FIG. 1

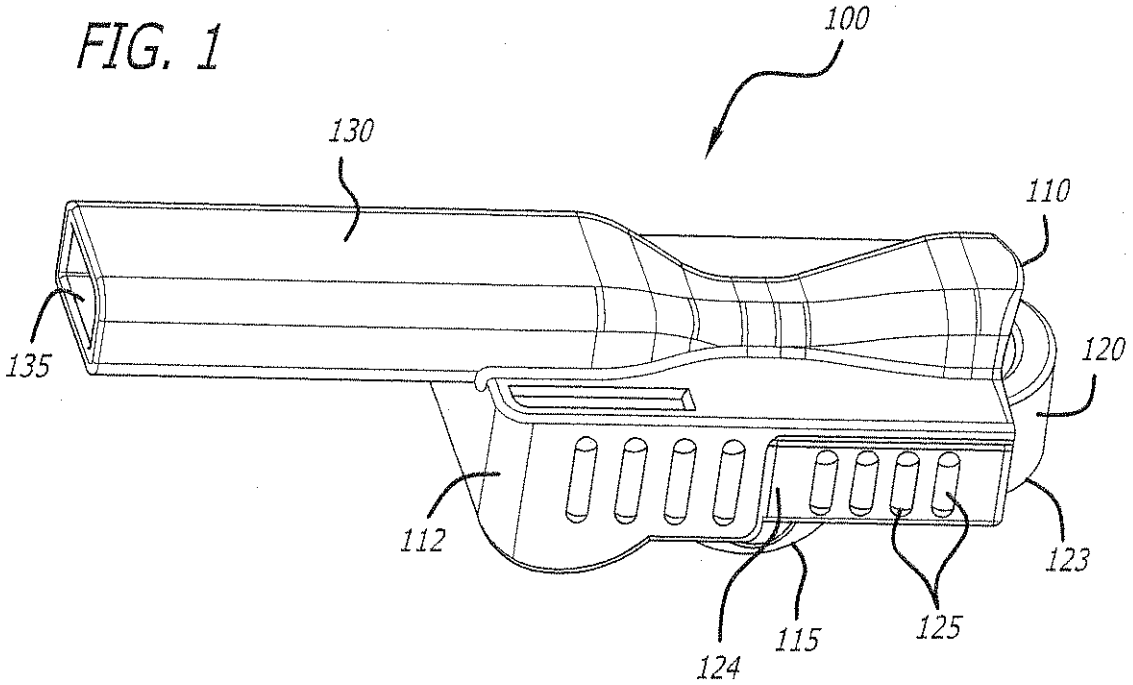
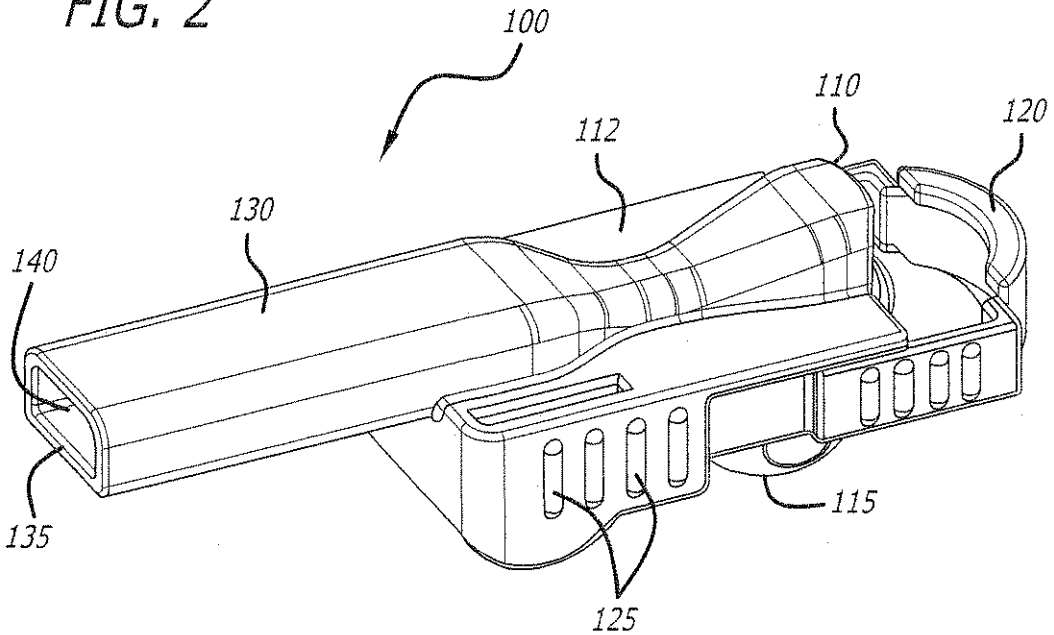

100
130
110
135
120
112
123
124
115
125

FIG. 2


100
110
120
112
130
140
115
135
125

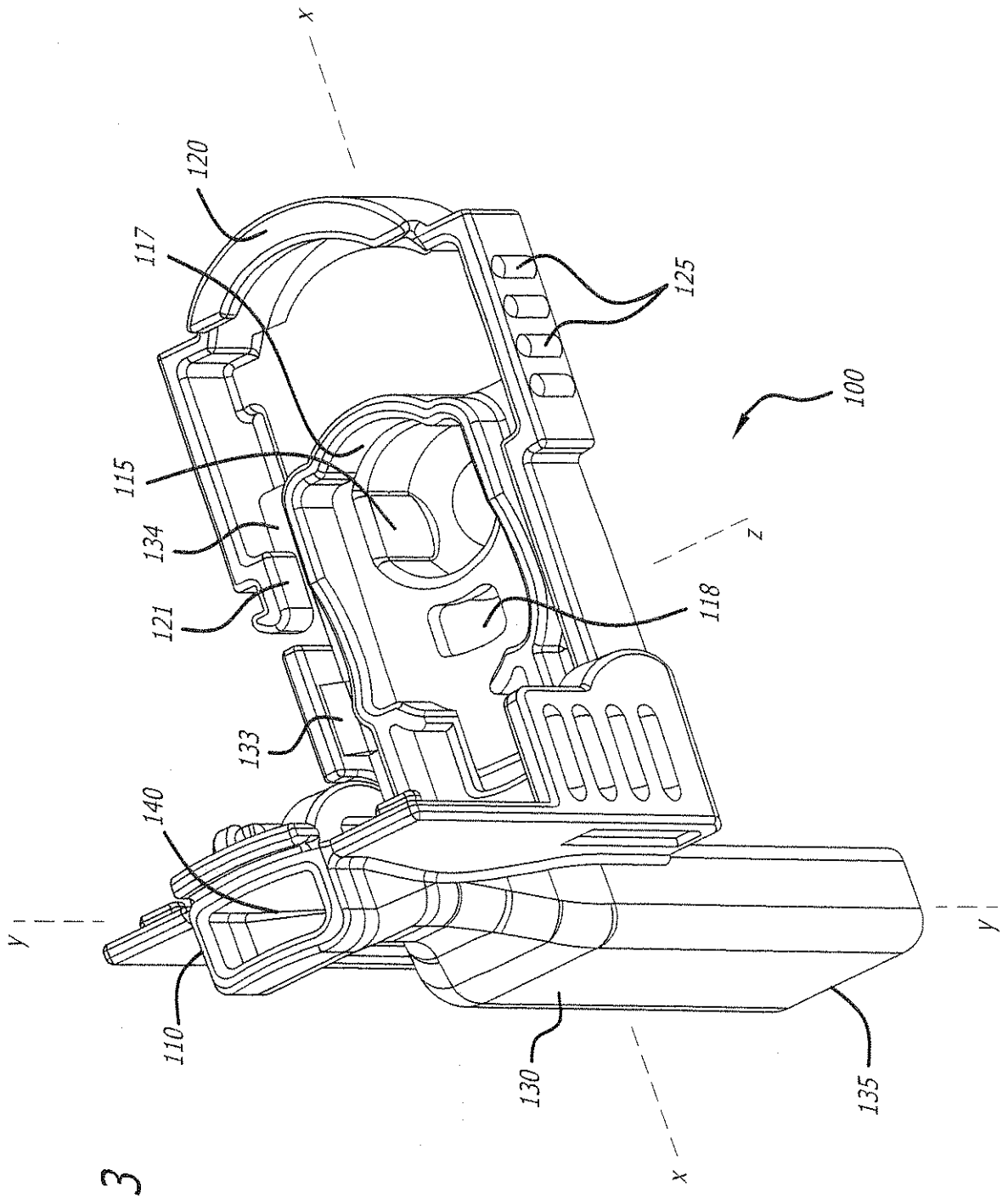
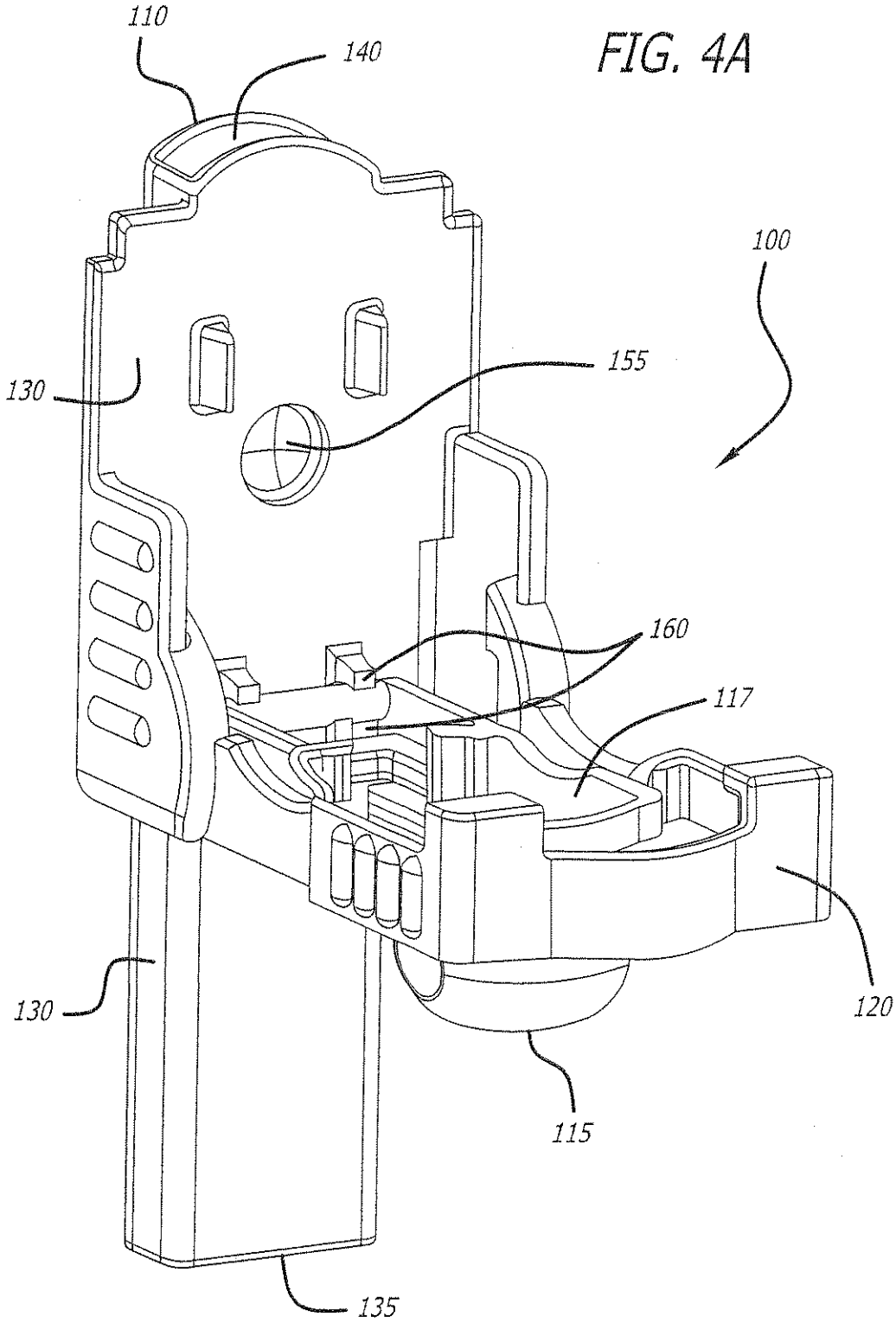


FIG. 3

FIG. 4A



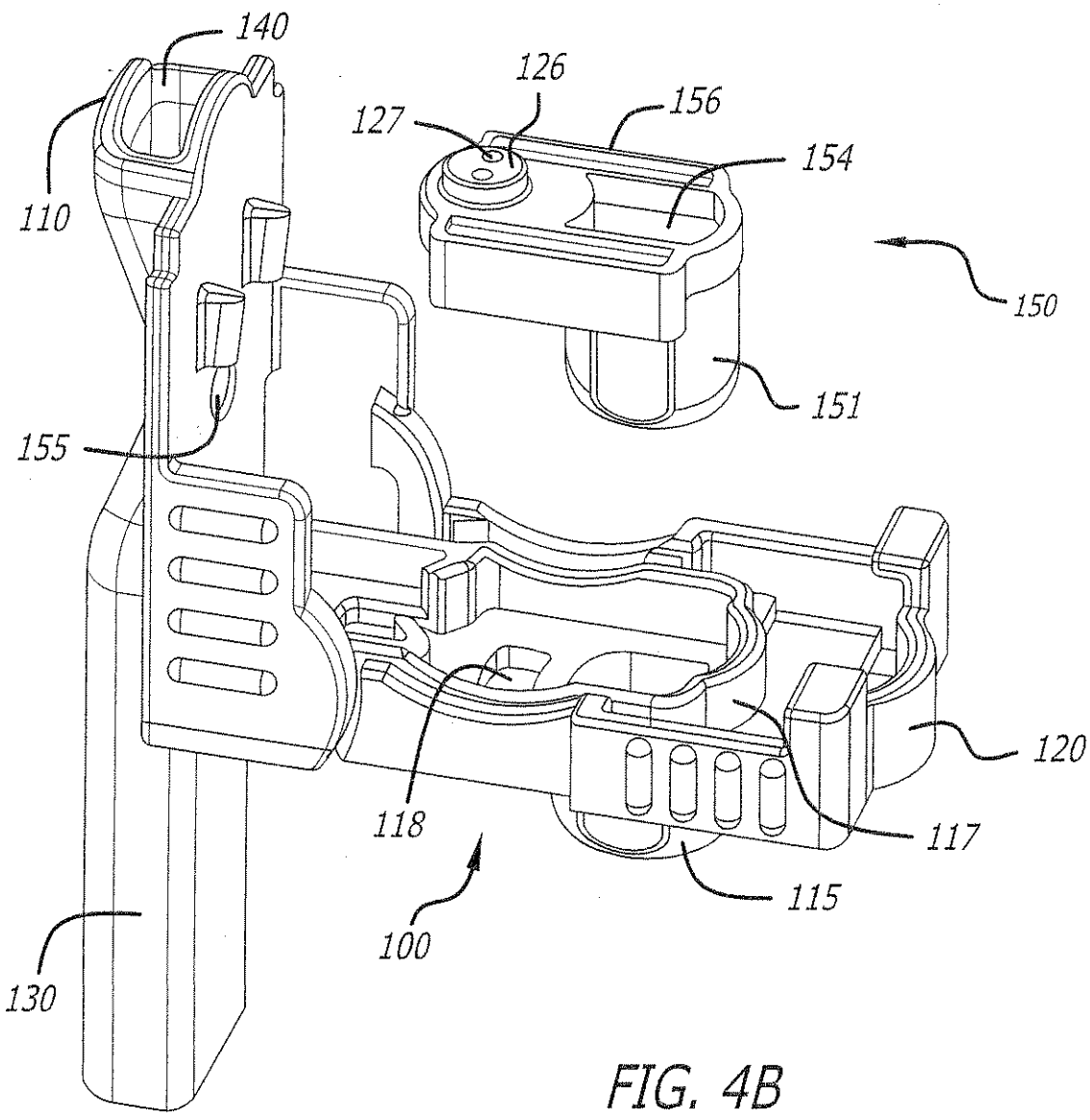


FIG. 4B

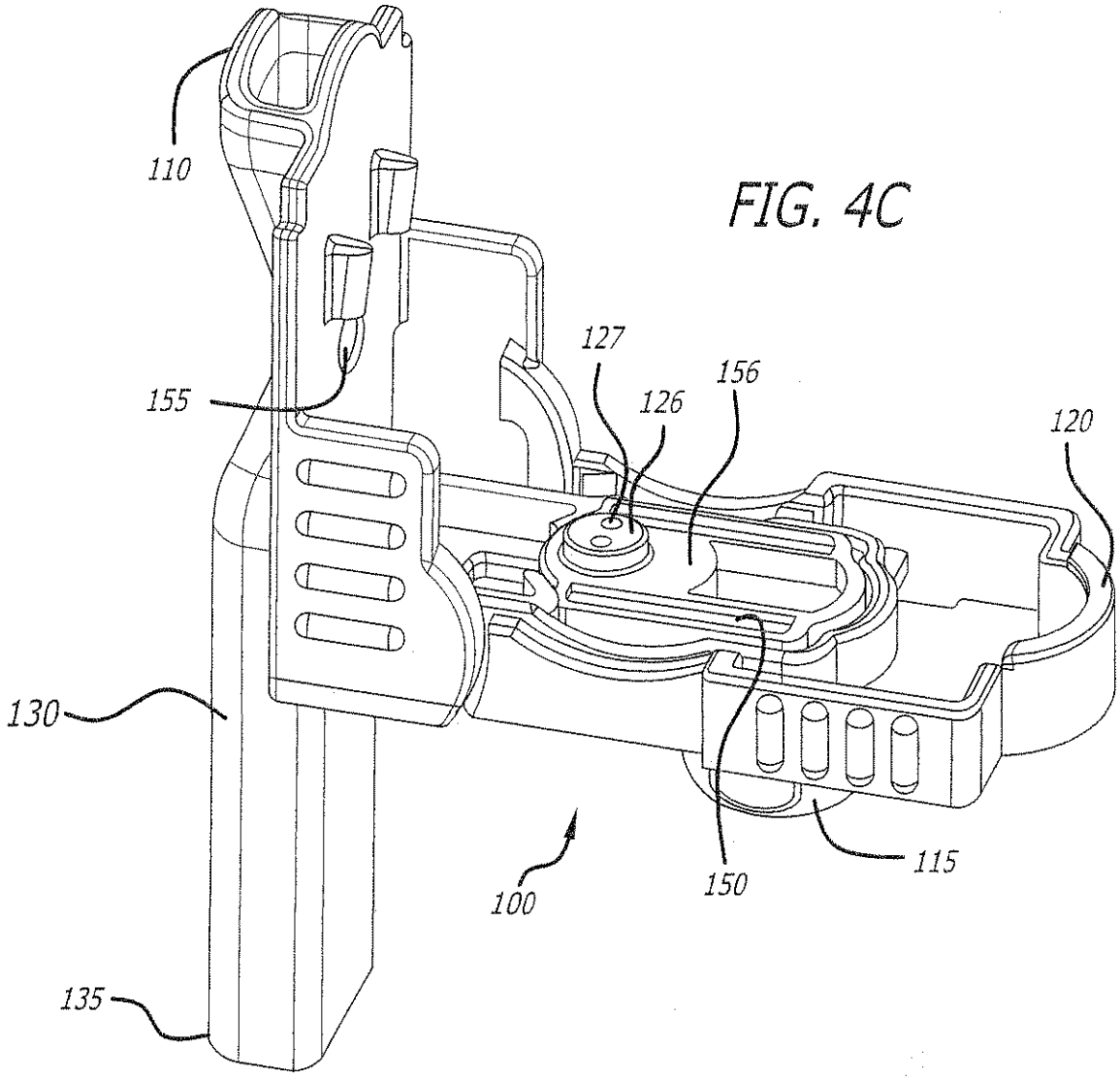
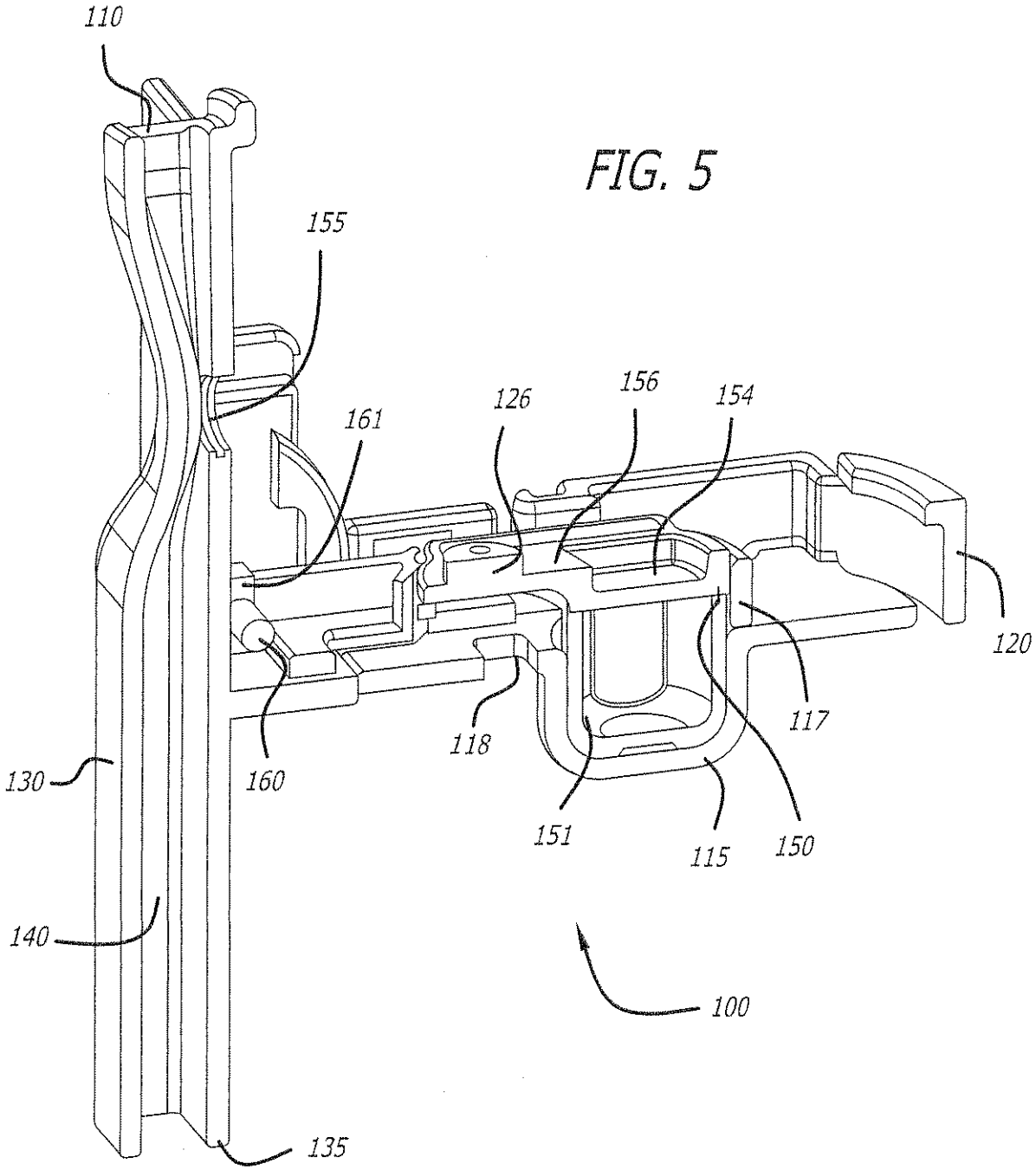


FIG. 4C

FIG. 5


110
155
161
126
156
154
120
117
118
160
130
151
115
150
140
100
135

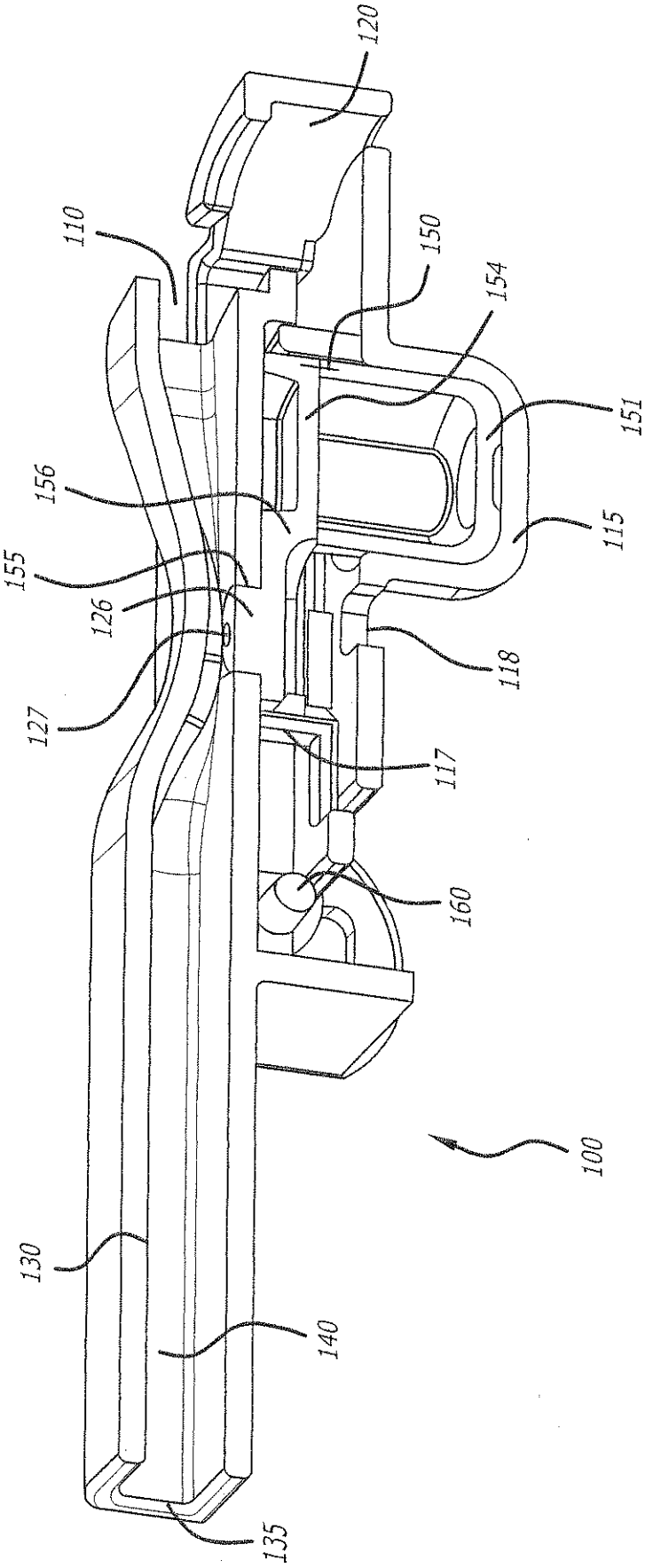

120
110
150
154
151
156
155
126
115
127
118
117
160
100
130
140
135

FIG. 6

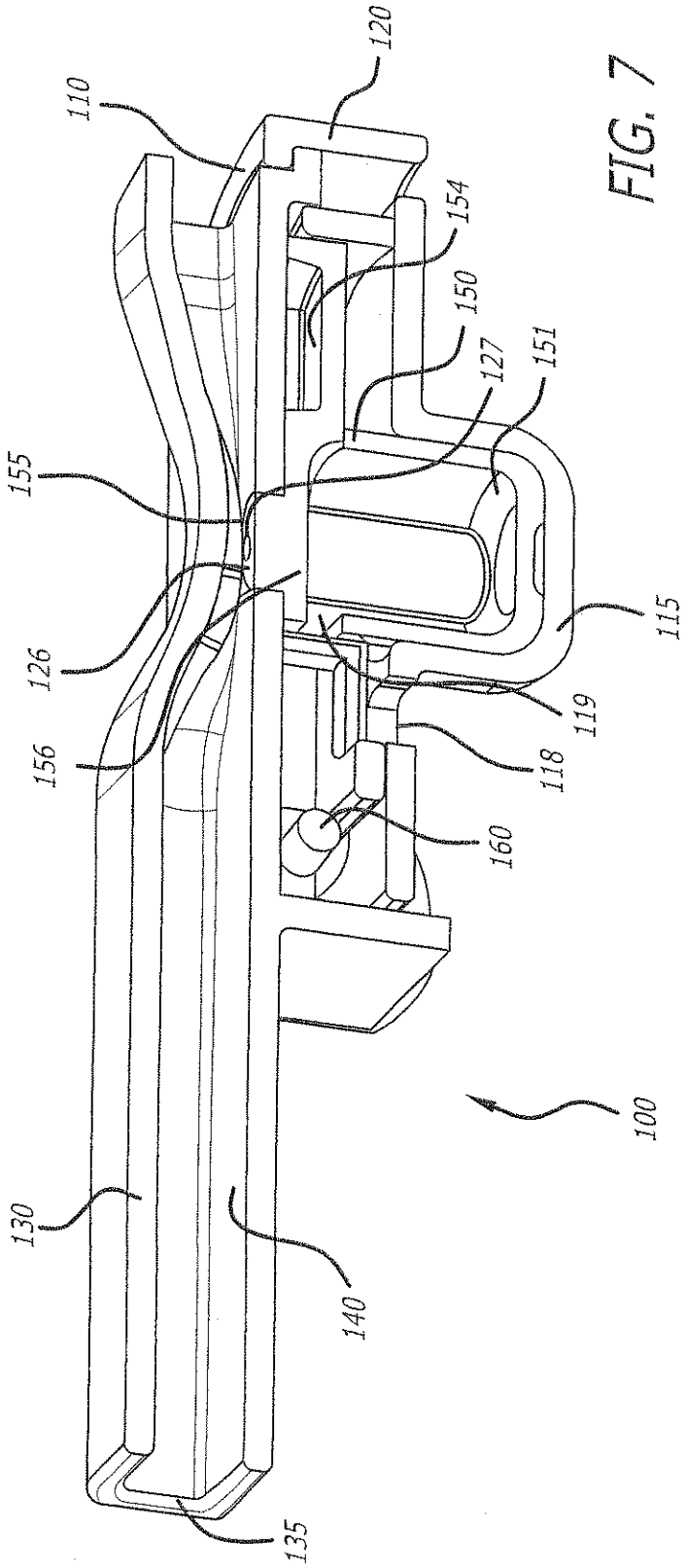

120
110
154
150
127
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155
126
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160
100
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FIG. 7

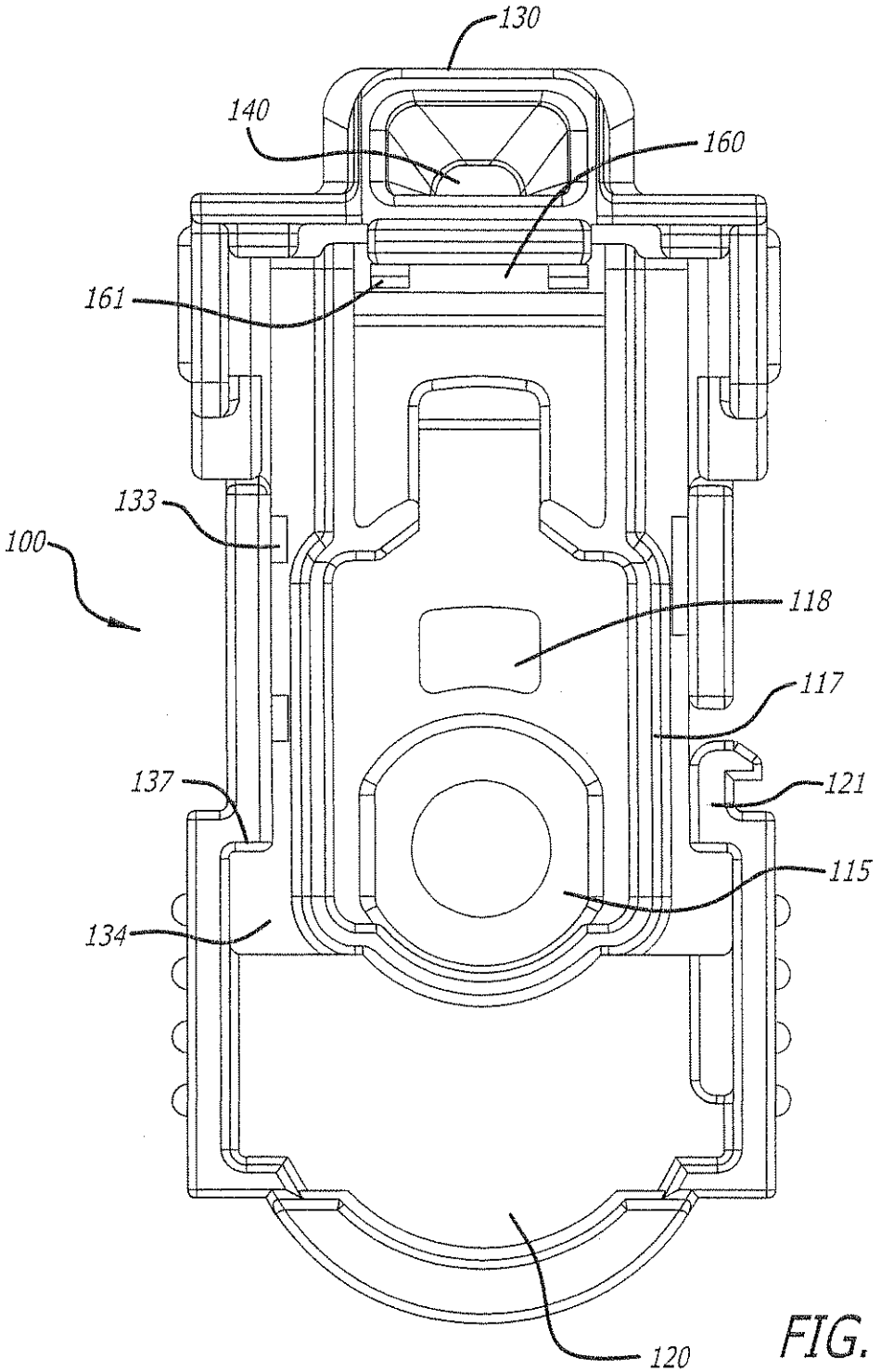


FIG. 8

FIG. 9

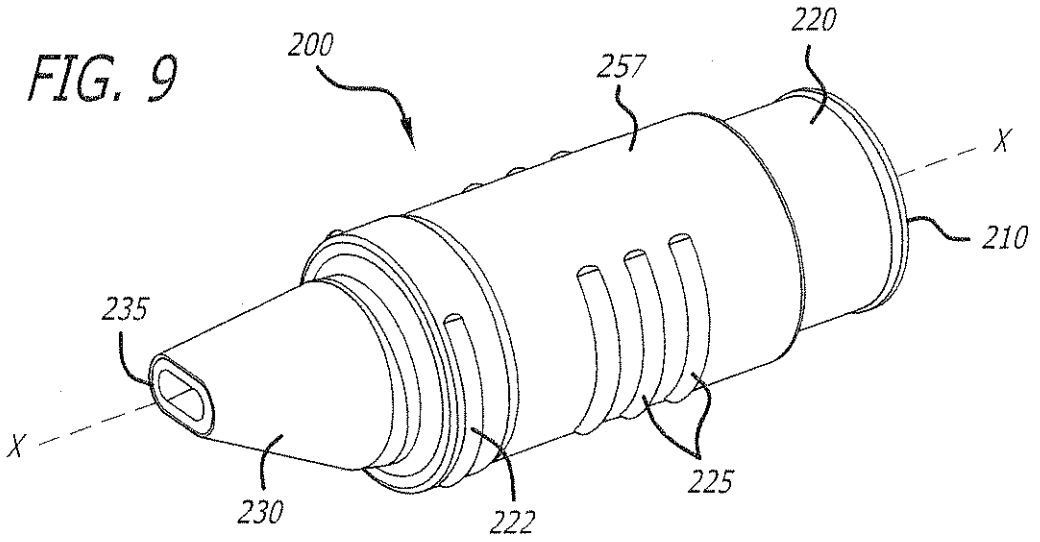

200
257
220
X
210
235
X
230
222
225

FIG. 10

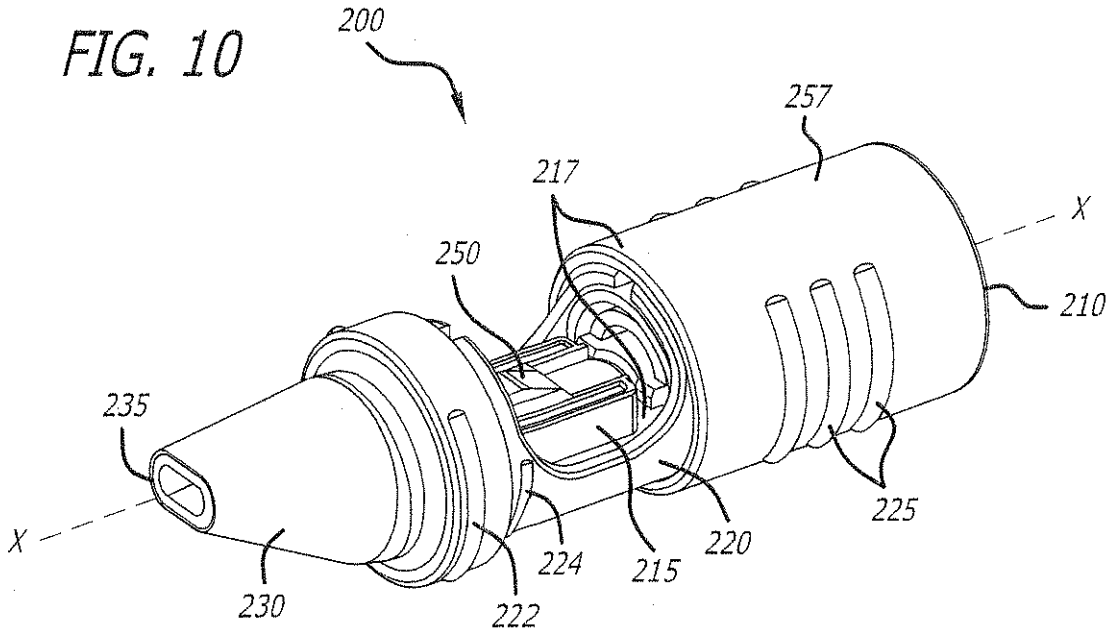

200
257
217
X
250
210
235
225
X
220
224
215
230
222

FIG. 11A

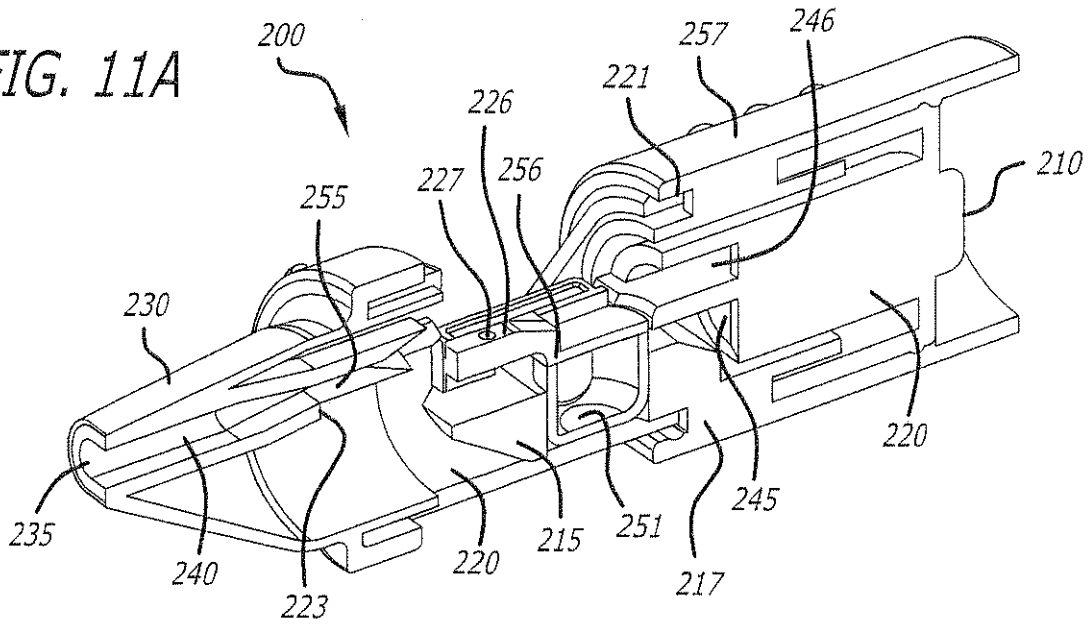
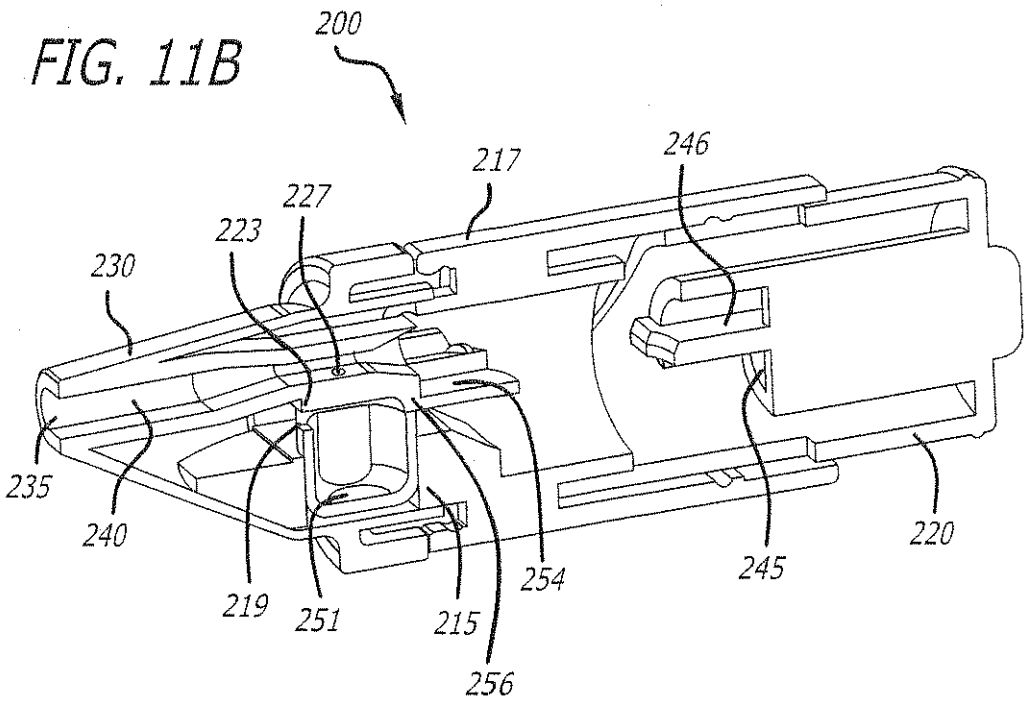


FIG. 11B



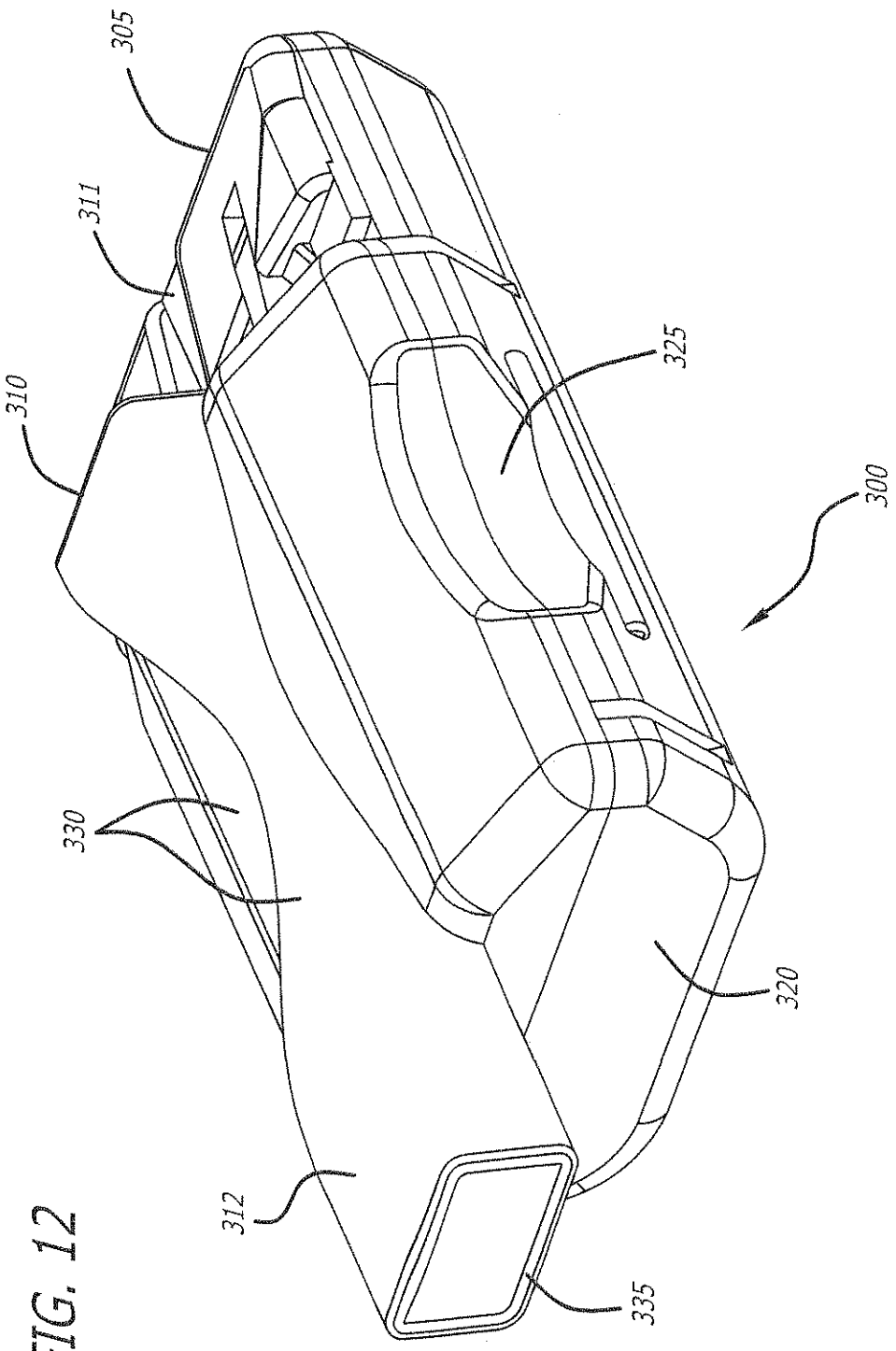


FIG. 12

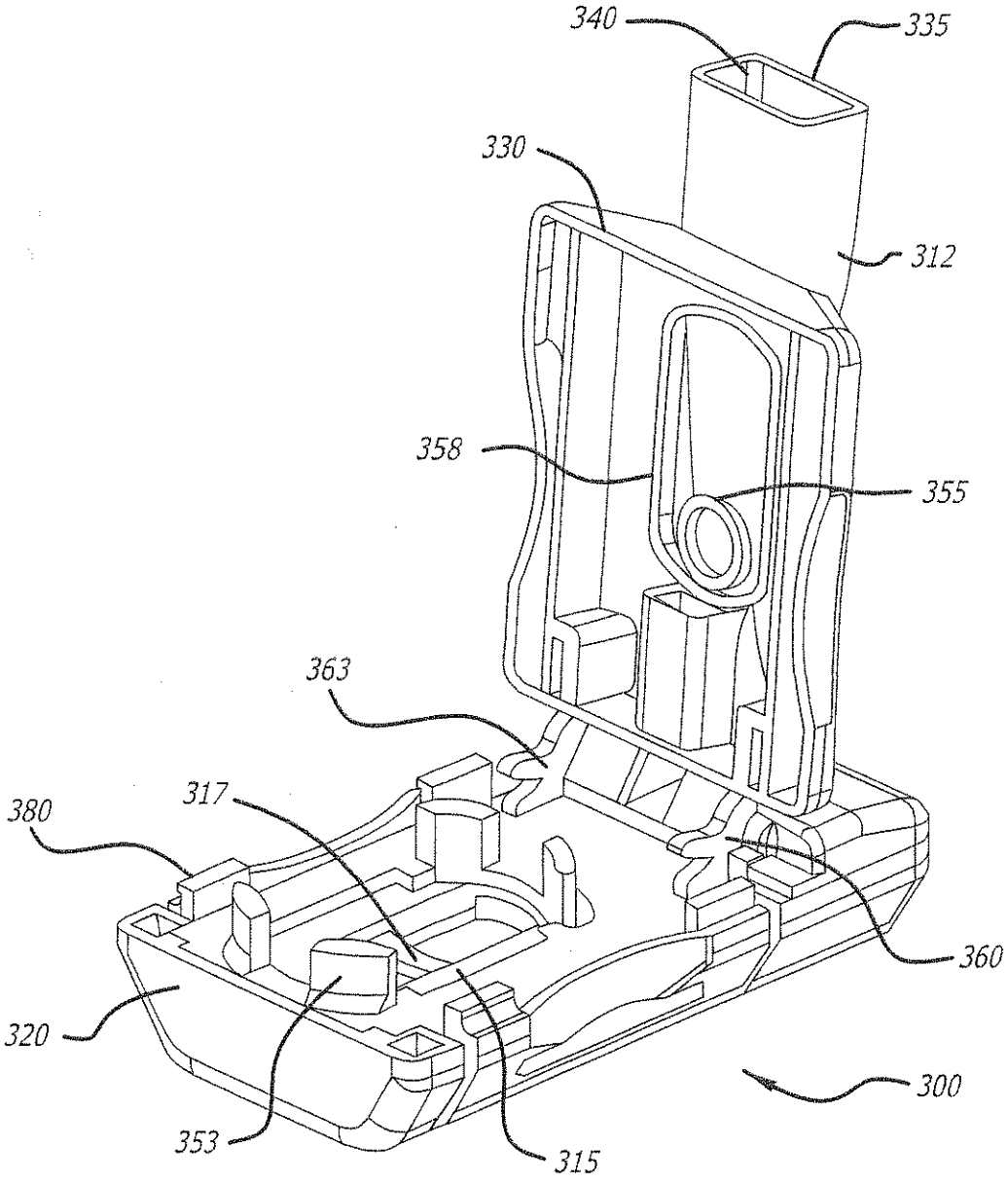


FIG. 13

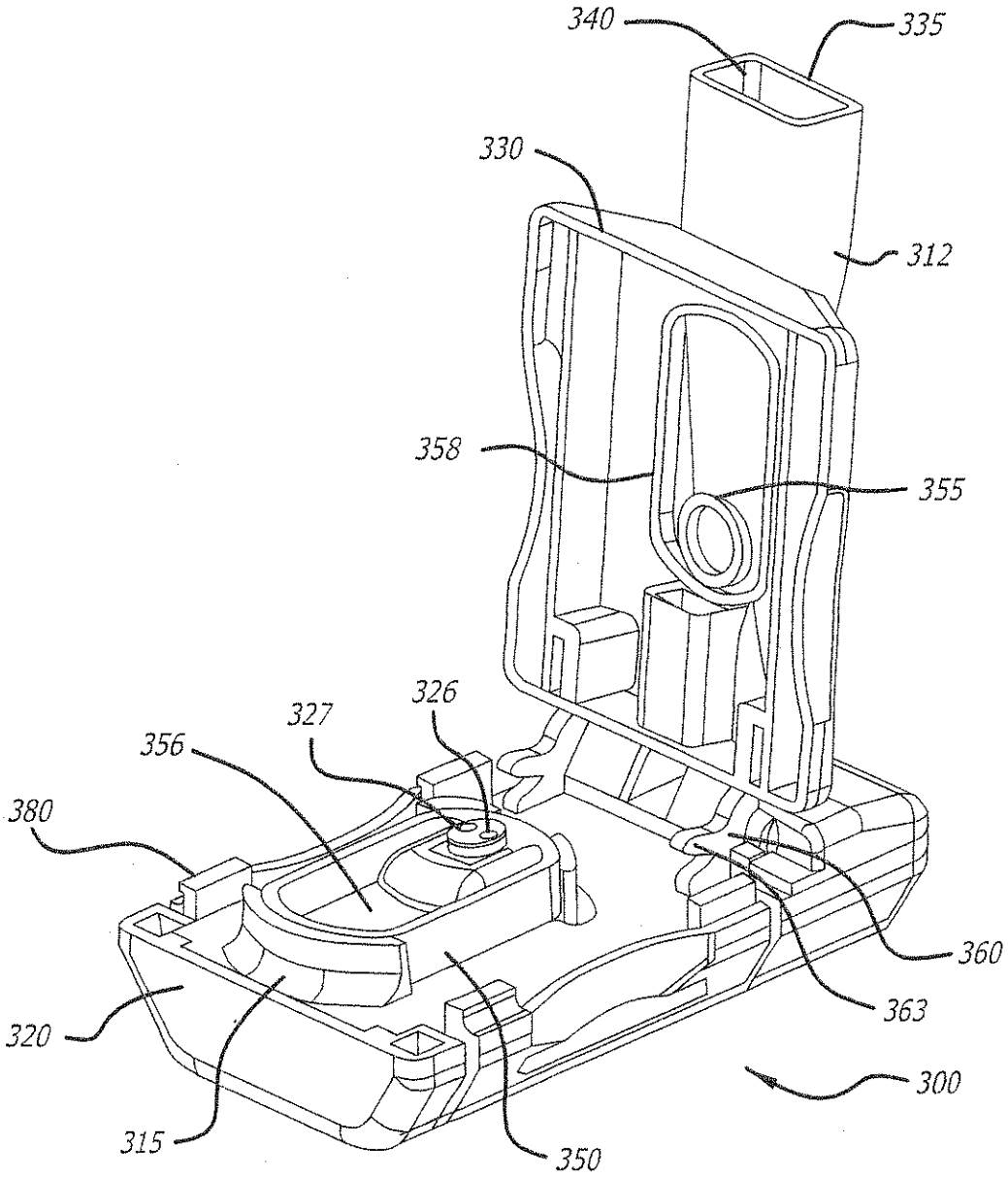


FIG. 14

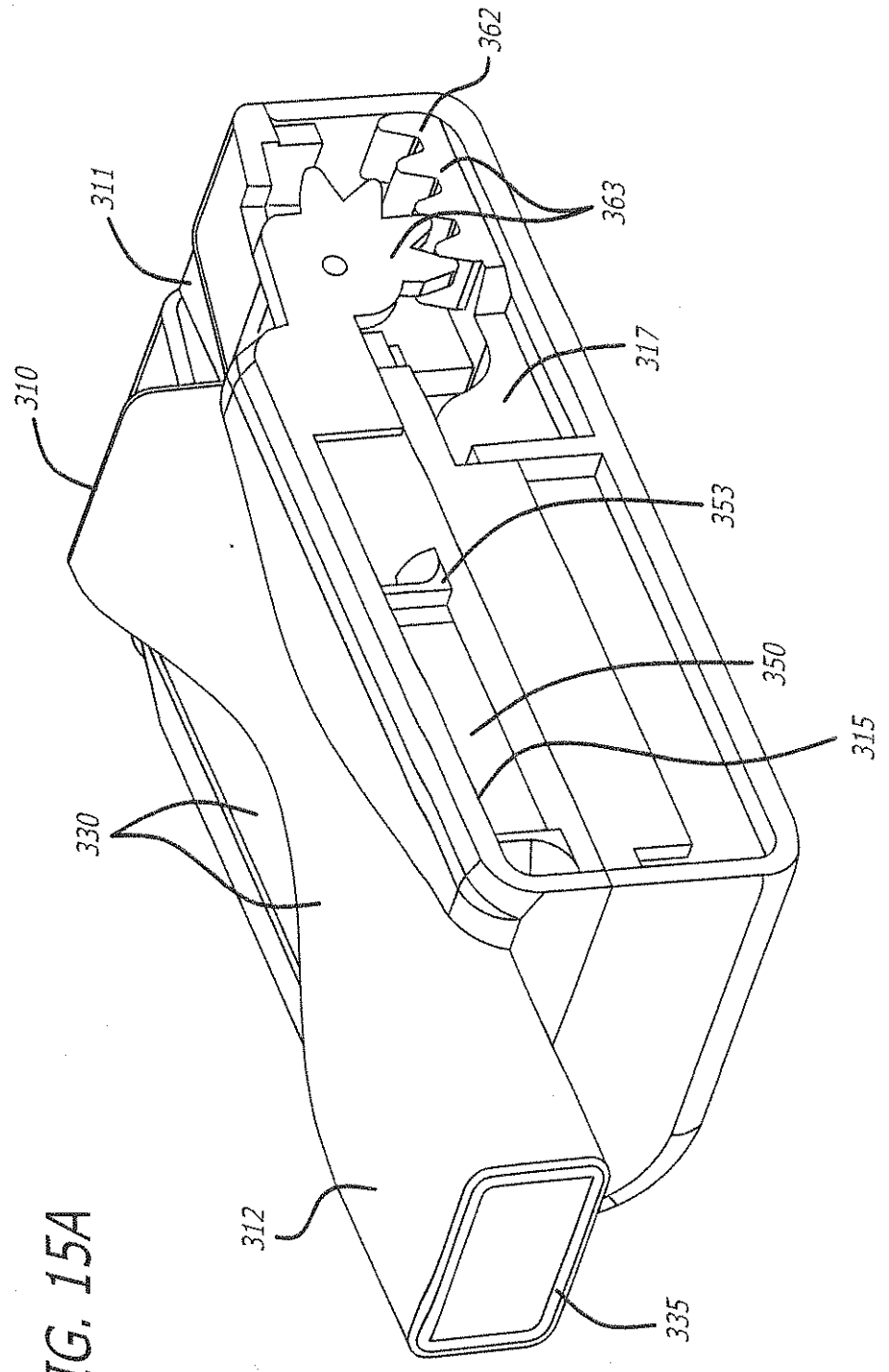


FIG. 15A

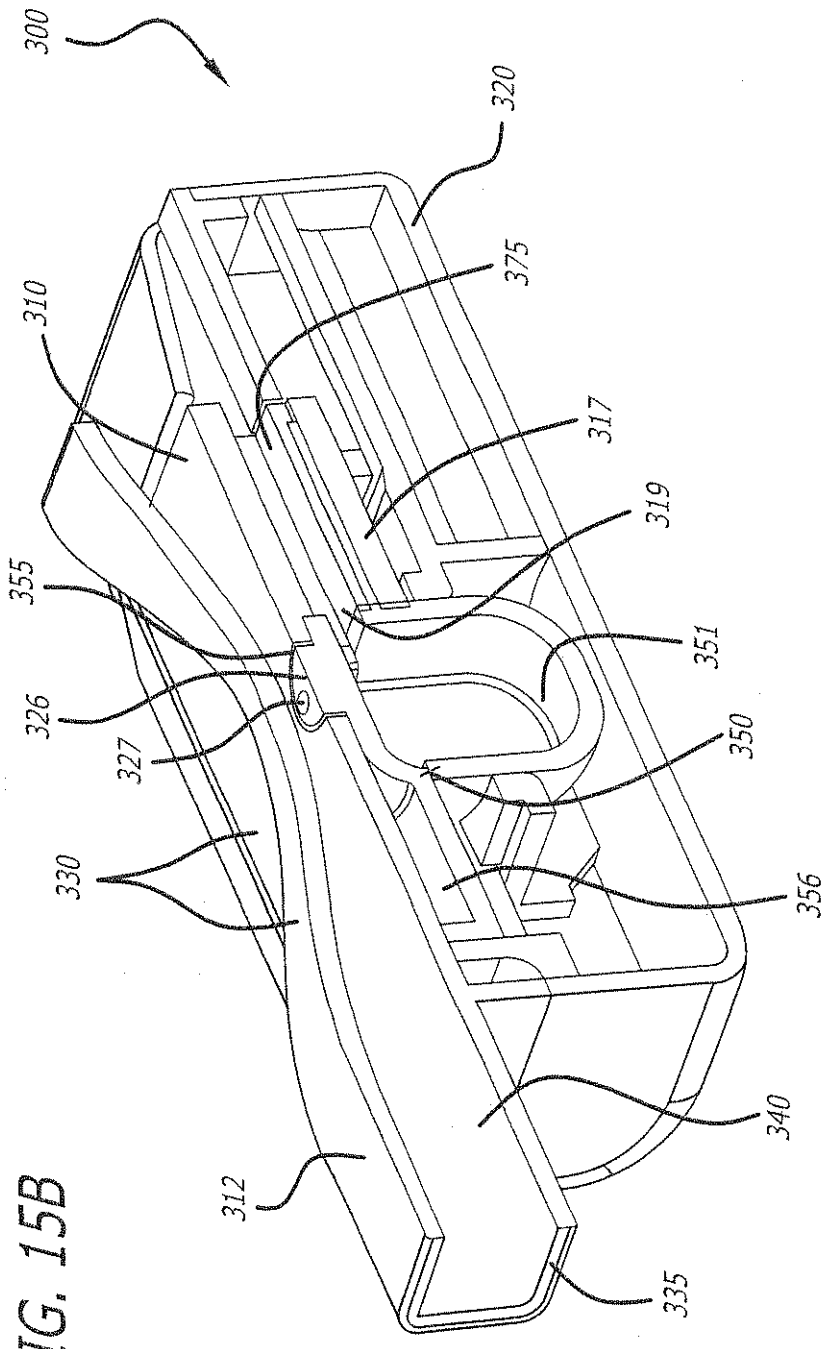


FIG. 15B

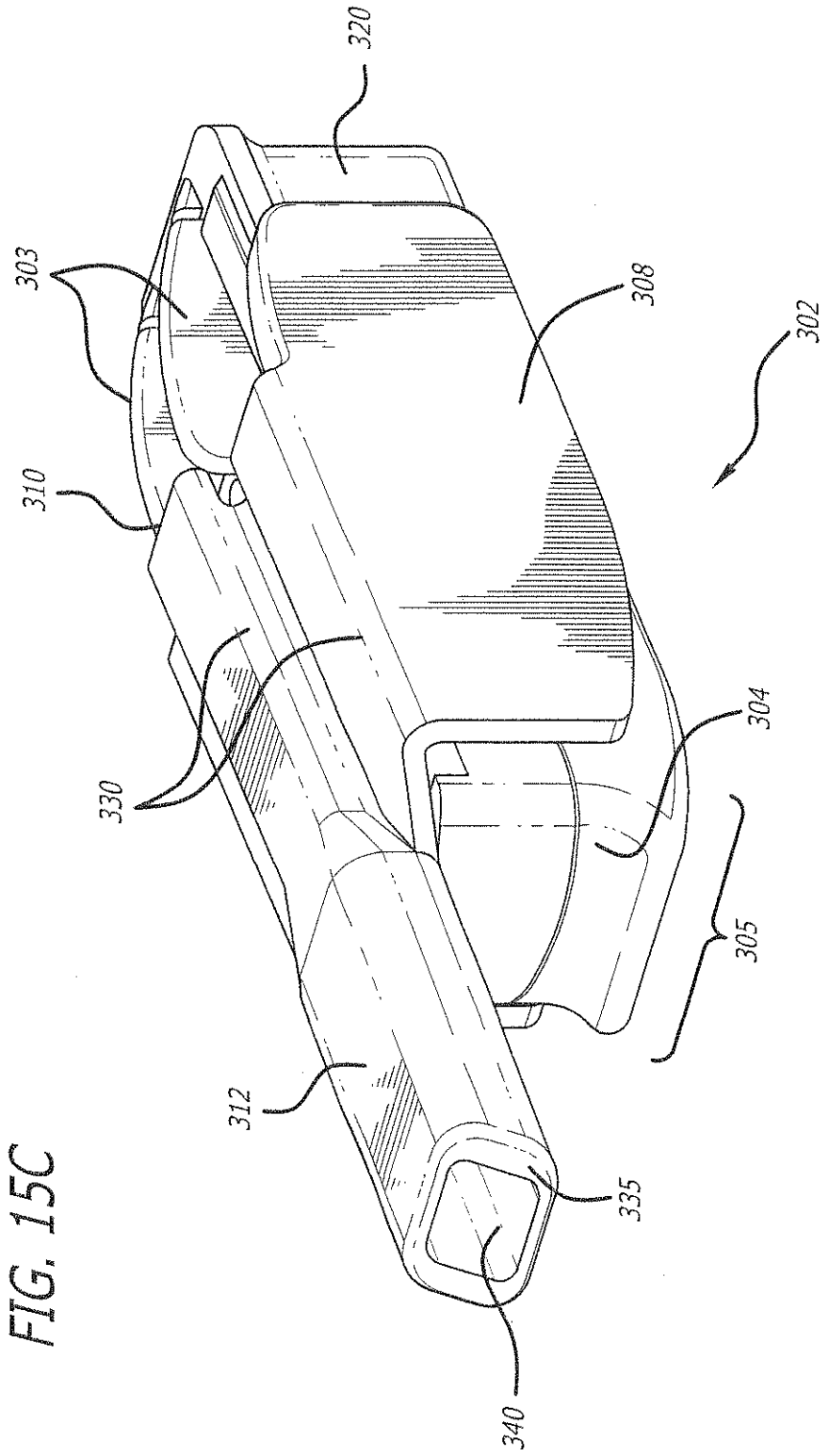


FIG. 15C

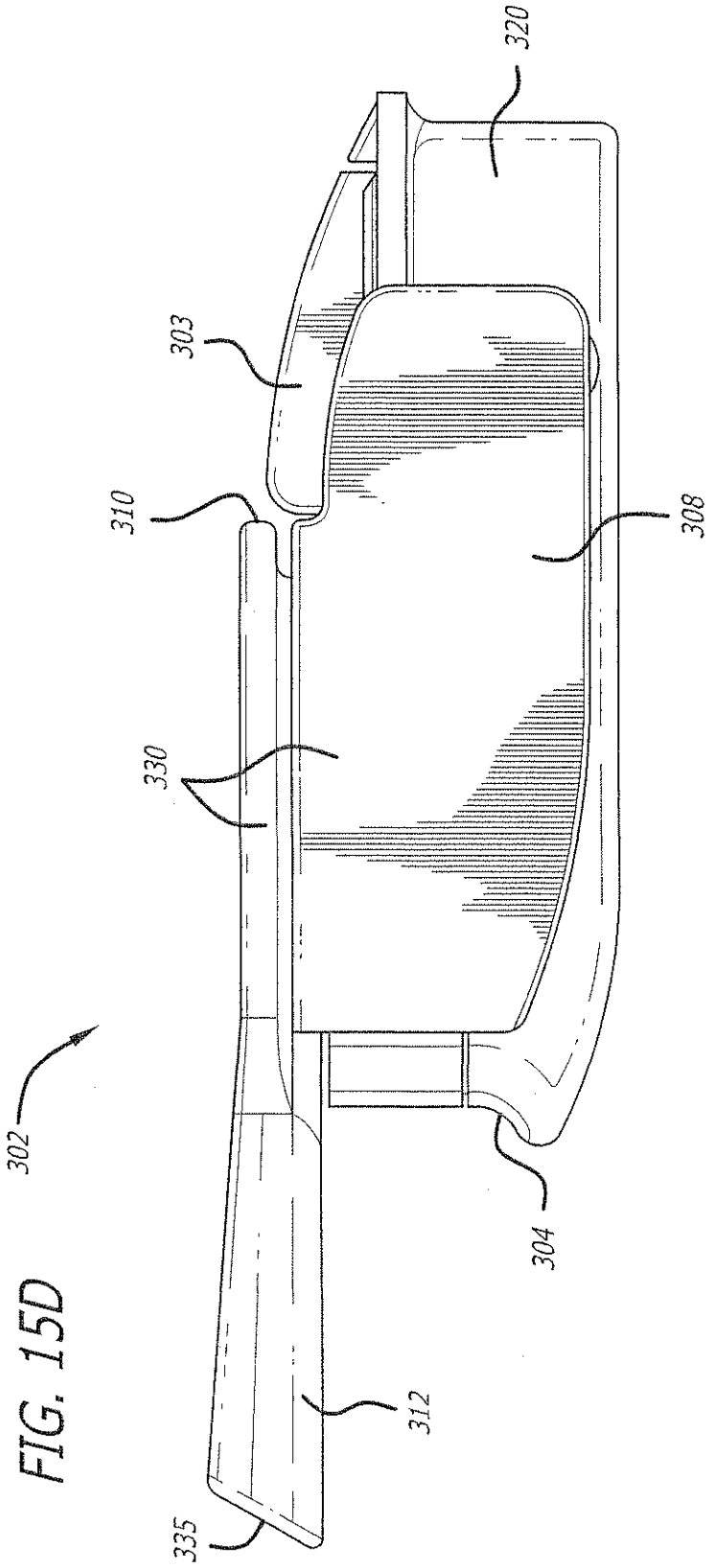


FIG. 15D

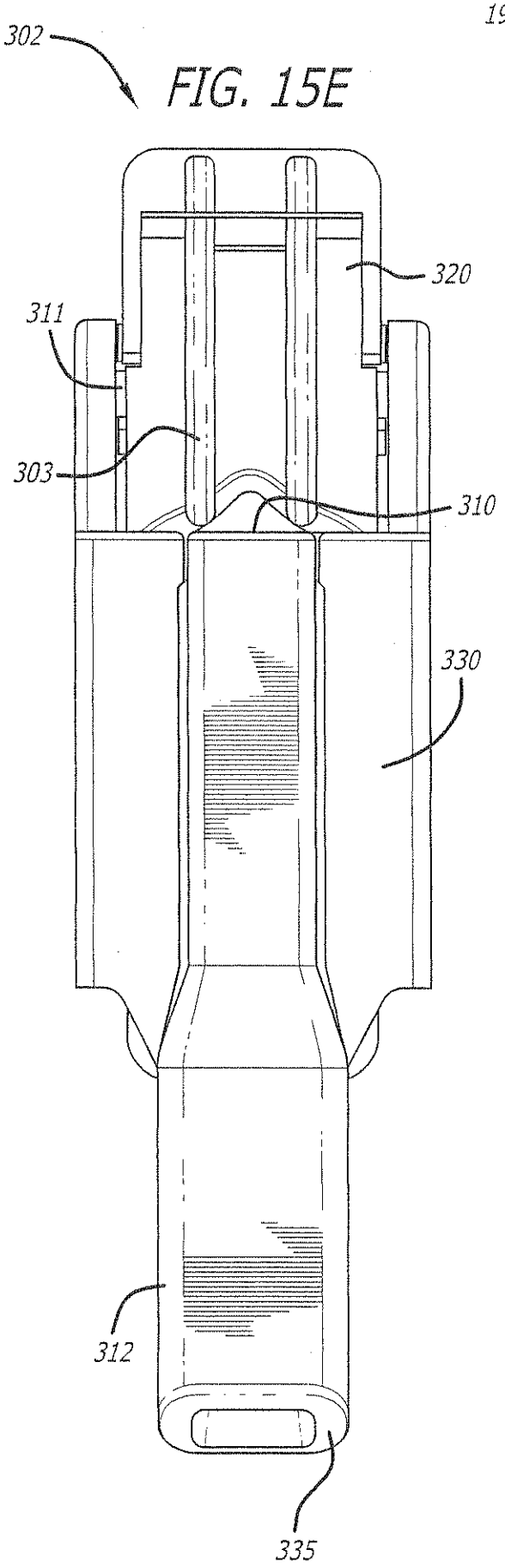


FIG. 15E

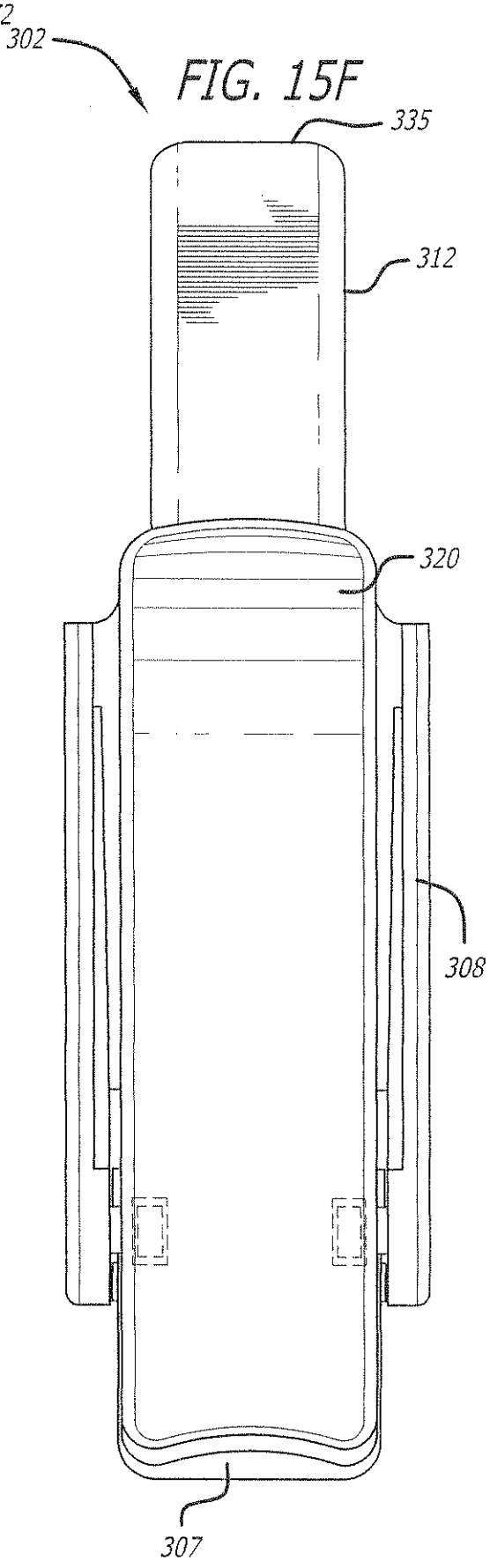


FIG. 15F

FIG. 15G

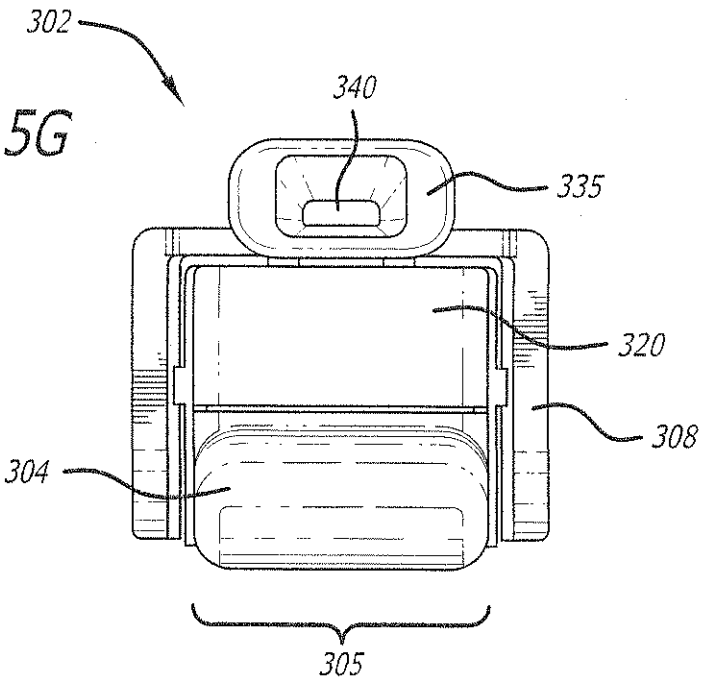
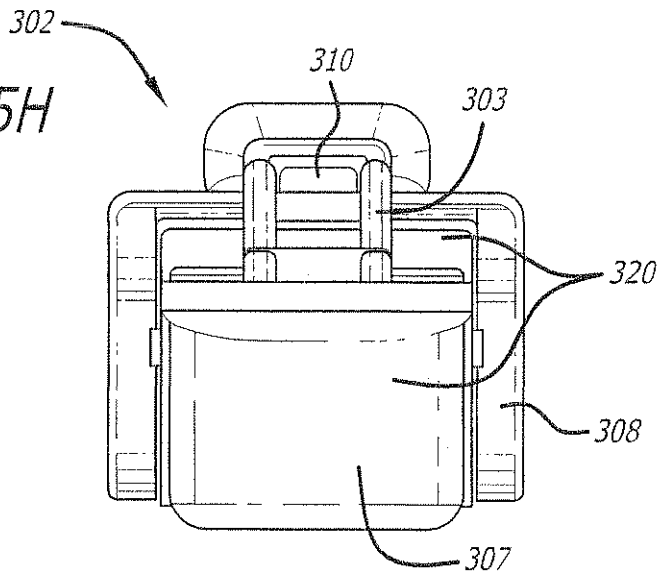


FIG. 15H



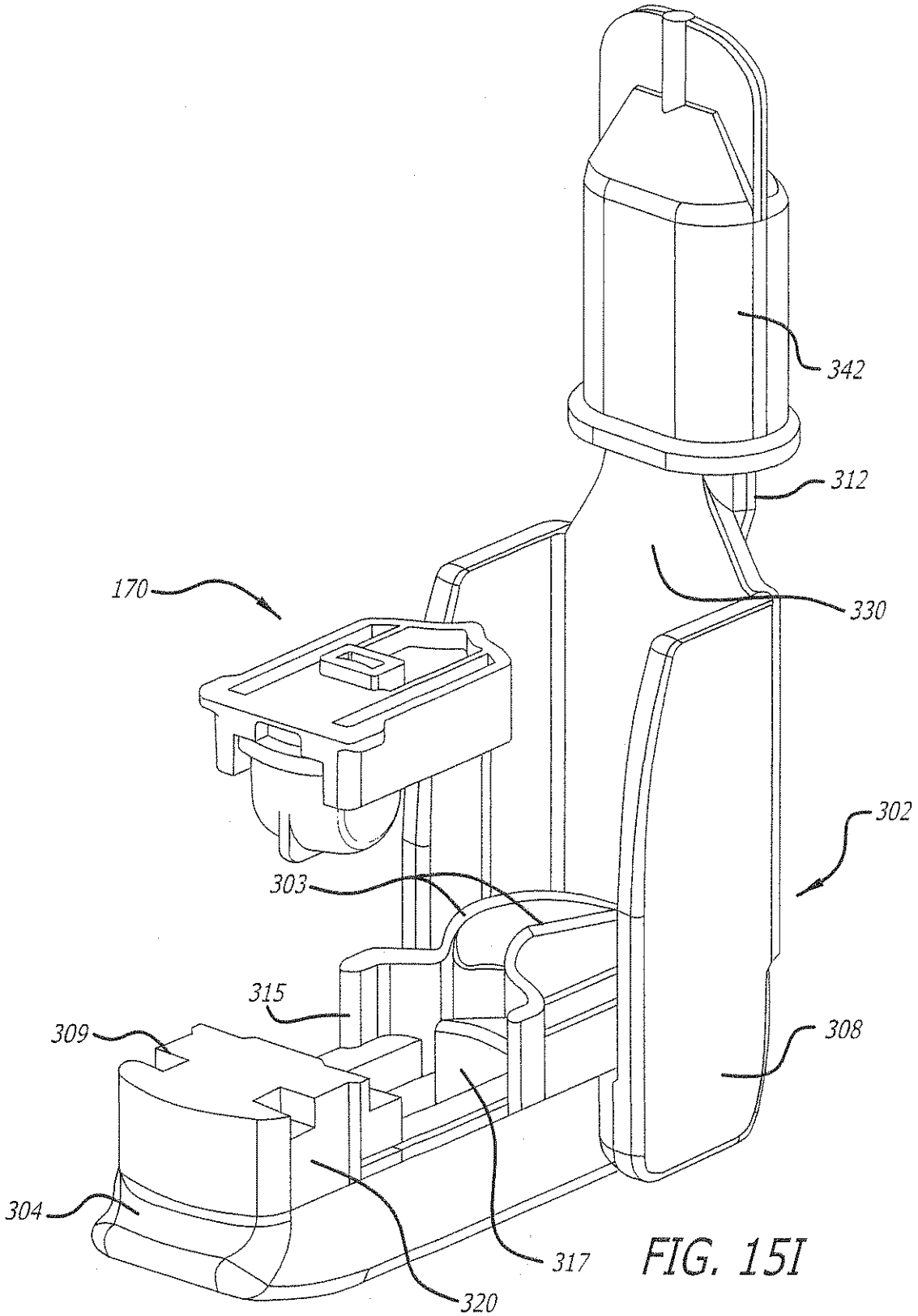
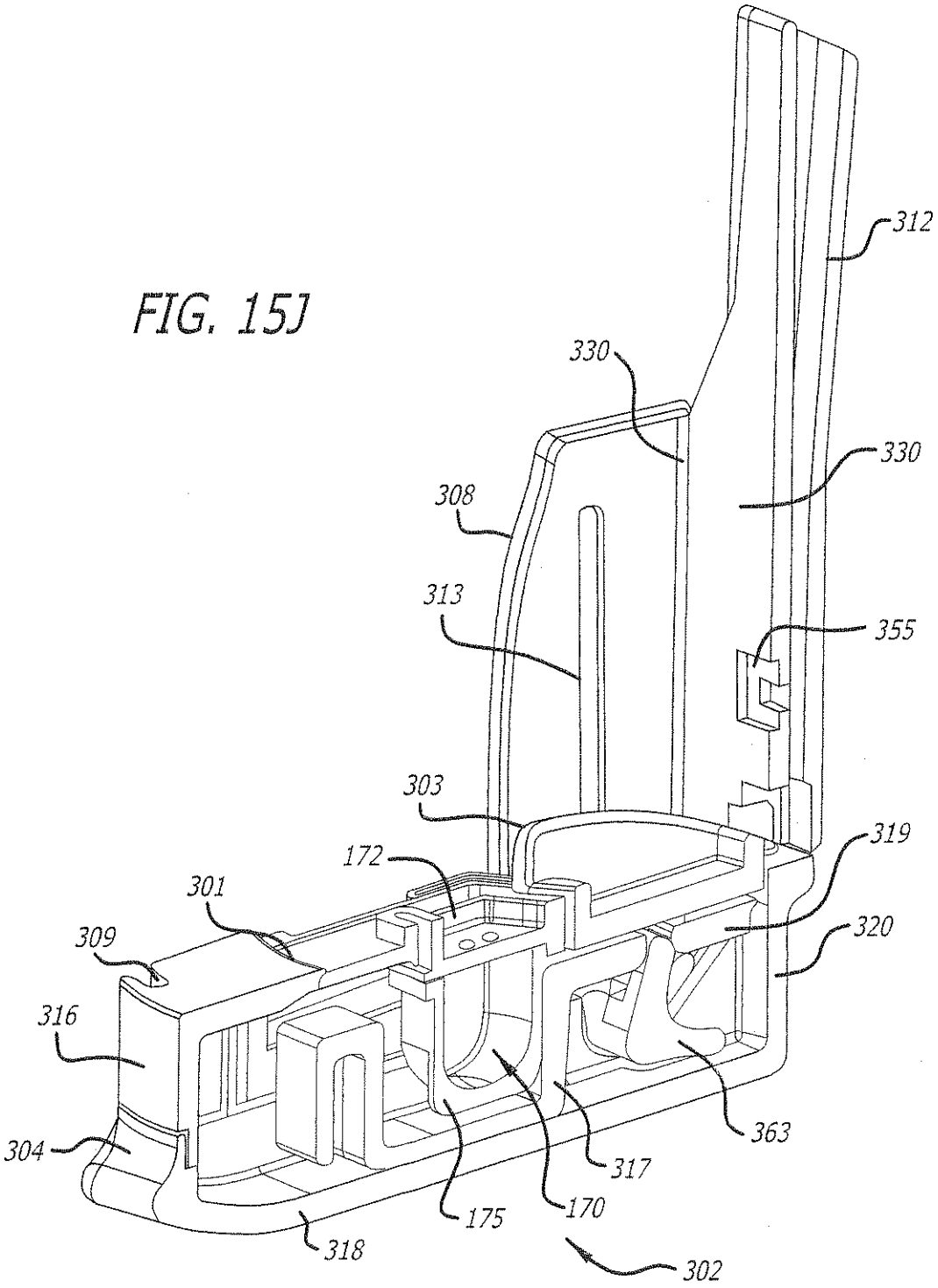


FIG. 15I

FIG. 15J


312
330
330
308
313
355
303
319
172
301
320
309
316
363
304
317
175
170
318
302

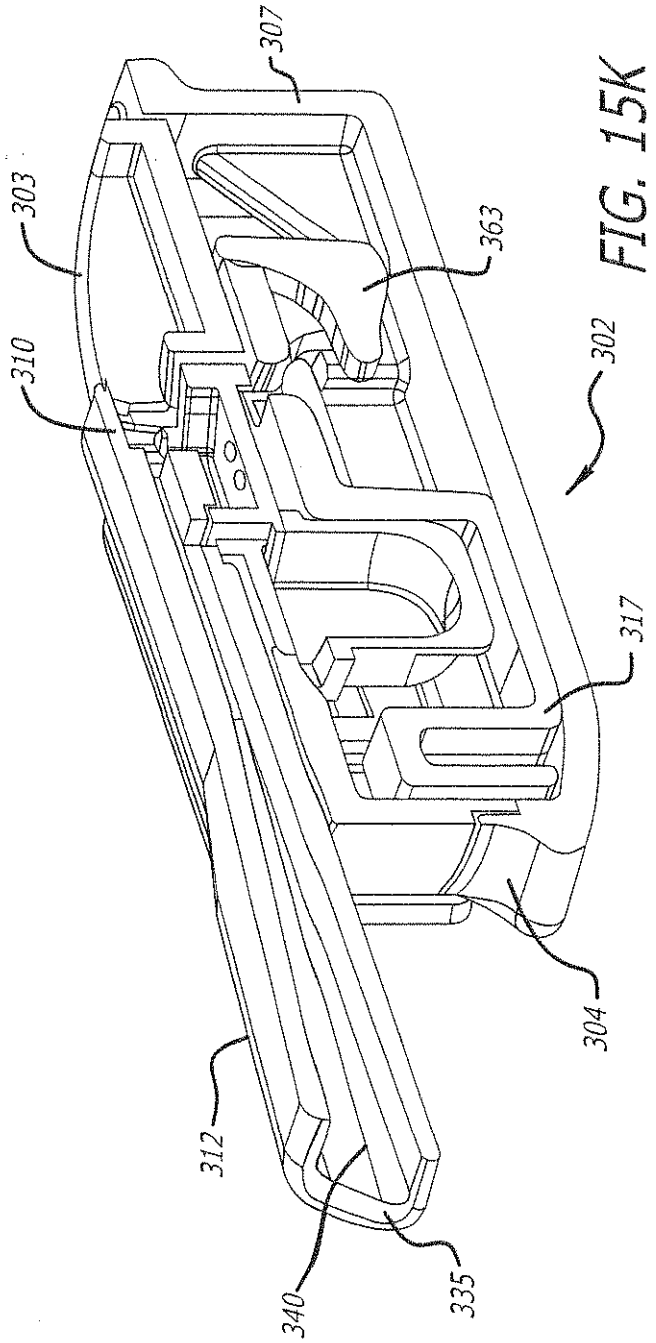


FIG. 15K

FIG. 16

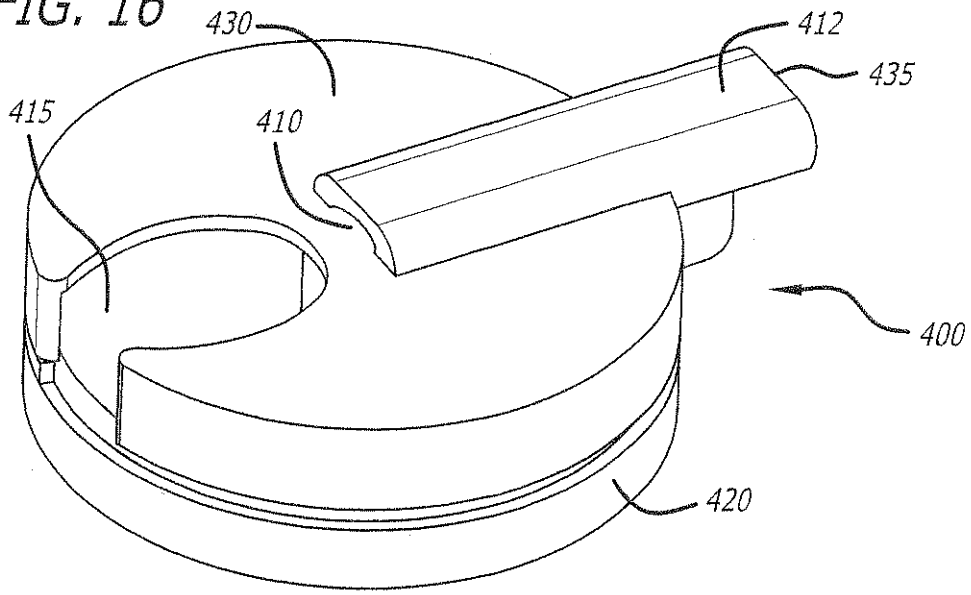


FIG. 17

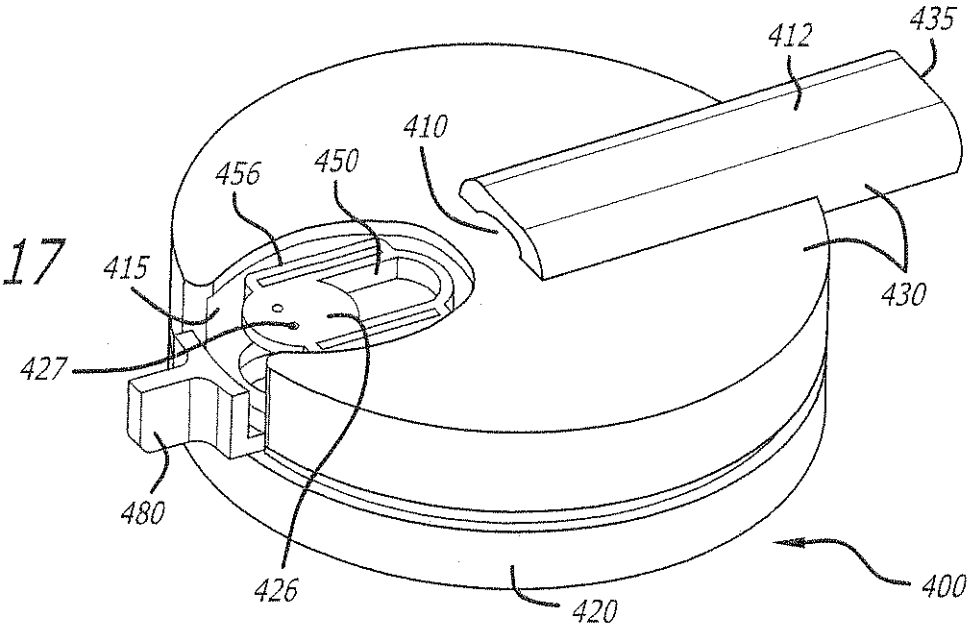


FIG. 18

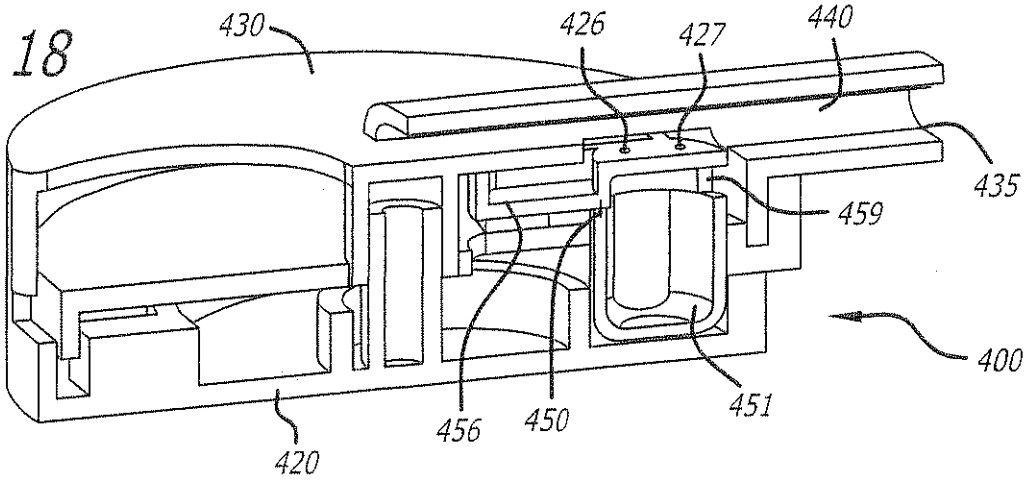


FIG. 19

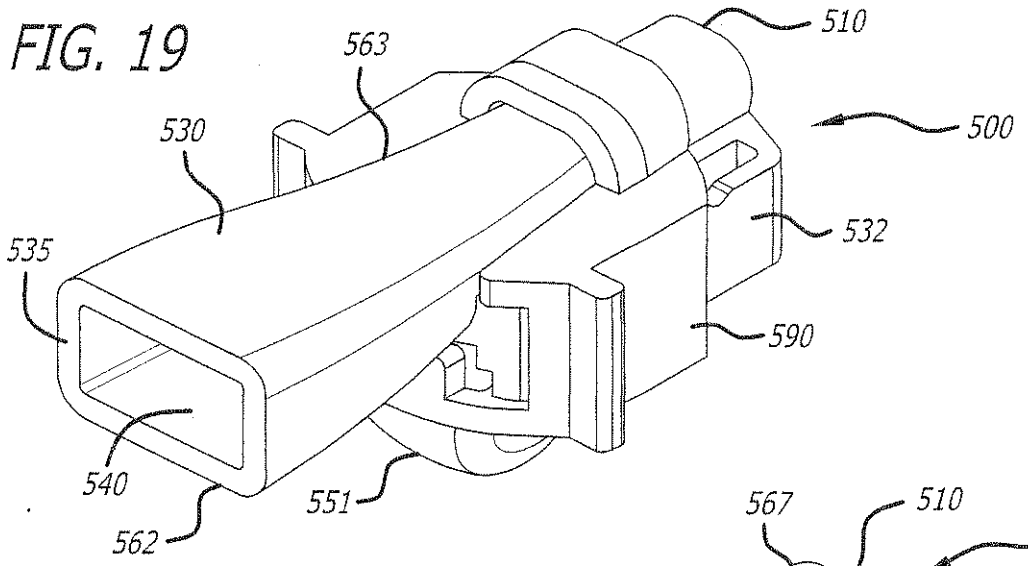


FIG. 20

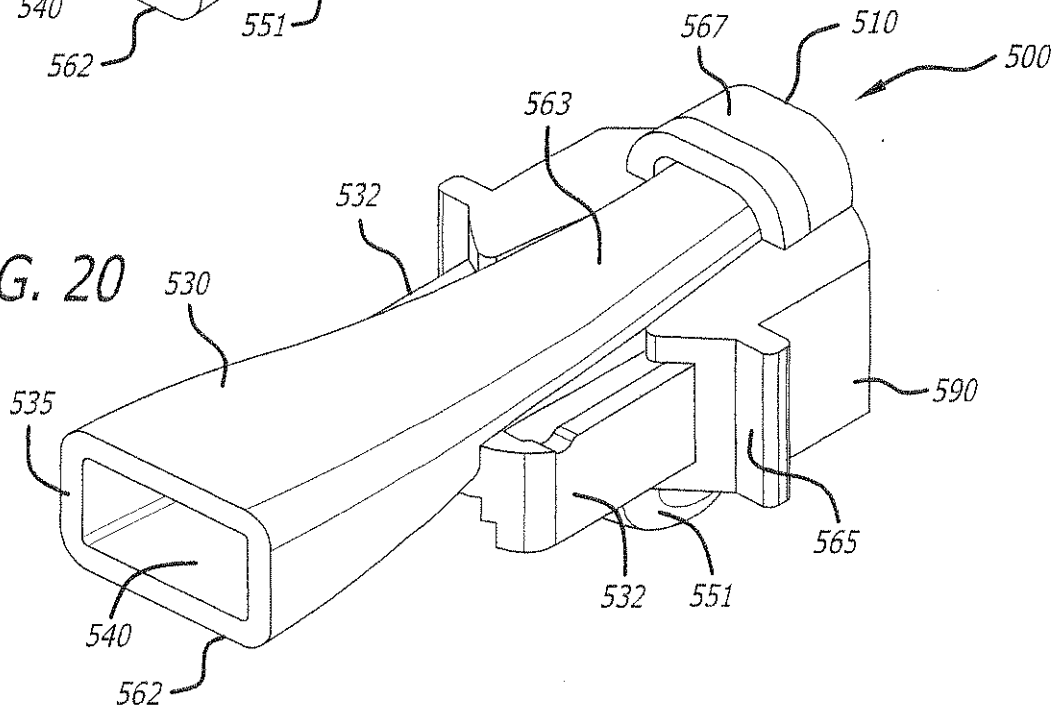


FIG. 21

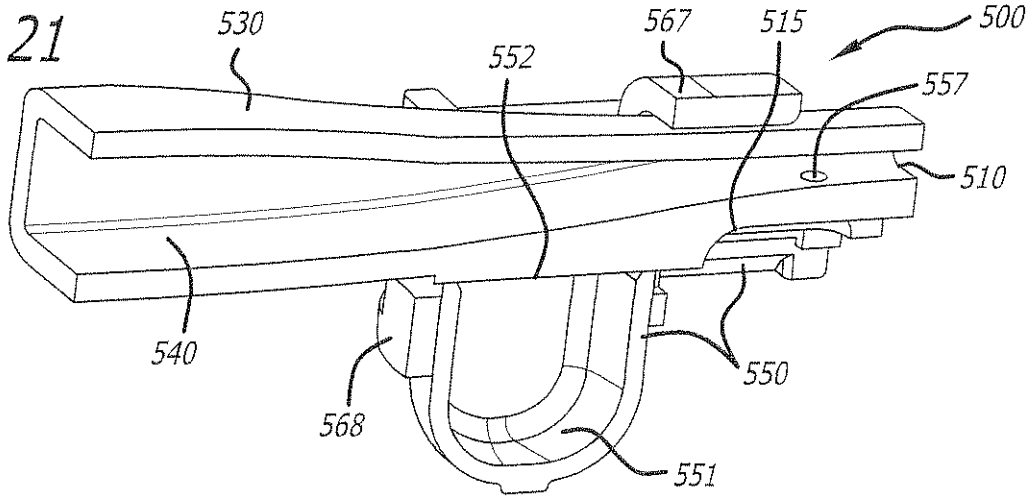


FIG. 22

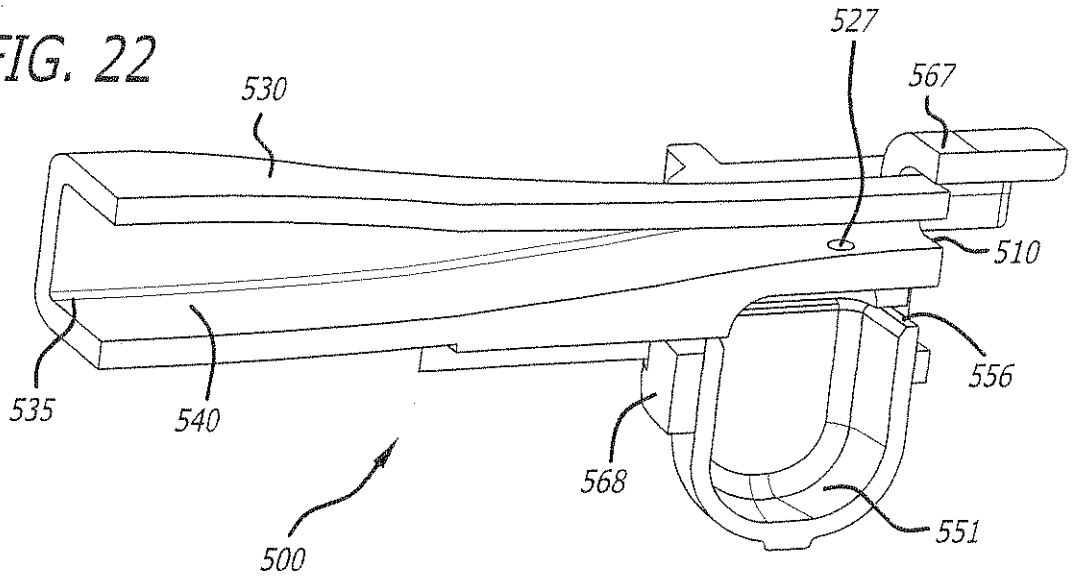

527
567
530
510
556
535
540
568
551
500

FIG. 23

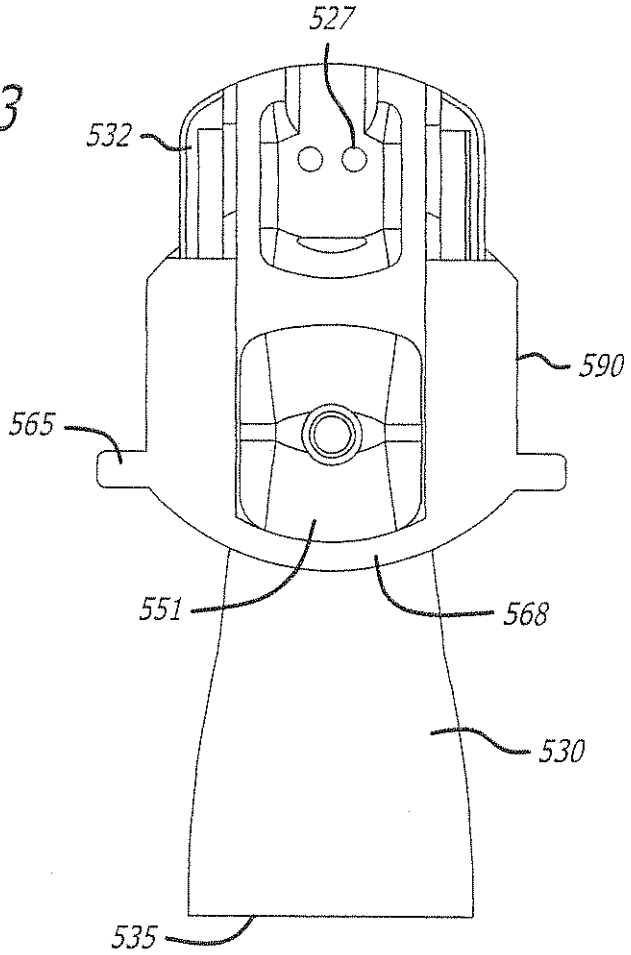

527
532
590
565
551
568
530
535

FIG. 24

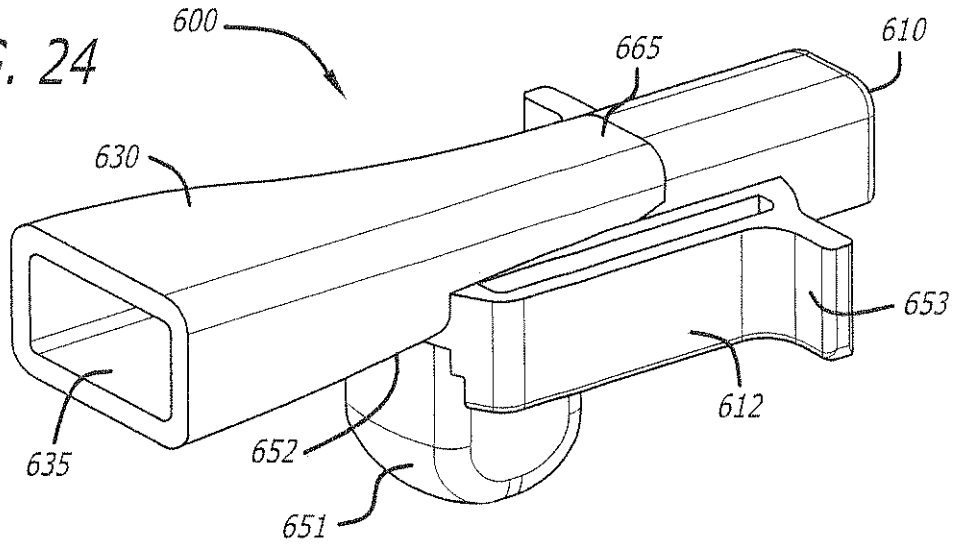


FIG. 25

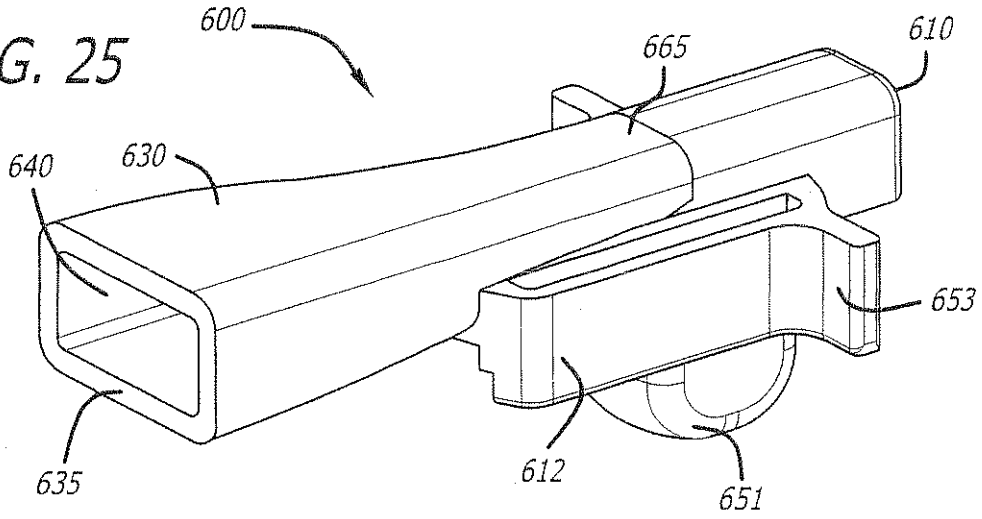


FIG. 26

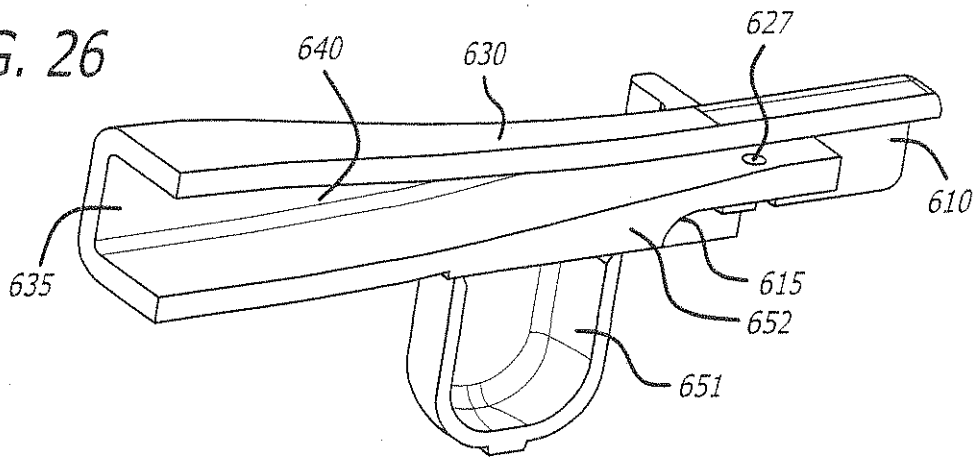


FIG. 27

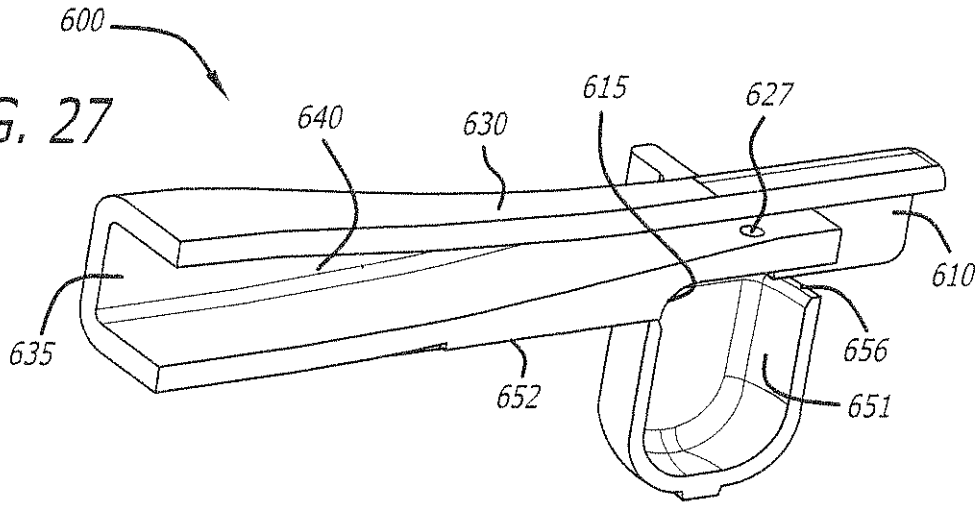
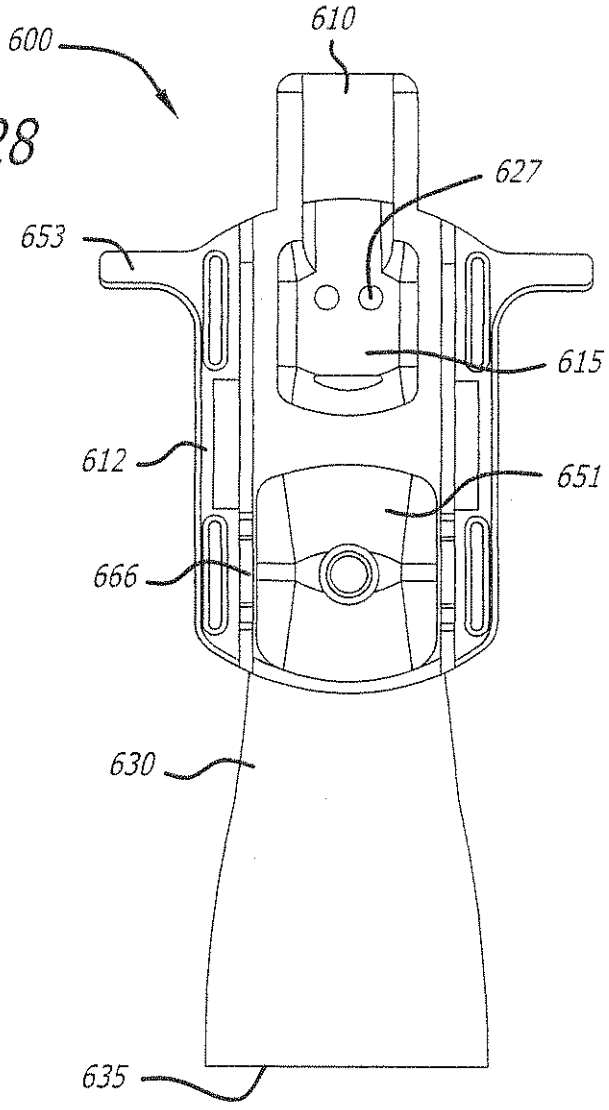

600
640
630
615
627
610
635
652
656
651

FIG. 28


600
610
627
653
615
612
651
666
630
635

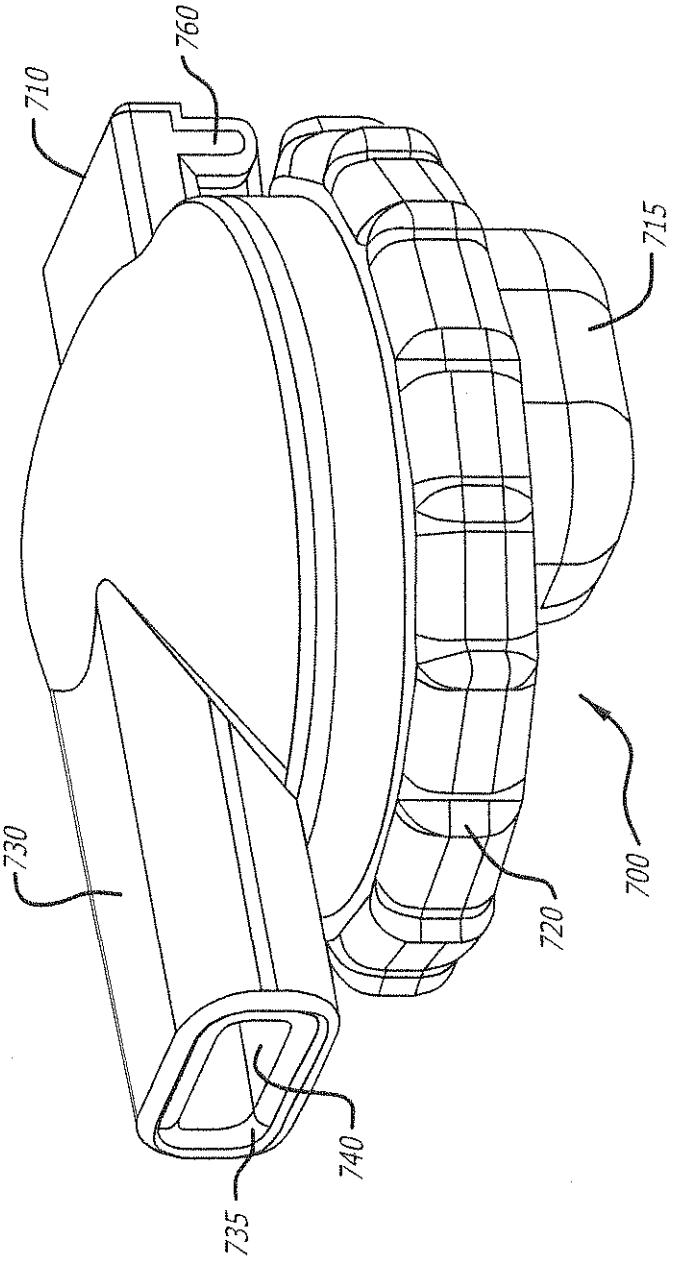


FIG. 29

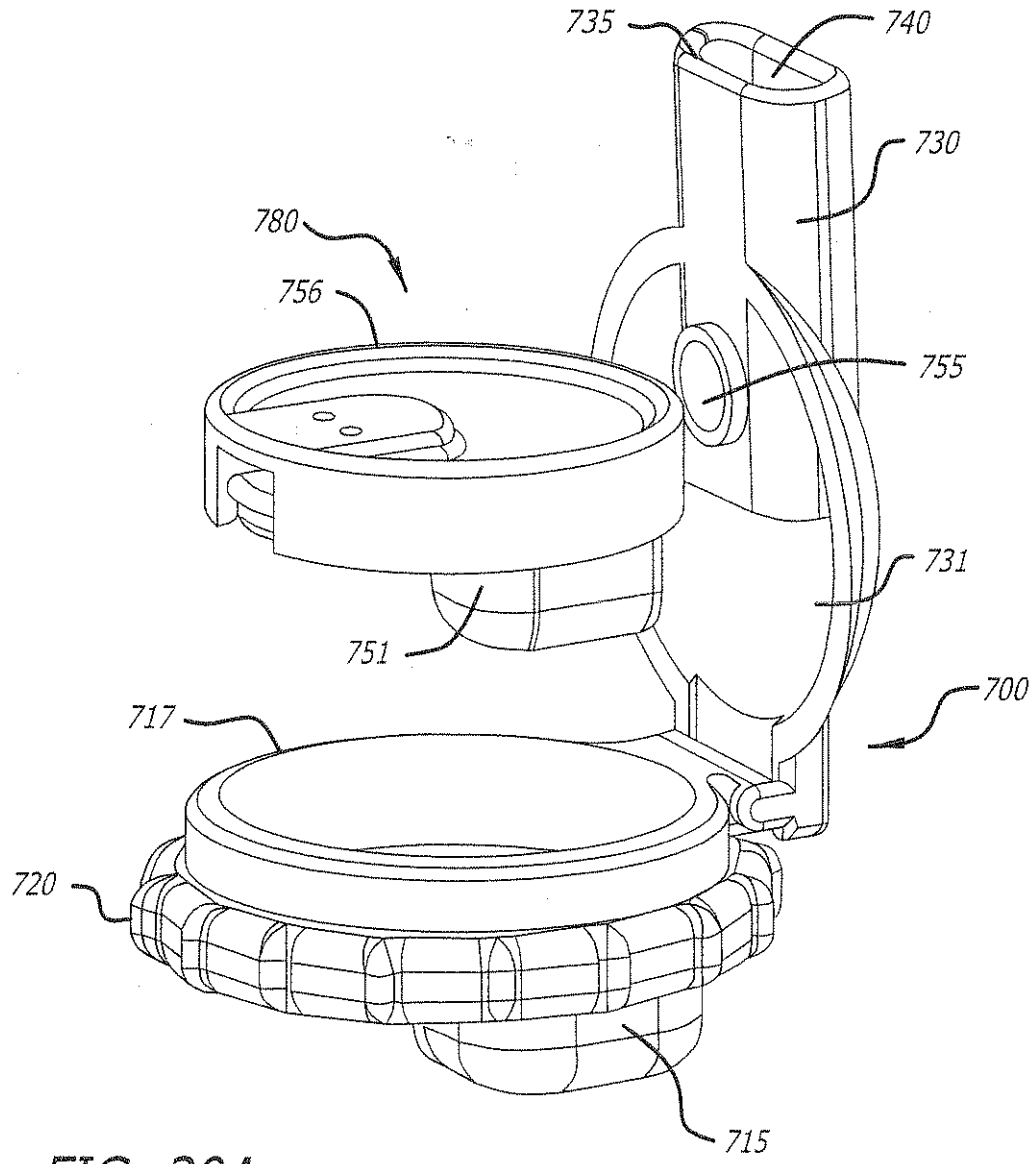


FIG. 30A

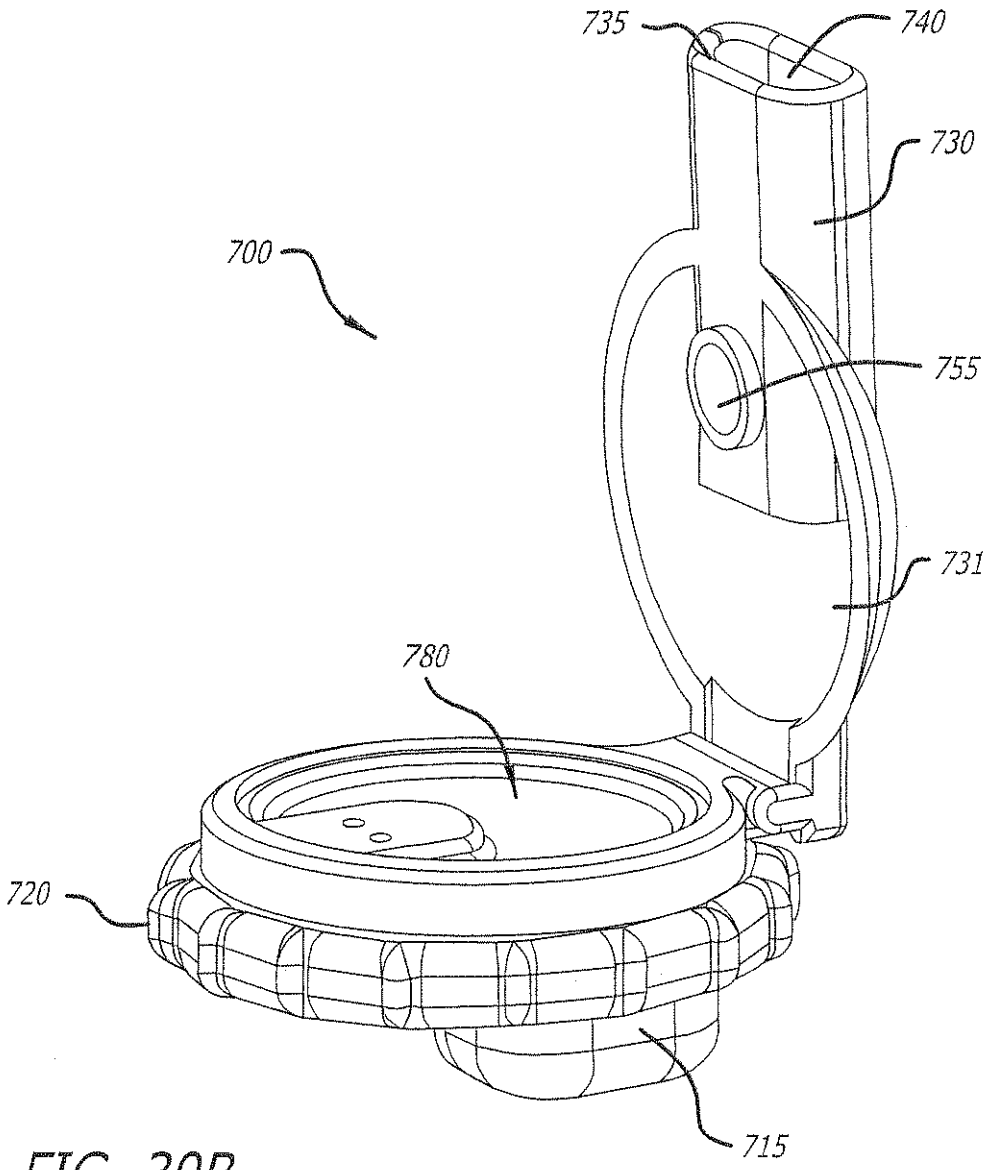


FIG. 30B

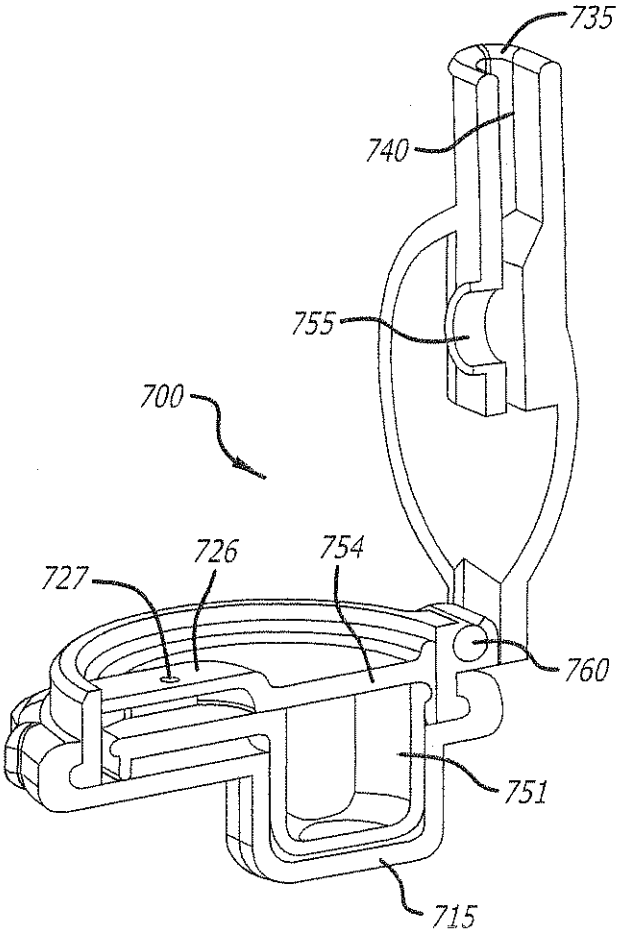

735
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751
715

FIG. 31

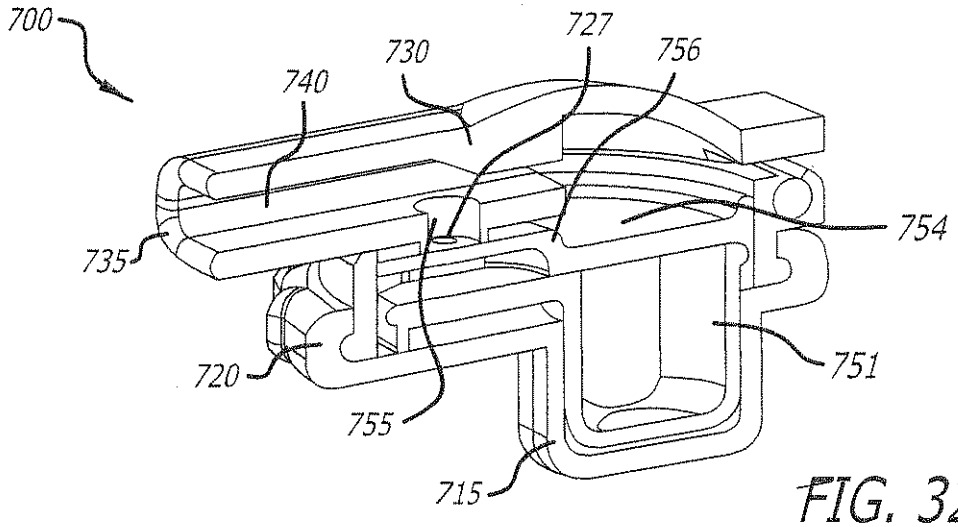

700
730
727
756
740
754
735
720
751
755
715

FIG. 32

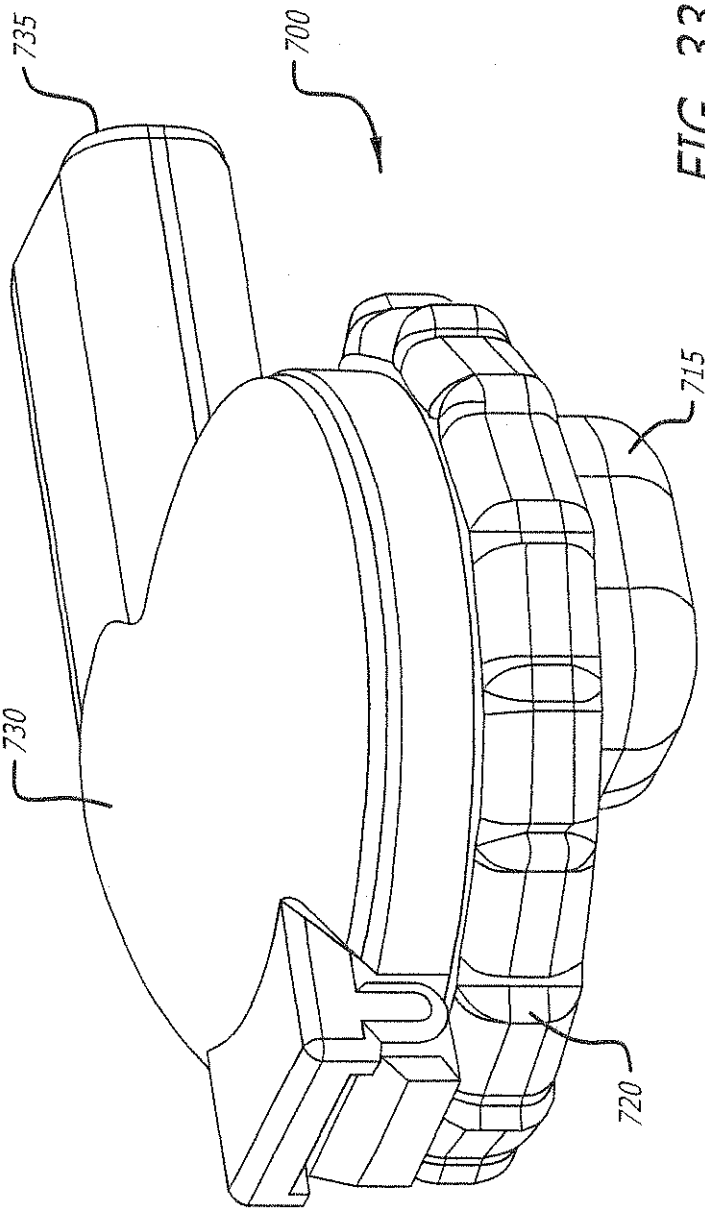


FIG. 33

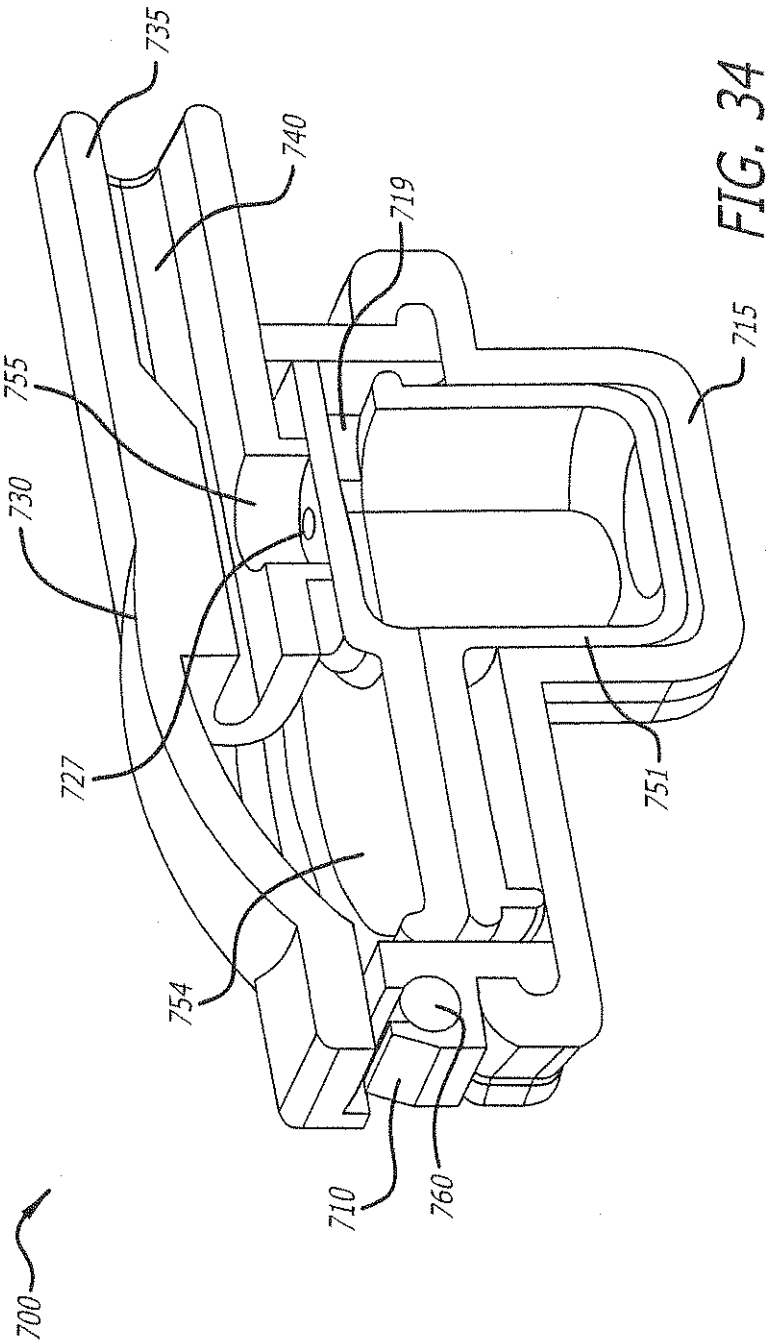


FIG. 34

FIG. 35

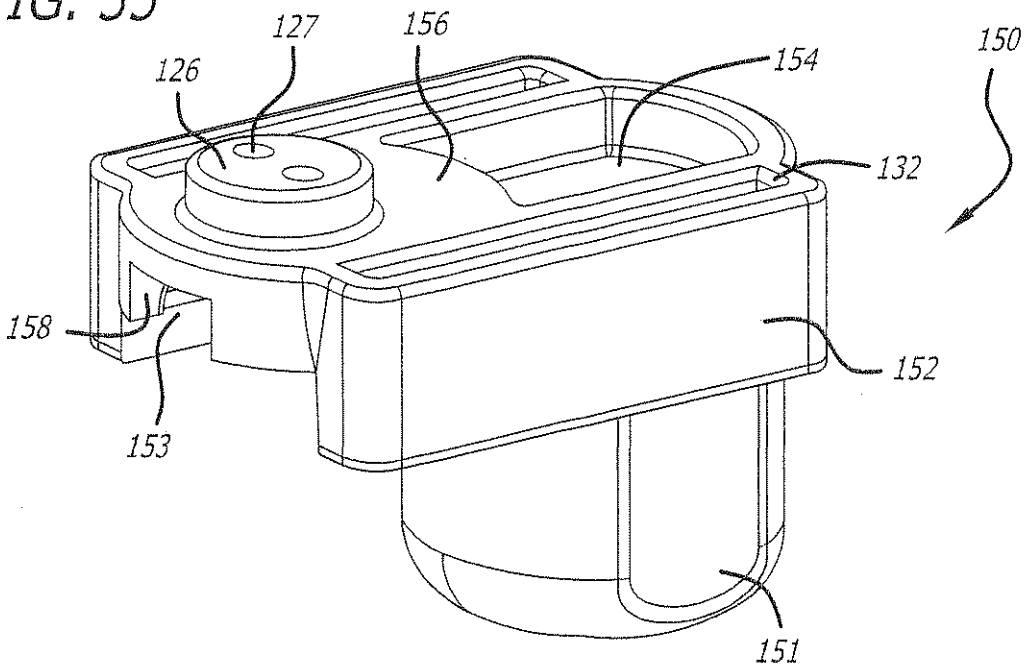

127
156
126
154
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132
158
152
153
151

FIG. 36

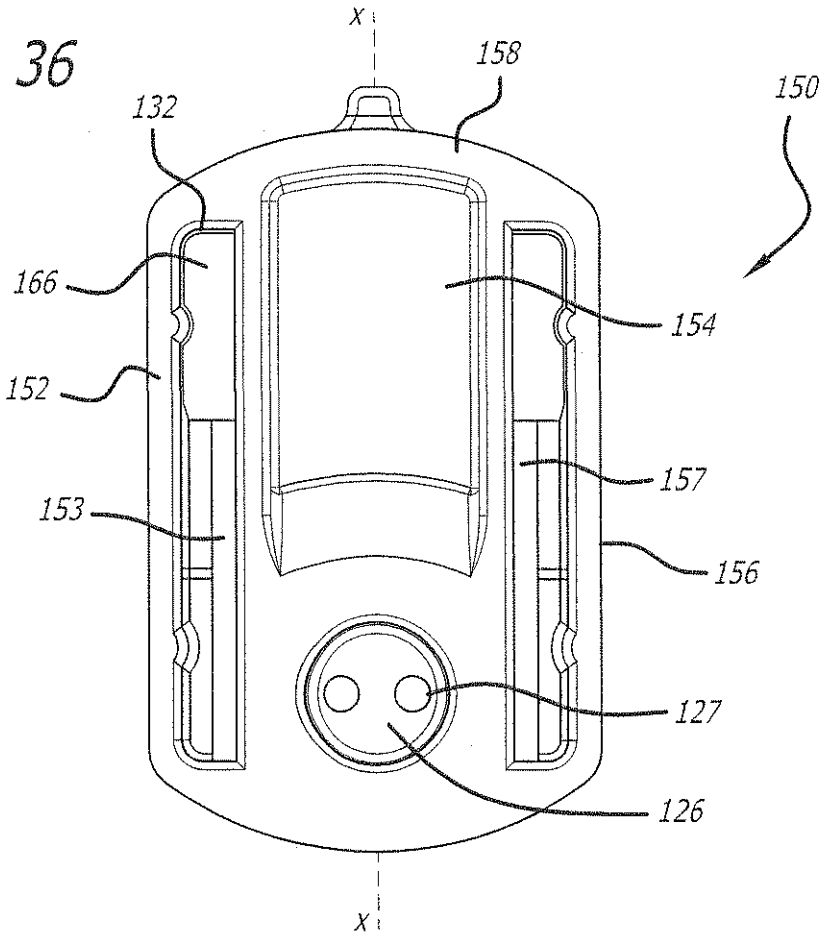

X
158
150
132
166
154
152
157
153
156
127
126
X

FIG. 37

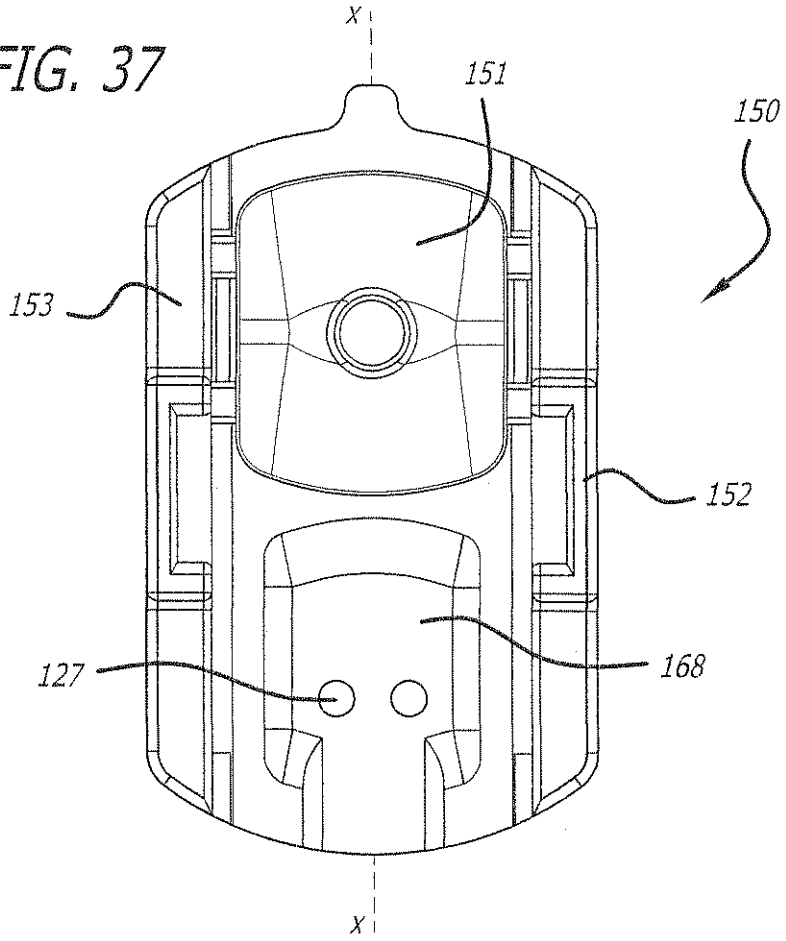


FIG. 38A

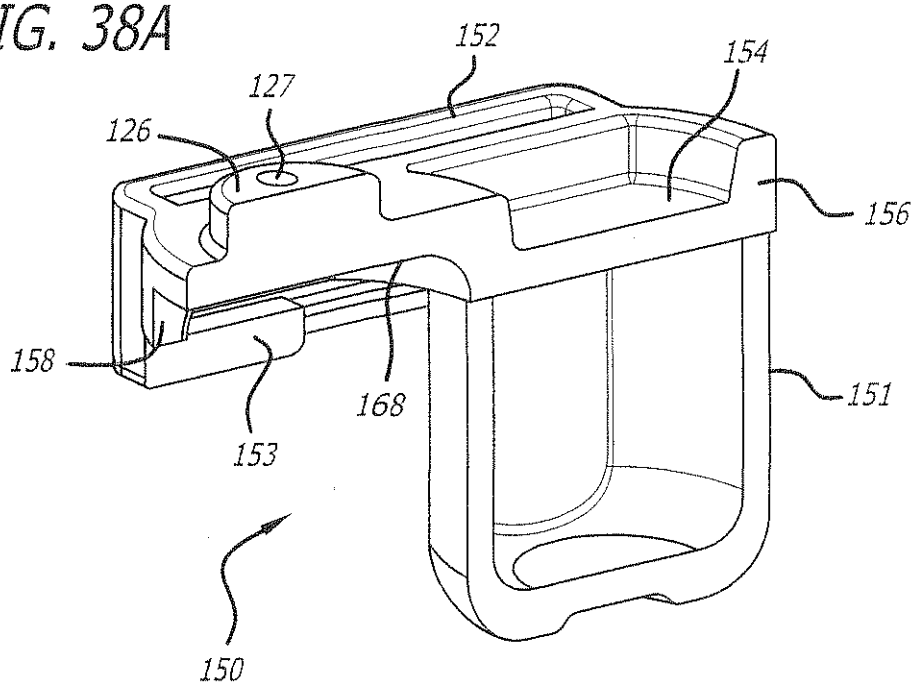


FIG. 38B

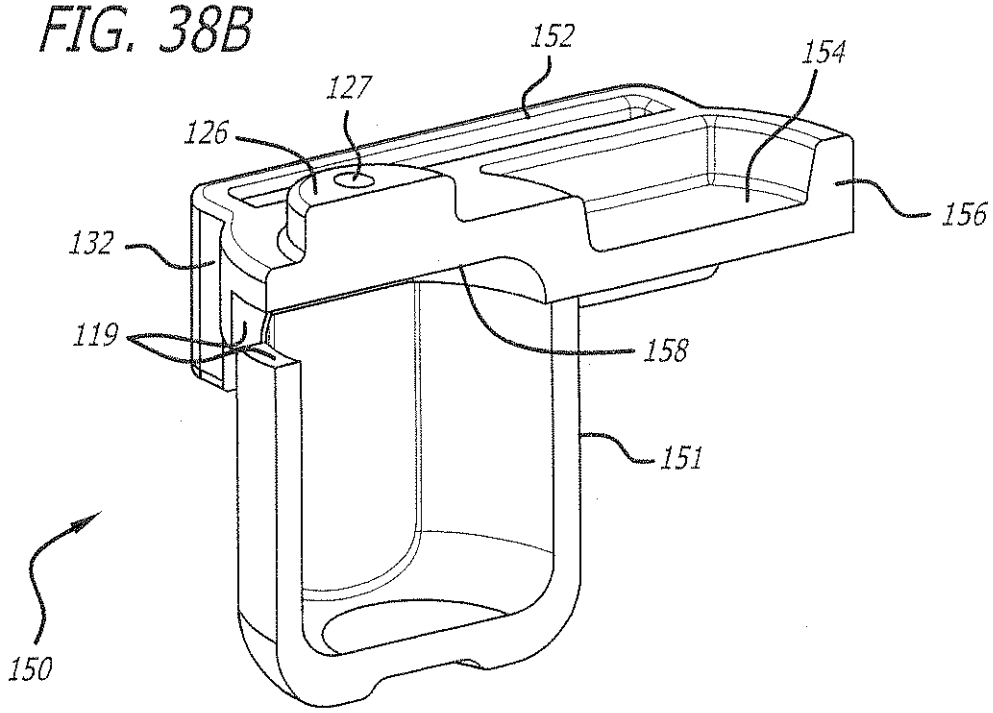
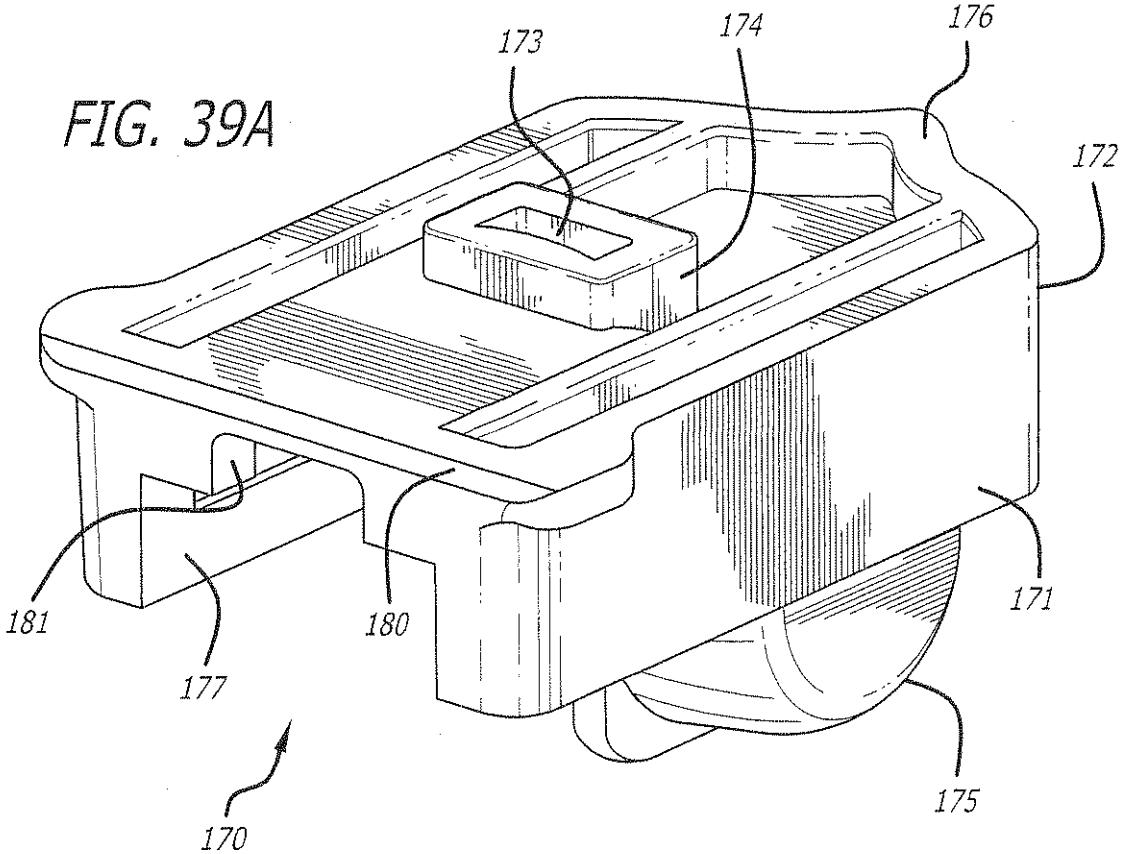


FIG. 39A



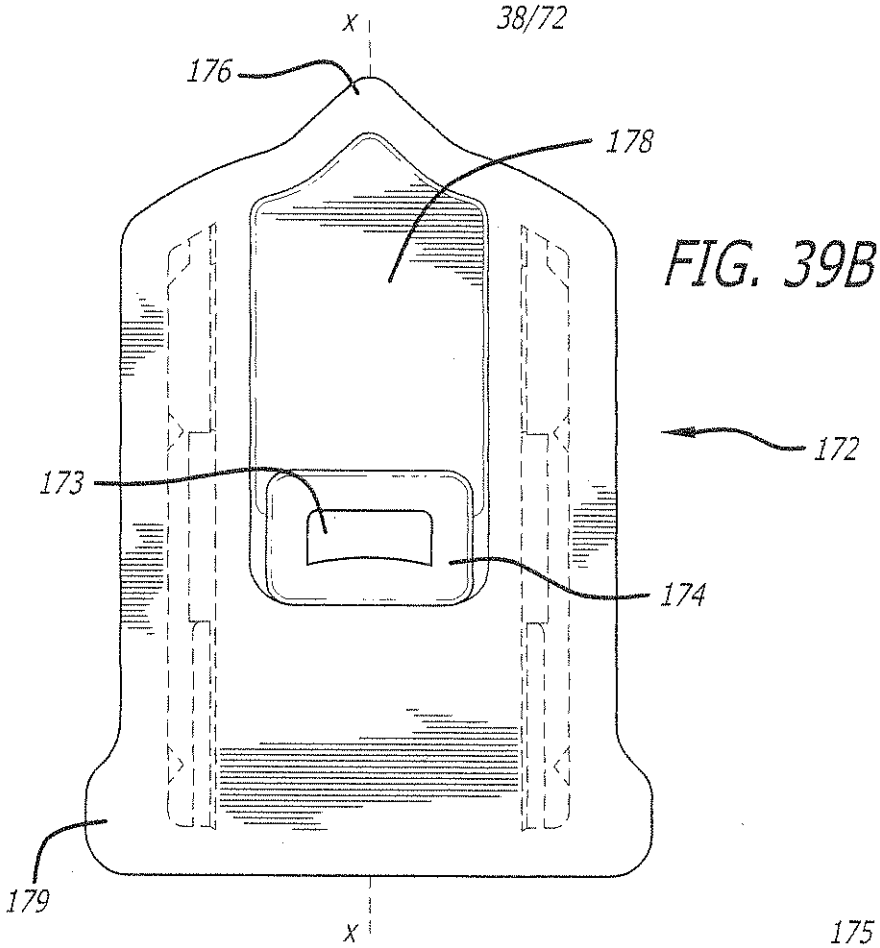


FIG. 39B

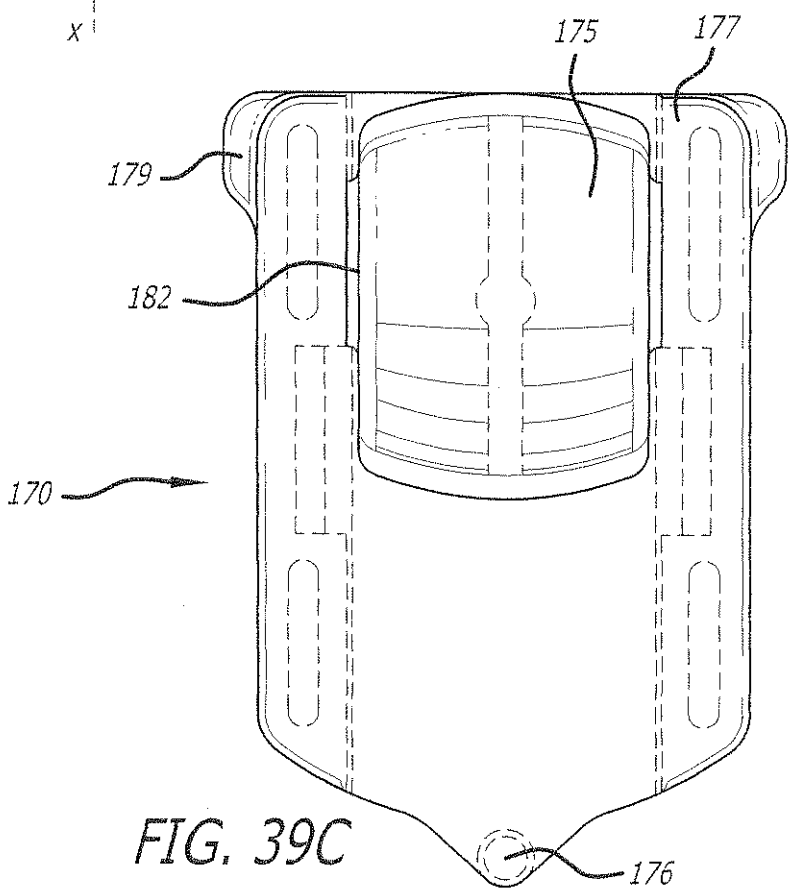


FIG. 39C

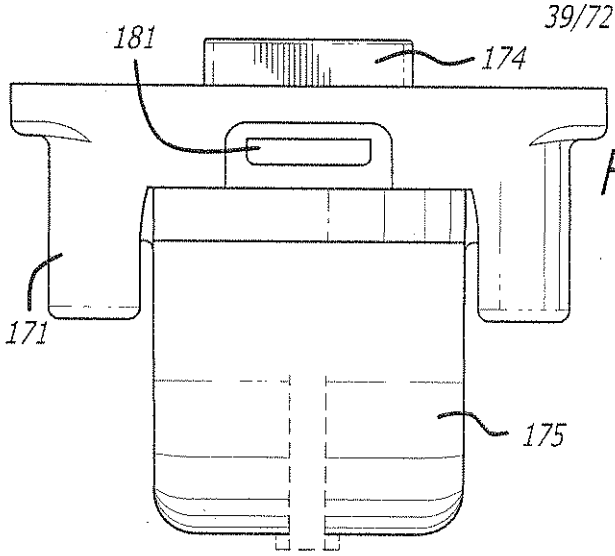


FIG. 39D

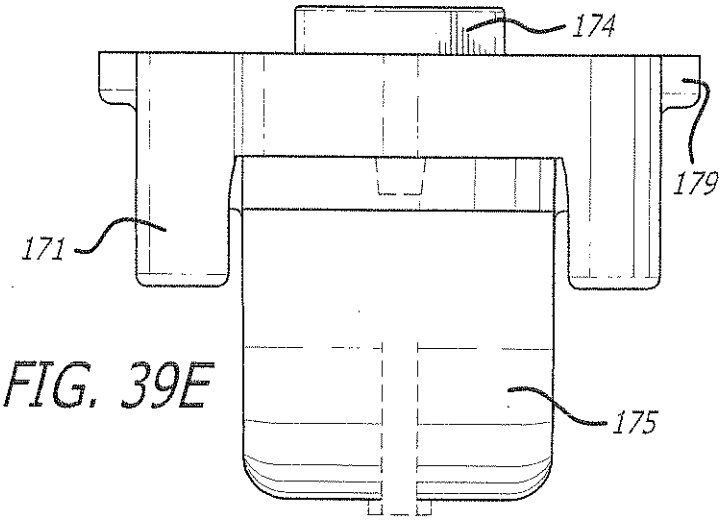


FIG. 39E

FIG. 39F

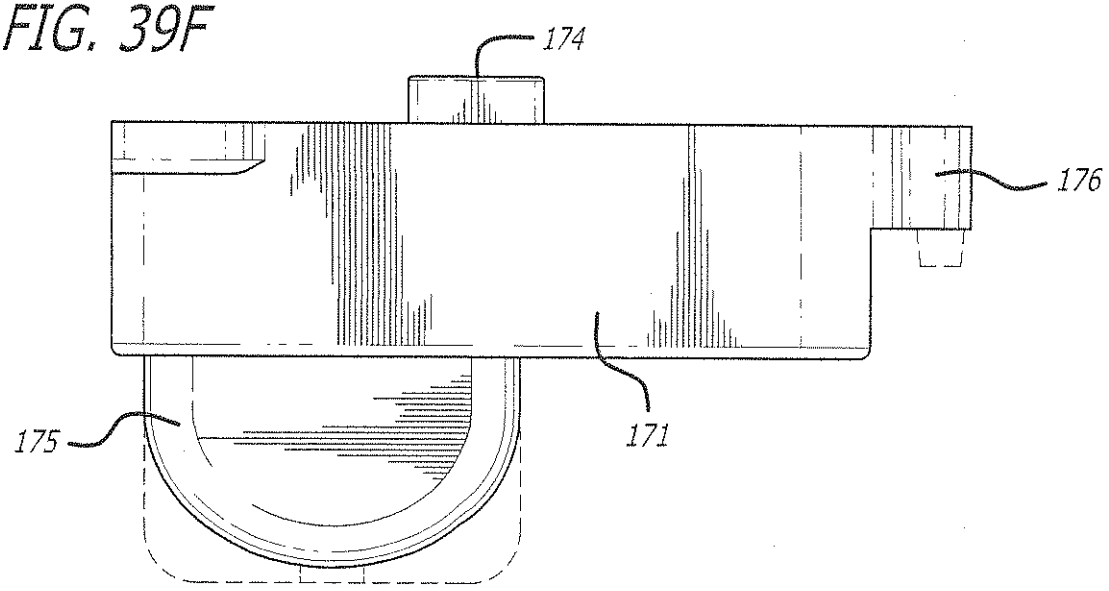


FIG. 39G

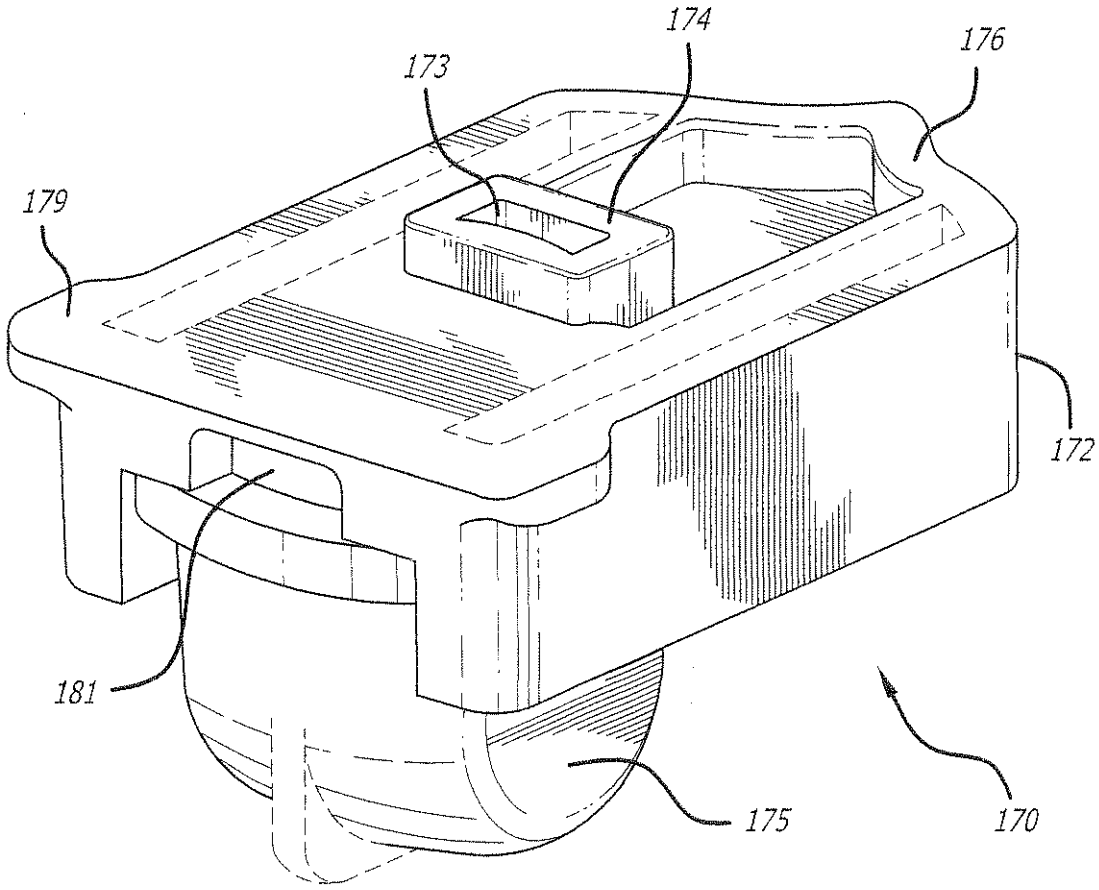


FIG. 39H

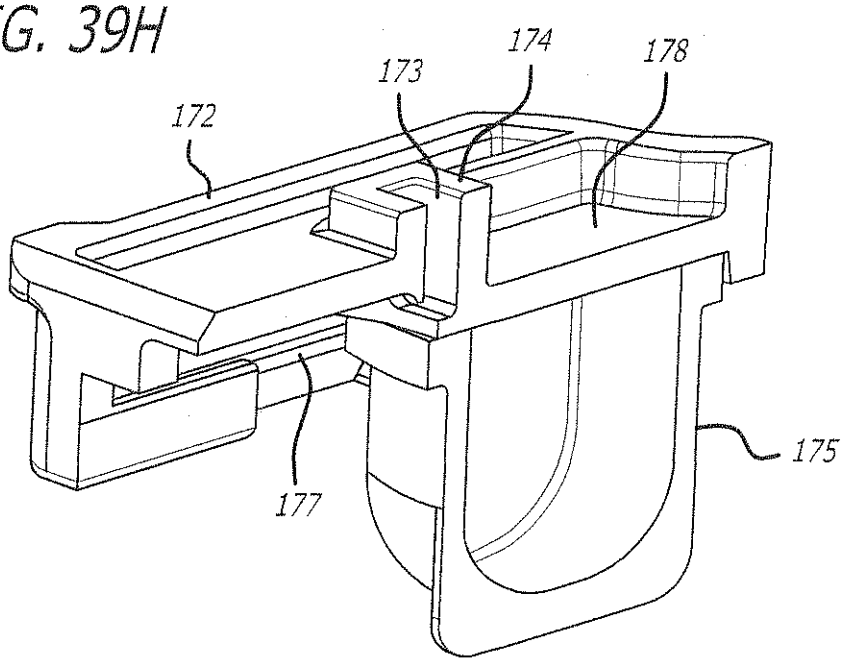


FIG. 39I

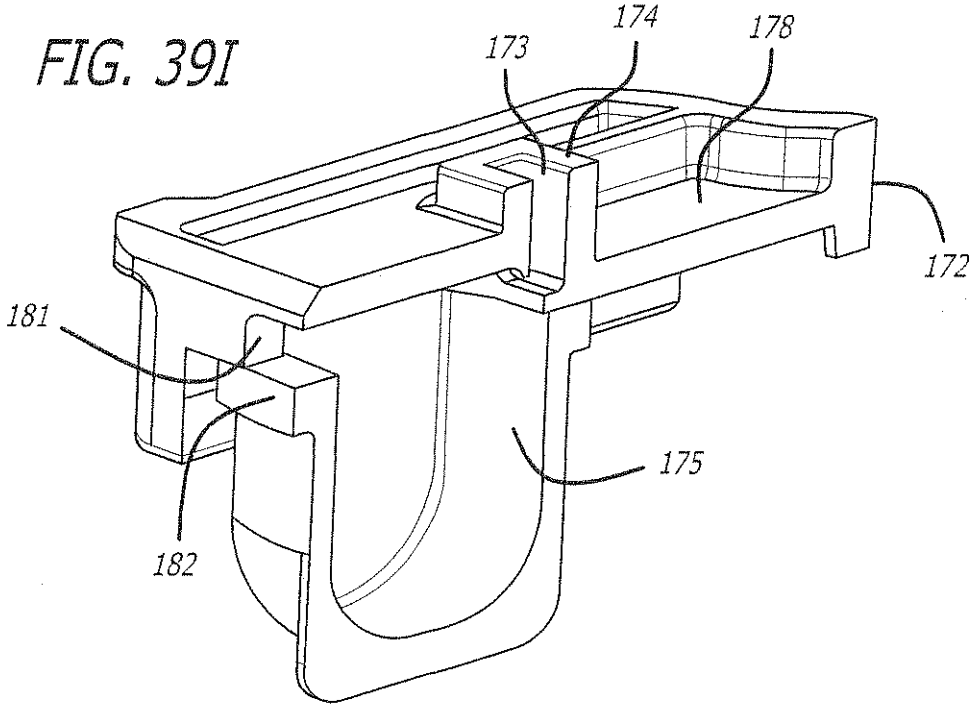


FIG. 40

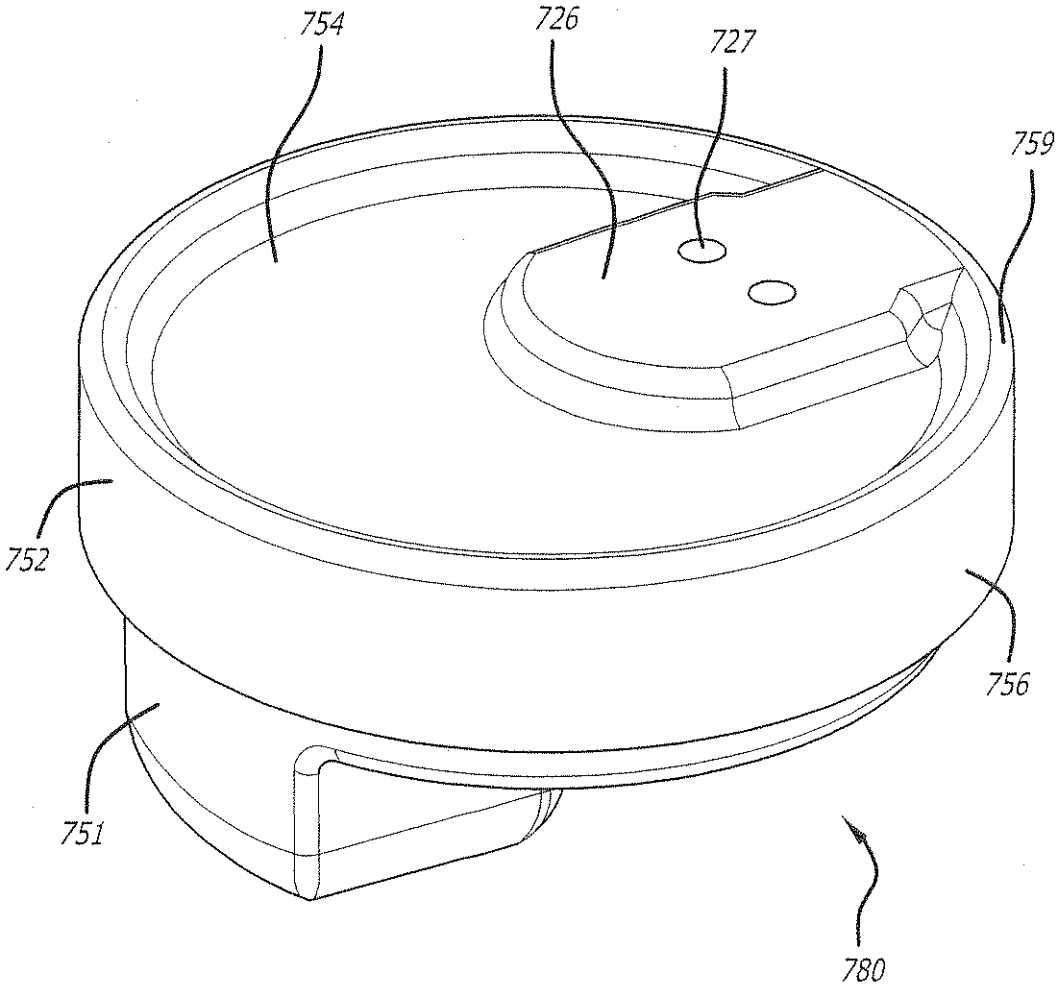


FIG. 41

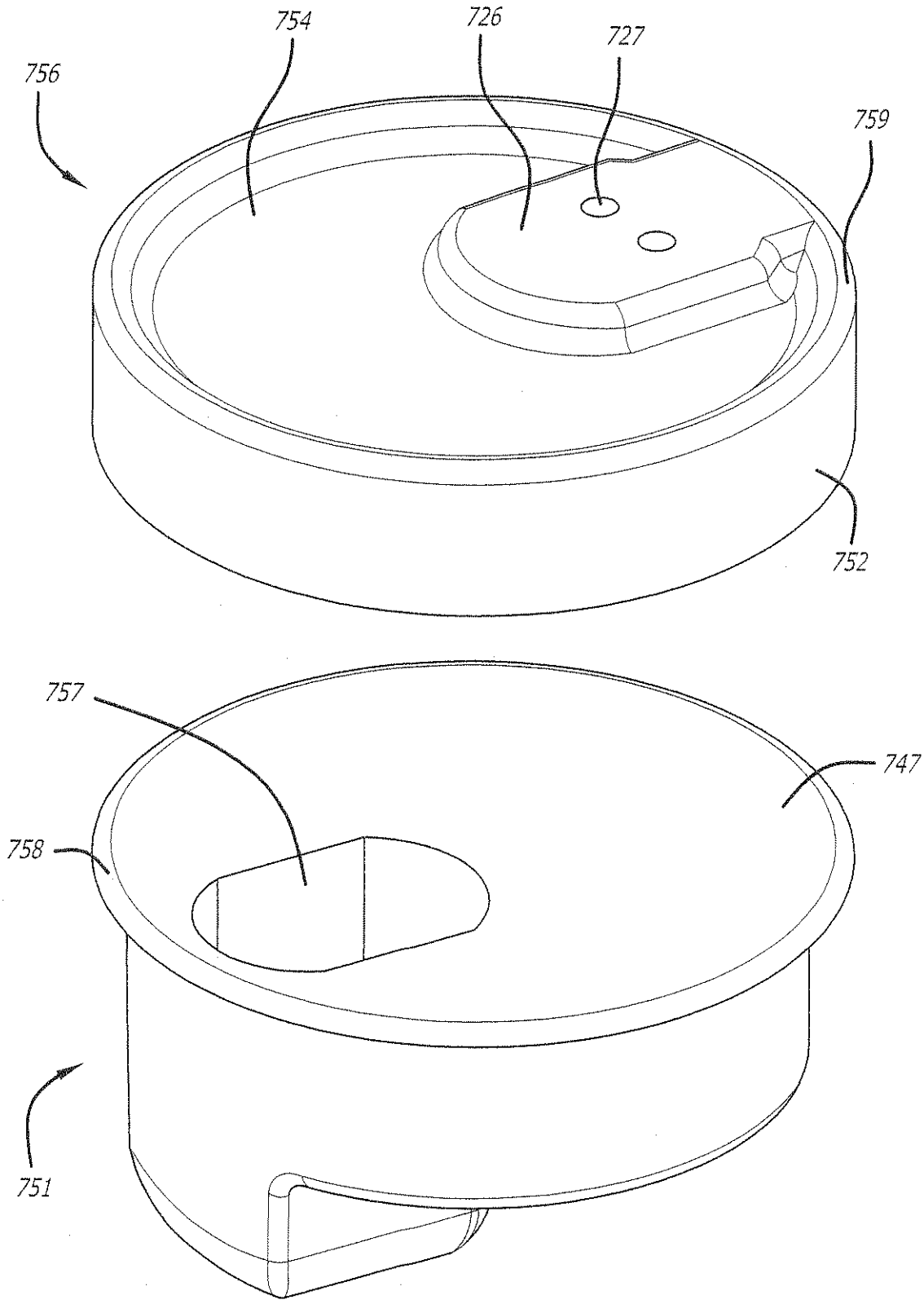


FIG. 42

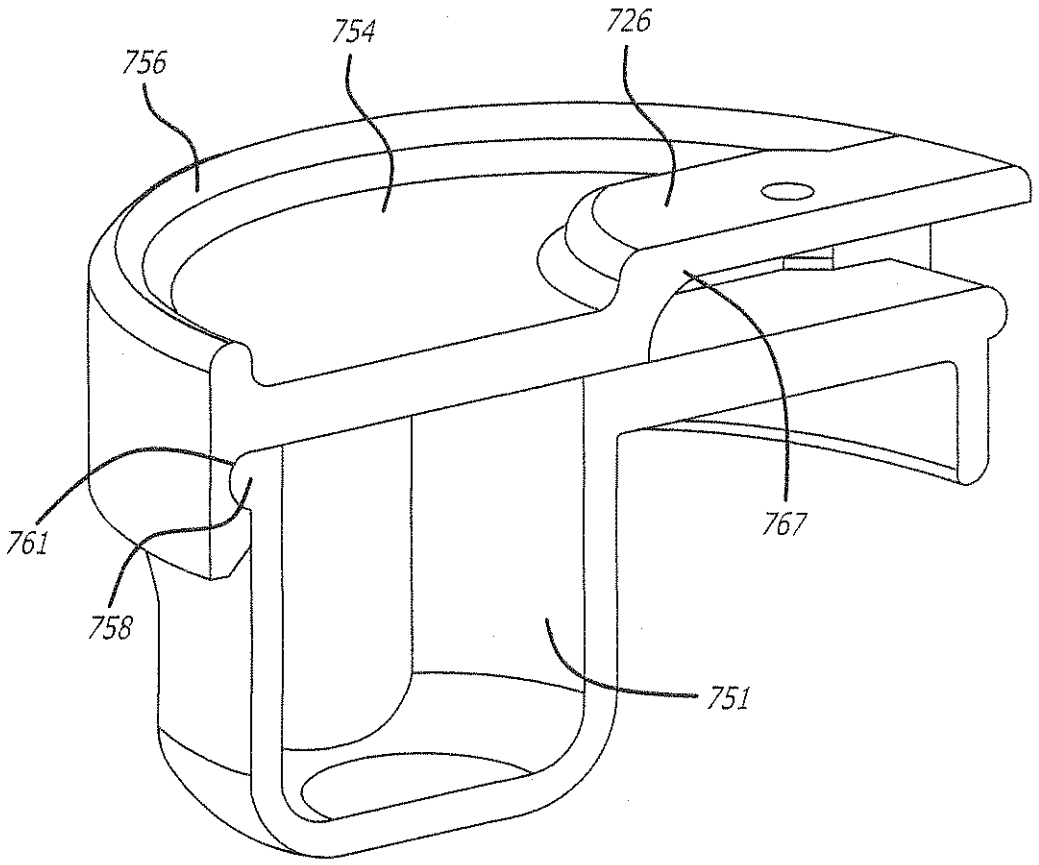


FIG. 43

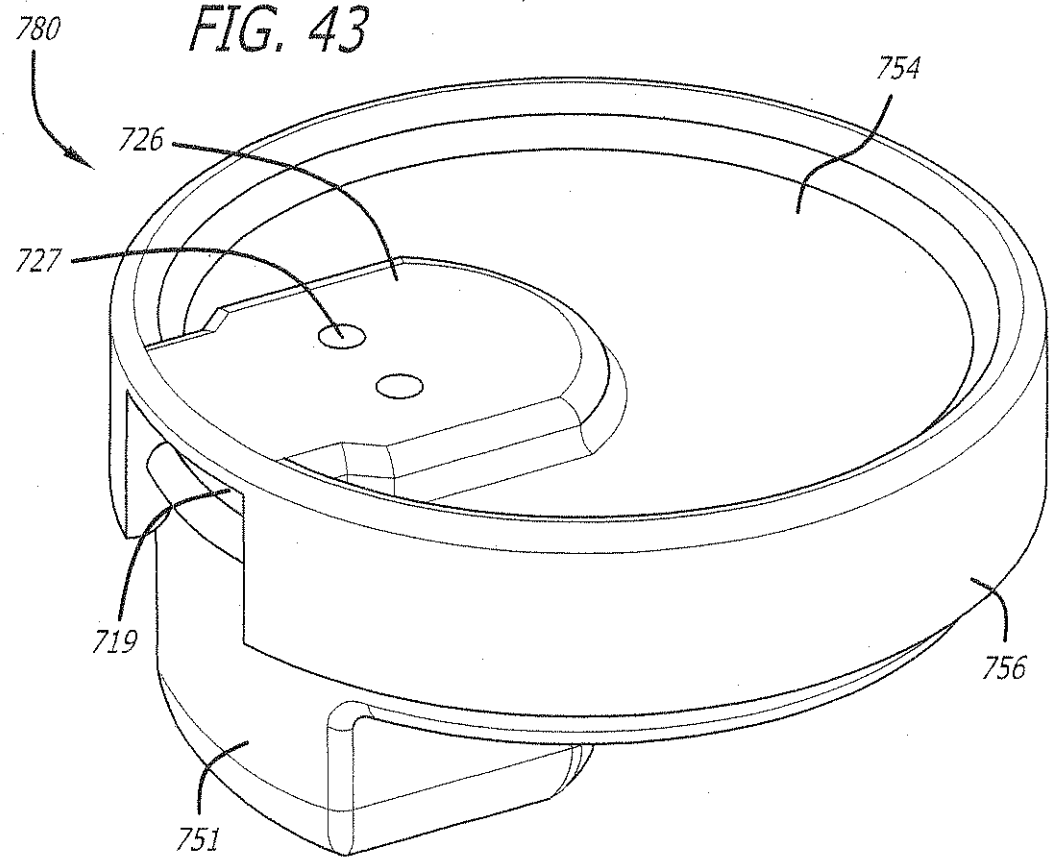
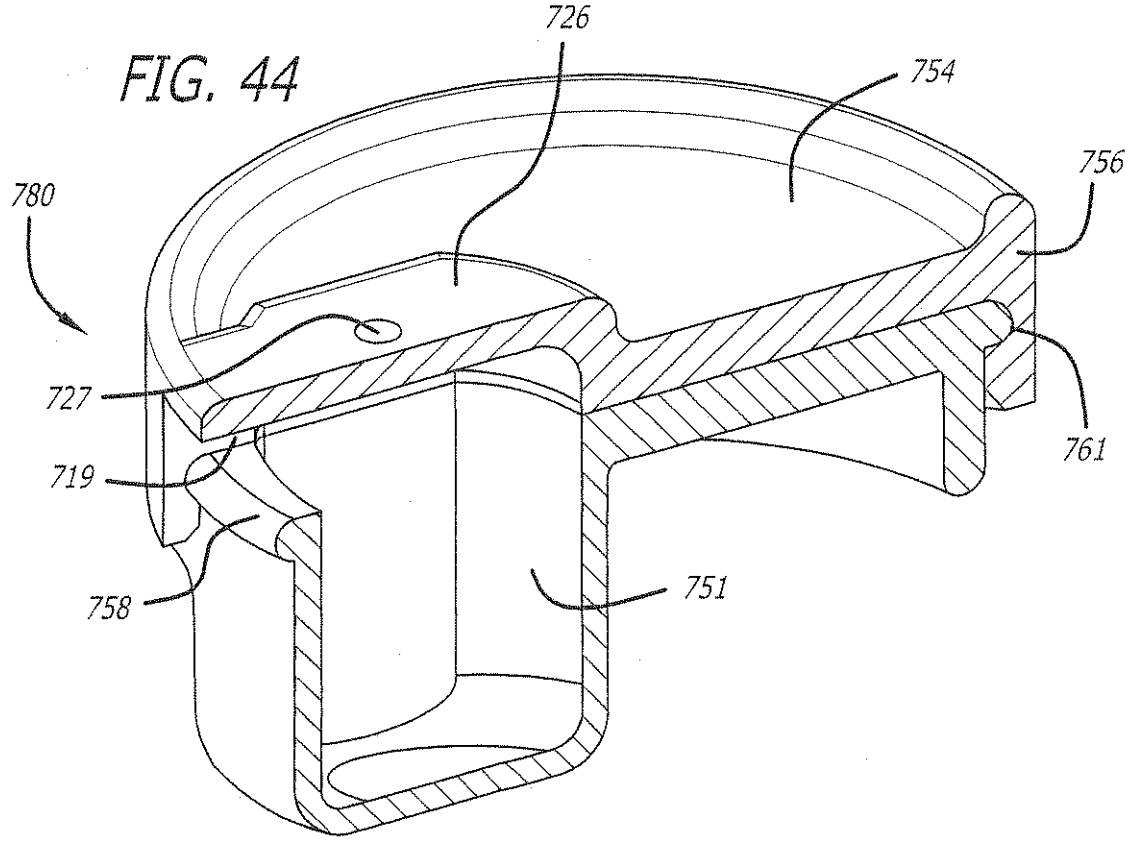


FIG. 44



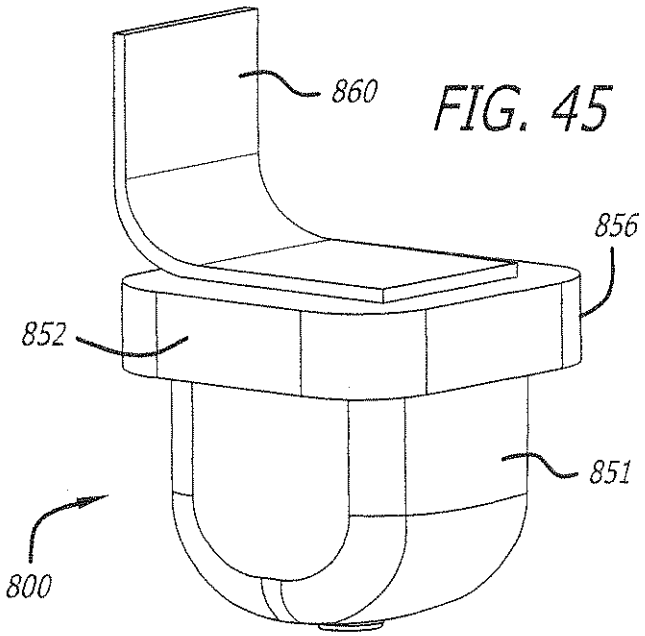


FIG. 45

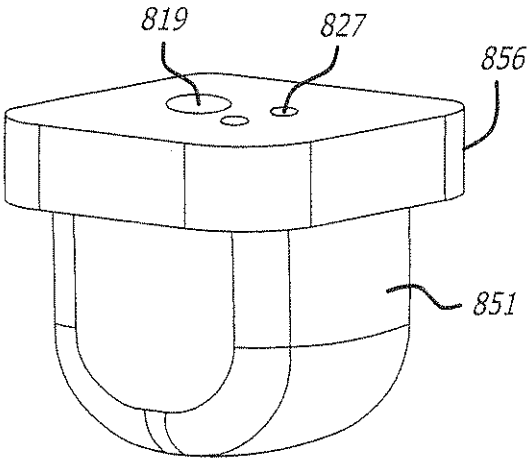


FIG. 46A

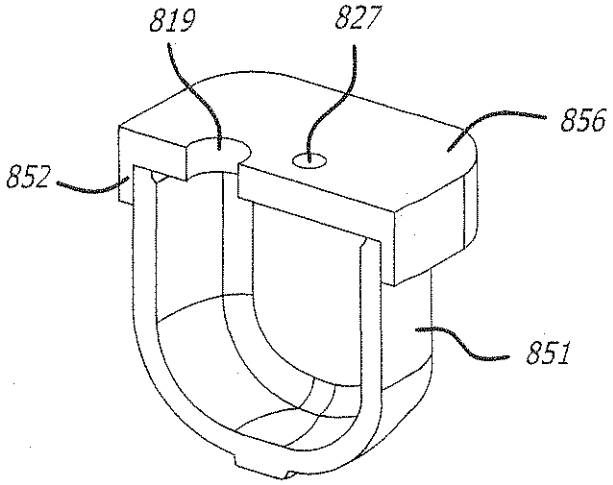


FIG. 46B

FIG. 47A

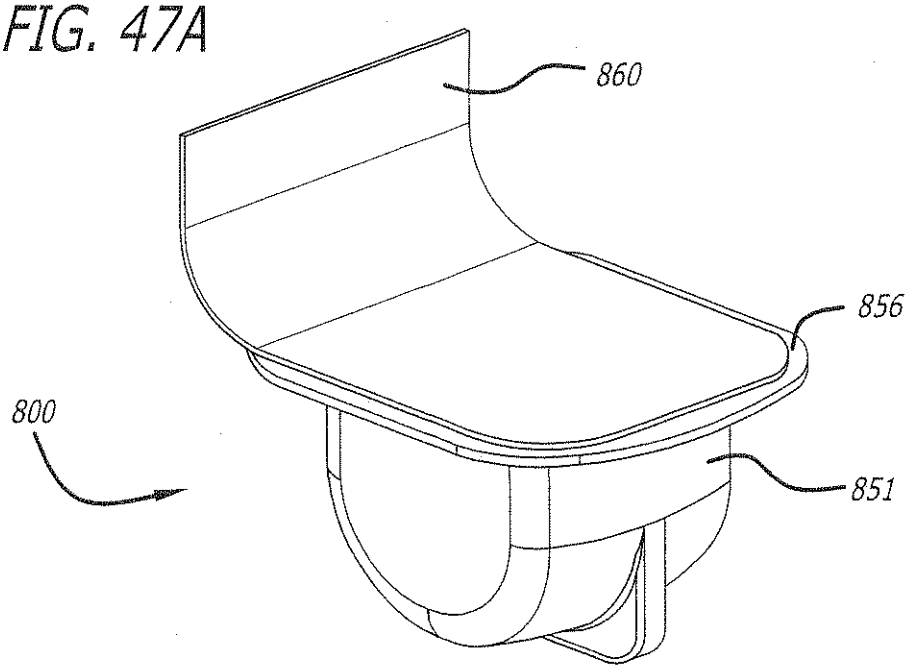
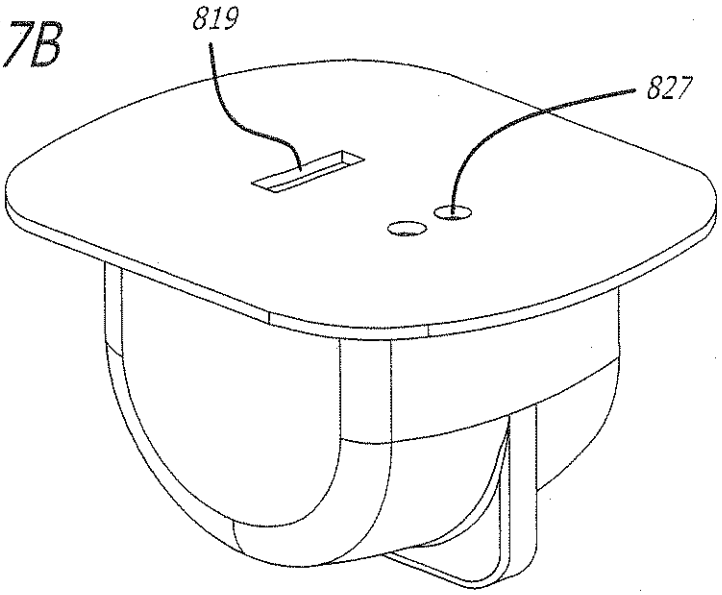


FIG. 47B



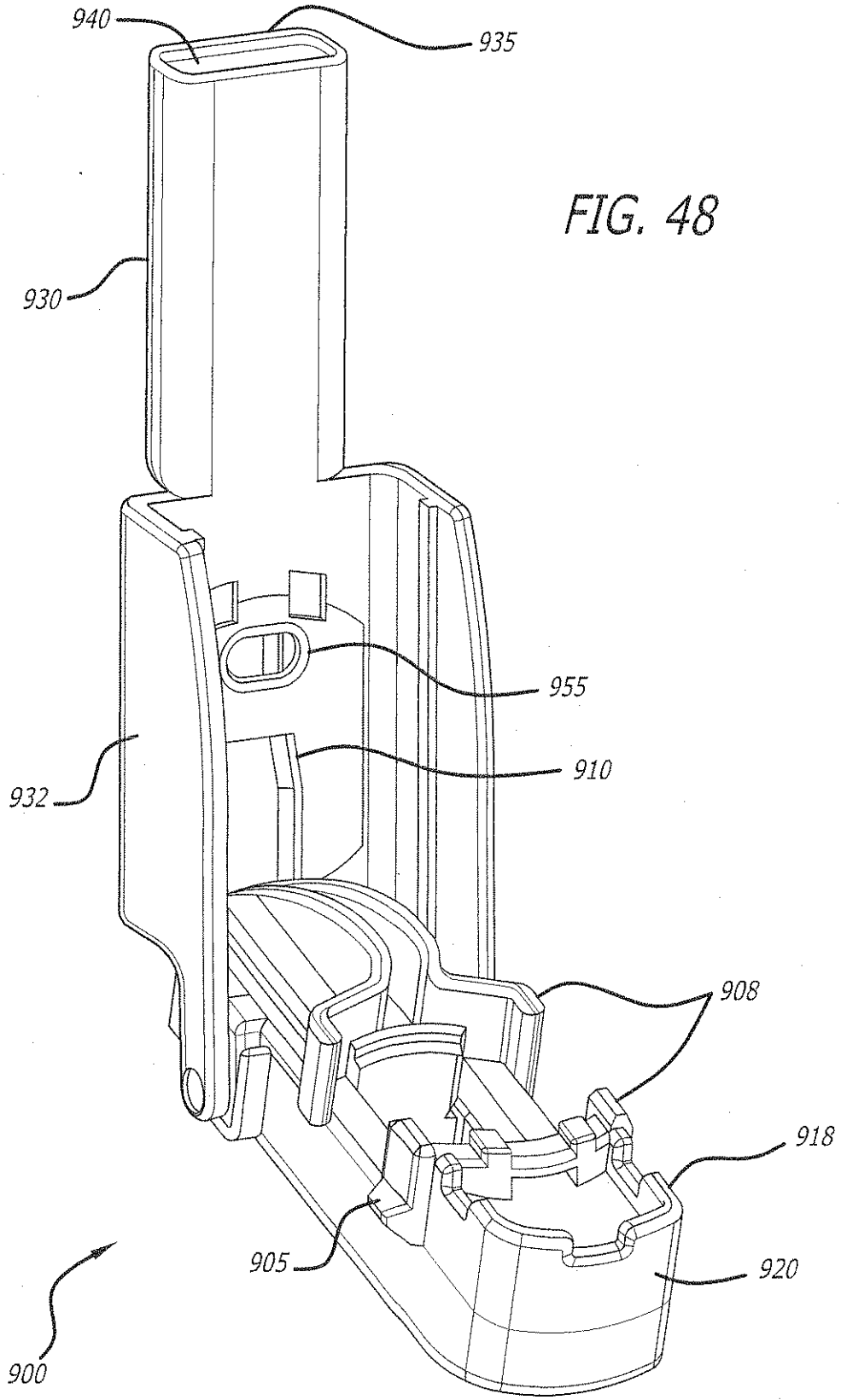


FIG. 48

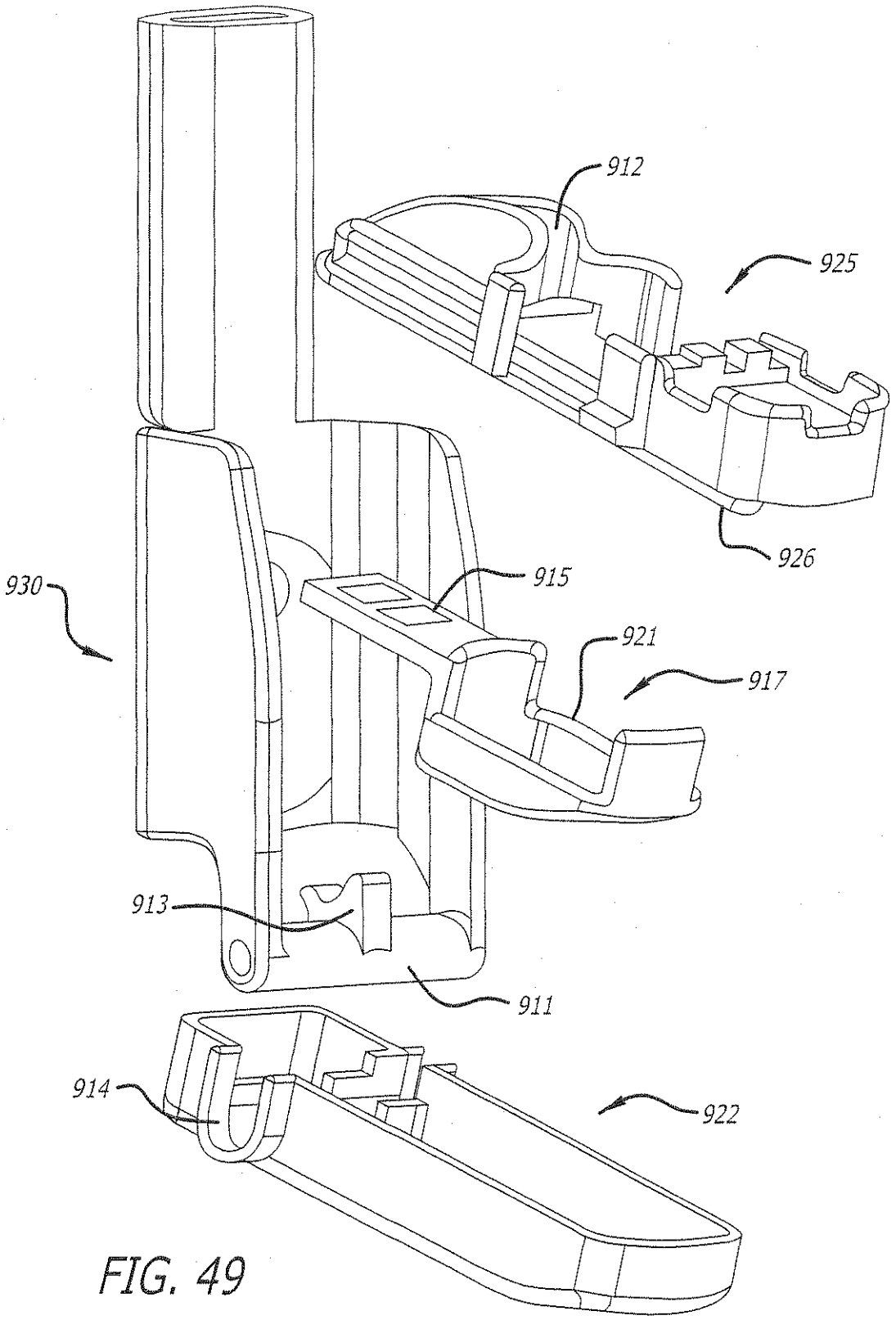
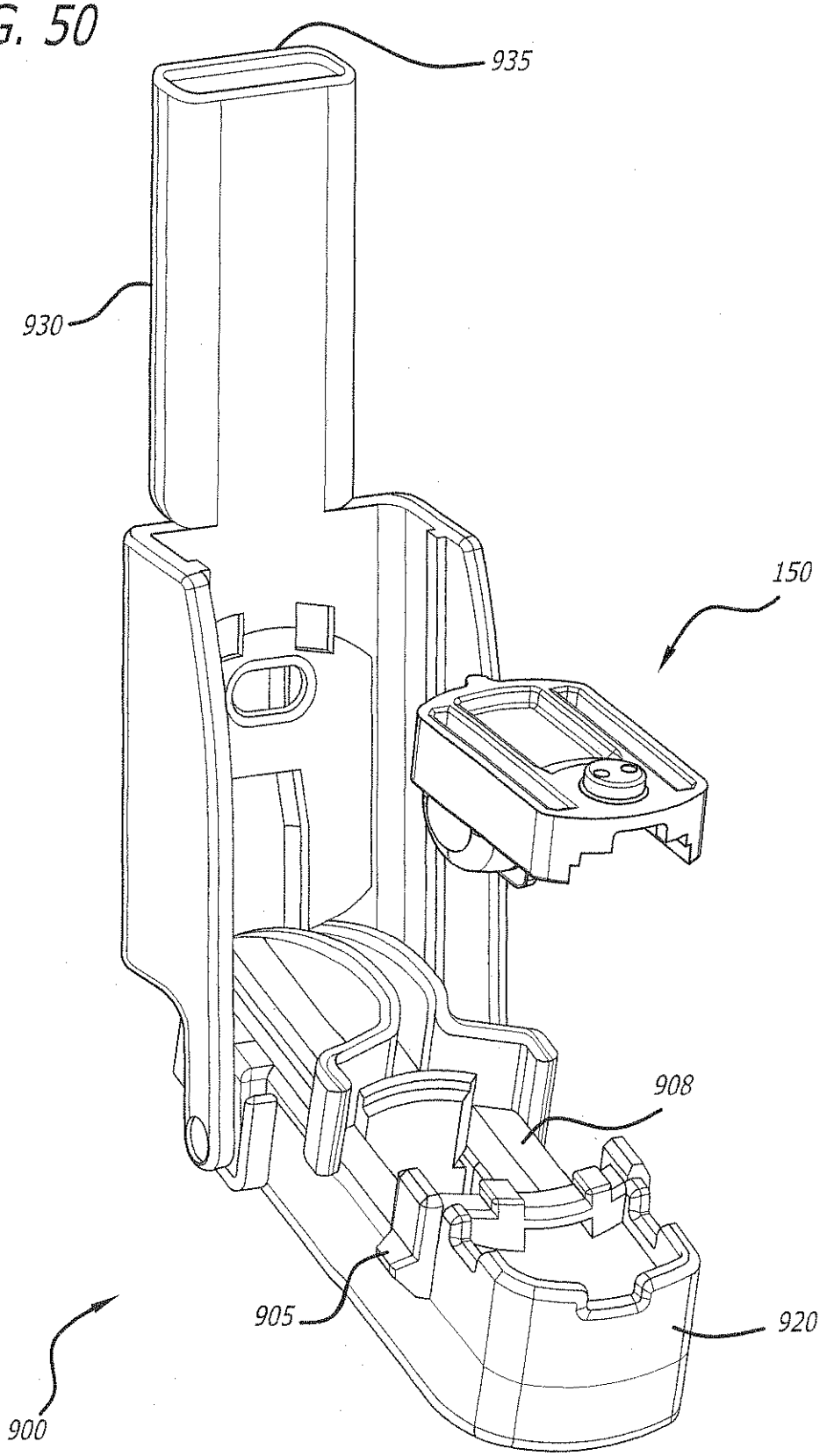


FIG. 49

FIG. 50



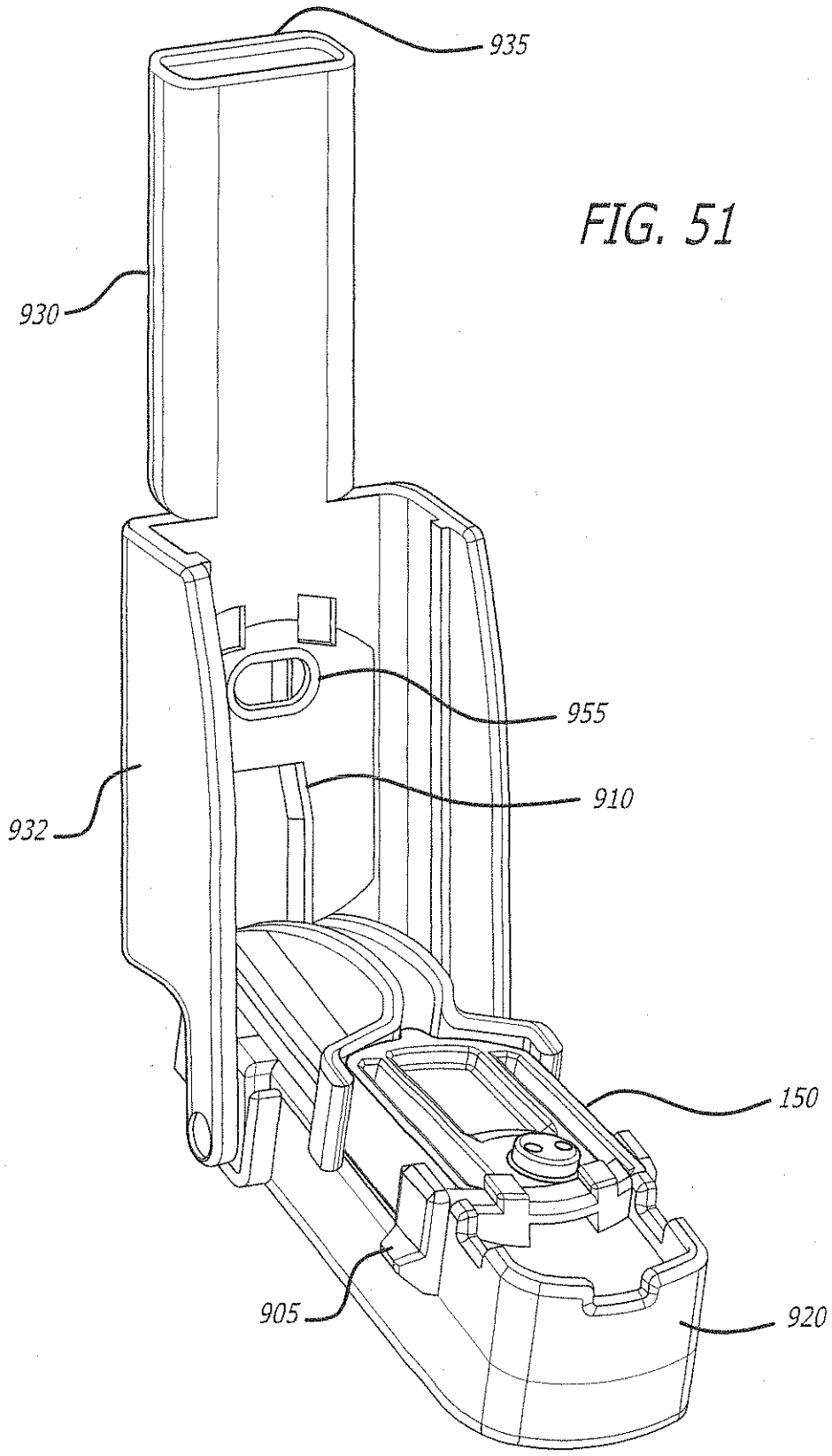


FIG. 51

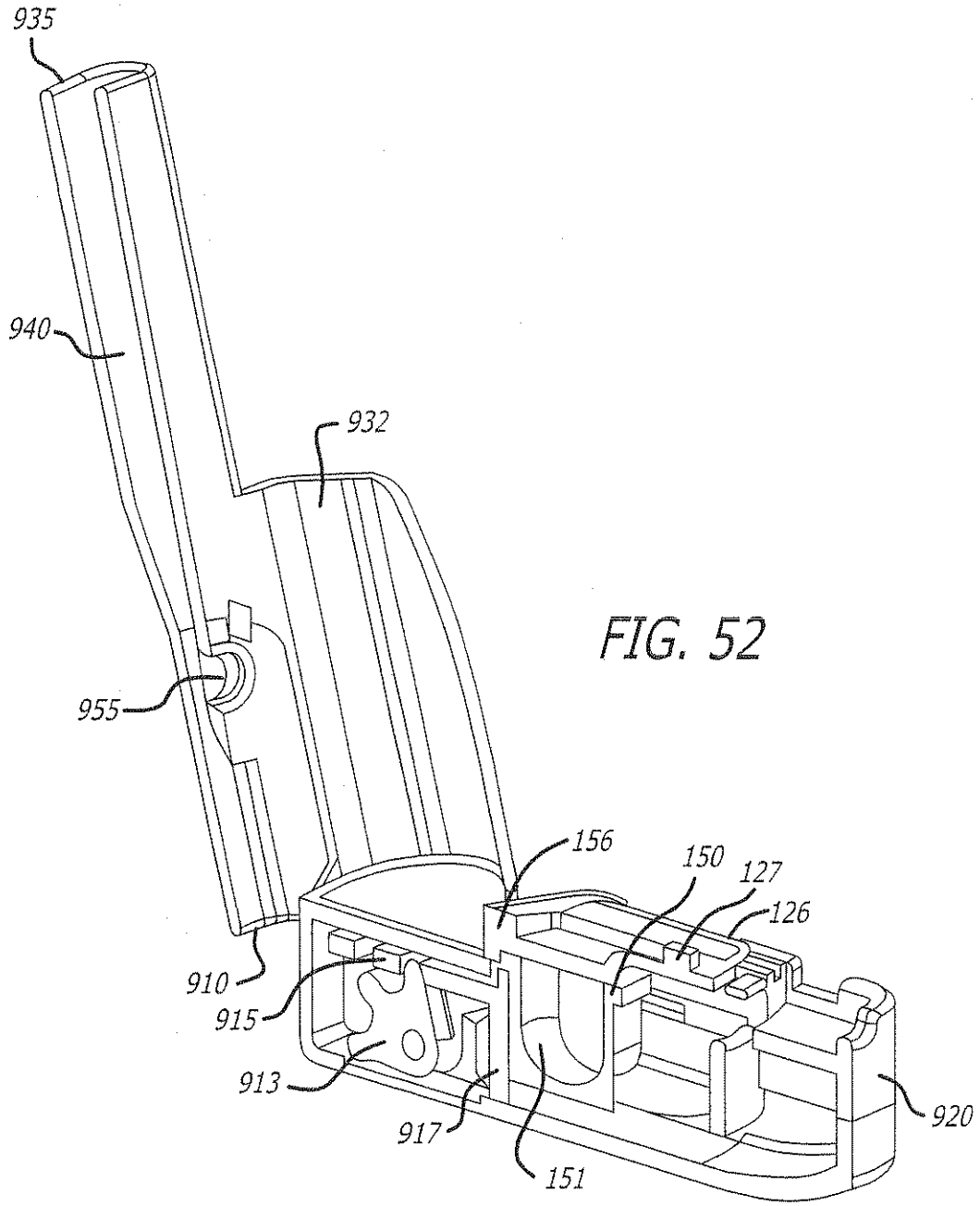


FIG. 52

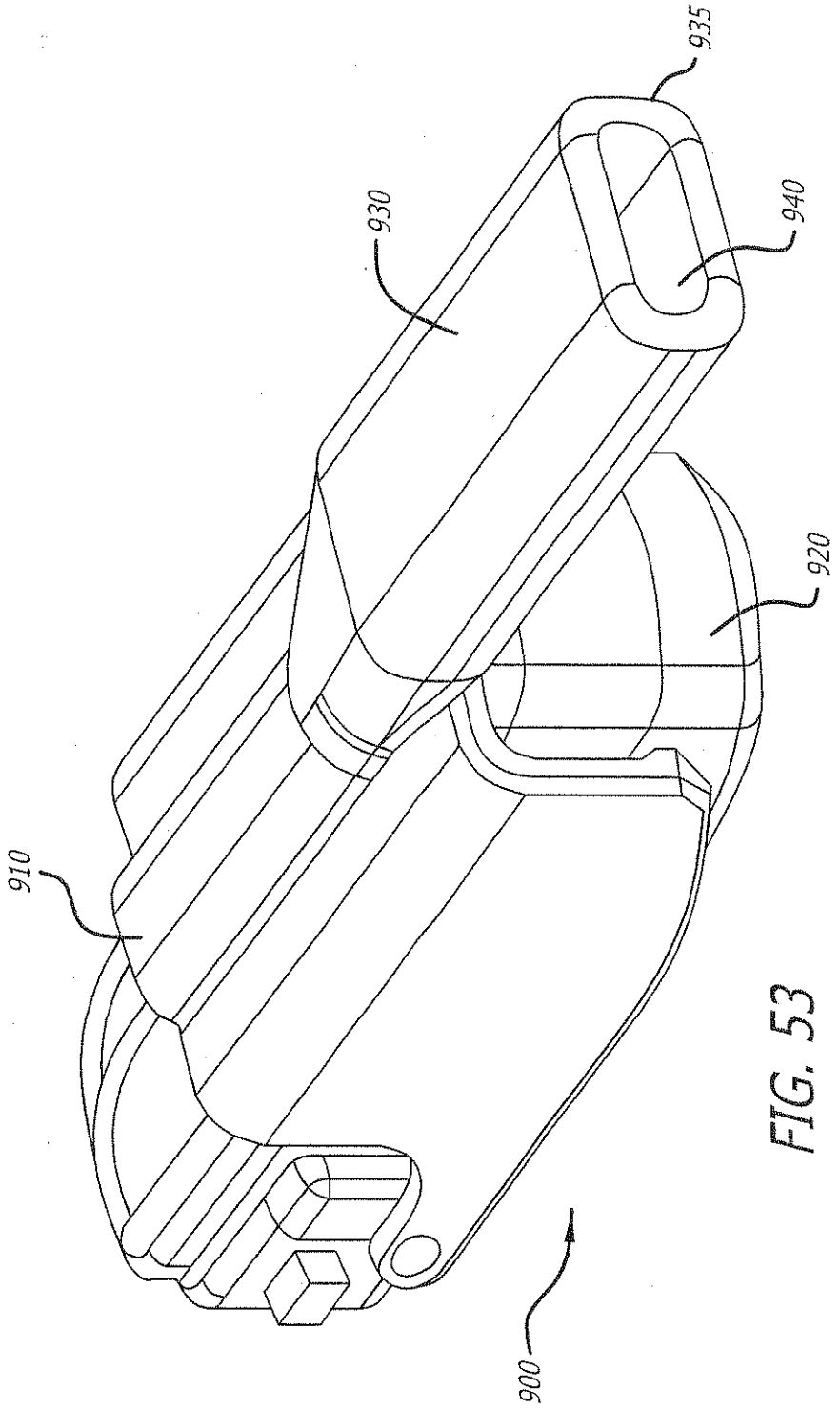


FIG. 53

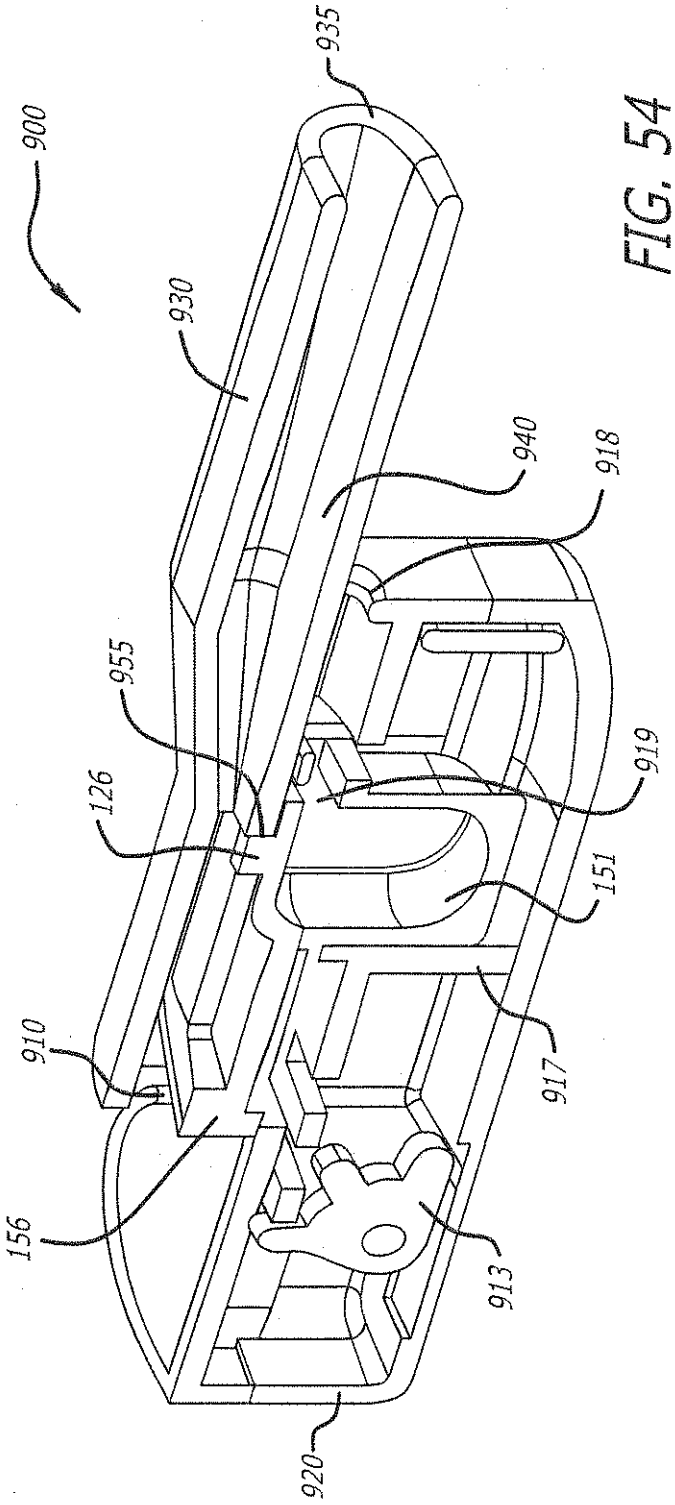


FIG. 54

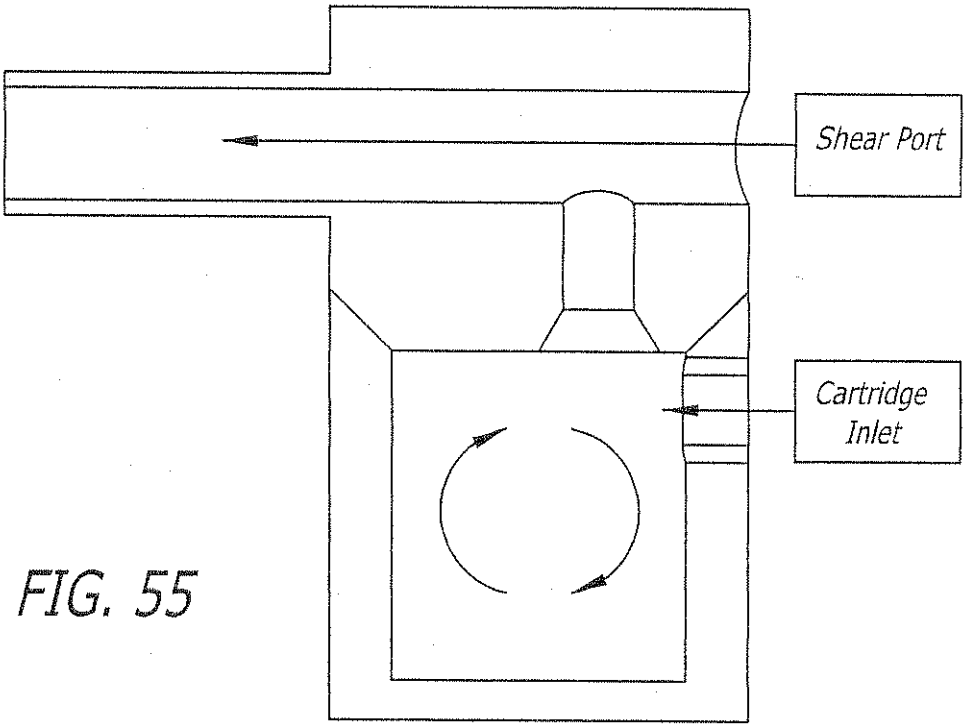


FIG. 55

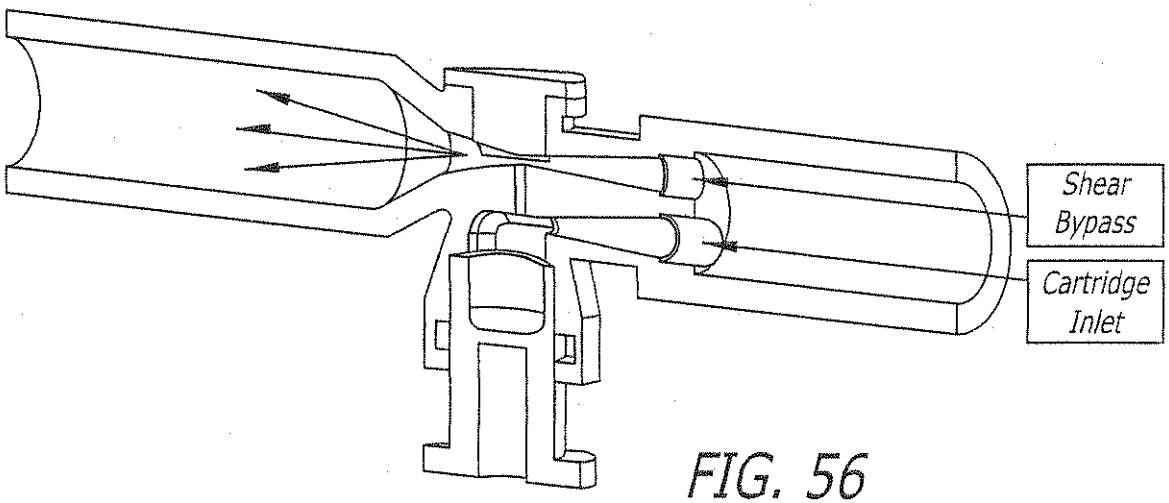


FIG. 56

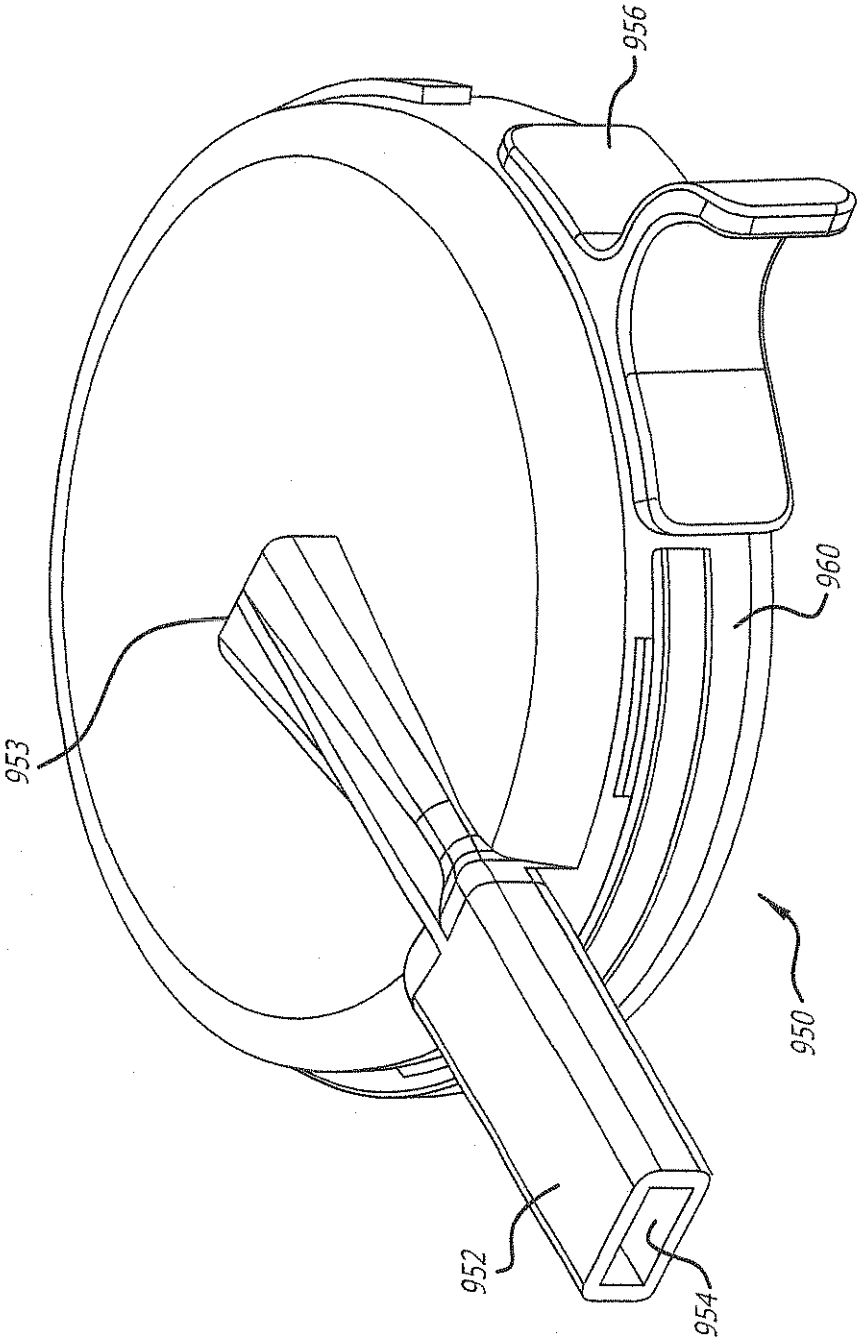


FIG. 57

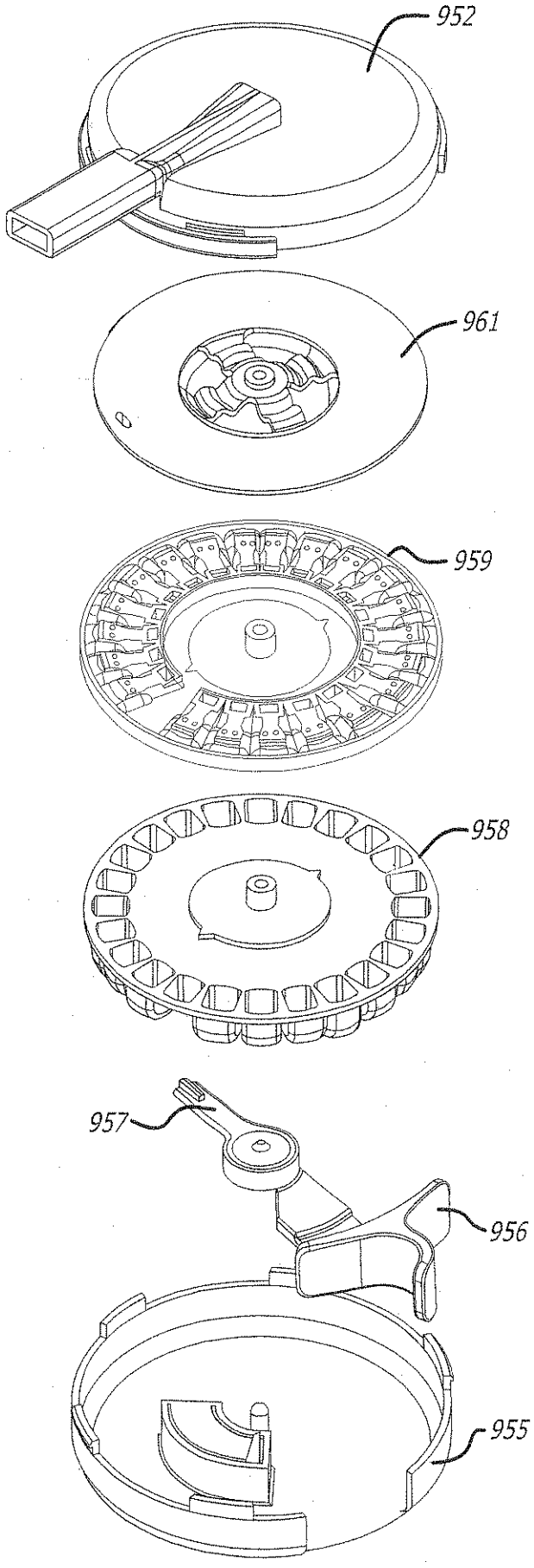


FIG. 58

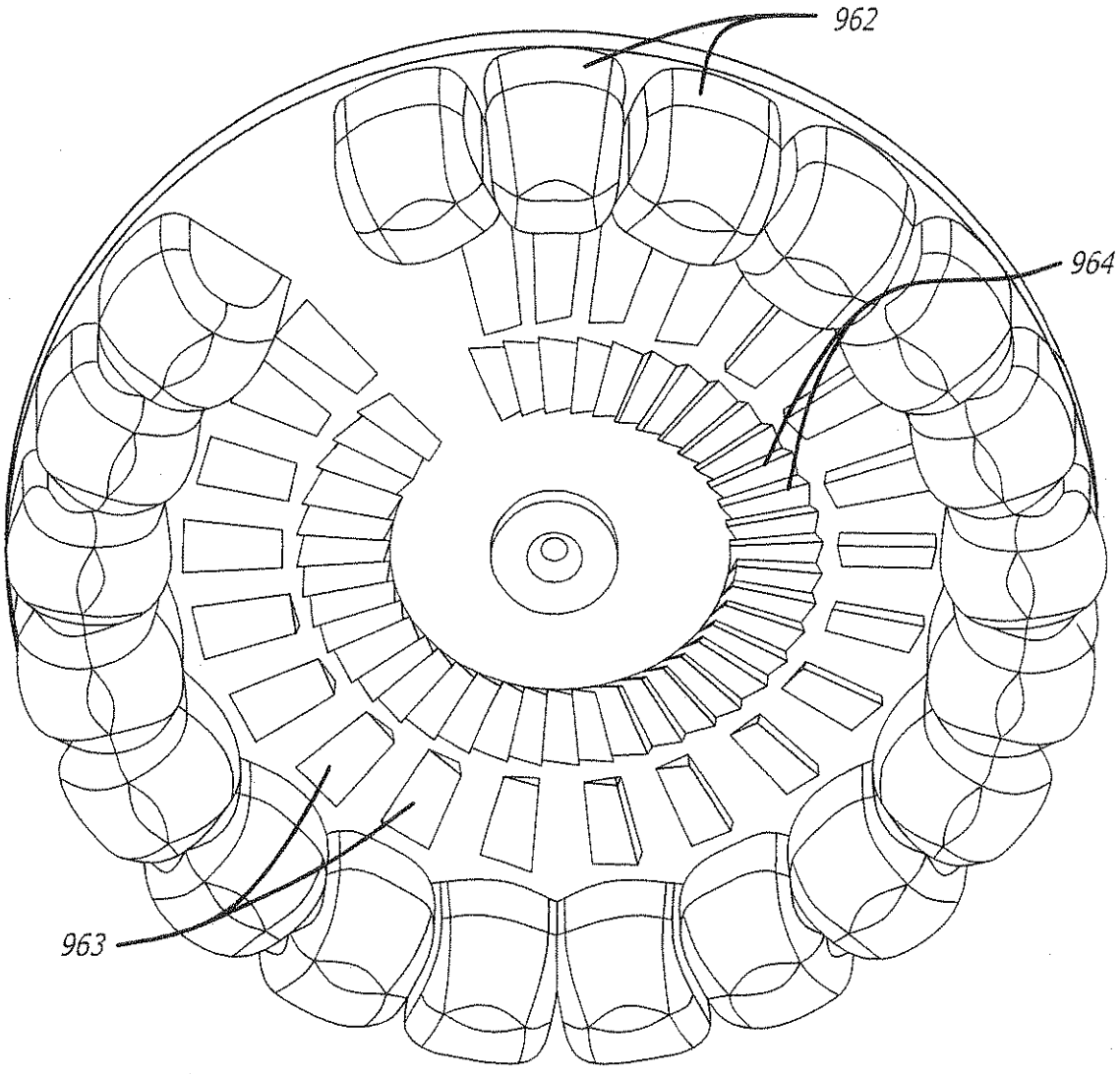


FIG. 59

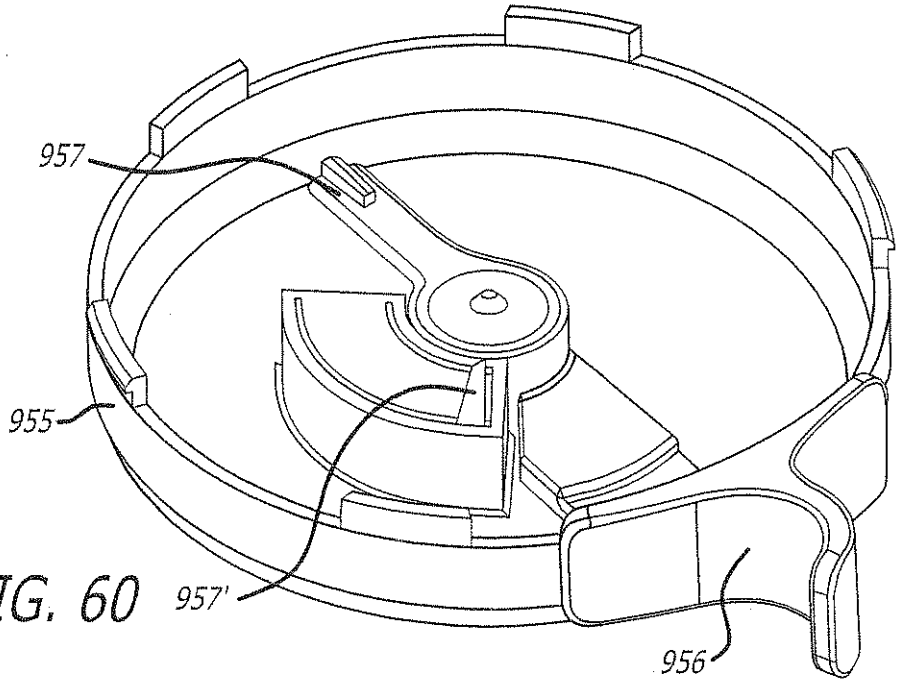


FIG. 60

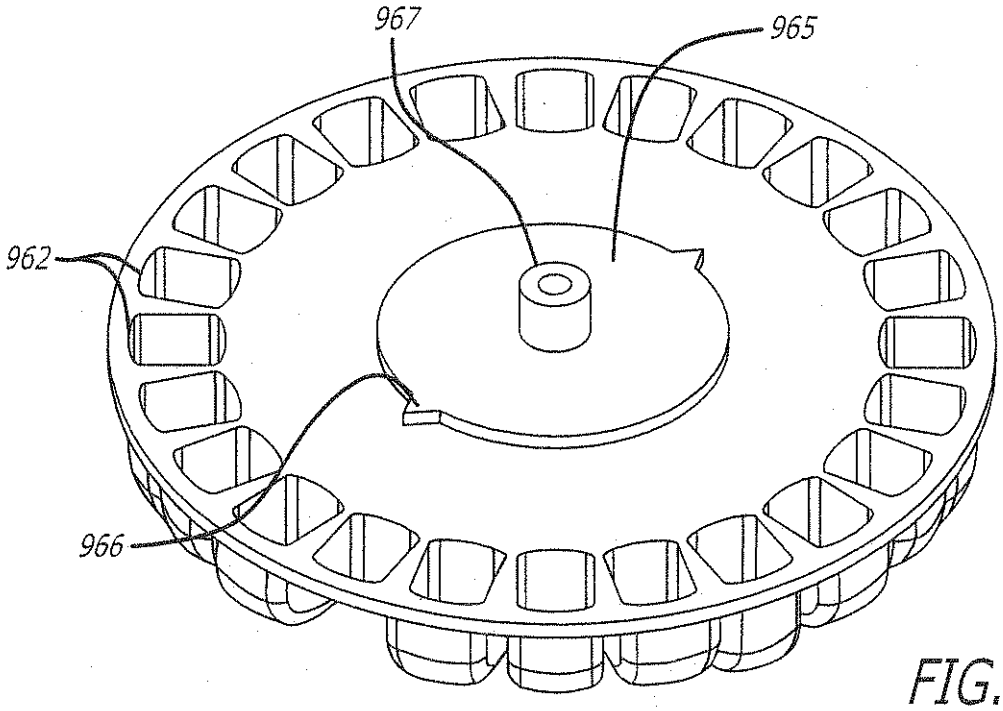


FIG. 61

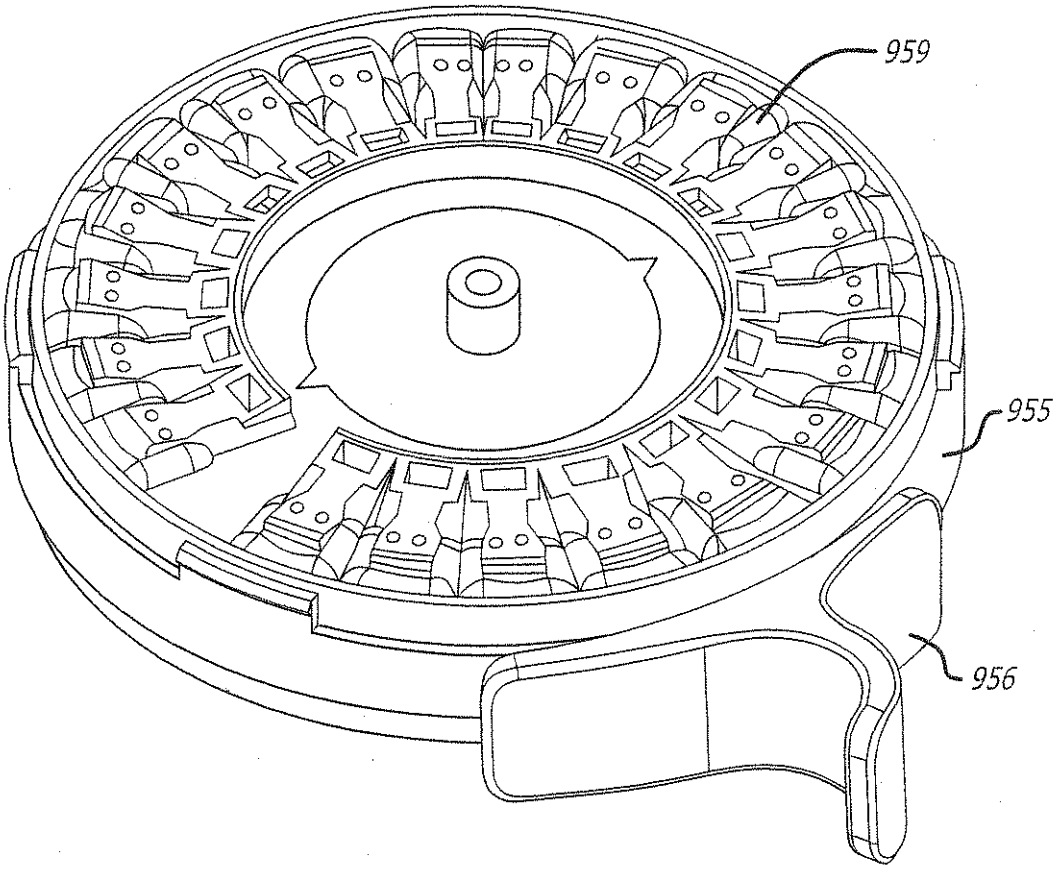


FIG. 62

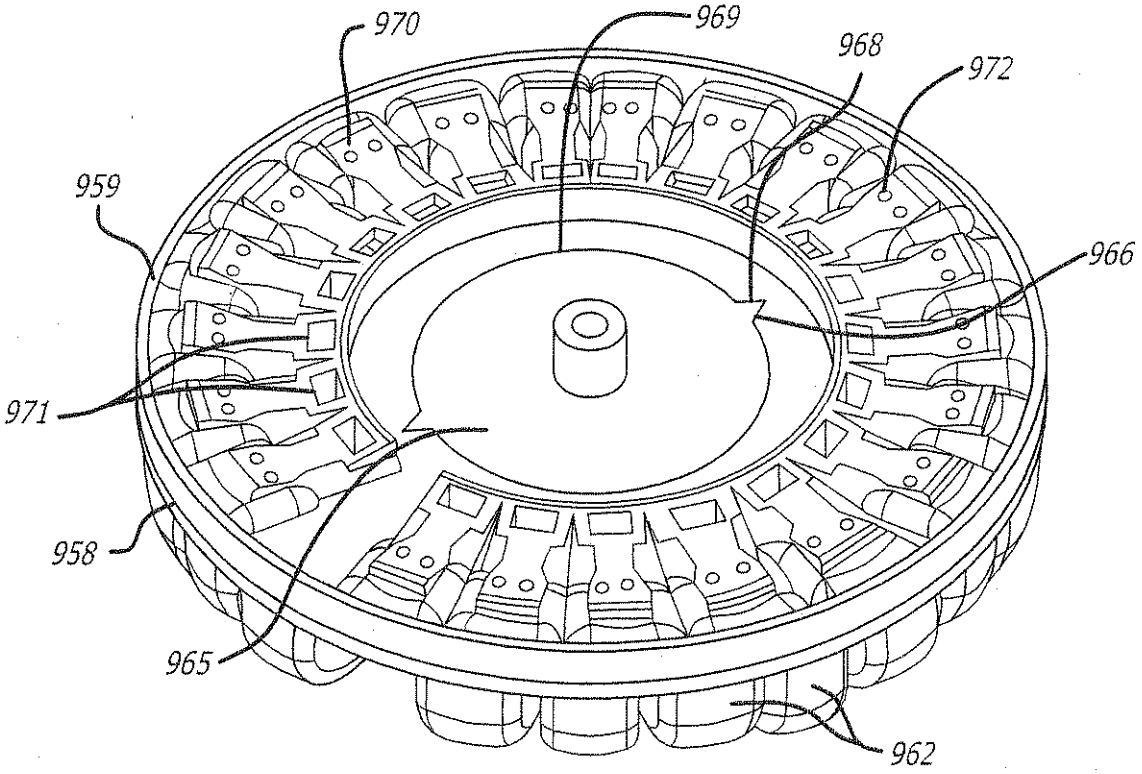


FIG. 63

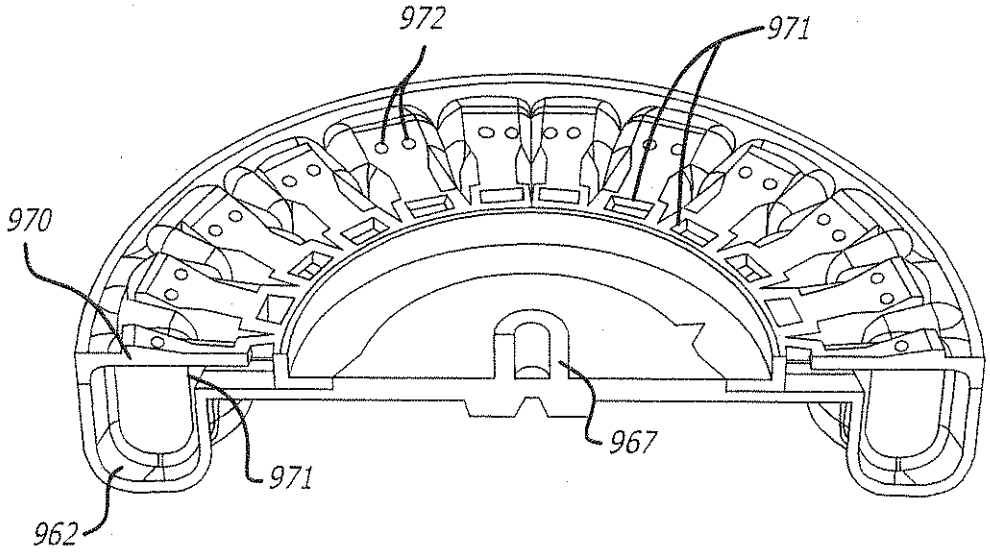


FIG. 64

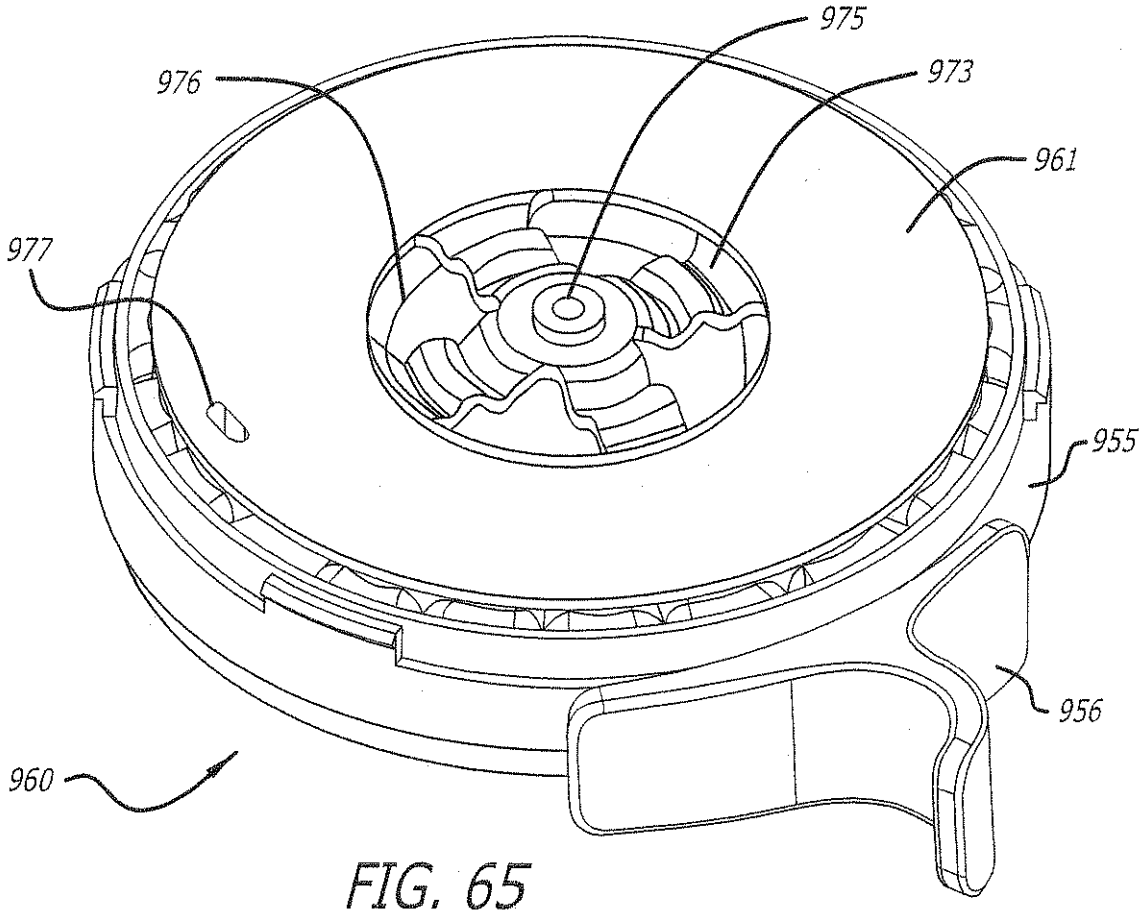


FIG. 65

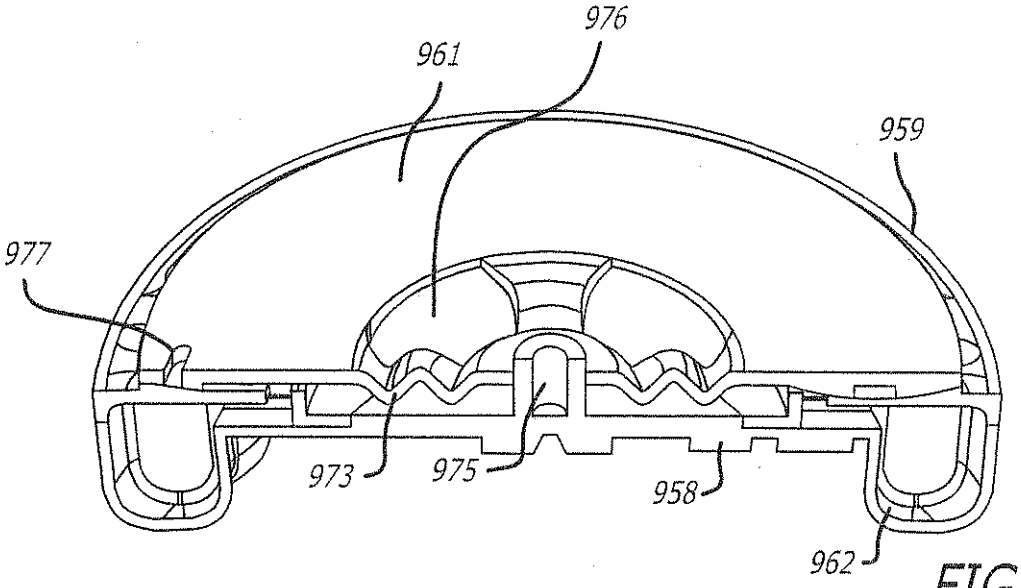


FIG. 66

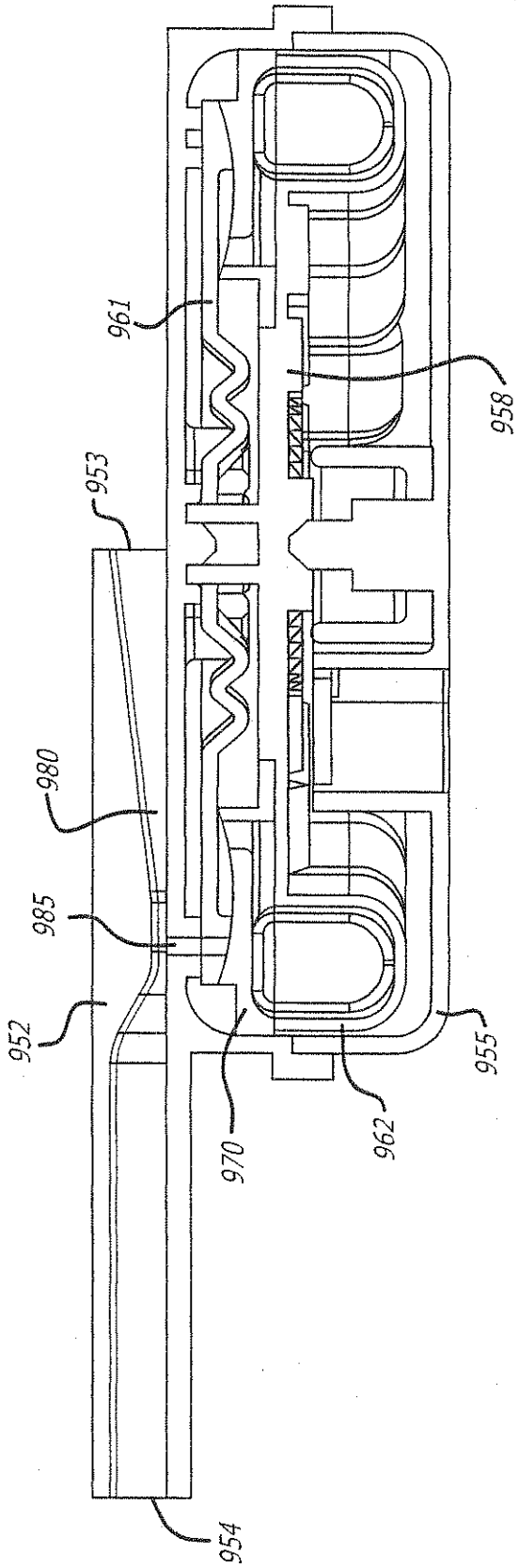


FIG. 67

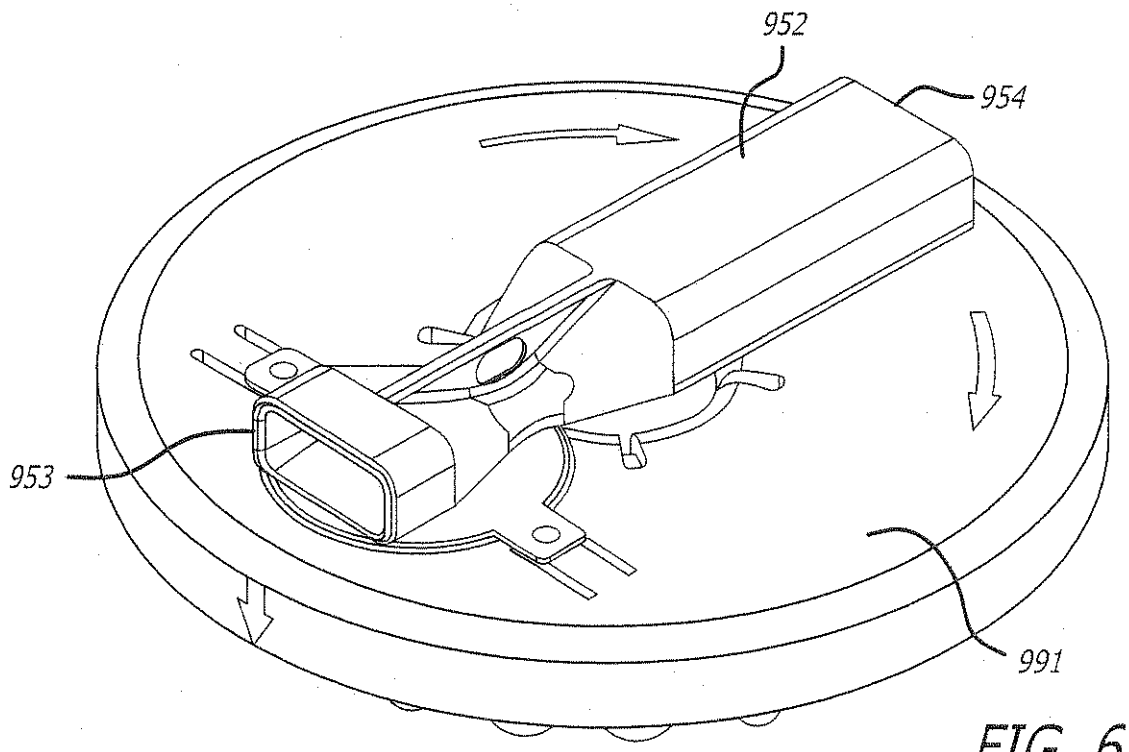
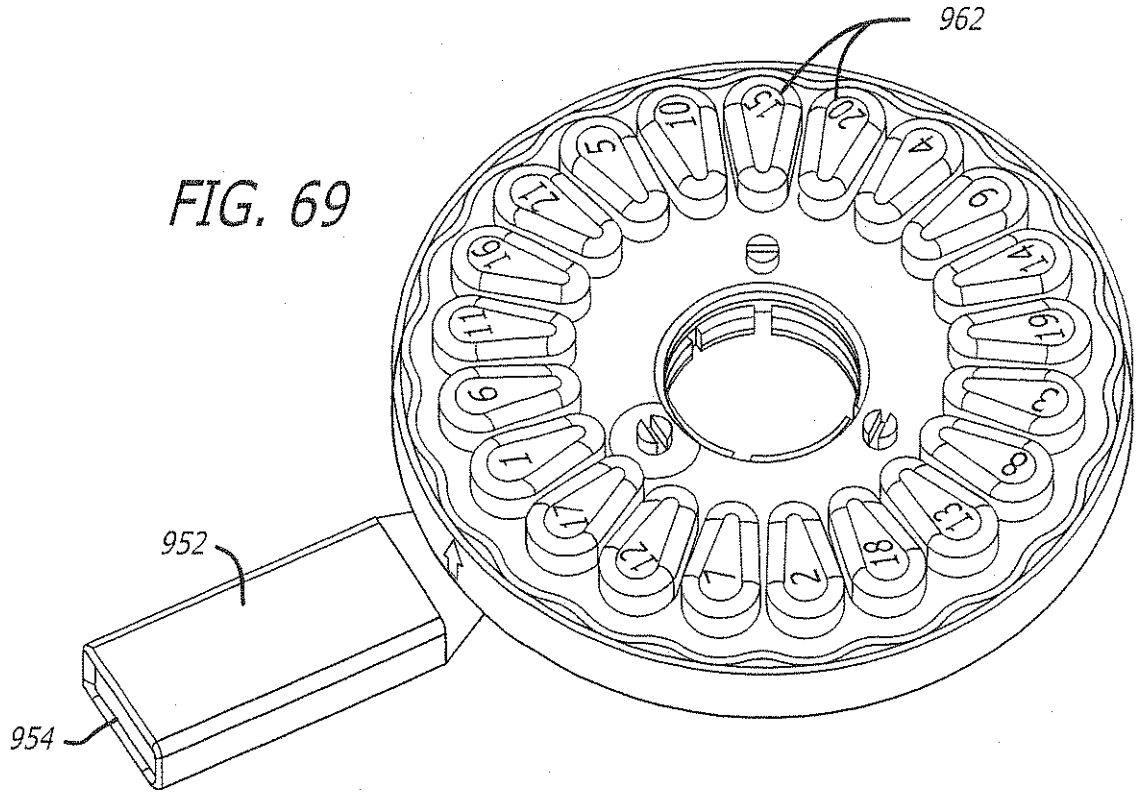


FIG. 68

FIG. 69



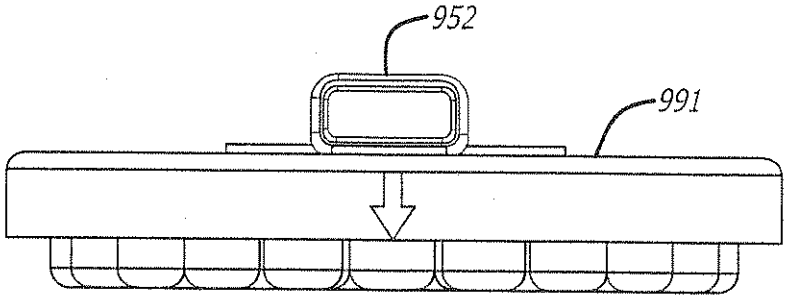


FIG. 70

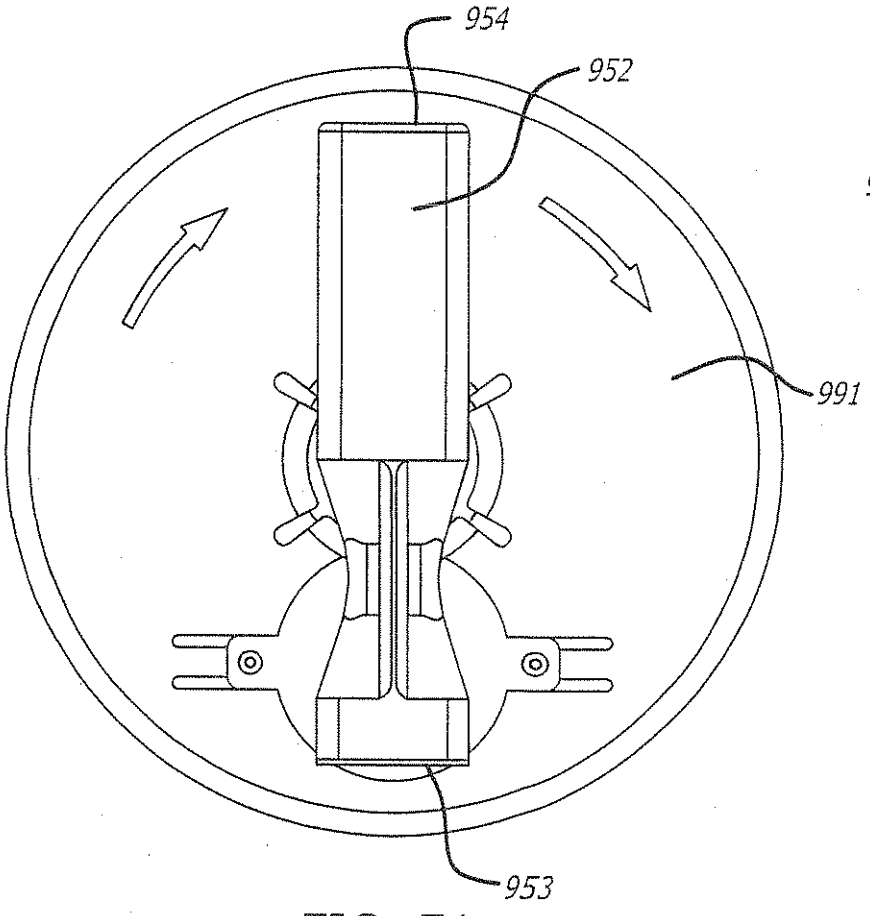


FIG. 71

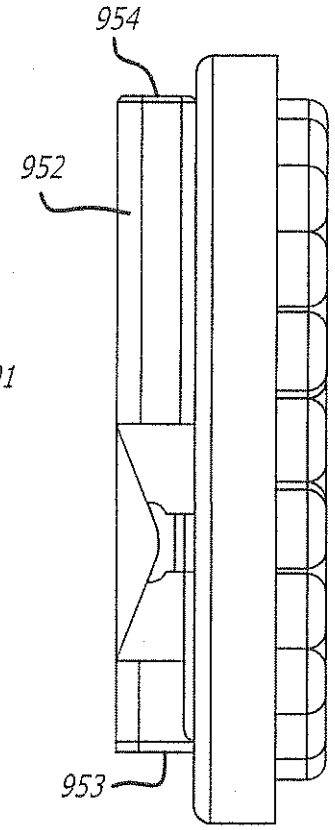


FIG. 72

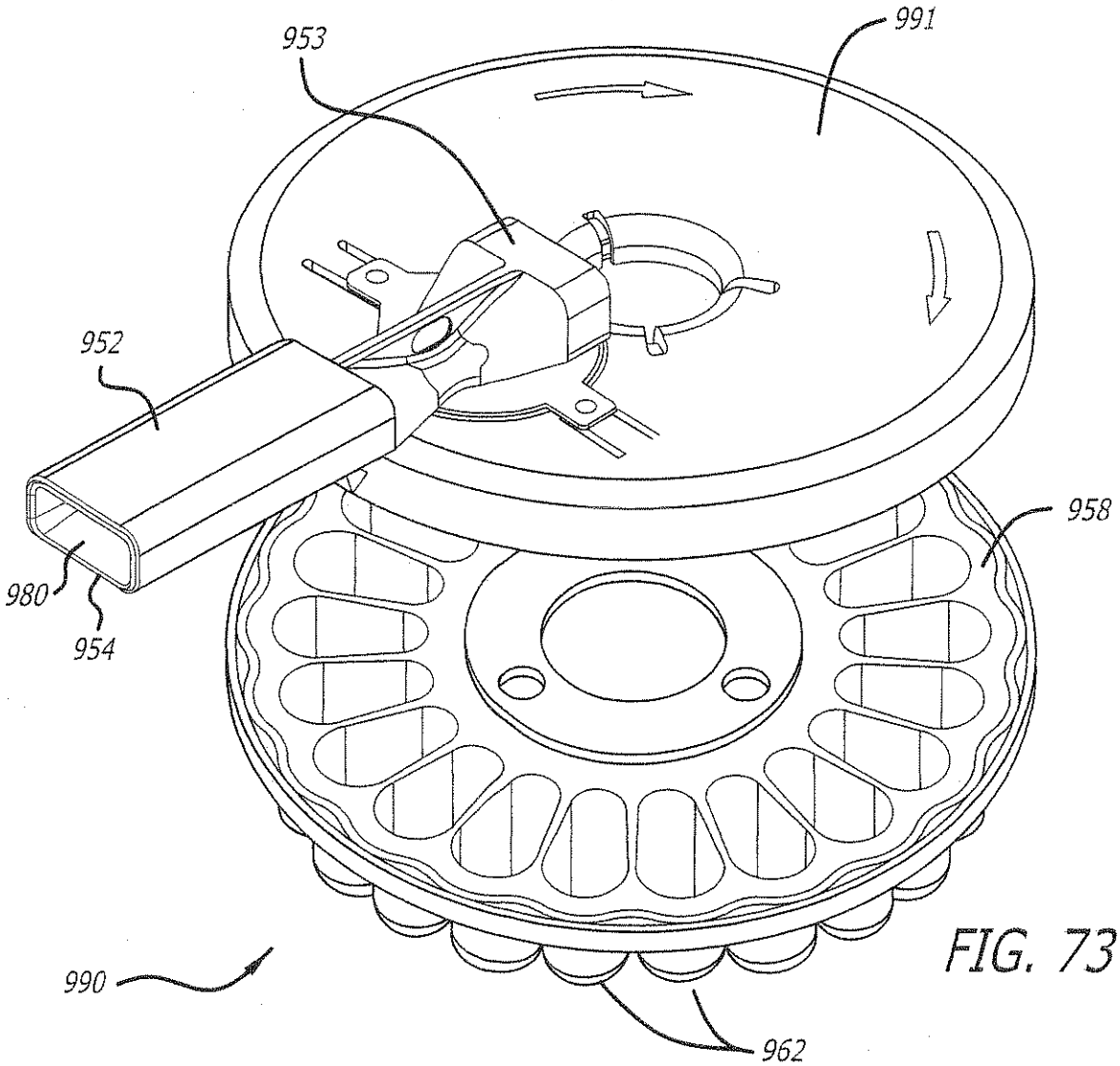


FIG. 73

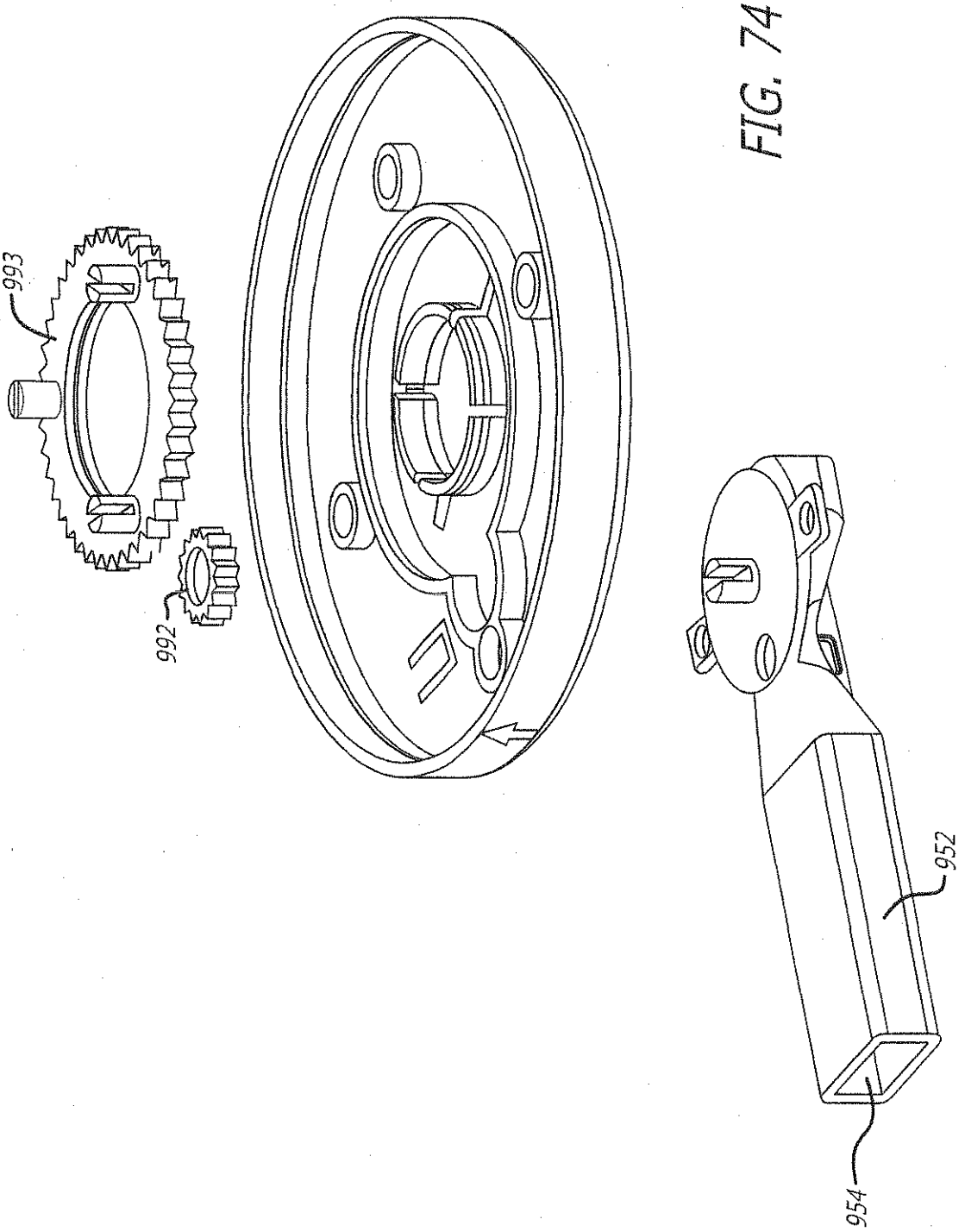


FIG. 74

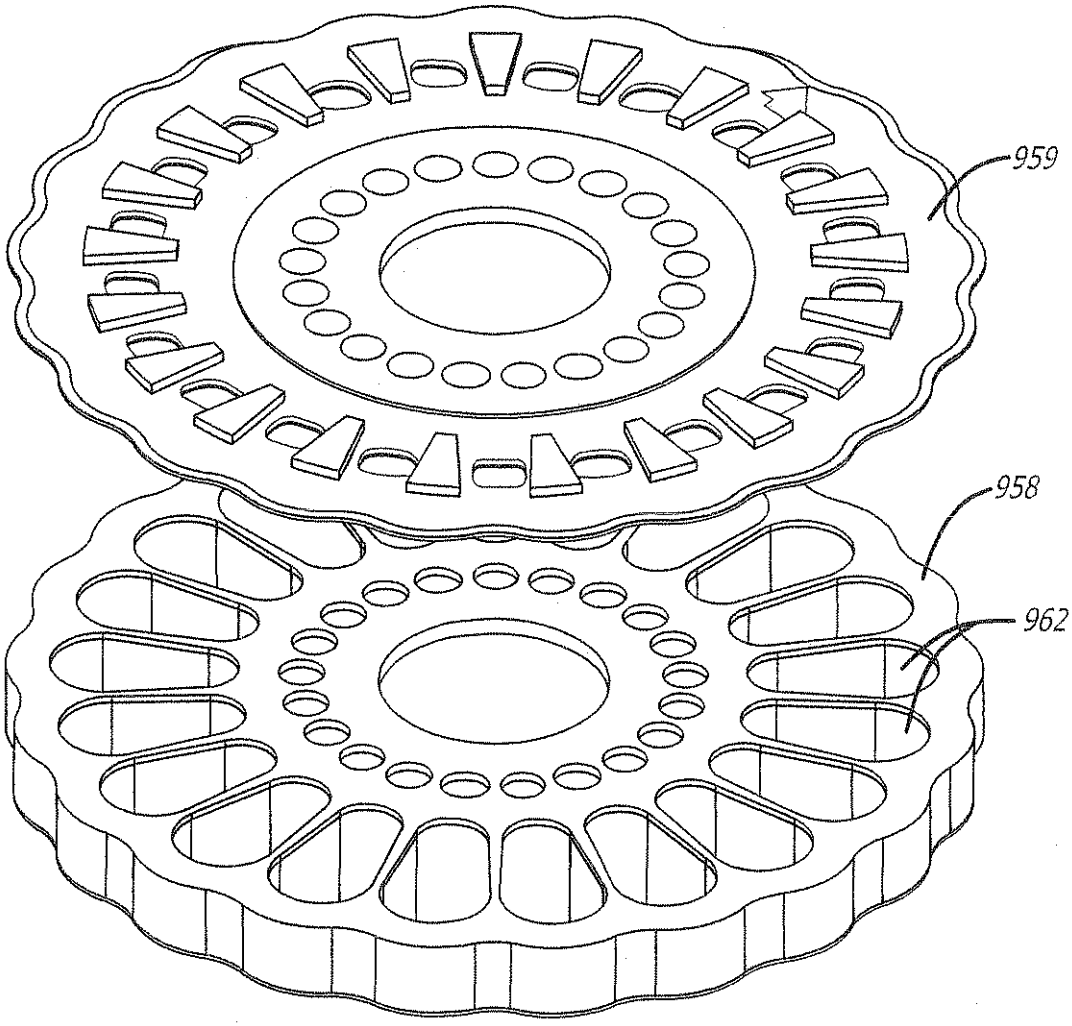


FIG. 75

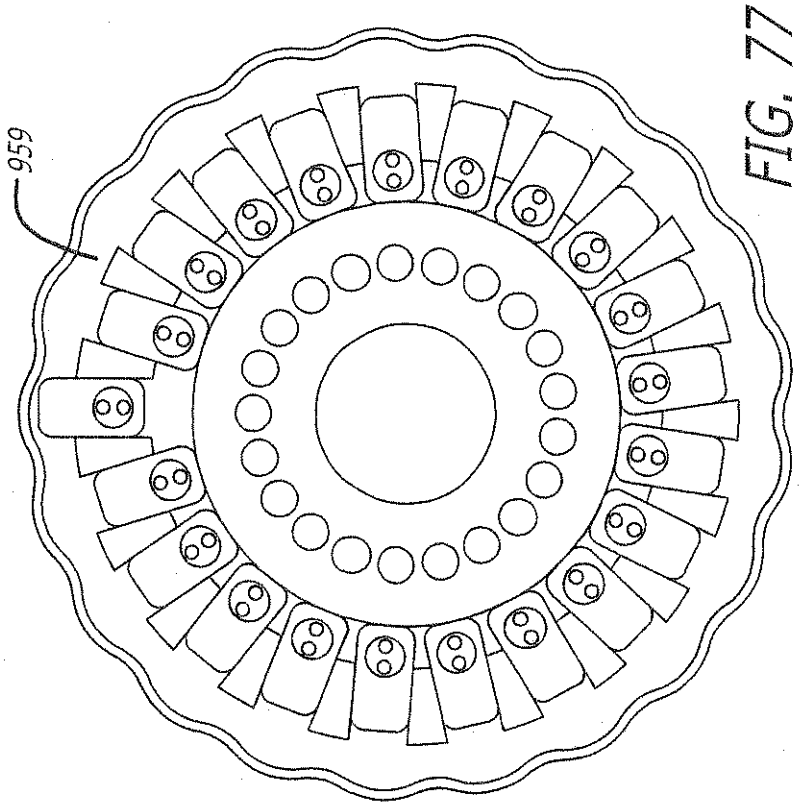


FIG. 77

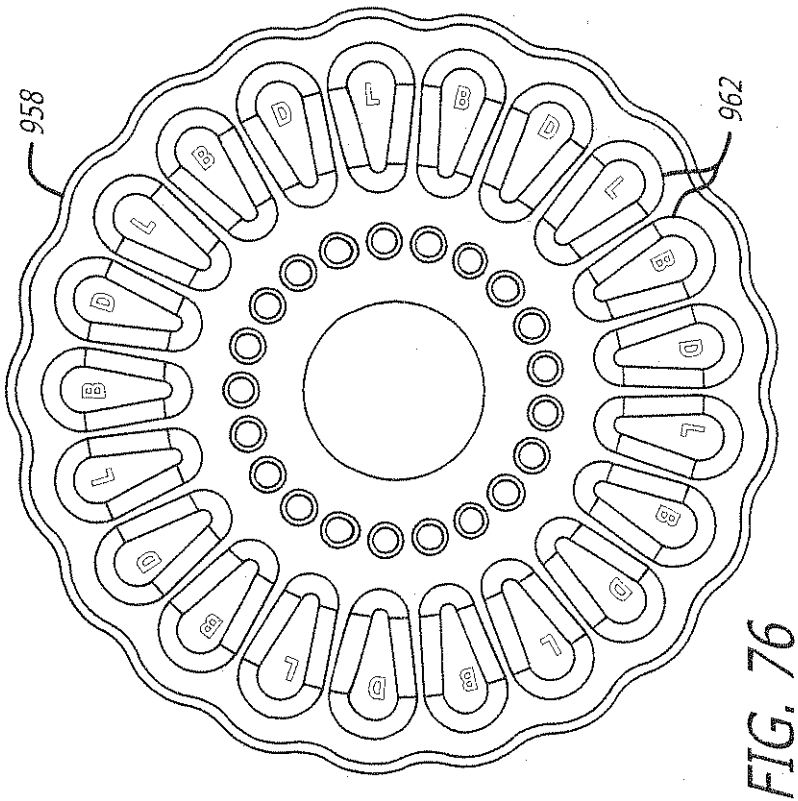


FIG. 76

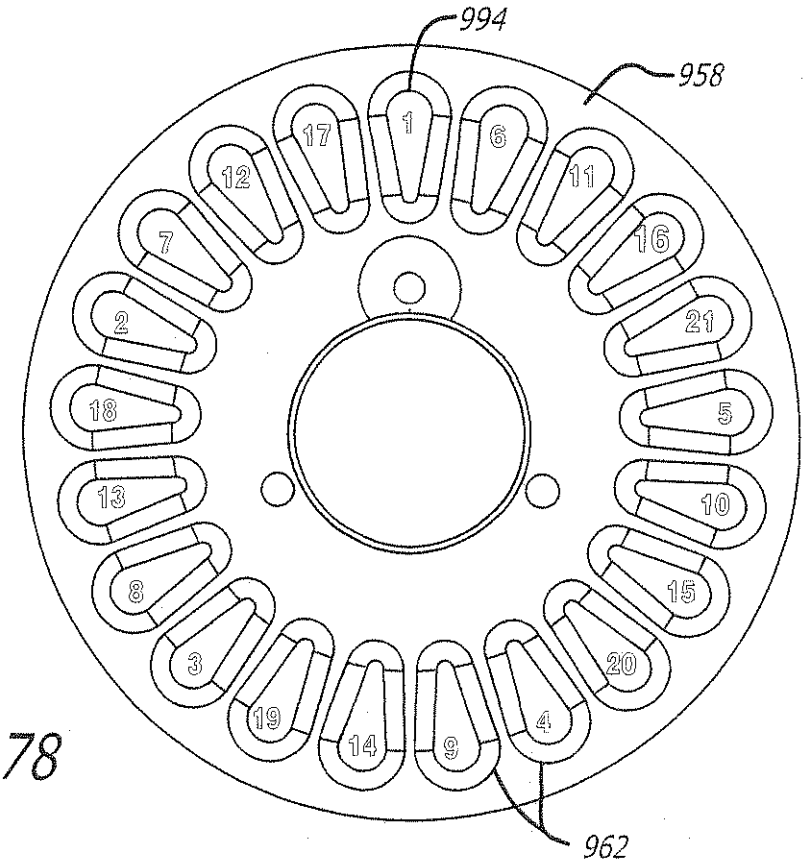


FIG. 78

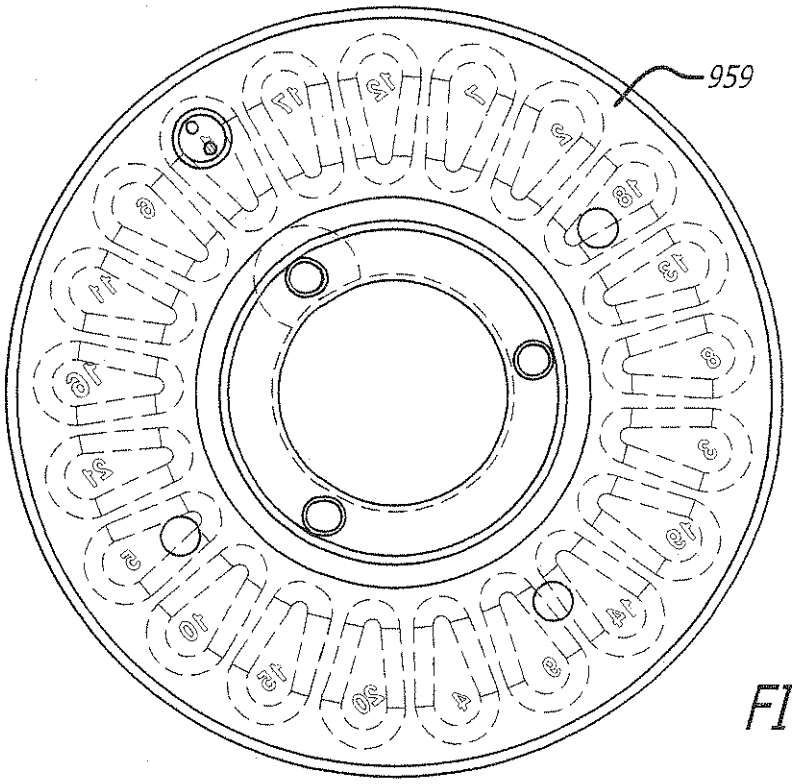


FIG. 79

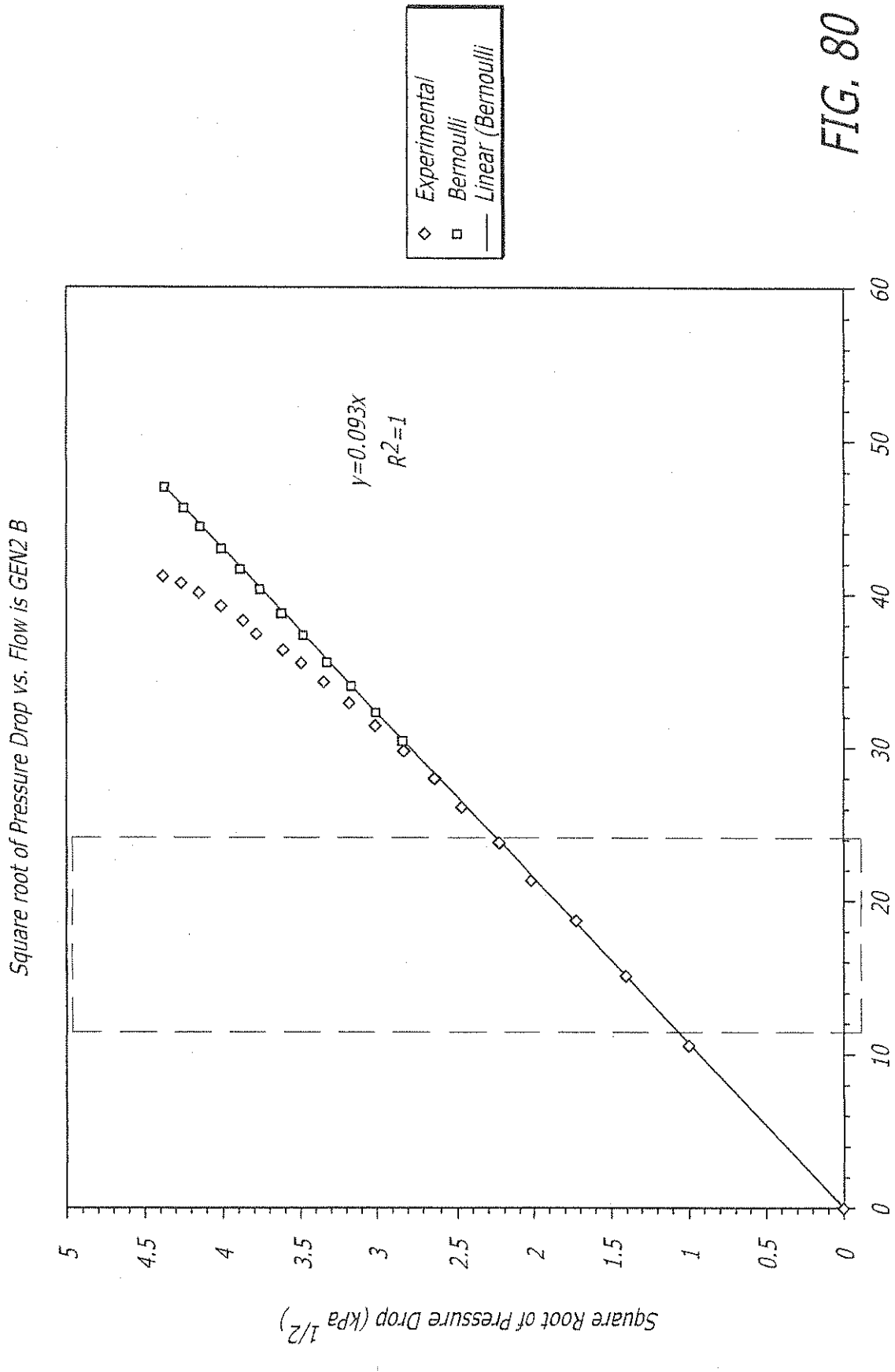

Square root of Pressure Drop vs. Flow is GEN2 B
Square Root of Pressure Drop (kPa 1/2)
Flow (L/min)
y=0.093x
R2=1
Experimental
Bernoulli
Linear (Bernoulli)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0
10
20
30
40
50
60

FIG. 80

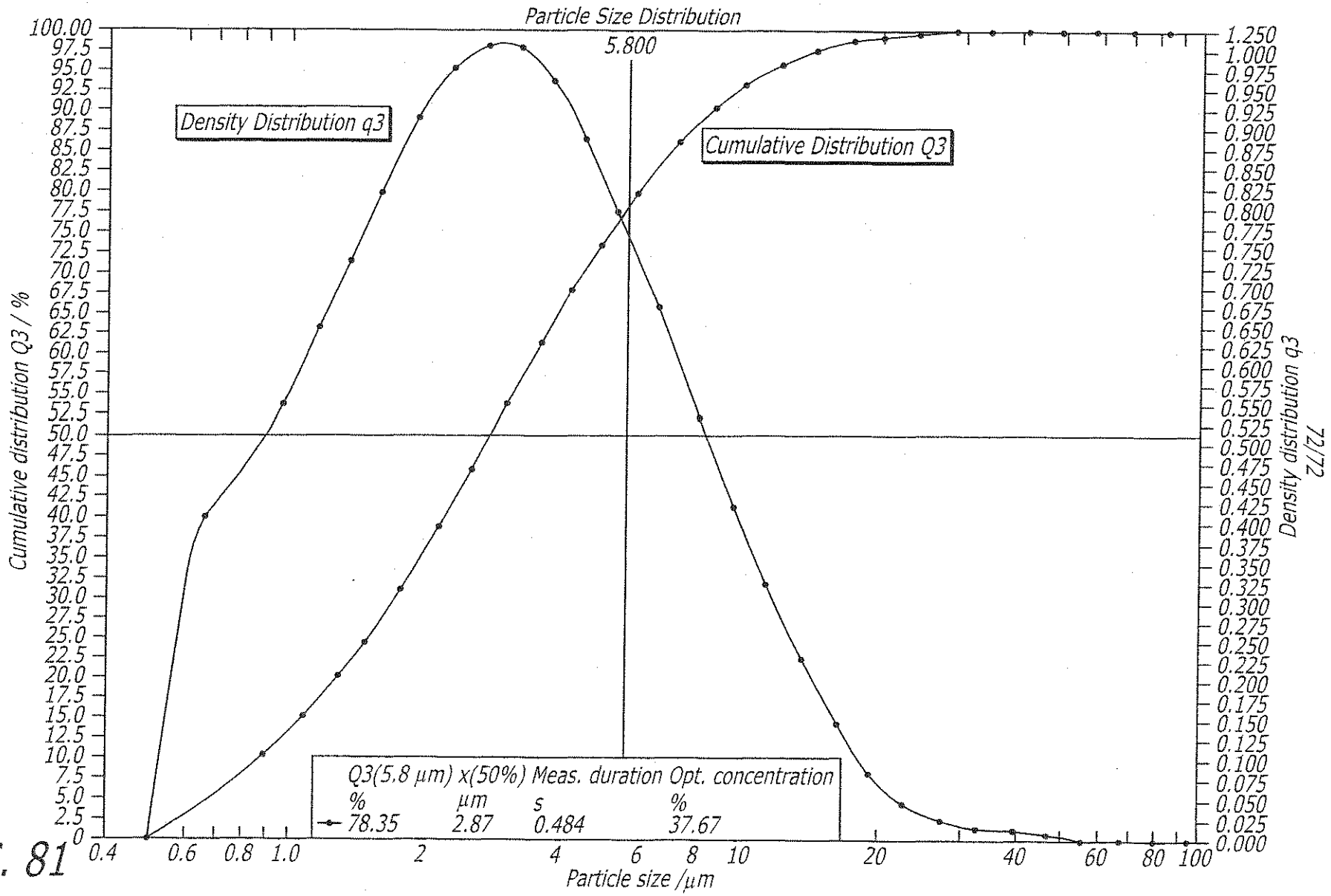

Particle Size Distribution
5.800
Density Distribution q3
Cumulative Distribution Q3
Cumulative distribution Q3 / %
Density distribution q3
Particle size /µm
Q3(5.8 µm) x(50%) Meas. duration Opt. concentration
% µm s %
78.35 2.87 0.484 37.67
100.00 97.5 95.0 92.5 90.0 87.5 85.0 82.5 80.0 77.5 75.0 72.5 70.0 67.5 65.0 62.5 60.0 57.5 55.0 52.5 50.0 47.5 45.0 42.5 40.0 37.5 35.0 32.5 30.0 27.5 25.0 22.5 20.0 17.5 15.0 12.5 10.0 7.5 5.0 2.5 0
1.250 1.000 0.975 0.950 0.925 0.900 0.875 0.850 0.825 0.800 0.775 0.750 0.725 0.700 0.675 0.650 0.625 0.600 0.575 0.550 0.525 0.500 0.475 0.450 0.425 0.400 0.375 0.350 0.325 0.300 0.275 0.250 0.225 0.200 0.175 0.150 0.125 0.100 0.075 0.050 0.025 0.000
0.4 0.6 0.8 1.0 2 4 6 8 10 20 40 60 80 100

FIG. 81