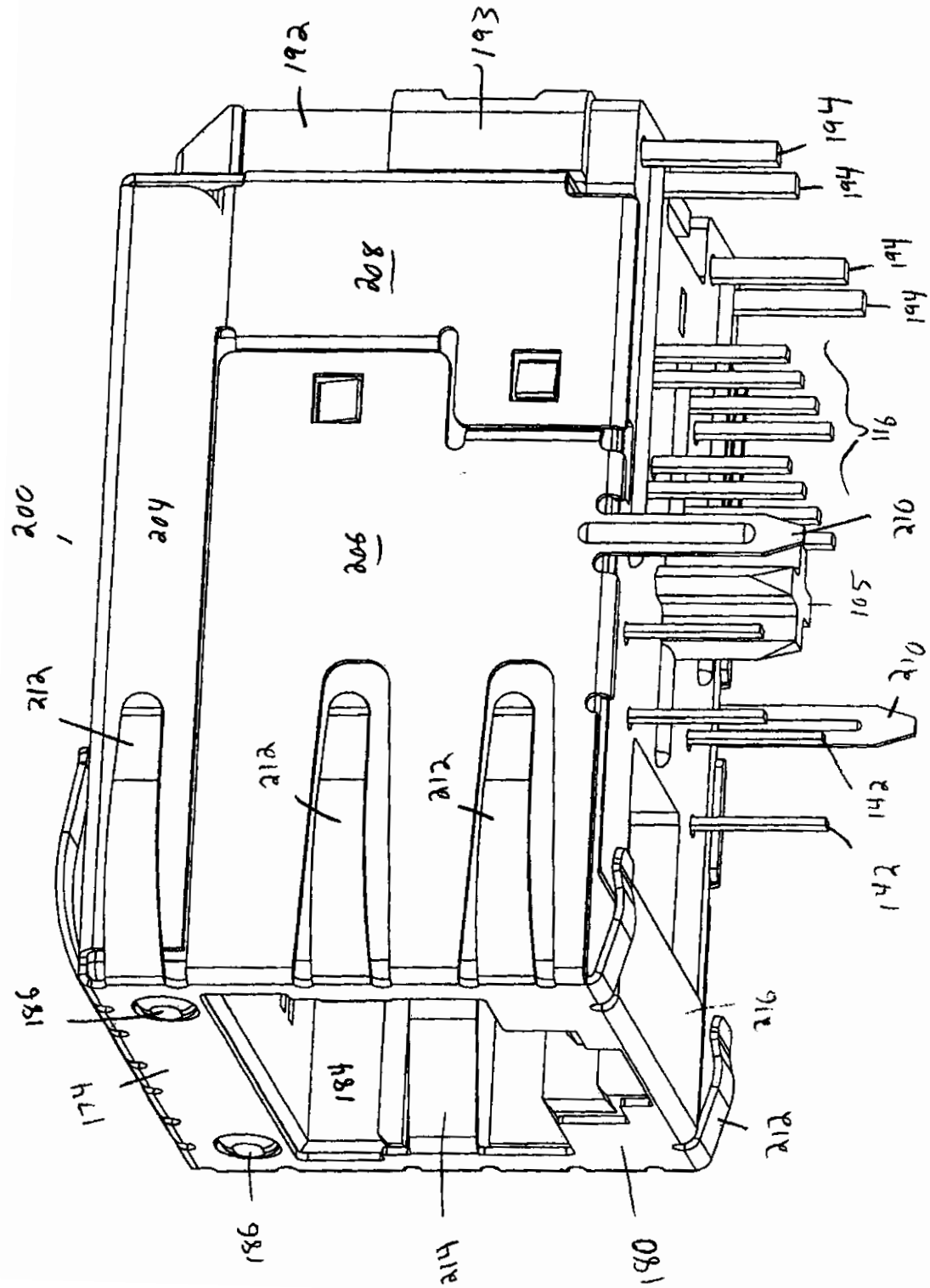

192
193
194
194
194
116
210
105
210
142
142
208
204
206
200
212
212
212
212
186
184
186
214
180
216
212

FIG. 12

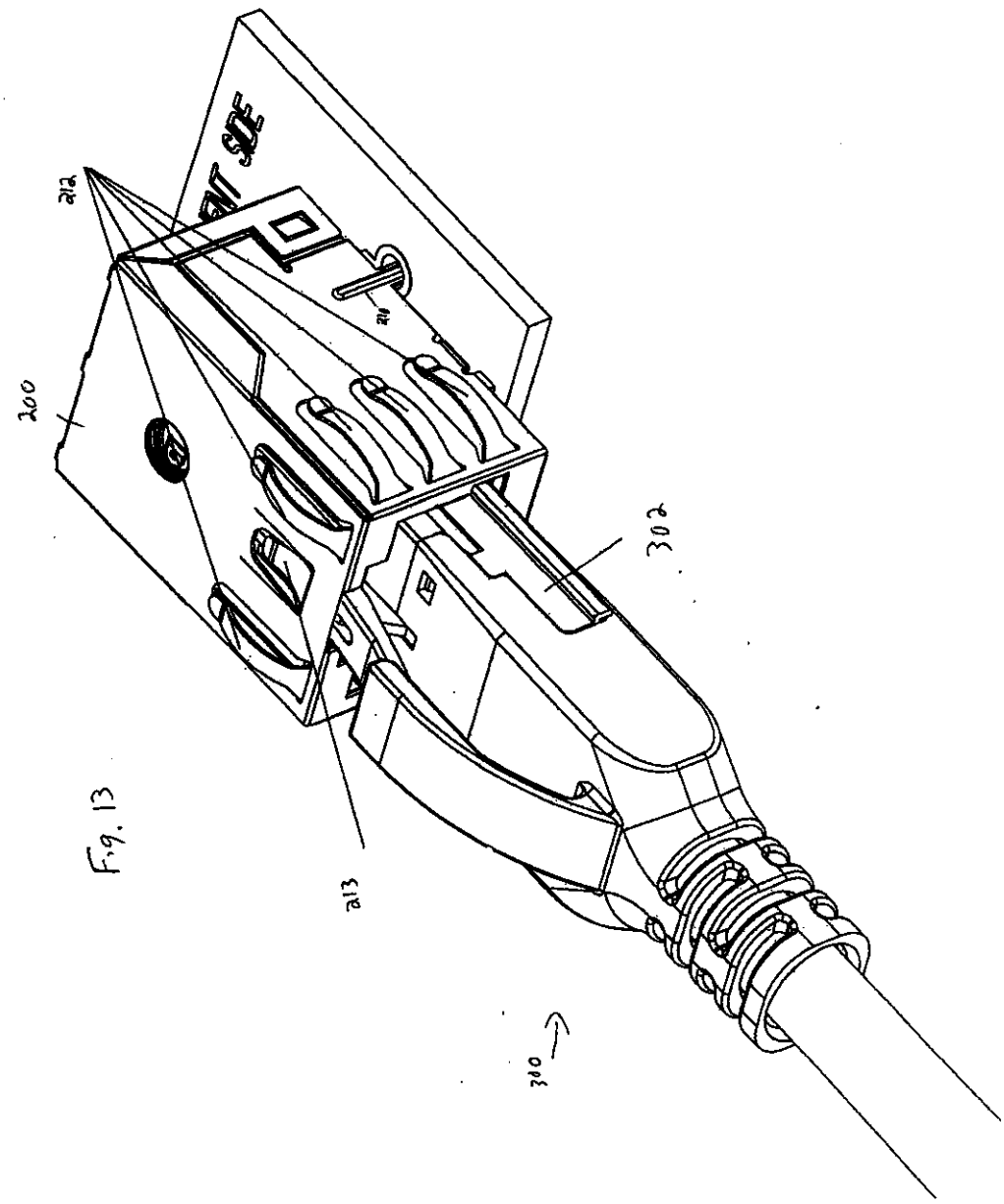


Fig. 13

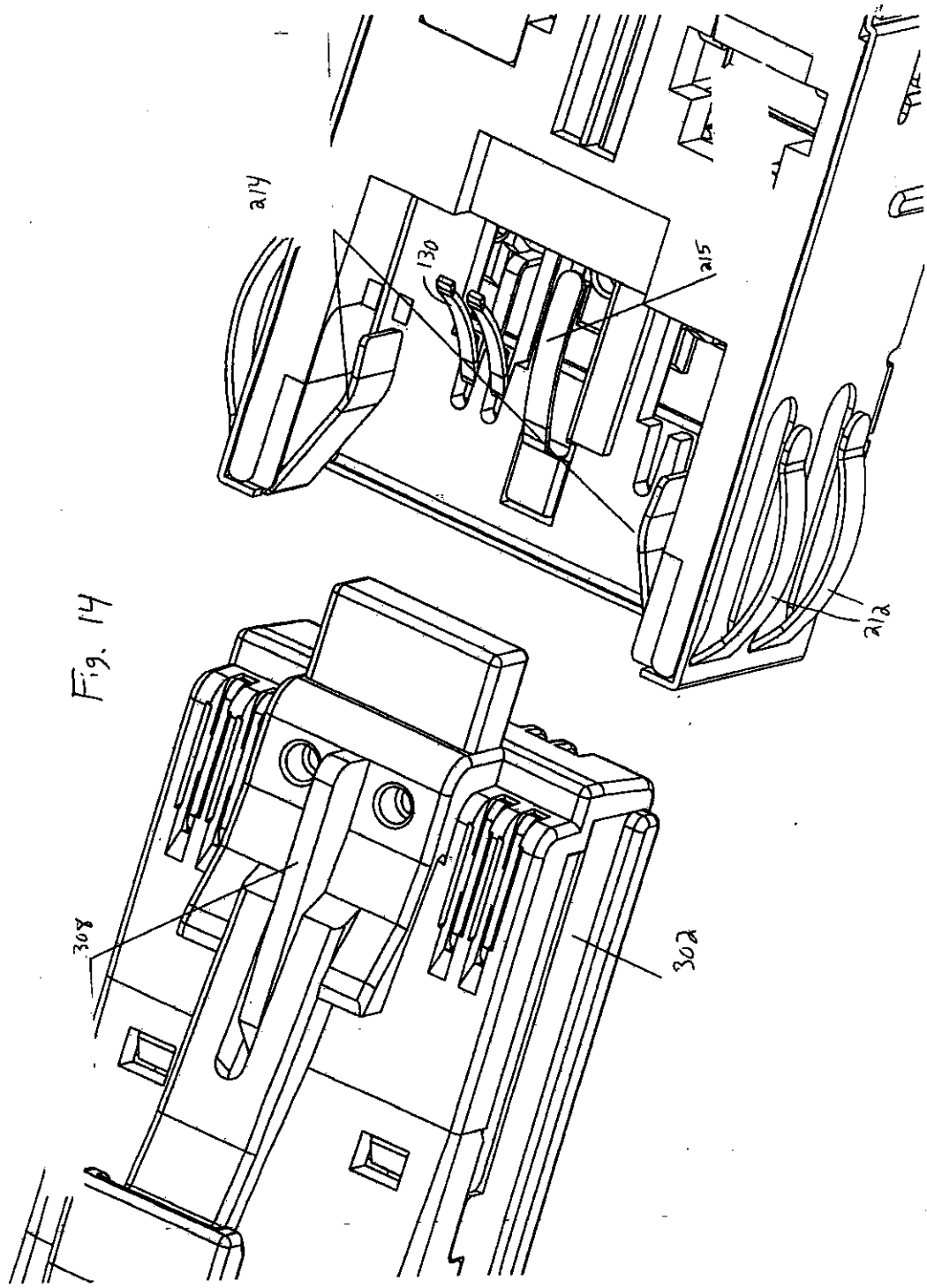


Fig. 14

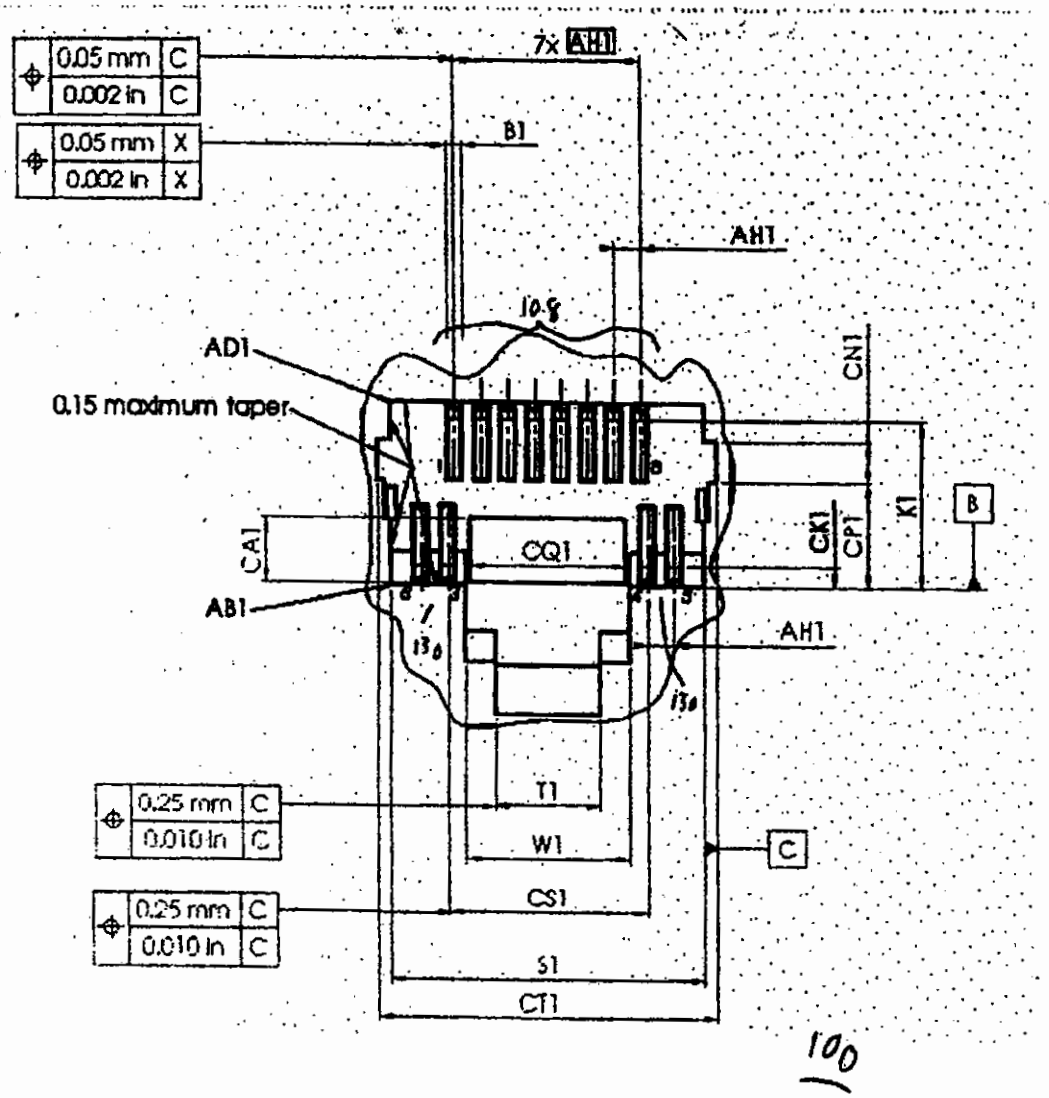

0.05 mm C
0.002 in C
0.05 mm X
0.002 in X
7x AH1
B1
AH1
10.9
AD1
0.15 maximum taper
CN1
CA1
CQ1
CK1
CP1
K1
B
AB1
AH1
T1
W1
C
0.25 mm C
0.010 in C
CS1
0.25 mm C
0.010 in C
S1
CT1
100

Fig. 15

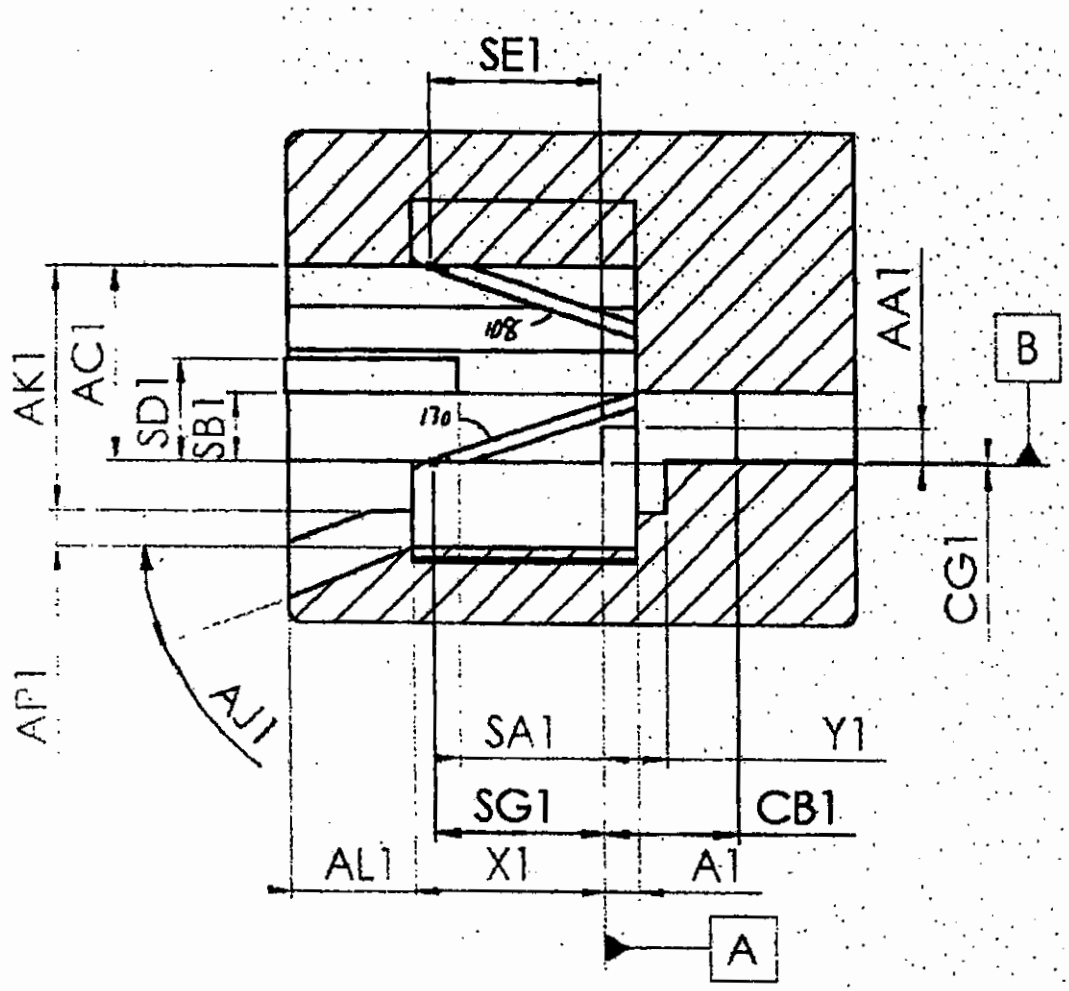

SE1
108
170
AK1
AC1
SD1
SB1
AA1
B
CG1
AP1
AJ1
SA1
Y1
SG1
CB1
AL1
X1
A1
A

Fig. 16

100

Letter	Maximum	Minimum	Nominal
	mm	mm	mm
A1		1,47	
B1	0,71		
K1[a]	5,84		
S1	12,04	11,84	11,94
T1	4,19	3,94	
W1	6,38	6,22	
X1	6,86	6,68	
Y1		2,34	
AA1[b]	1,24		
AB1	0,38		
AC1	6,96	6,76	6,86
AD1	0,13		
AH1[a]			1.02

Fig. 17

Letter	Maximum	Minimum	Nominal
	mm	mm	mm
A1		1,47	
B1	0,71		
K1[a]	5,84		
S1	12,04	11,84	11,94
T1	4,19	3,94	
W1	6,38	6,22	
X1	6,86	6,68	
Y1		2,34	
AA1[b]	1,24		
AB1	0,38		
AC1	6,96	6,76	6,86
AD1	0,13		
AH1[a]			1.02
AK1	8,66	8,38	
AL1[c]		1,40	
AP1[f]		1,27	
CA1	2,30	2,20	
CG1	0,10		
CK1[a]		0,65	
CN1	1,40	1,30	
CP1	5,05	4,95	

Letter	Maximum	Minimum	Nominal
	mm	mm	mm
CQ1	6,00	5,80	
CS1			7,66
CT1	13,0	12,9	
SA1		5,31	
SB1		2,16	
SD1	4,90		
SE1[d]	5,60		
SG1[e, f]	5,60		
Letter			
AJ1 angle			15°

Notes
a. K1, CK1: Contact Zone. Contacts shall be completely within their individual contact zone in the area indicated.
b. AA1: Preferred male free connector stop
c. AL1: Front surface need not be planar or coincident with the surface below the locking device as long as insertion, latching and unlatching of free connectors is not inhibited. Projections beyond AL1 dimension shall not prevent finger access to the free connector locking (coupling) device.
d. SE1: Maximum forward extension of contacts below surface AC1, to avoid contact with shields of free connectors. Applies in the mated state.
e. SG1: Maximum forward extension of contacts below surface Reference Plane B, to avoid contact with shields of free connectors. Applies in the mated state.
f. SG1: When this dimension is greater than 2.5 mm, and the fixed connector is mated with a IEC 60603-7-1,2,3,4,5 free connector, switch option 2 should be utilised, to maintain the clearance requirement between signal conductors 6',3',4',5' of the fixed connector and the screen of this free connector. Note that SG1 is 0.0 mm in the mated state with this IEC 60603-7-1,2,3,4,5 free connector.
g. AP1: Flat surface
h. AH1: True position

Fig. 18

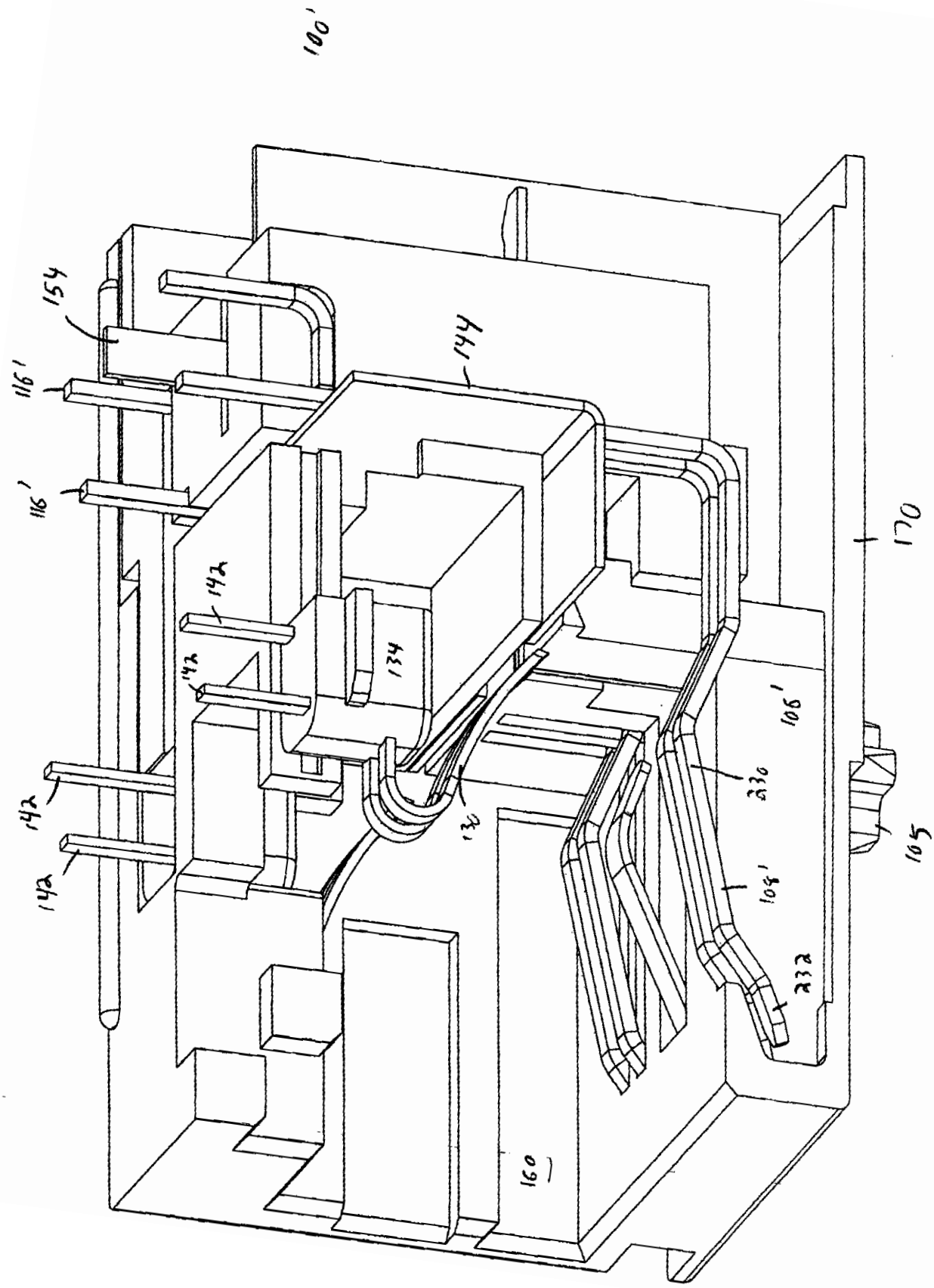

100'
154
116'
116'
144
142
142
142
142
134
130
170
106'
105
108'
232
230
160

FIG. 19

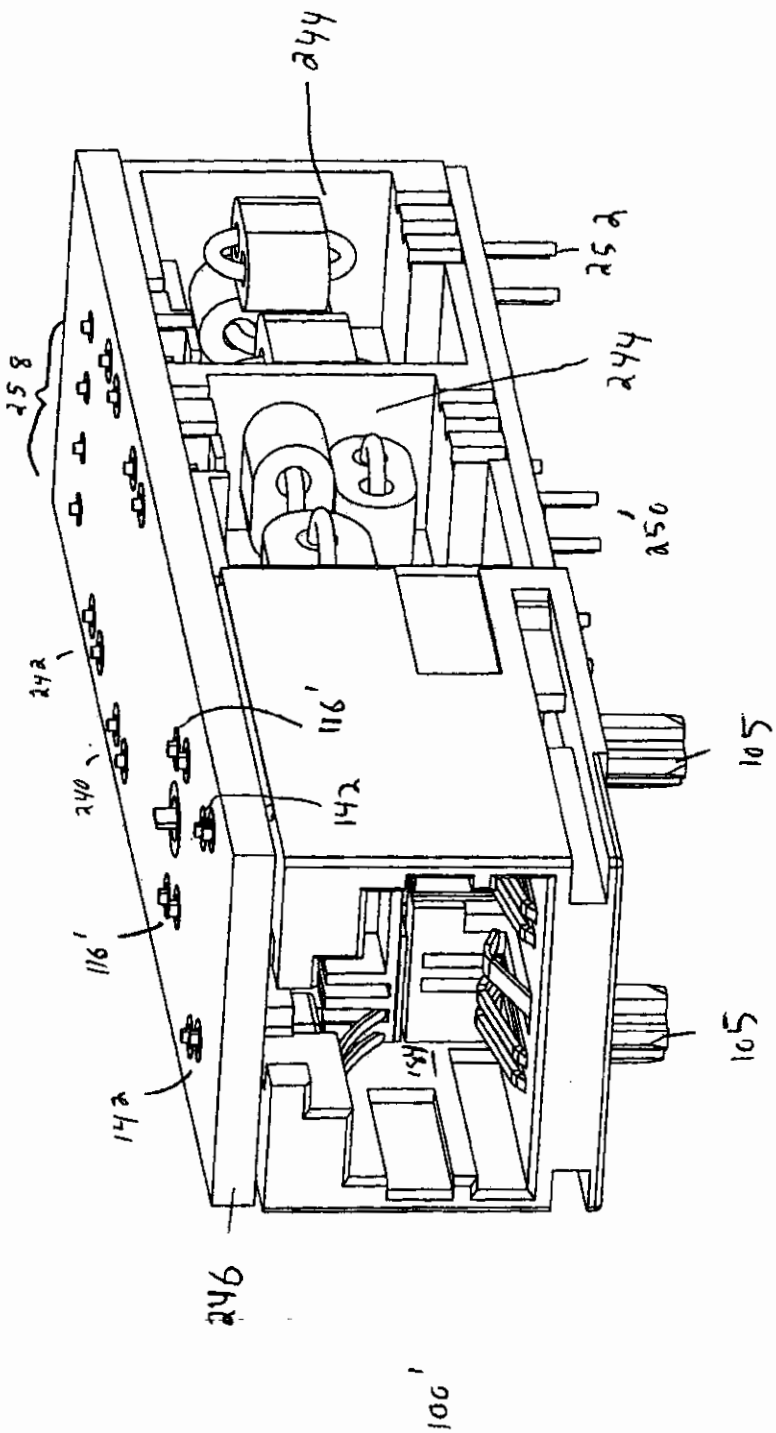


FIG. 20

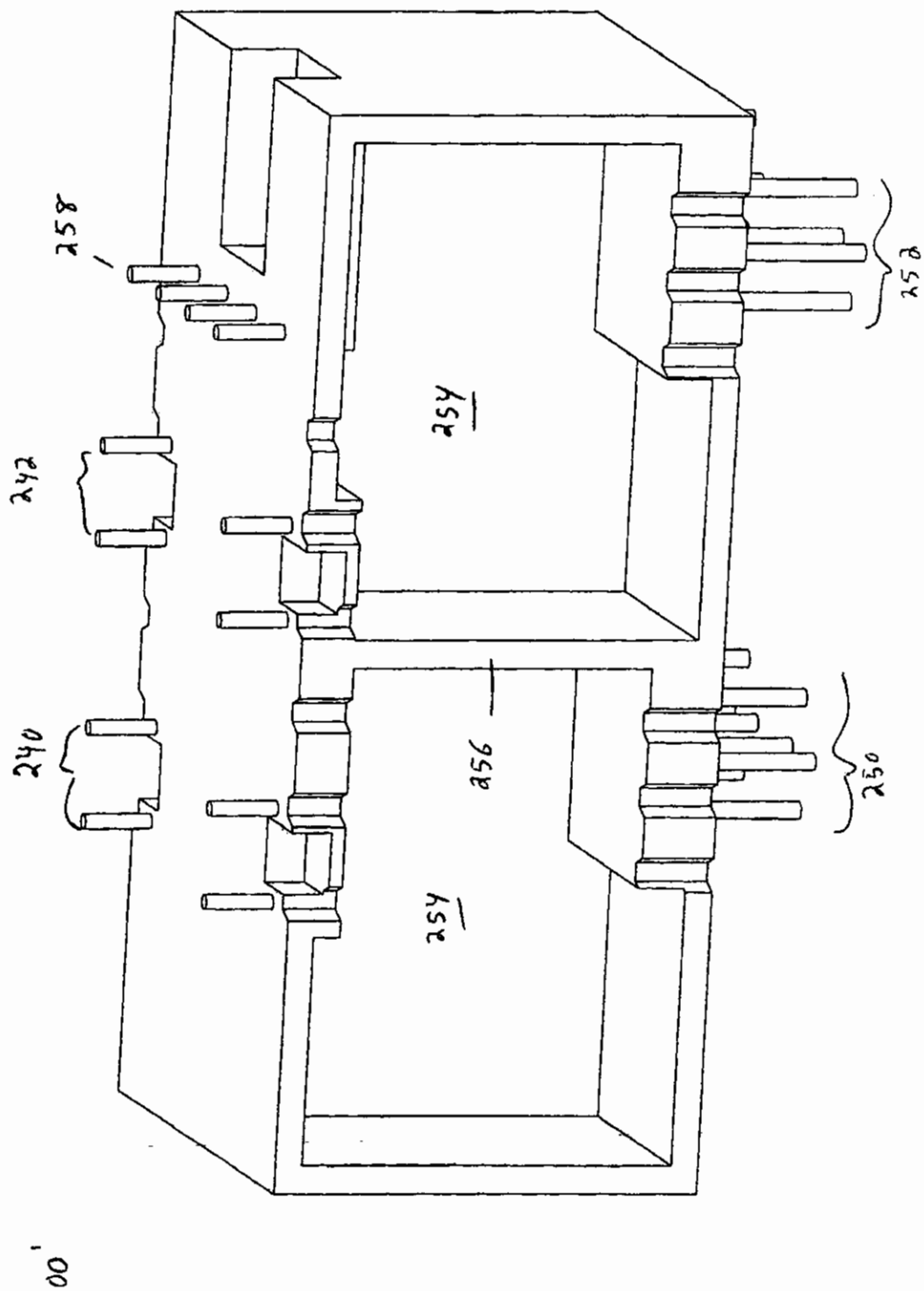
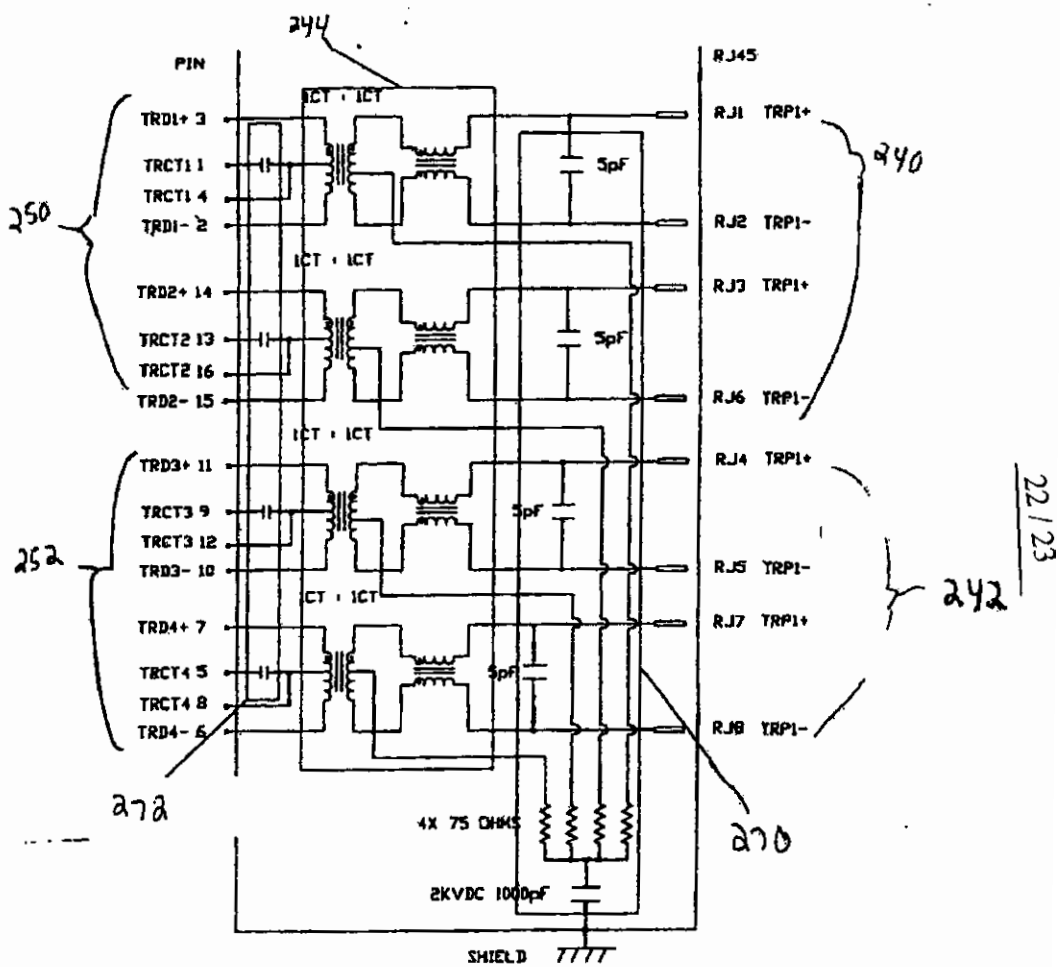


FIG. 21

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO: (P7-P6) : (J4-J5)	: 1 : 1 ±2%
(P11-P10) : (J3-J6)	: 1 : 1 ±2%
(P3-P2) : (J7-J8)	: 1 : 1 ±2%
(P15-P14) : (J1-J2)	: 1 : 1 ±2%
OCL @ 100kHz,100mVRMS 8mA DC BIAS	
(P3-P2) ; (P7-P6); (P11-P10) ; (P15-P14)	: 350 uH MIN.
LEAKAGE INDUCTANCE:	
P3-P2 (WITH J7 AND J8 SHORT)	: 20nH MAX. @ 1MHz
P7-P6 (WITH J4 AND J5 SHORT)	: 20nH MAX. @ 1MHz
P11-P10 (WITH J3 AND J6 SHORT)	: 20nH MAX. @ 1MHz
P15-P14 (WITH J1 AND J2 SHORT)	: 20nH MAX. @ 1MHz
INTERWINDING CAPACITANCE:	
(P3-P2) : (J7-J8)	: 5pf MAX @ 1MHz
(P11-P10) : (J3-J6)	: 5pf MAX @ 1MHz
(P7-P6) : (J4-J5)	: 5pf MAX @ 1MHz
(P15-P14) : (J1-J2)	: 5pf MAX @ 1MHz
DC RESISTANCE:	
(J6-J3) ; (J2-J1) ; (J7-J8) ; (J4-J5)	: 1.2 ohms Max.
RETURN LOSS: (RS=RL=100 ohms)	
1MHz TO 30MHz	: -19dB MIN.
30MHz TO 60MHz	: -13dB MIN.
60MHz TO 80MHz	: -12dB MIN.
80MHz TO 300MHz	: -10dB MIN.
DIELECTRIC WITHSTAND:	
(J1,J2) TO (P15,P14) ; (J4,J5) TO (P7-P6)	: 1500 VAC
(J3,J6) TO (P11,P10) ; (J7,J8) TO (P3, P2)	: 1500 VAC
INSERTION LOSS:	
100KHz TO 300MHz	: -1.1 dB TYP
300MHz TO 400MHz	: -1.5 dB TYP
CROSS TALK:	: -35dB MIN.
1-100 MHz	
COMMON TO COMMON MODE ATTENUATION:	
1MHz TO 500MHz	: TBD
DIFFEERENTIAL TO COMMON MODE ATTENUATION:	
1MHz TO 500MHz	: TBD



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Fig 22

~~Fig 22~~

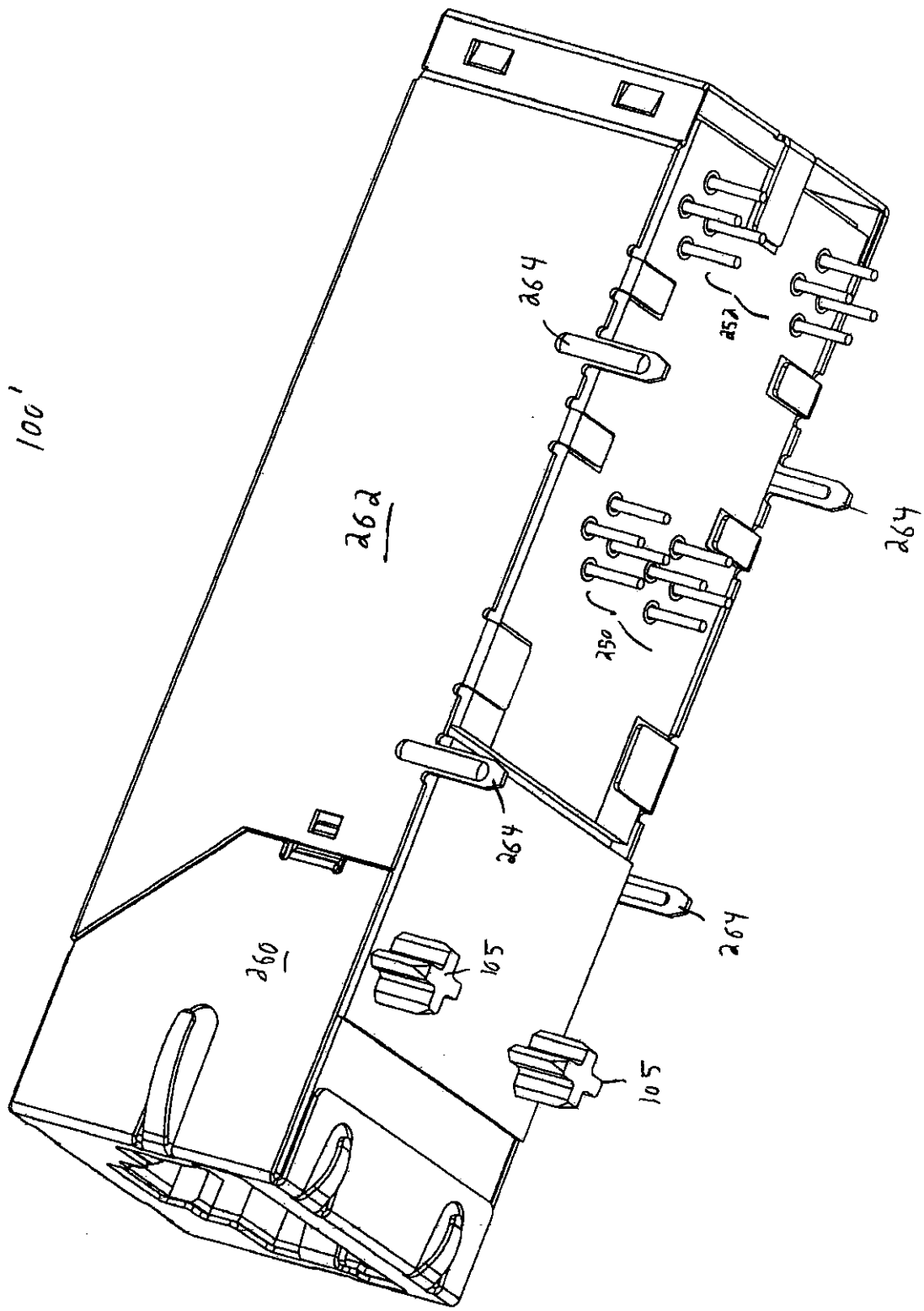


FIG. 23