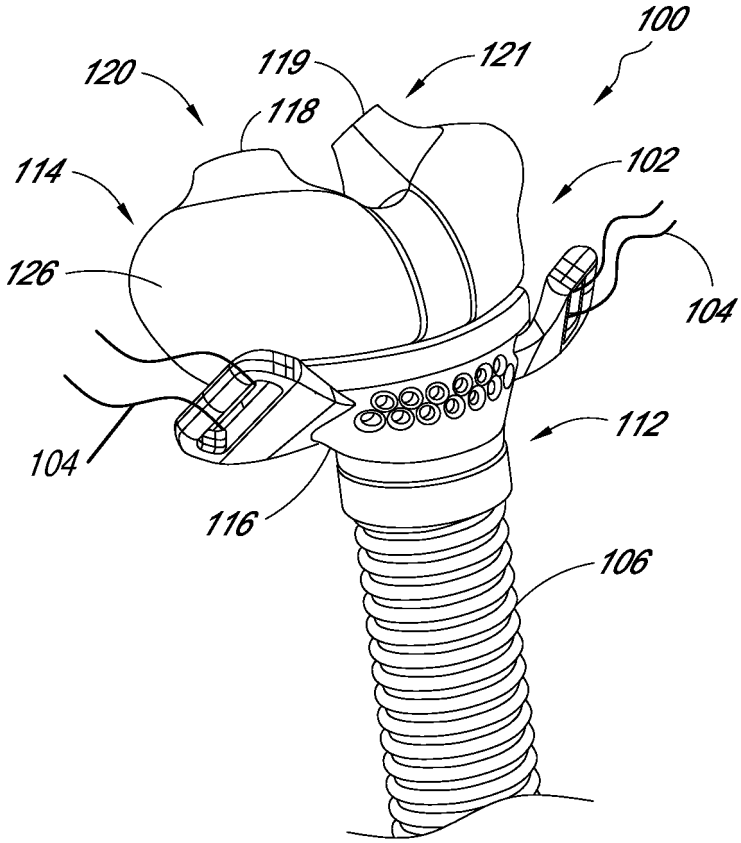

100
120
119
121
118
114
102
126
104
104
112
116
106

FIG. 1

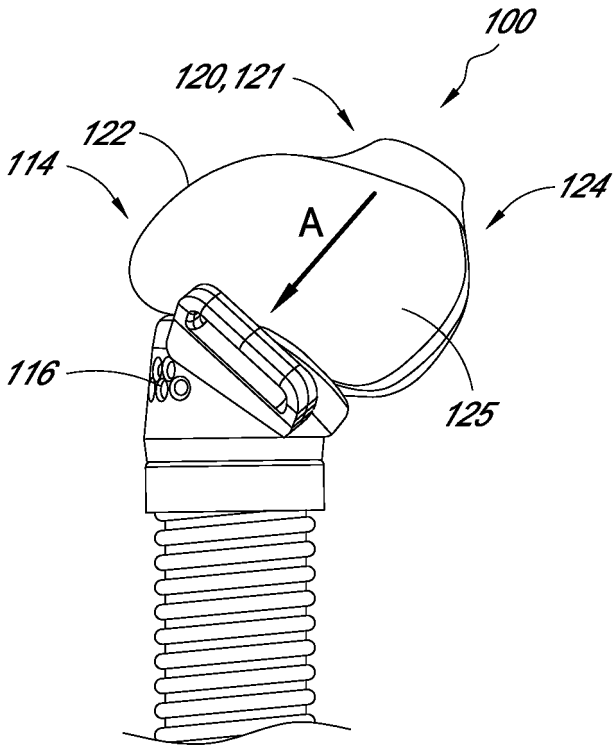

100
120,121
122
114
124
A
116
125

FIG. 2

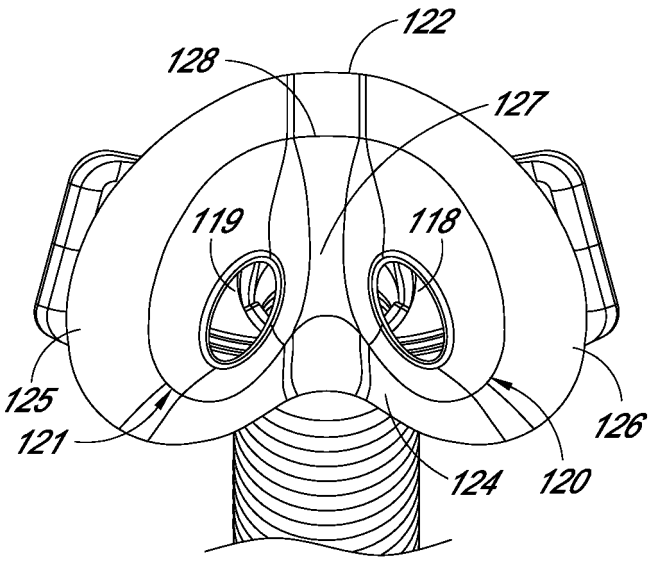

122
128
127
119
118
125
121
126
124
120

FIG. 3

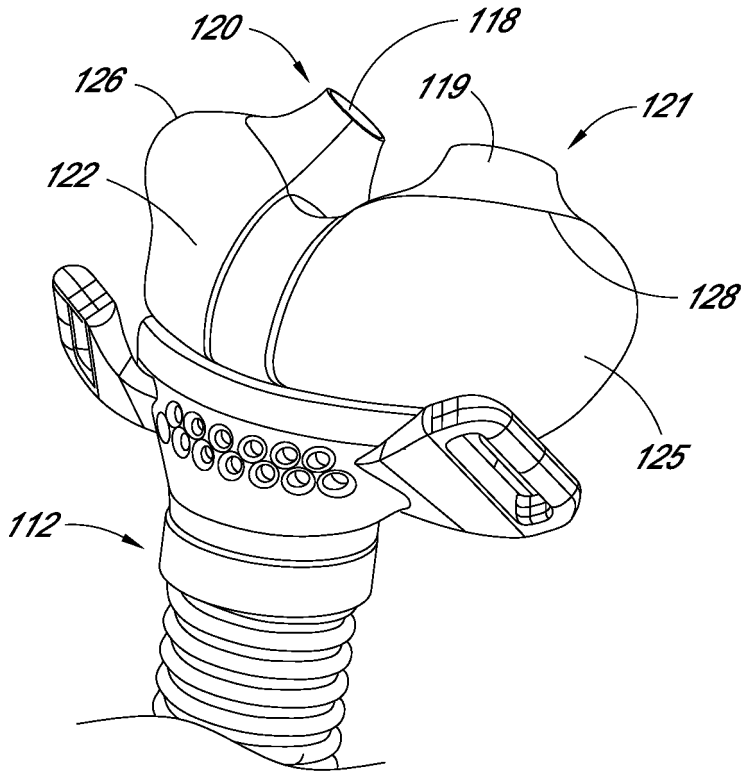

120
118
126
119
121
122
128
125
112

FIG. 4

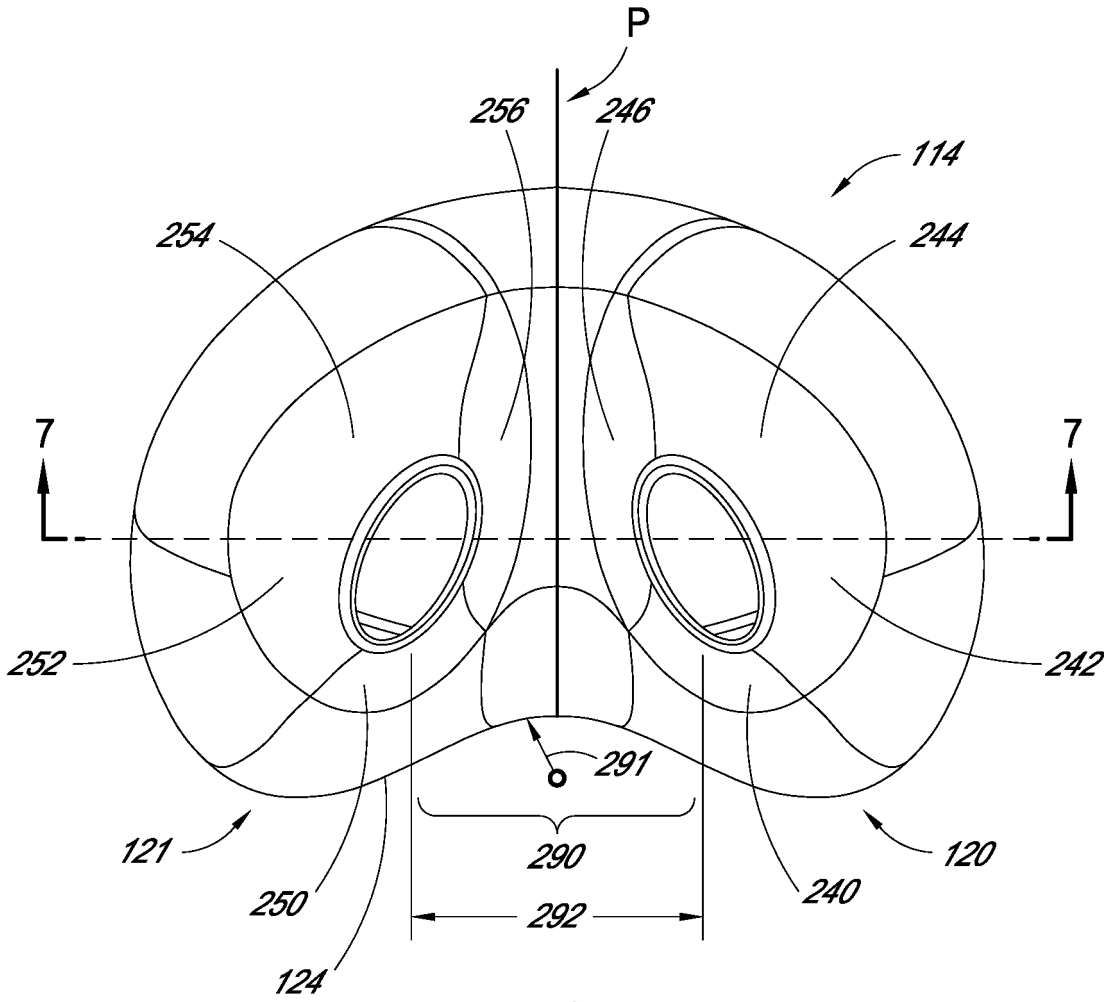

P
256
246
114
254
244
7
7
252
242
291
290
121
120
250
240
292
124

FIG. 5

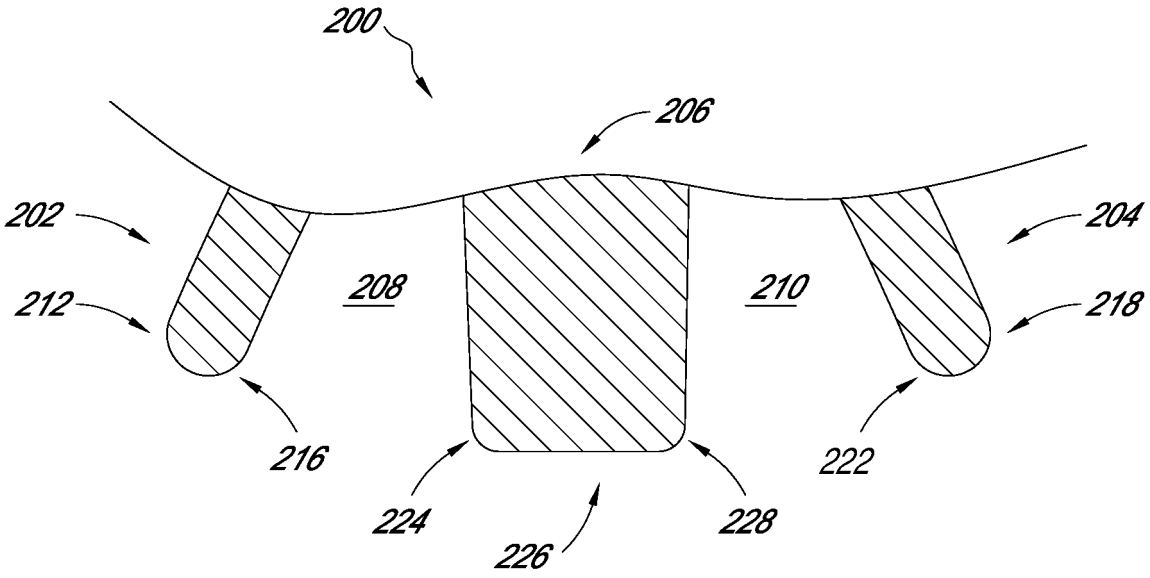

200
206
202
204
212
208
210
218
216
222
224
228
226

FIG. 6

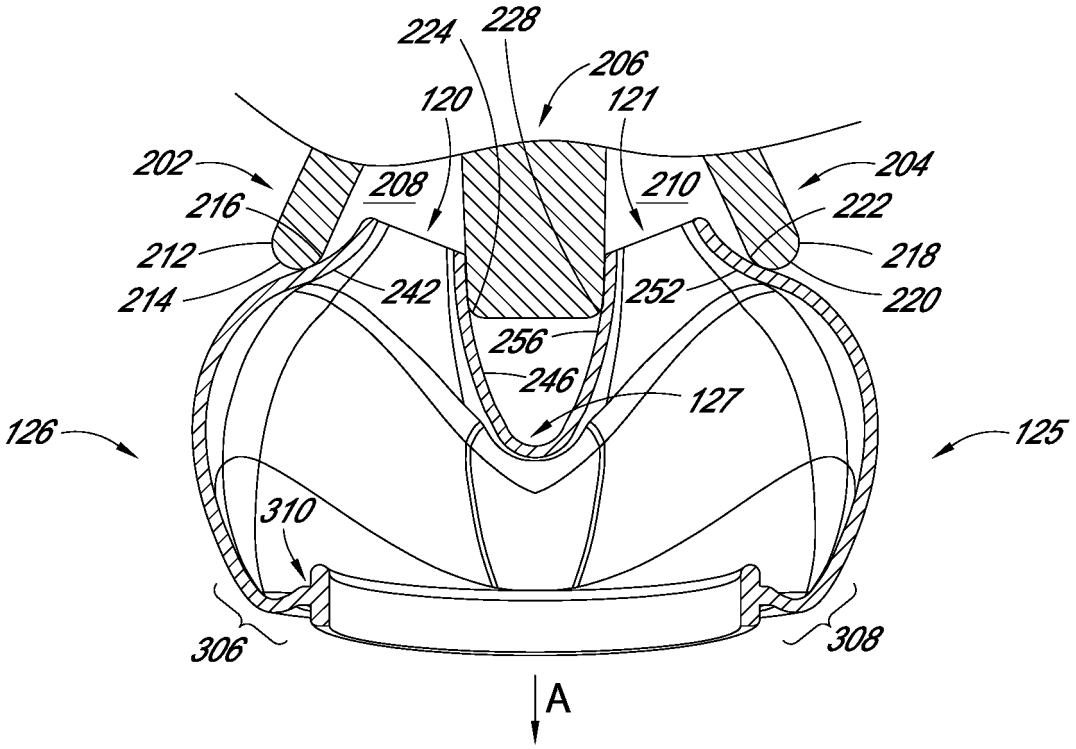

224
228
206
120
121
202
208
210
204
216
222
212
218
214
242
252
220
256
246
127
126
125
310
306
308
A

FIG. 7

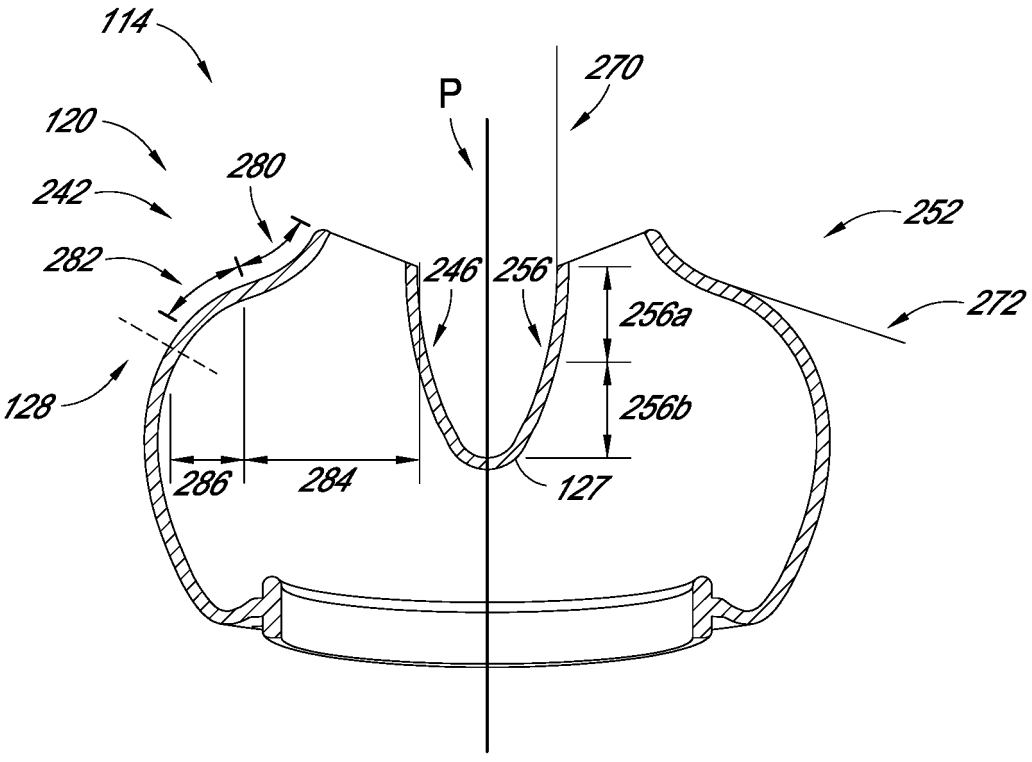

114
270
P
120
280
242
252
282
246
256
256a
272
128
256b
286
284
127

FIG. 7A

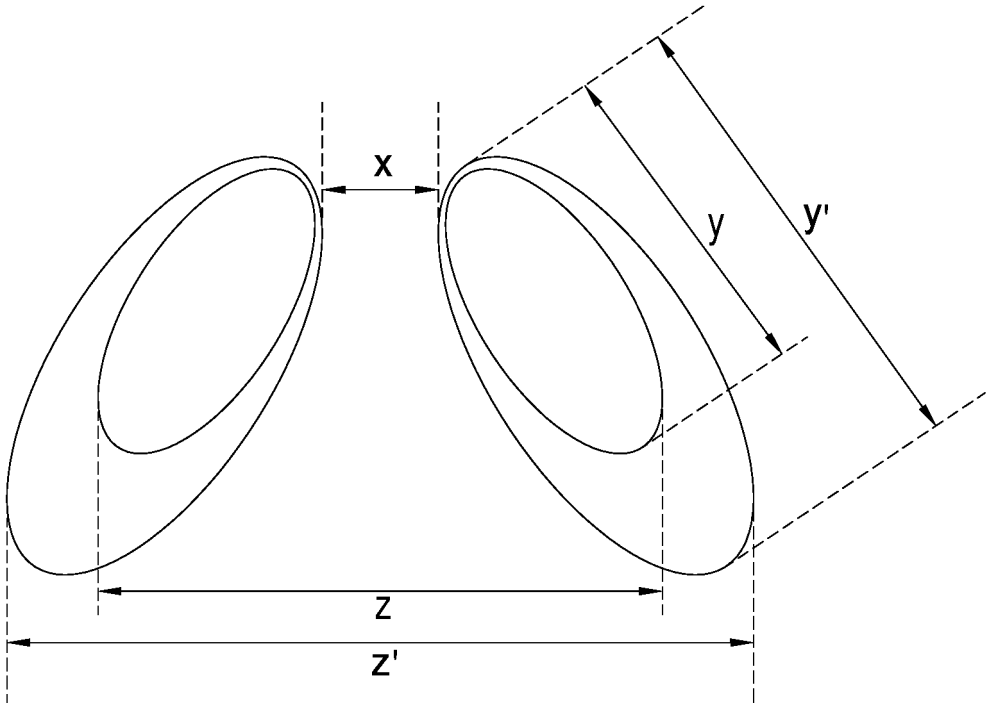


FIG. 7B

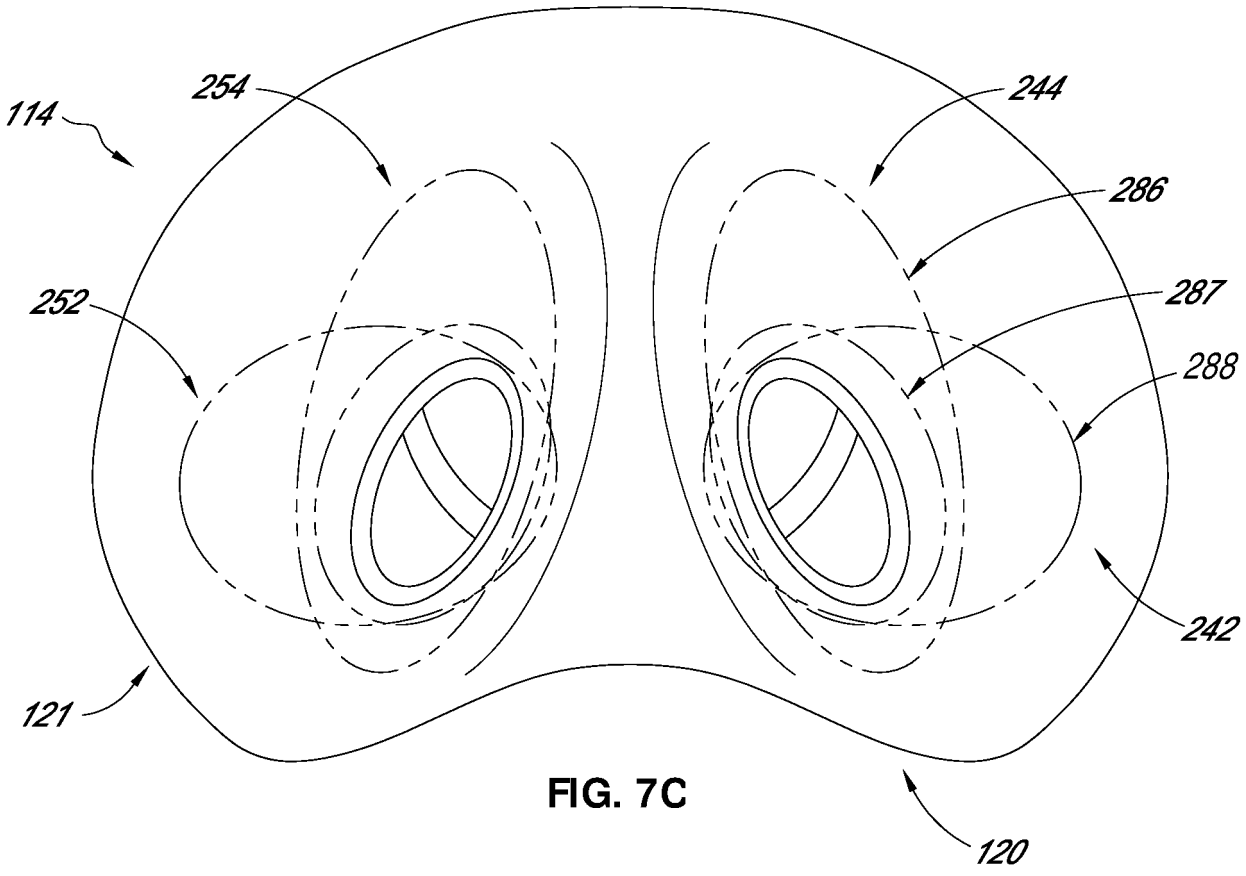


FIG. 7C

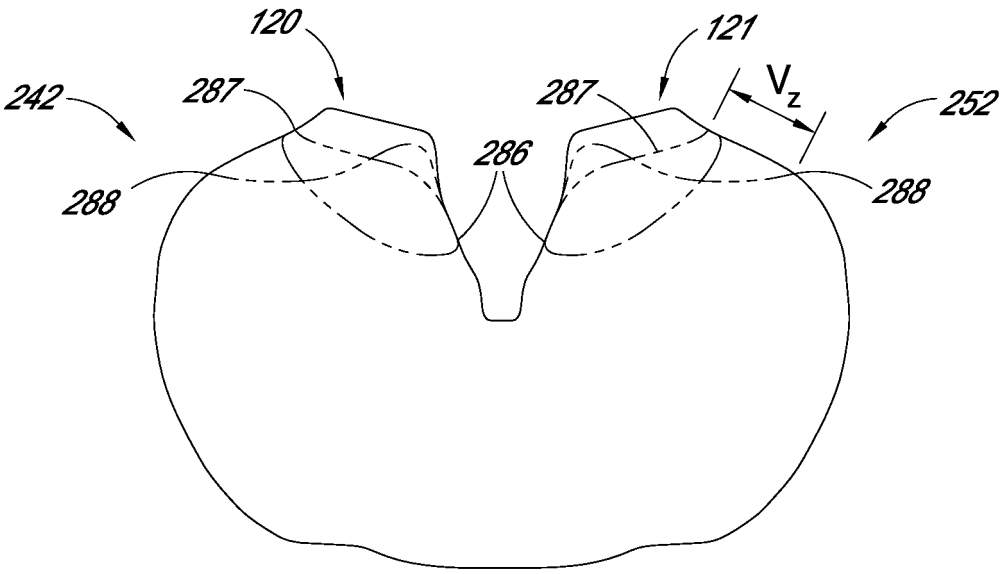


FIG. 7D

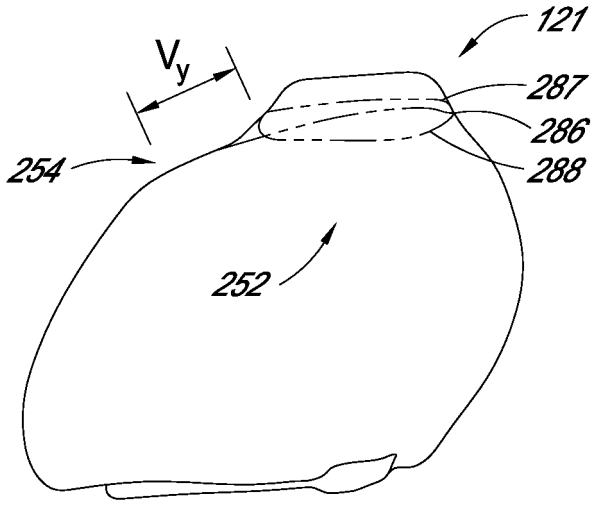


FIG. 7E

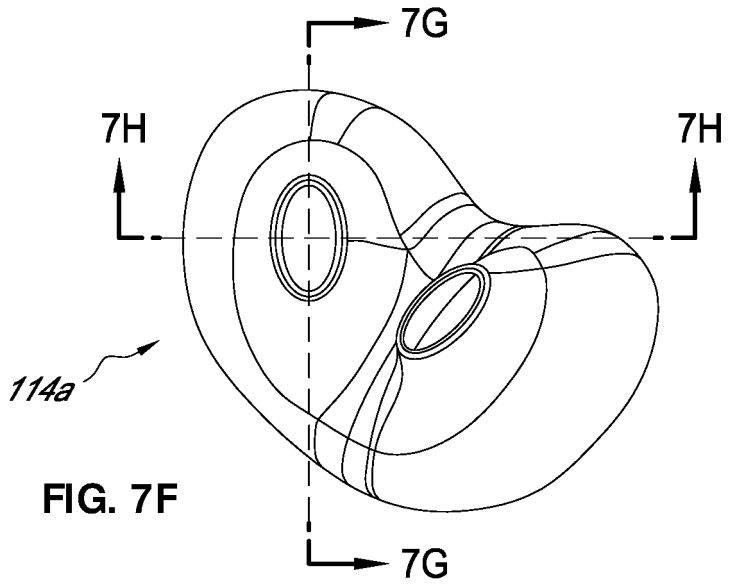


FIG. 7F

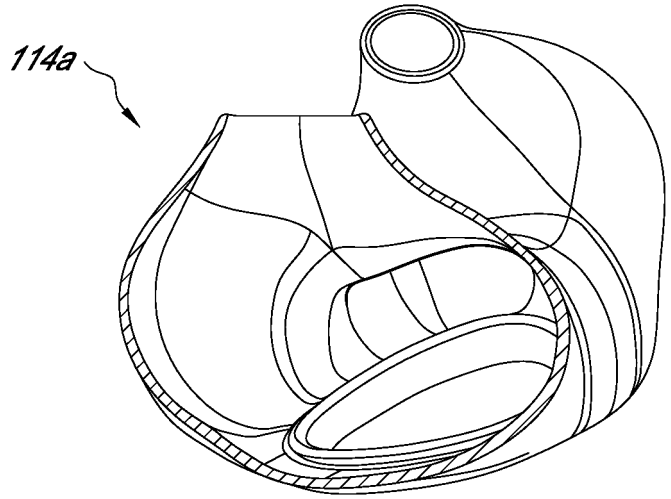


FIG. 7G

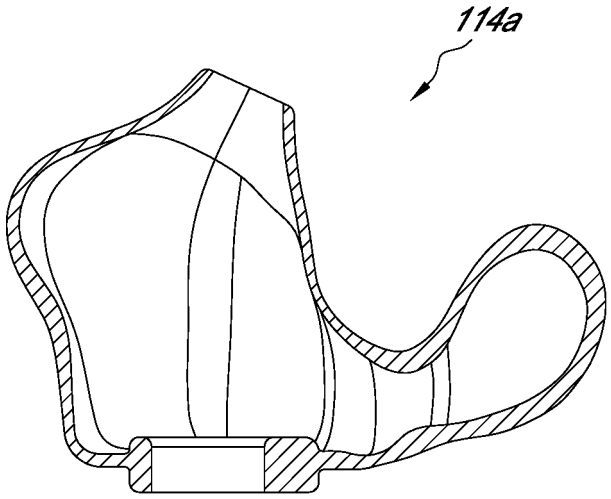


FIG. 7H

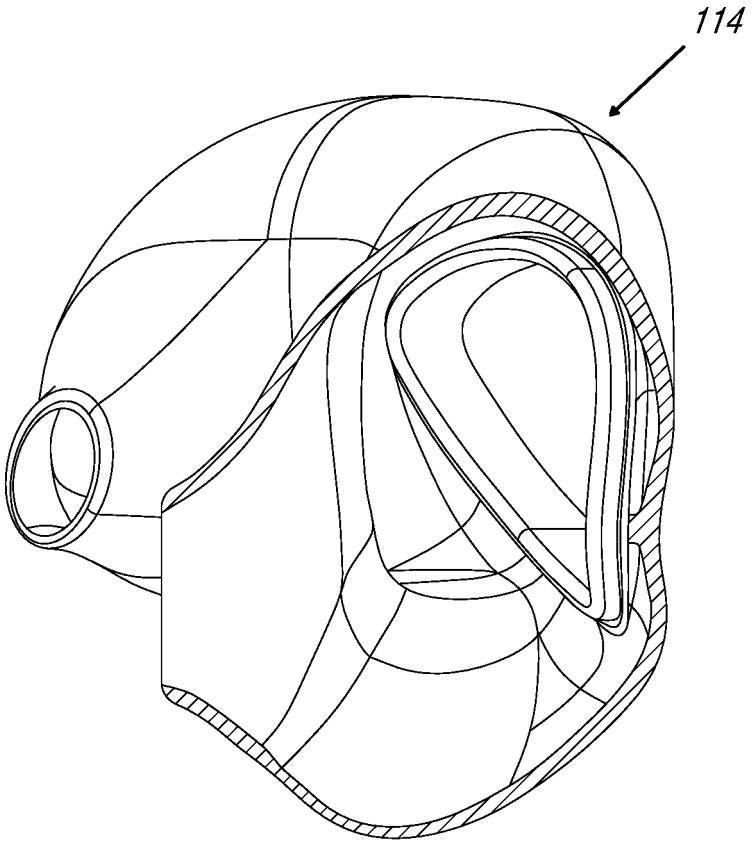


FIG. 8

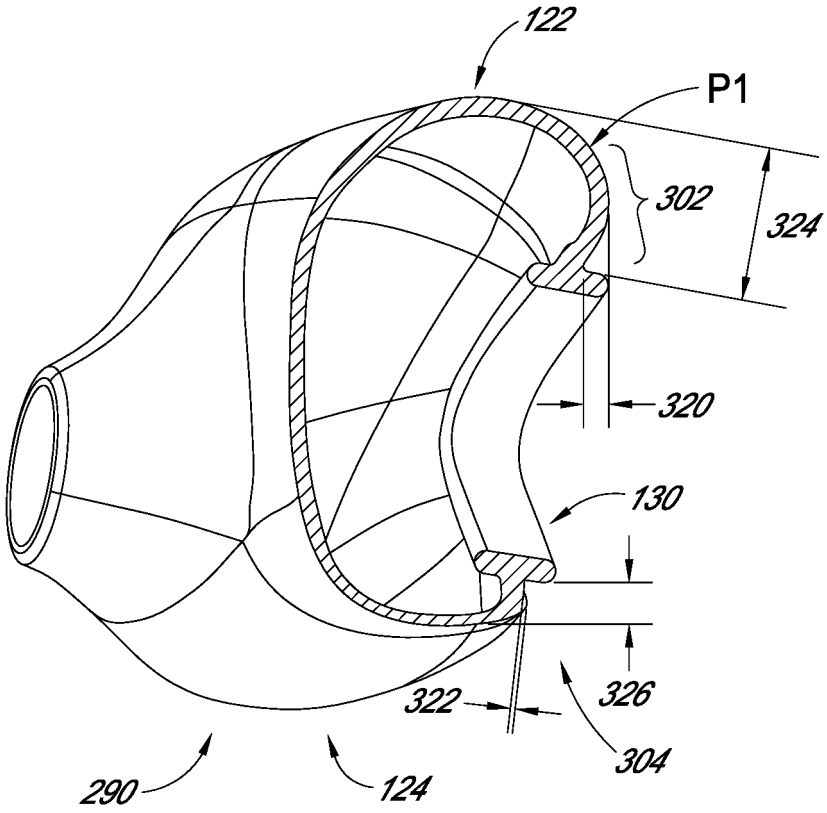


FIG. 9

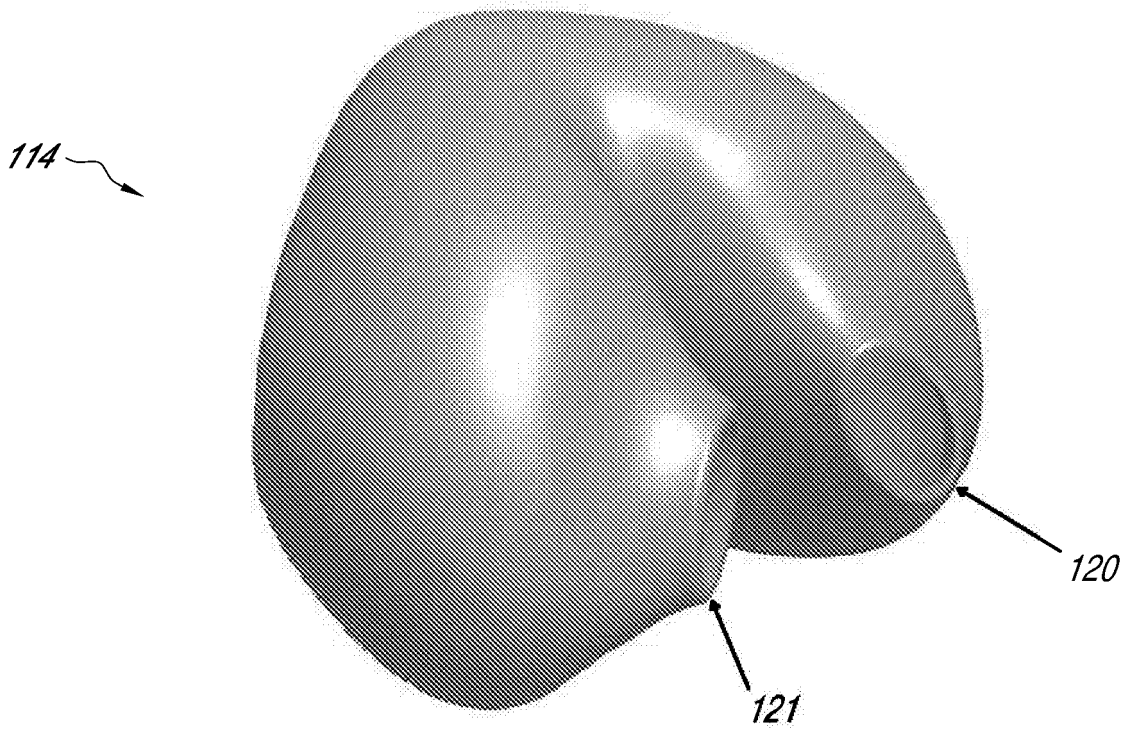


FIG. 10

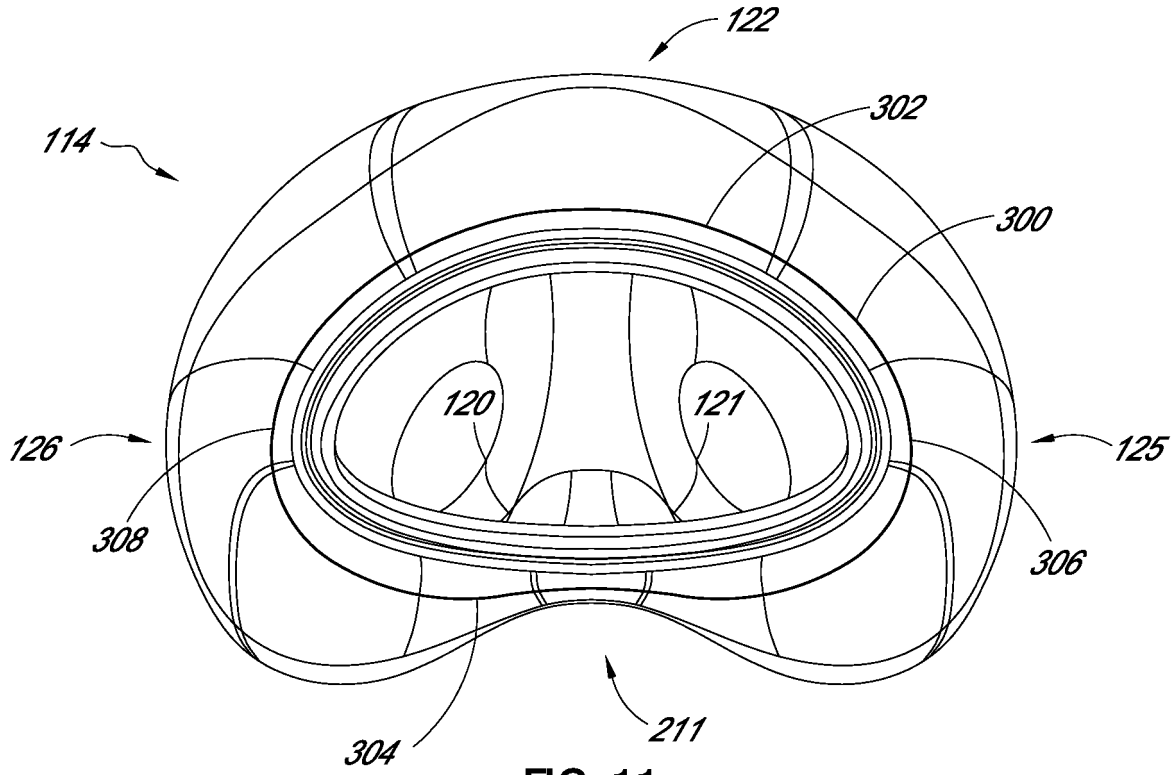


FIG. 11

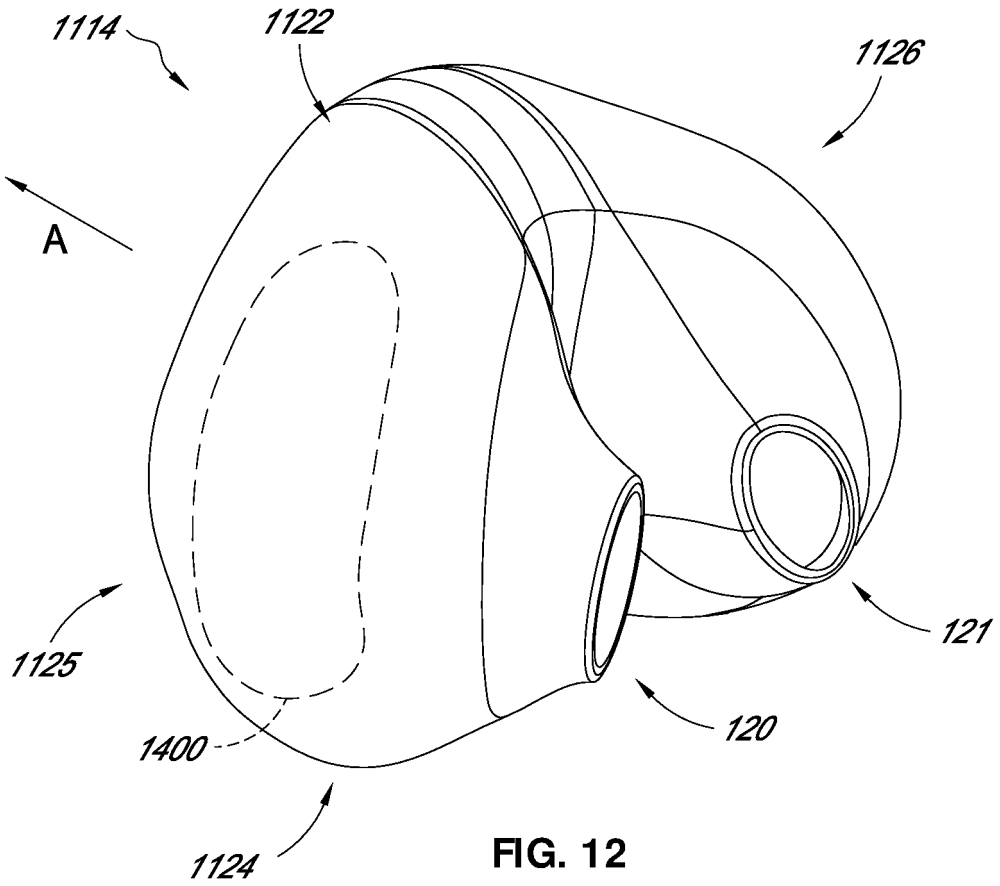


FIG. 12

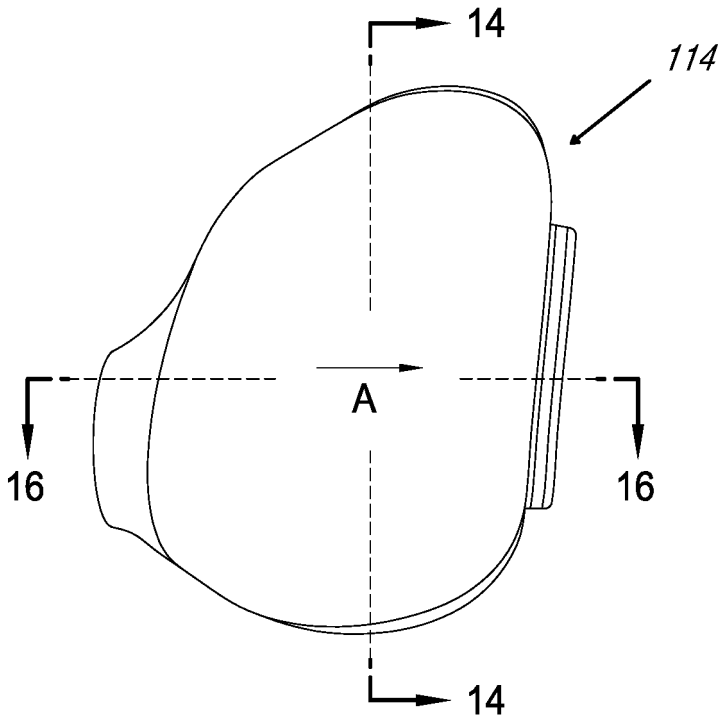


FIG. 13

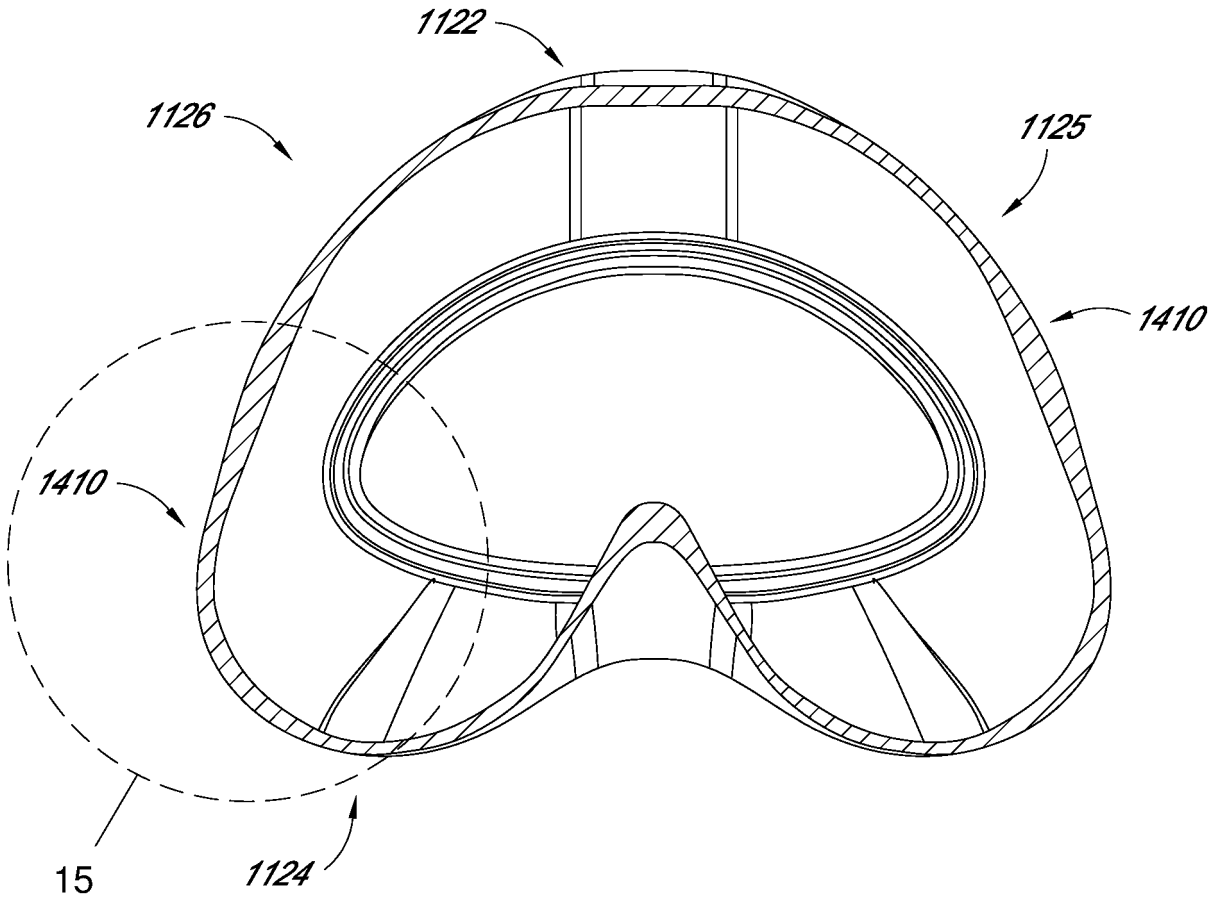


FIG. 14

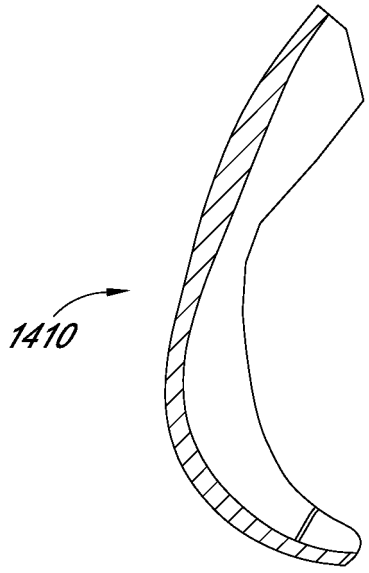


FIG. 15

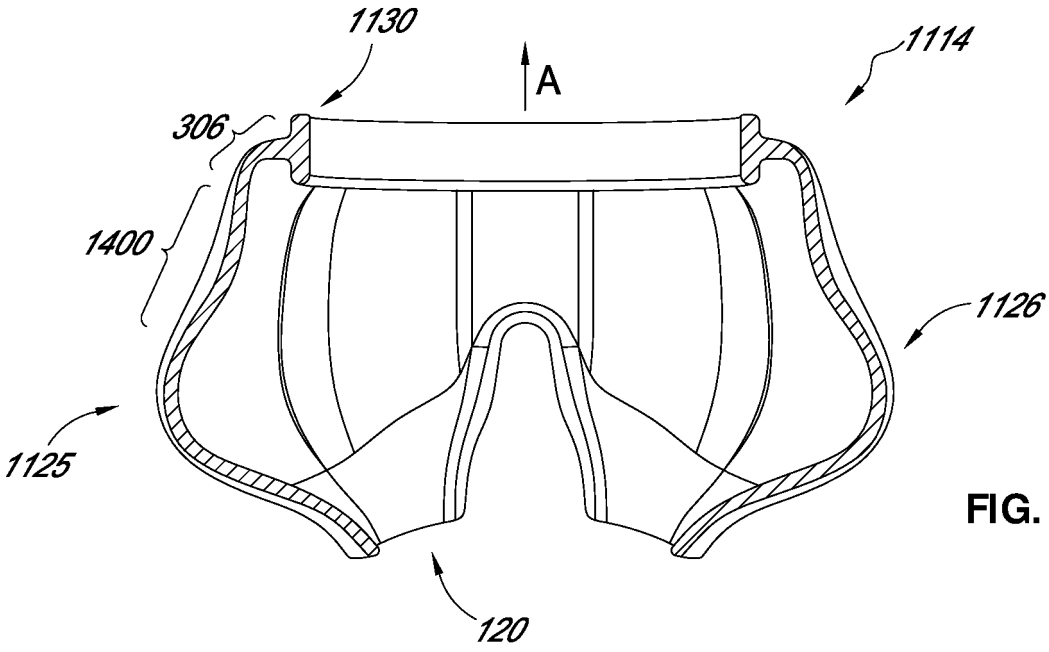


FIG. 16

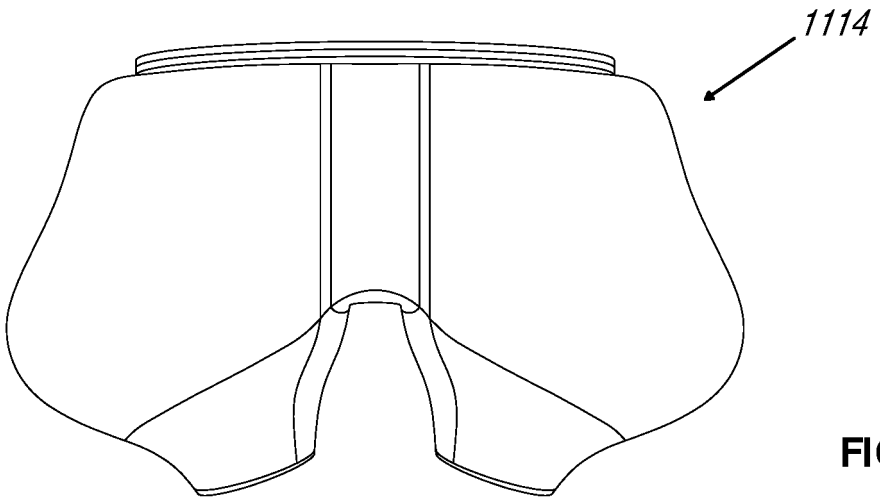


FIG. 17

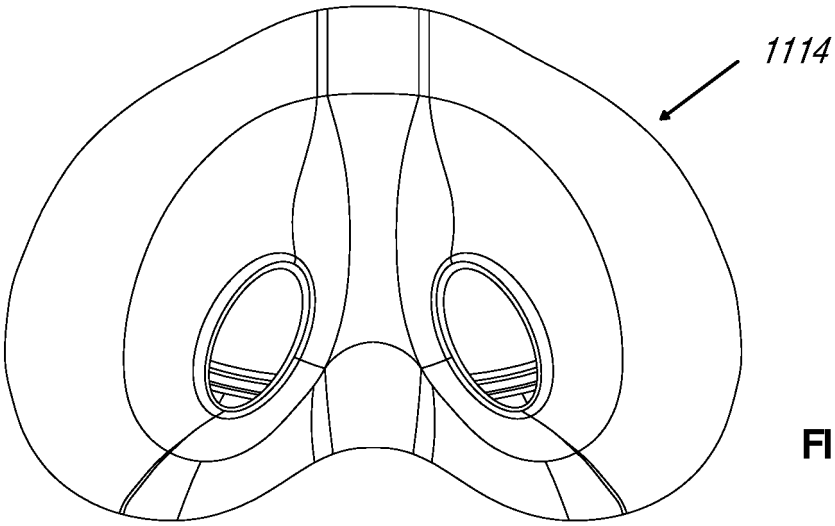


FIG. 18

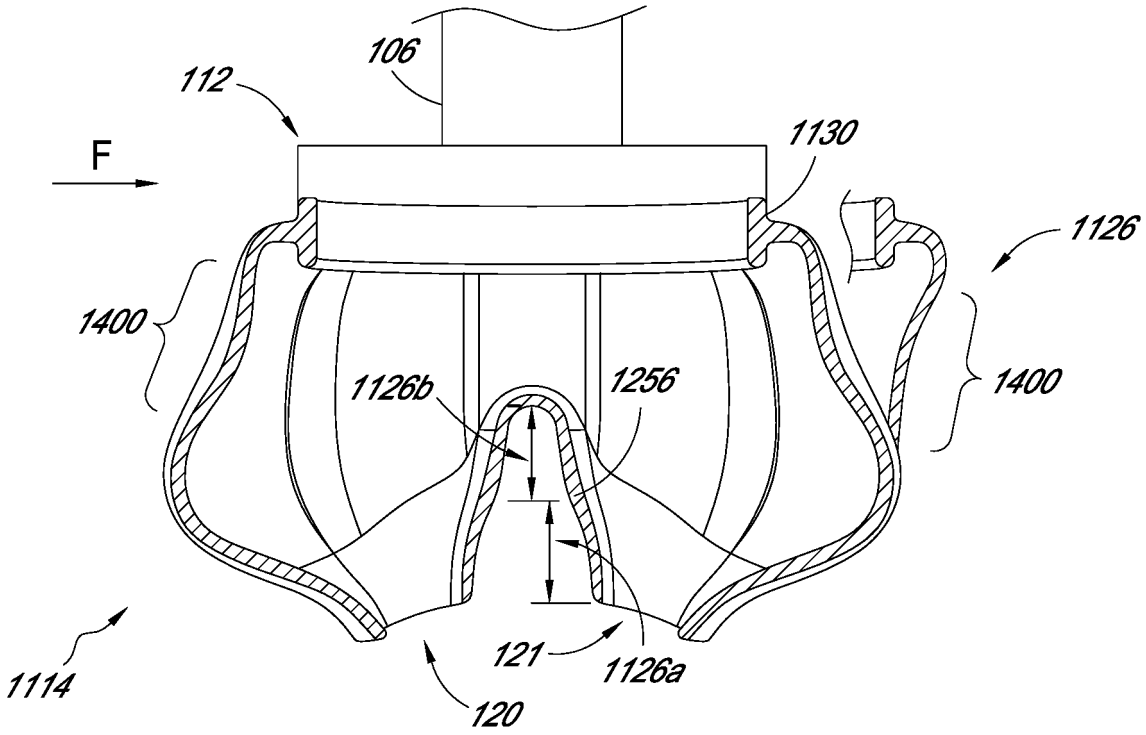


FIG. 19

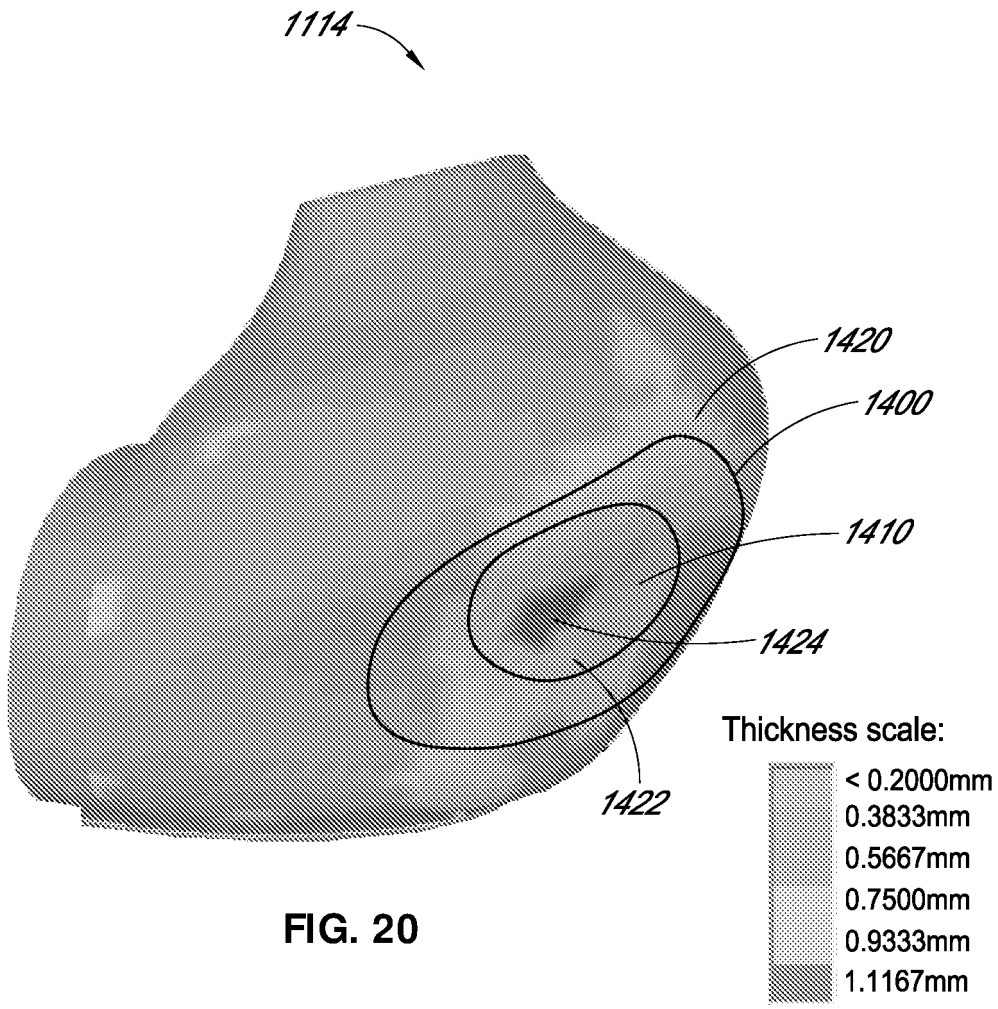

1114
1420
1400
1410
1424
1422
Thickness scale:
< 0.2000mm
0.3833mm
0.5667mm
0.7500mm
0.9333mm
1.1167mm

FIG. 20

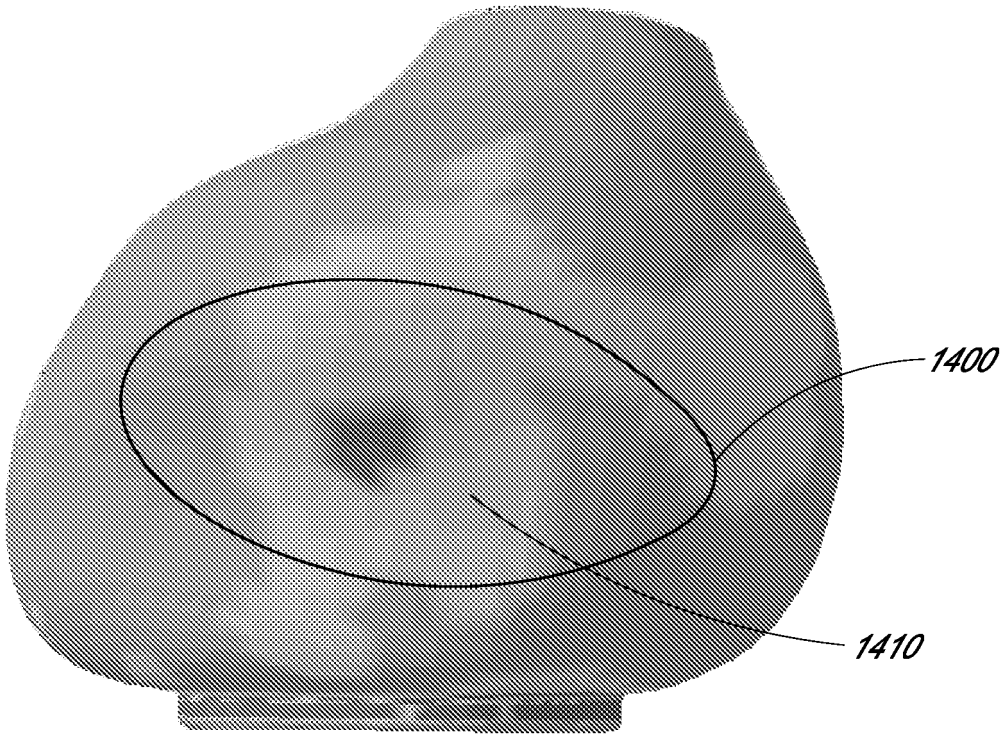

1400
1410

FIG. 21

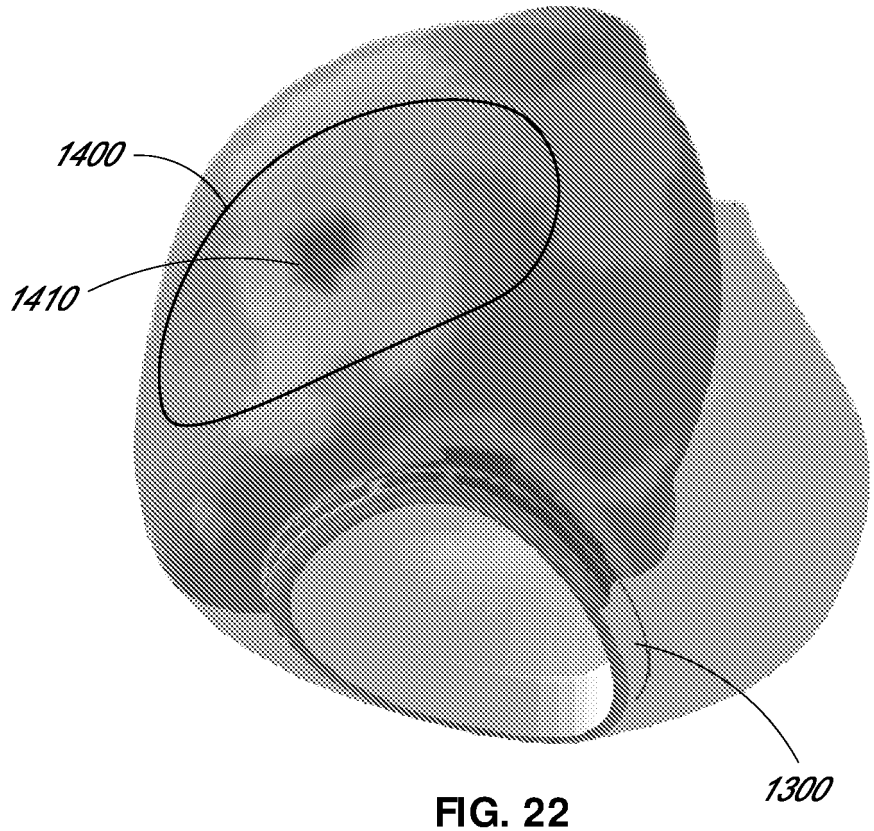


FIG. 22

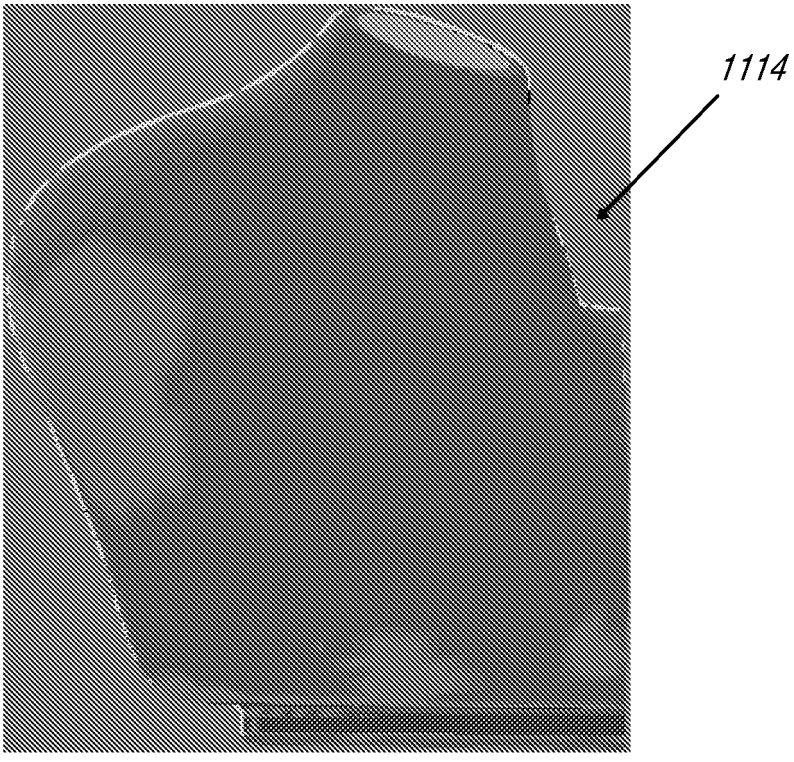


FIG. 23

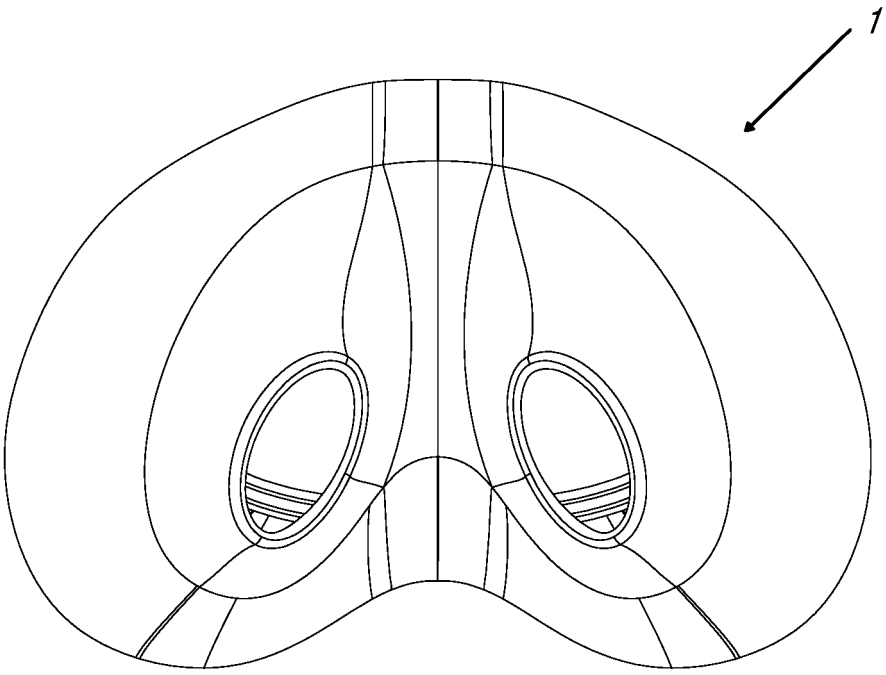


FIG. 24

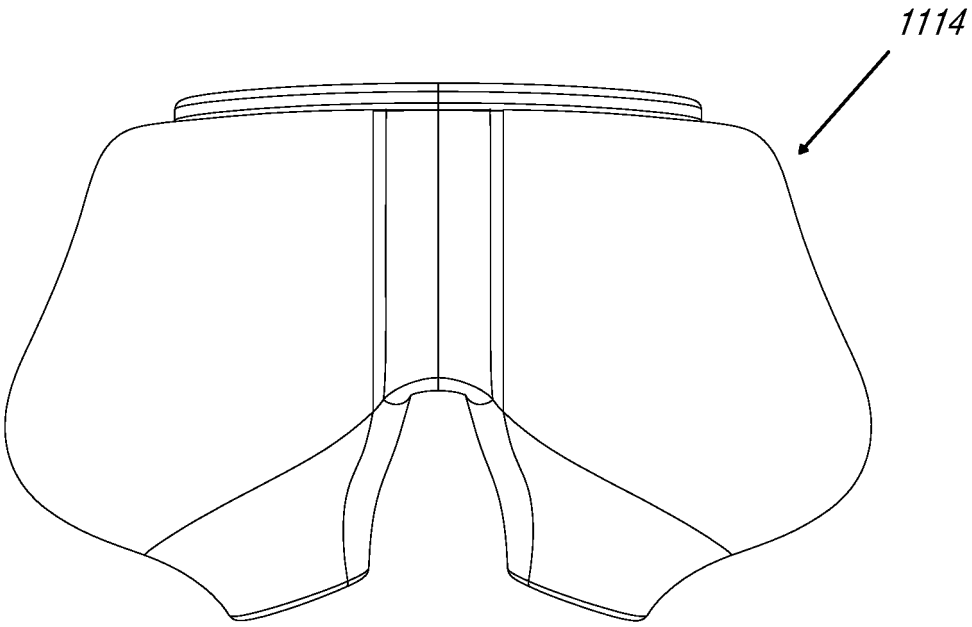


FIG. 25

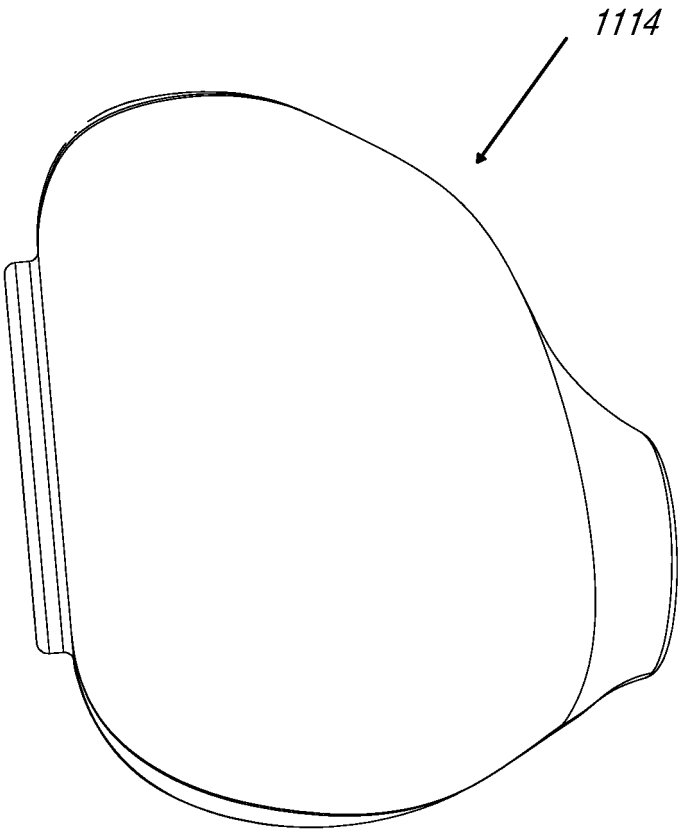


FIG. 26

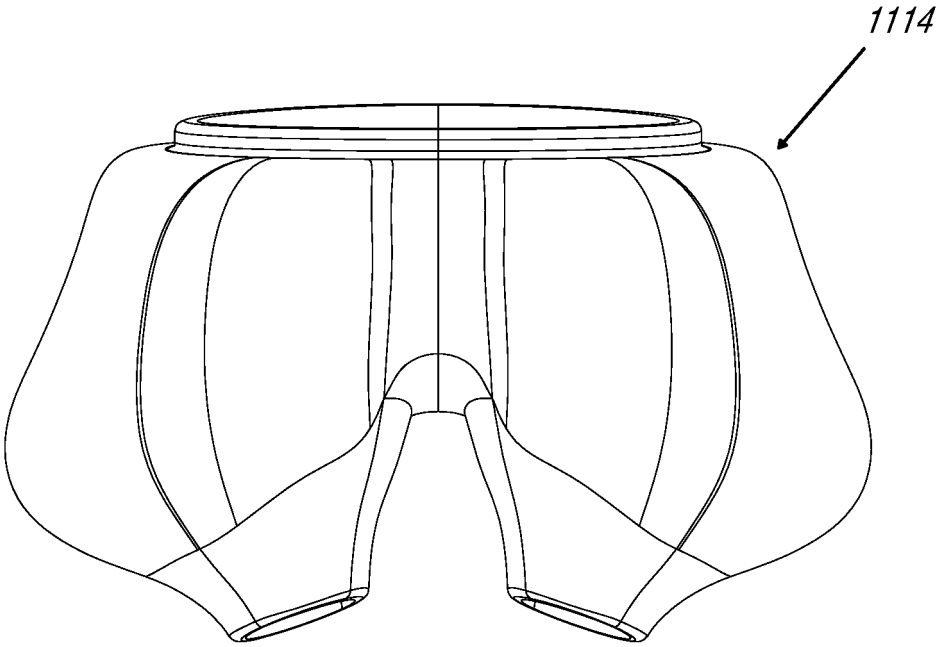


FIG. 27

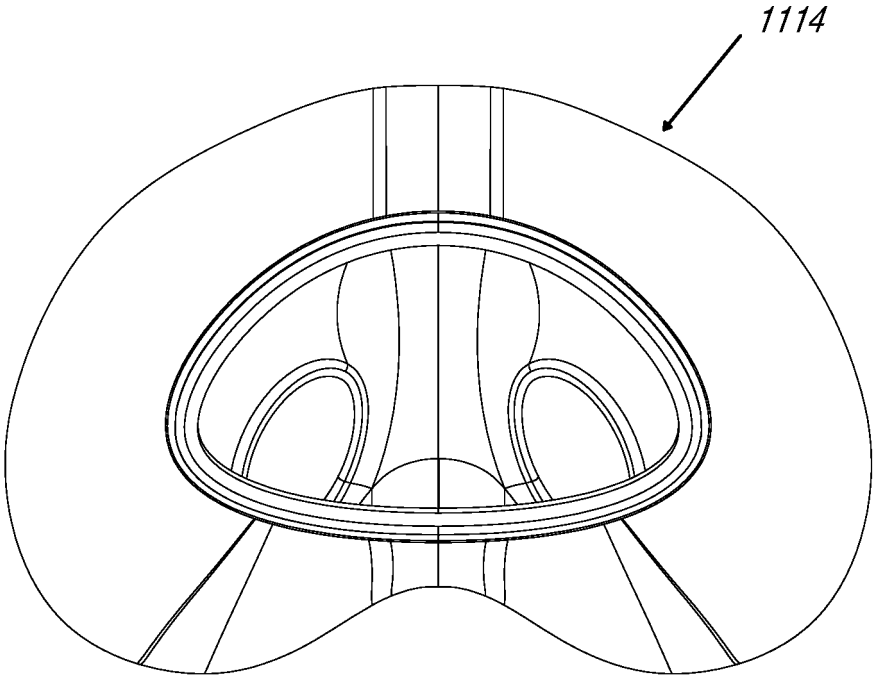


FIG. 28

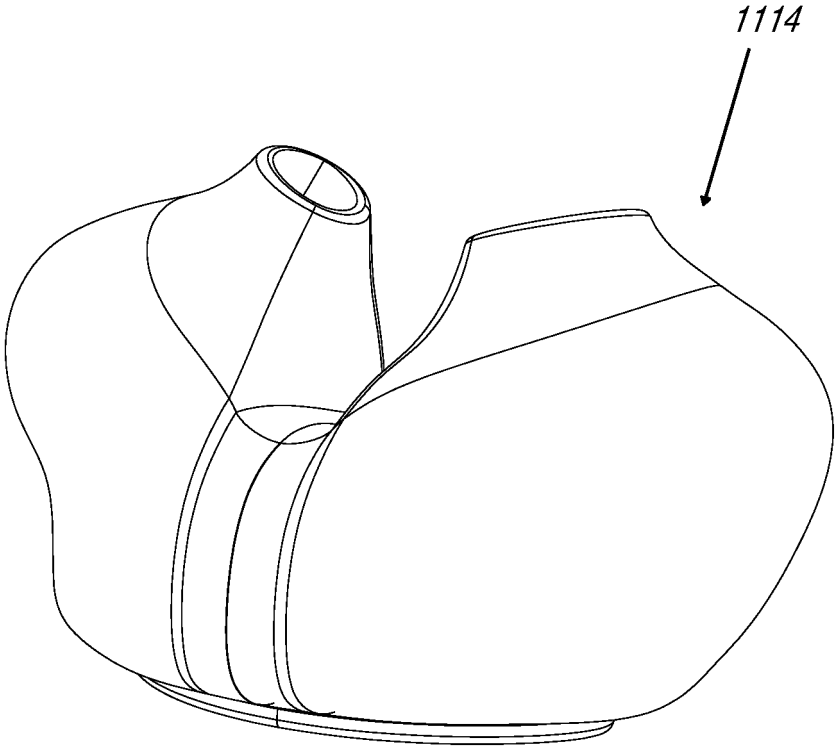


FIG. 29

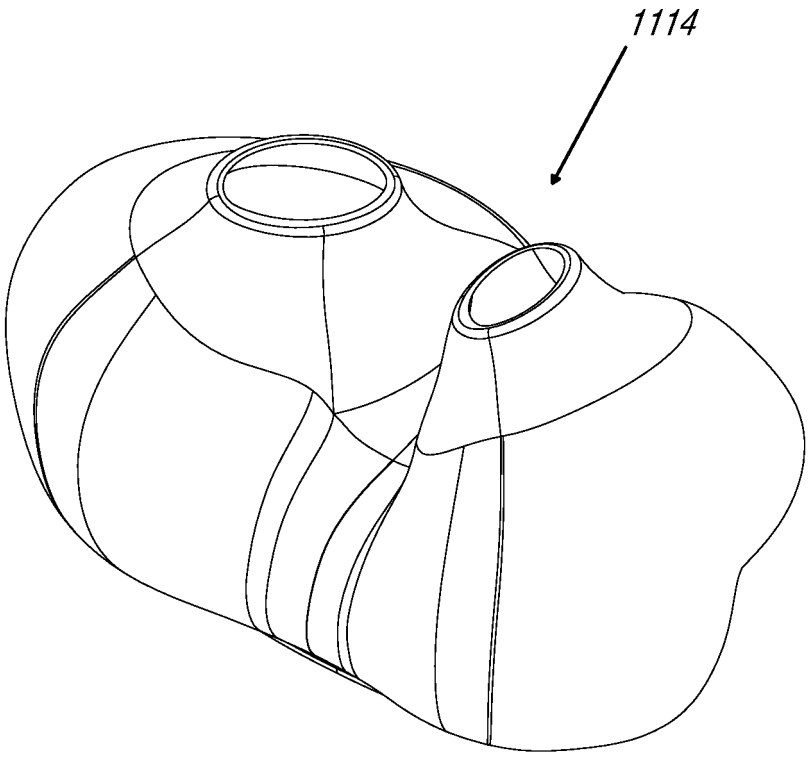


FIG. 30

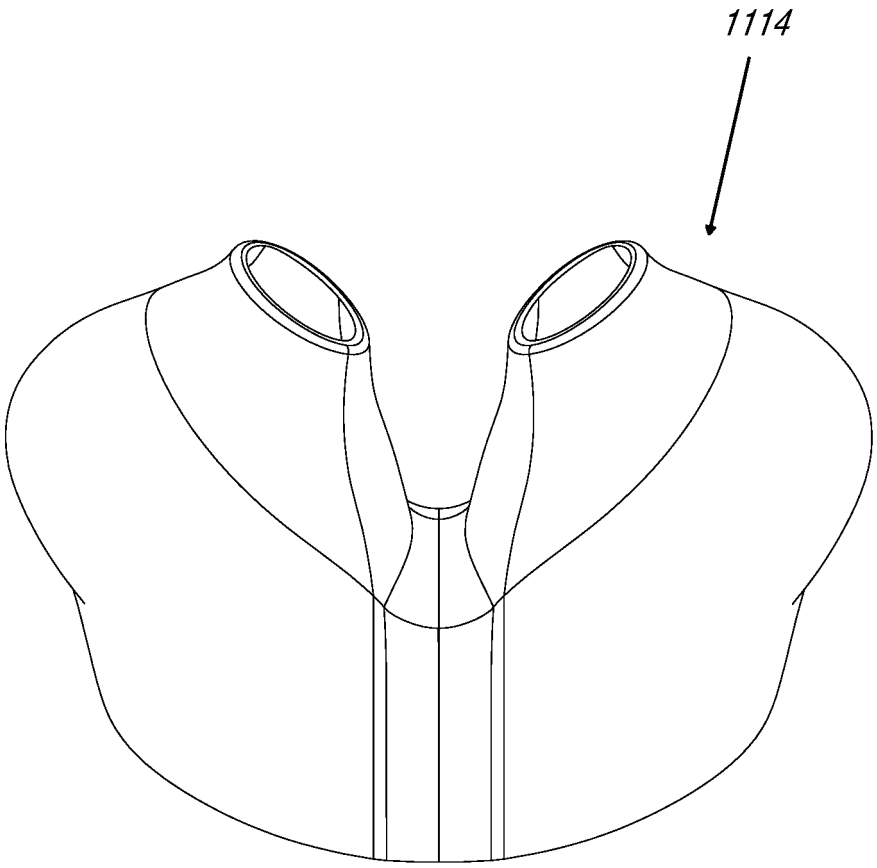


FIG. 31

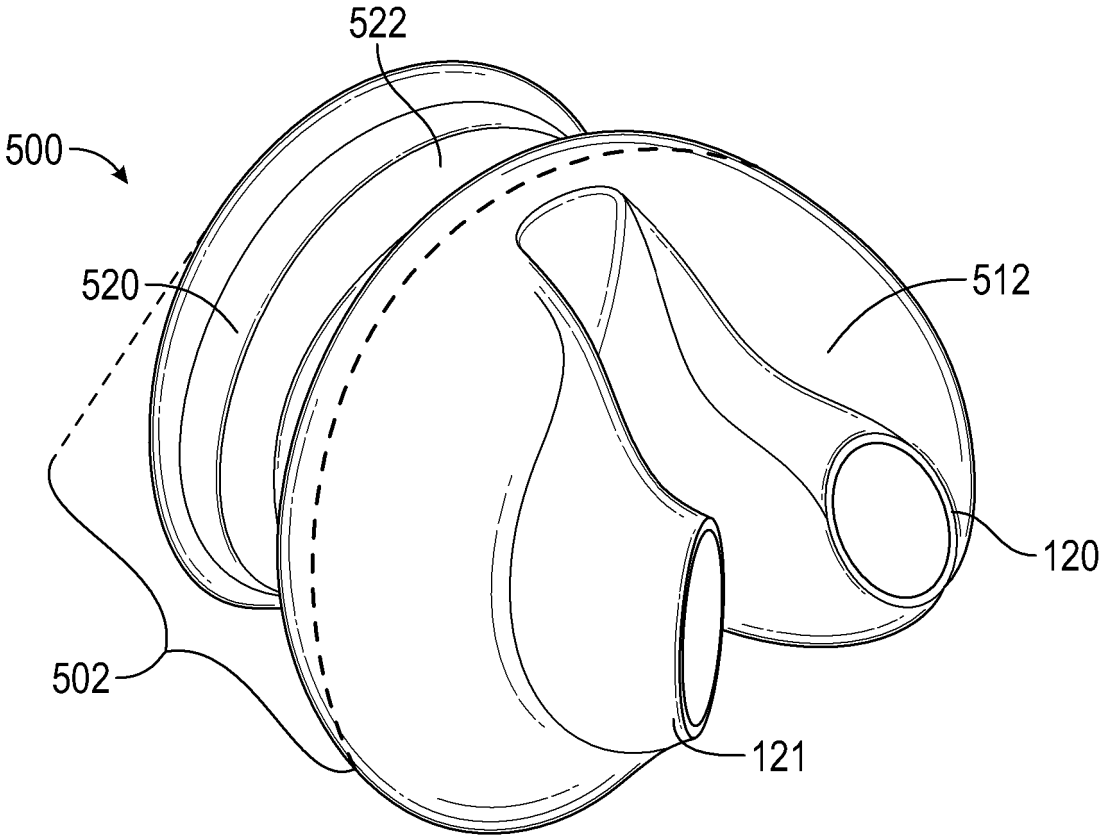

522
500
520
512
120
502
121

FIG. 32

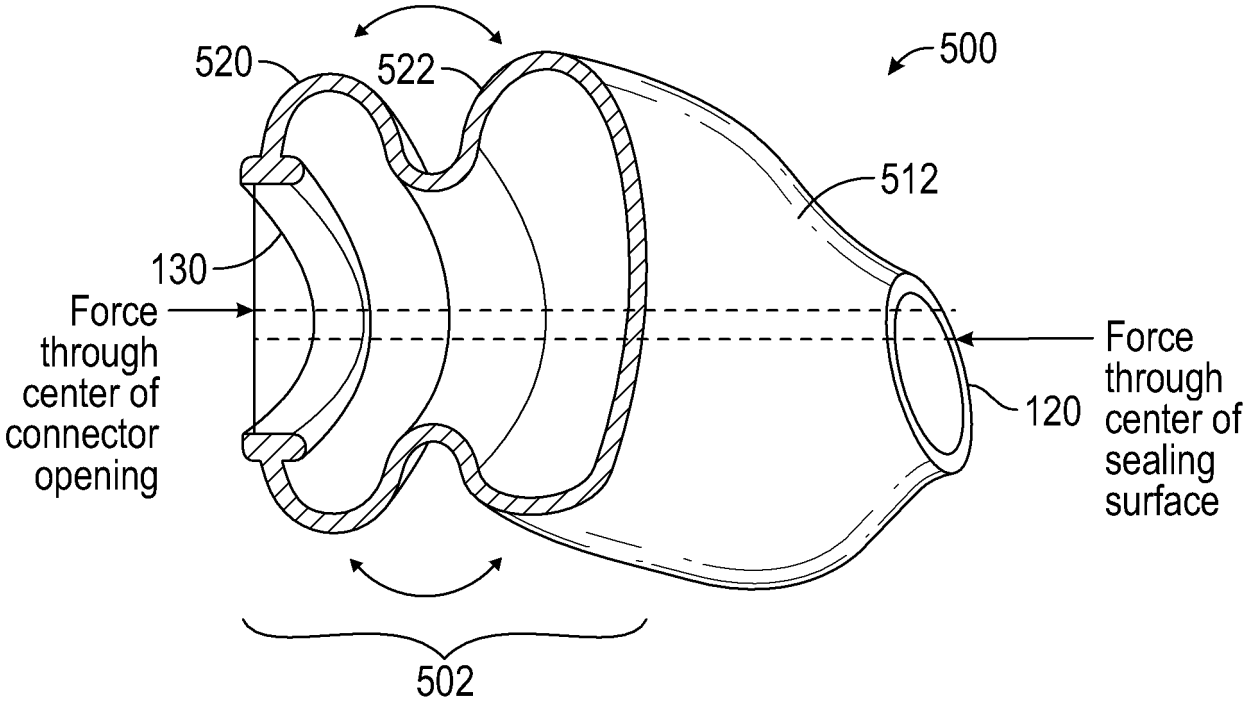

520
522
500
512
130
Force through center of connector opening
Force through center of sealing surface
120
502

FIG. 33

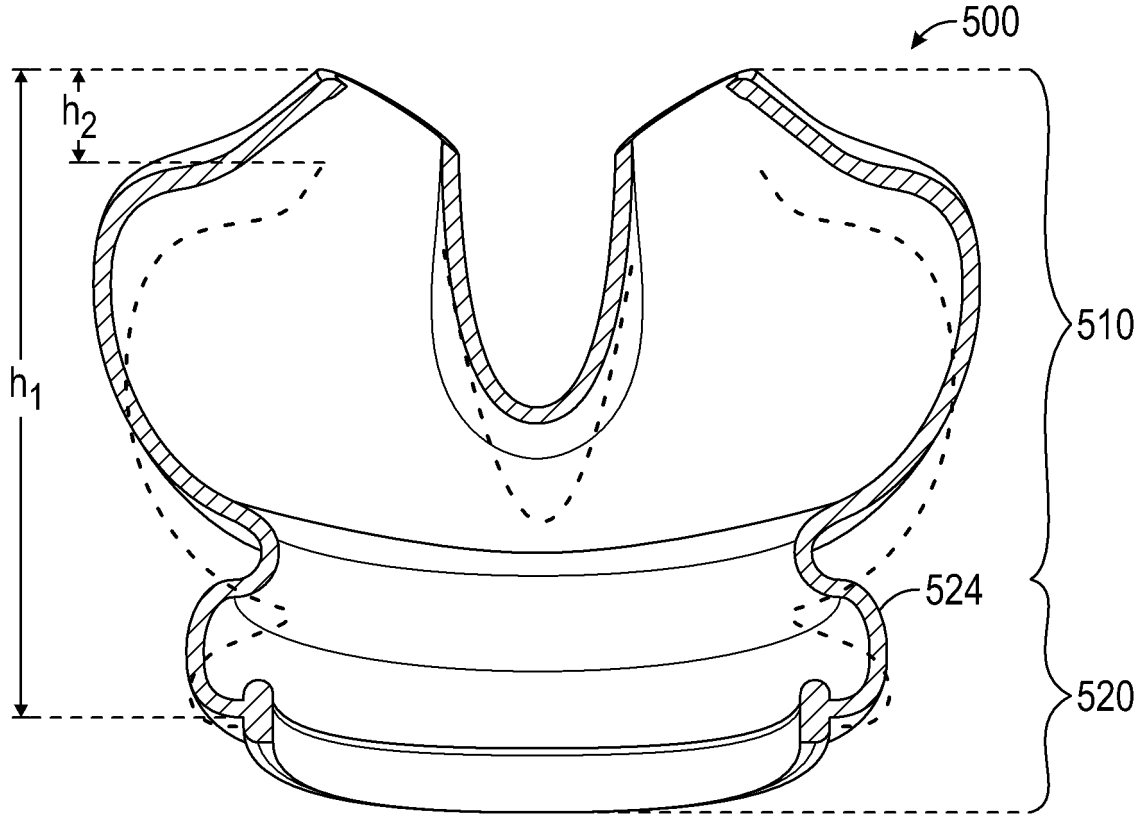

500
h2
h1
510
524
520

FIG. 34

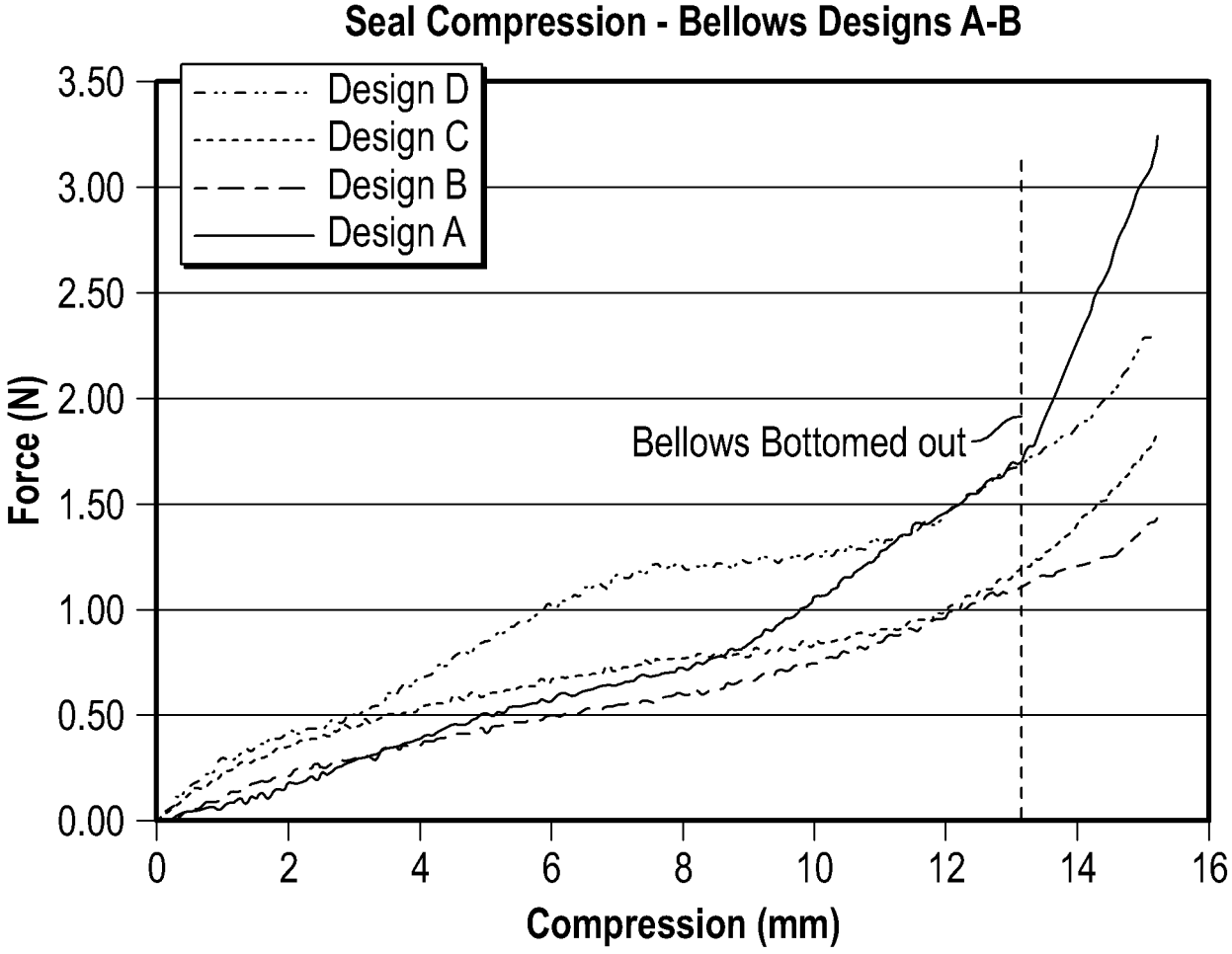

Seal Compression - Bellows Designs A-B
Design D
Design C
Design B
Design A
Bellows Bottomed out
Force (N)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
2
4
6
8
10
12
14
16
Compression (mm)

FIG. 35

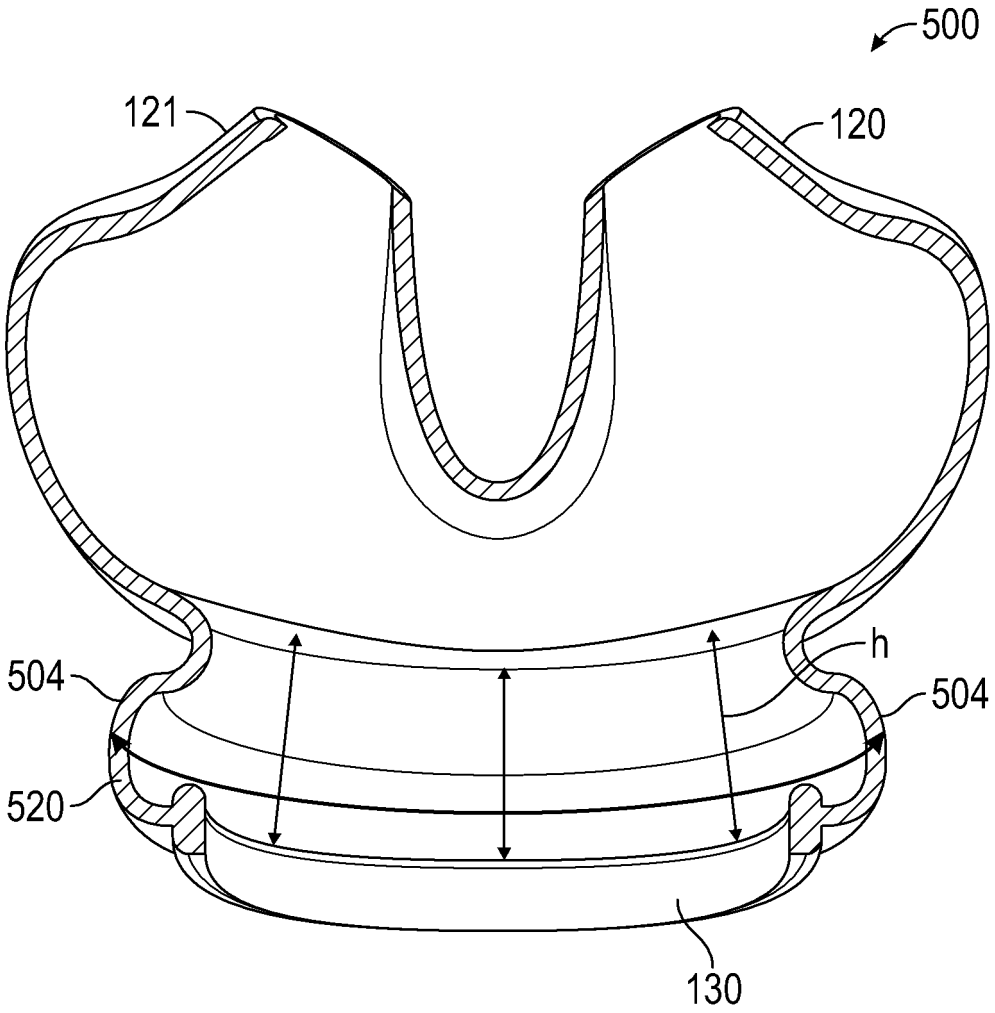

500
121
120
504
h
504
520
130

FIG. 36

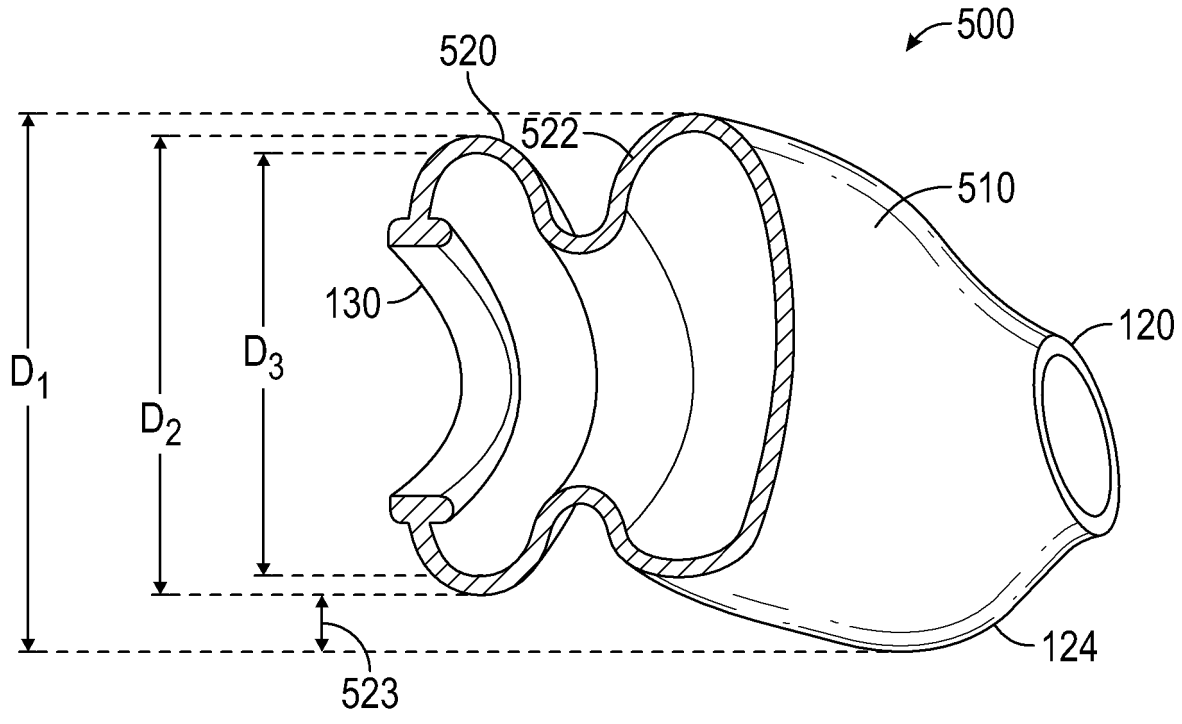

500
520
522
510
130
120
D_1
D_2
D_3
124
523

FIG. 37

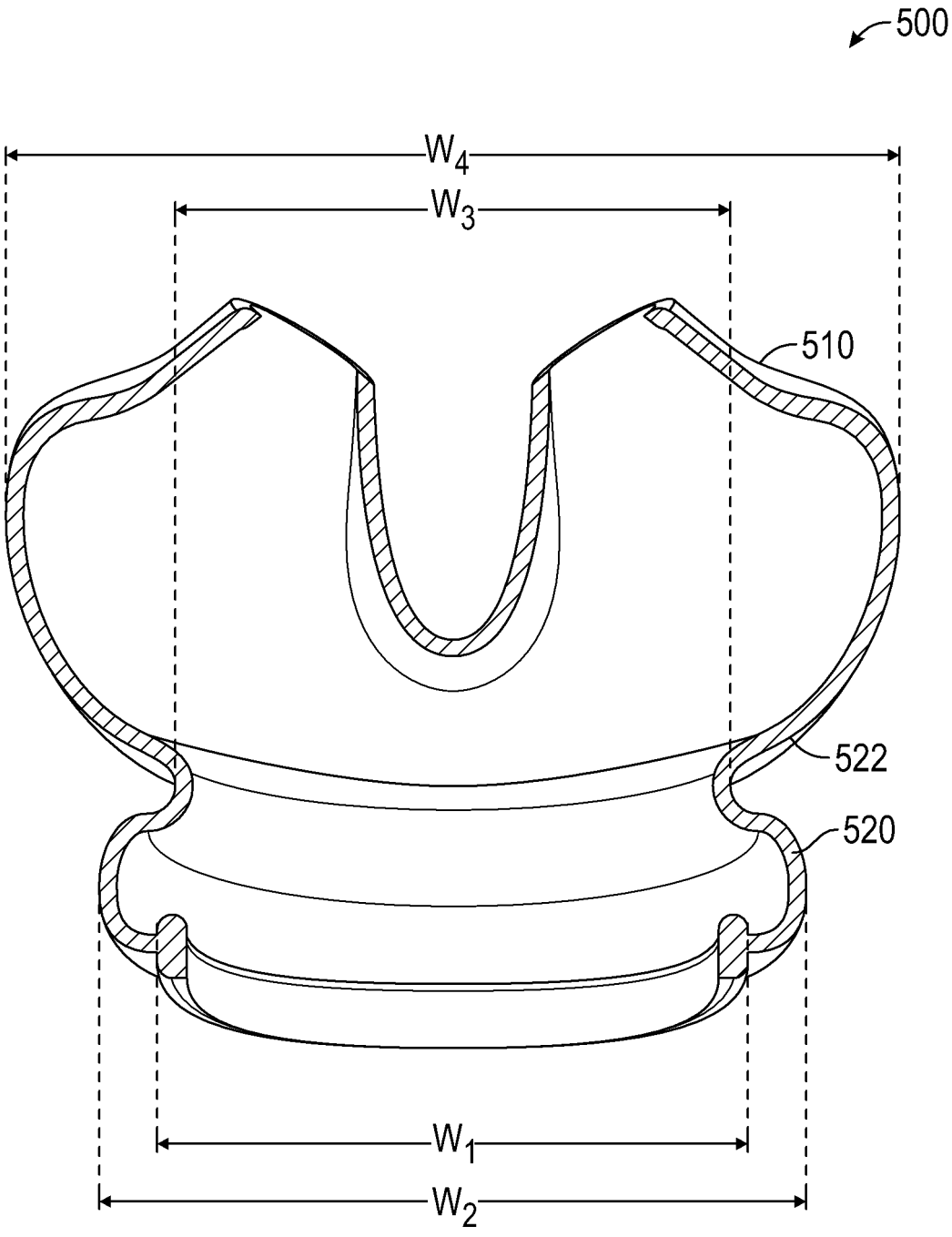


FIG. 38

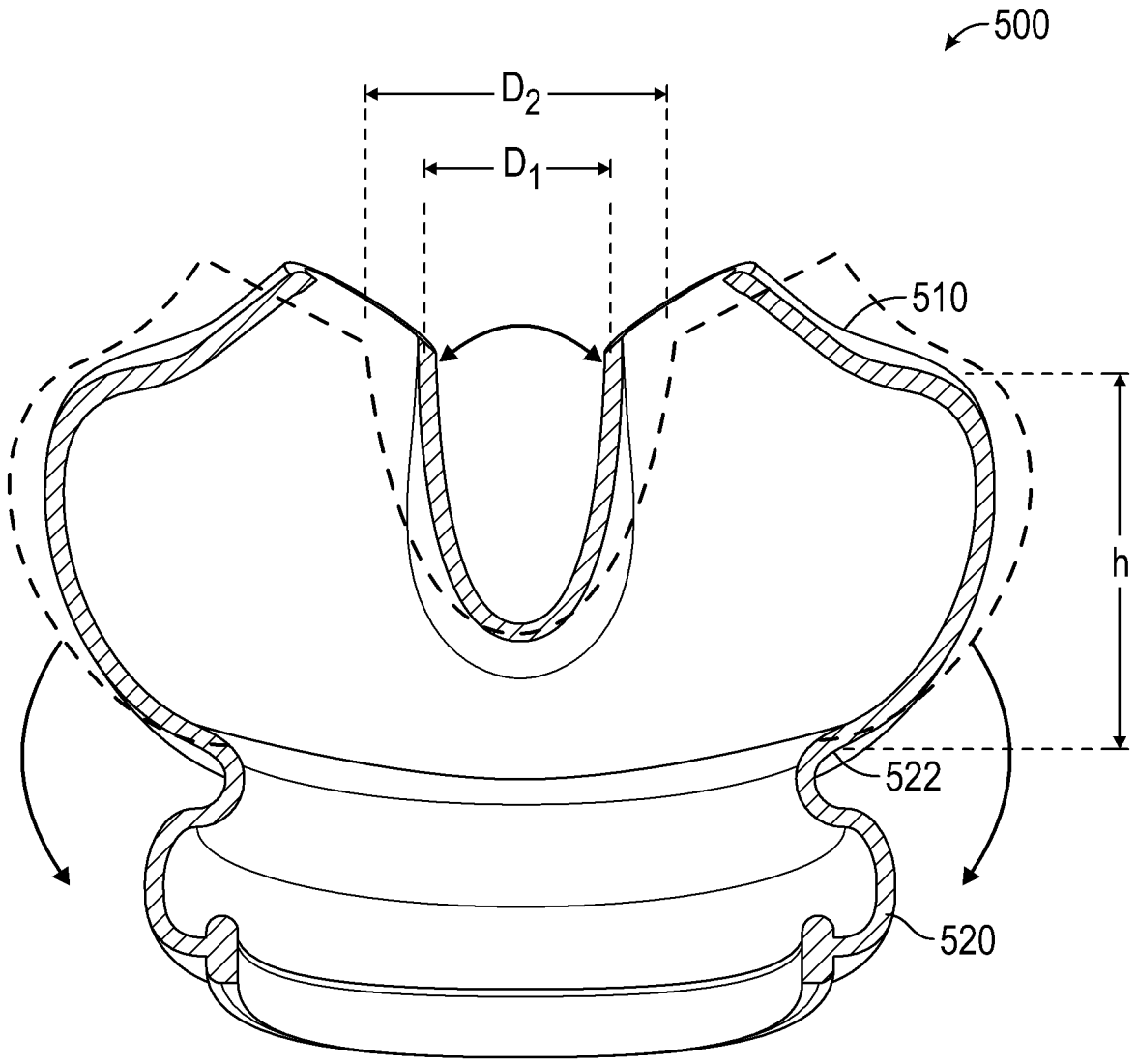


FIG. 39

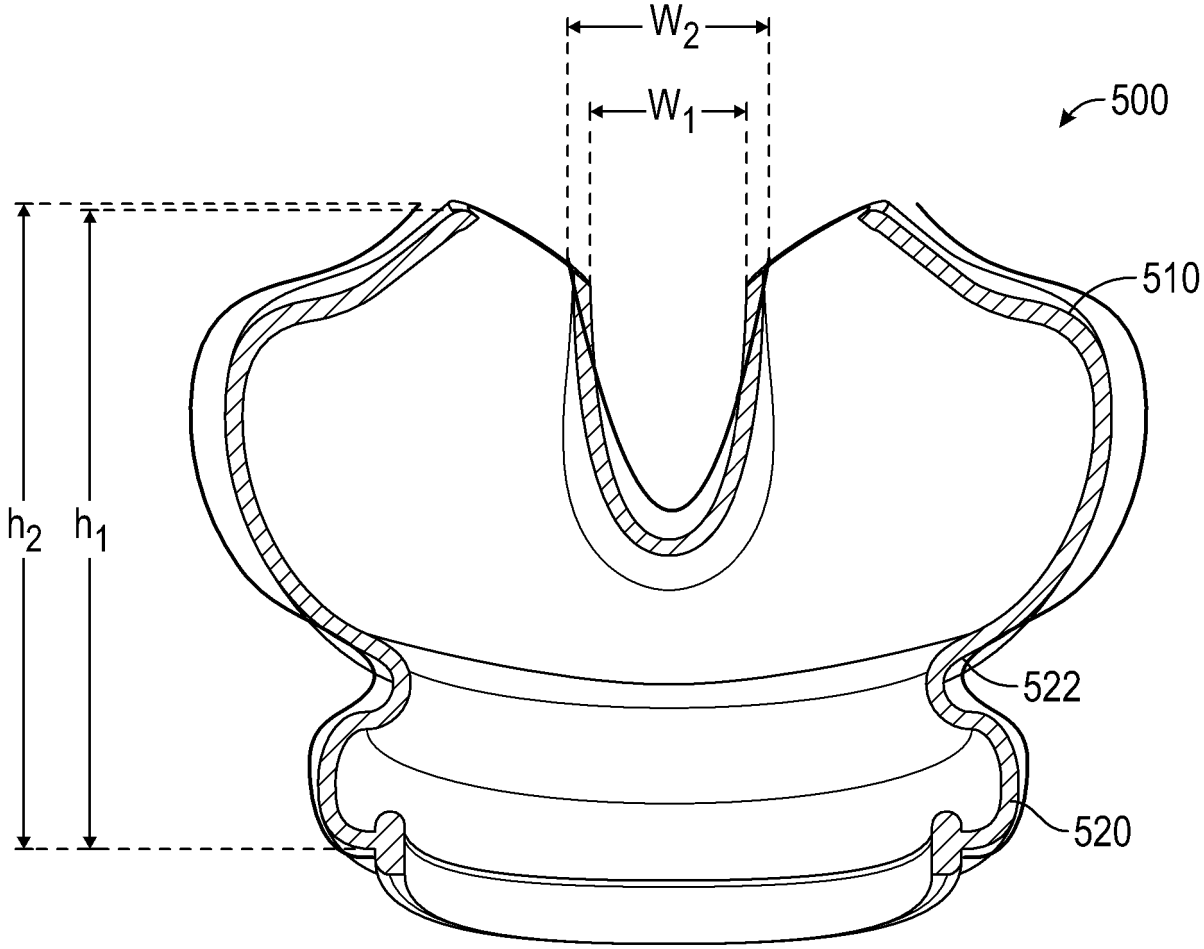


FIG. 40

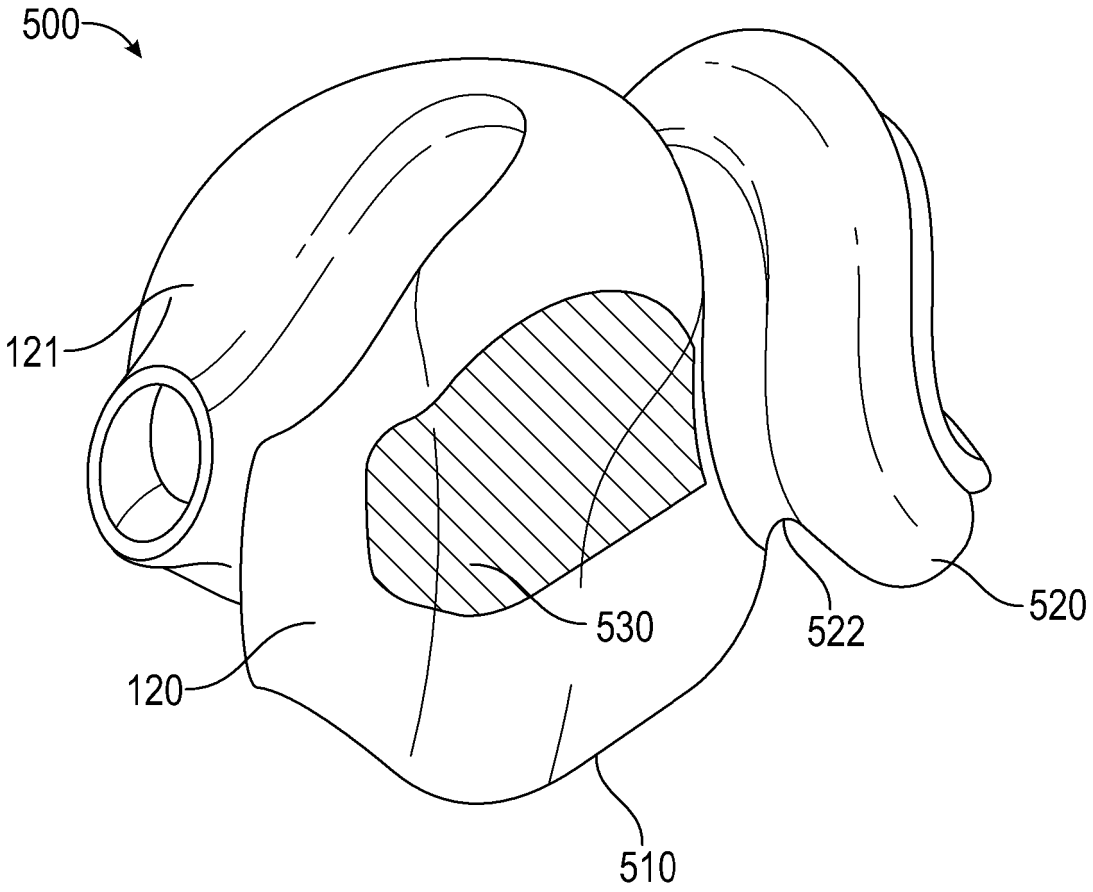


FIG. 41

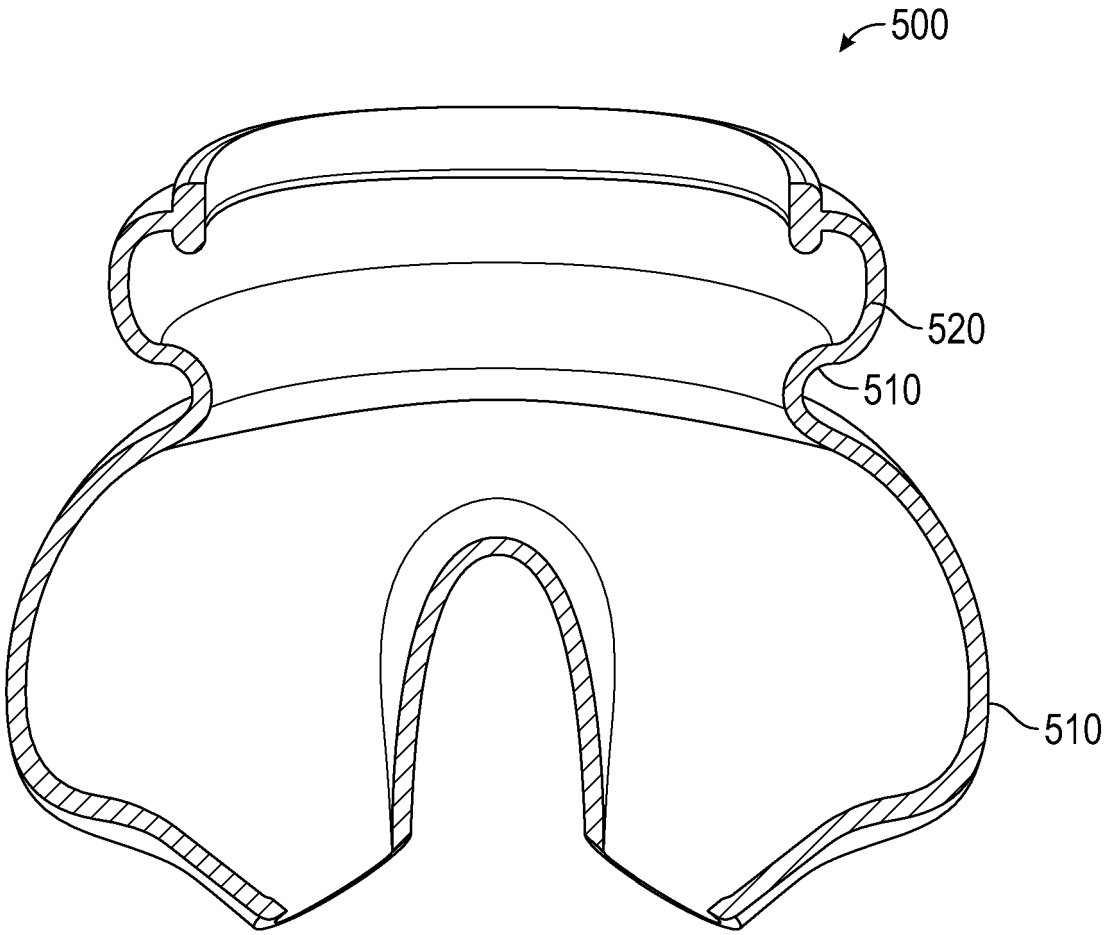


FIG. 42A

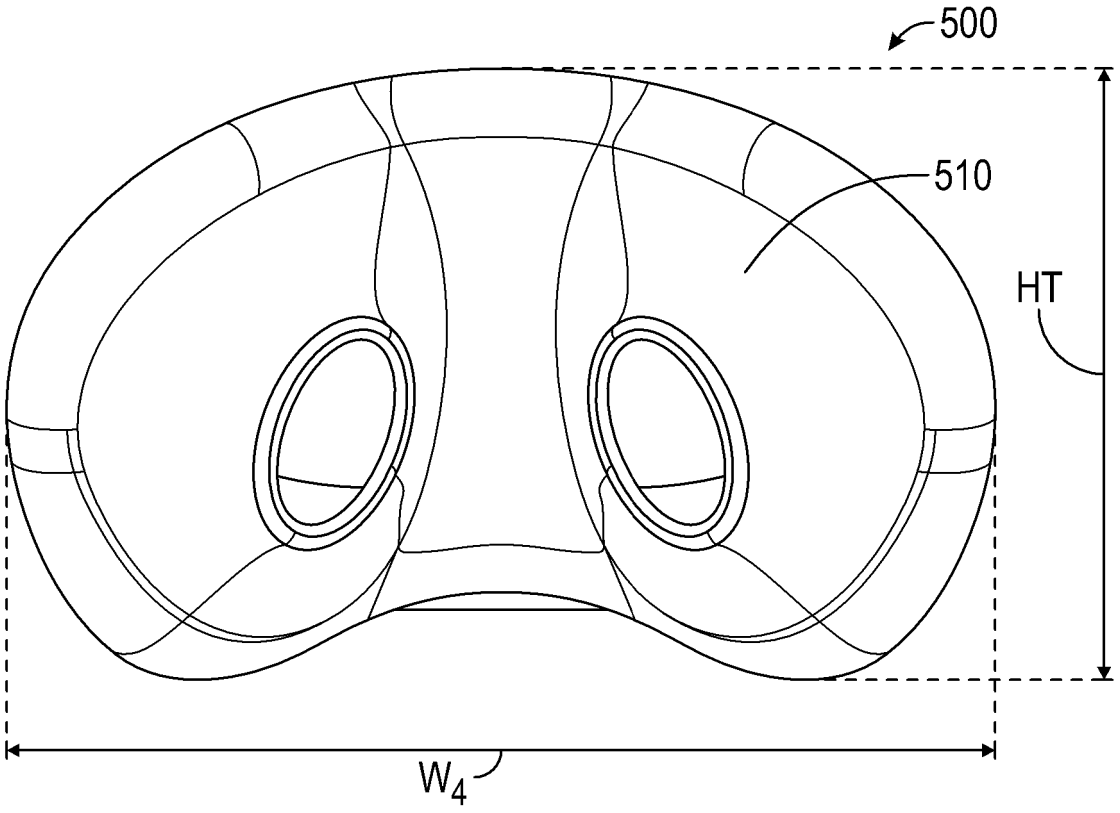


FIG. 42B

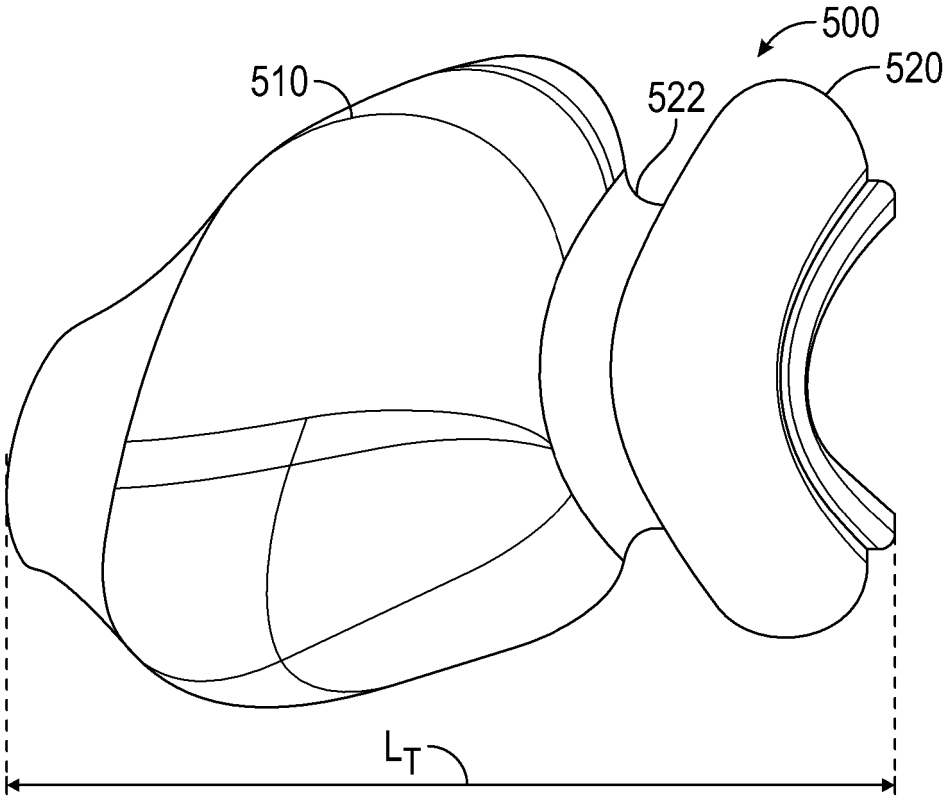


FIG. 42C

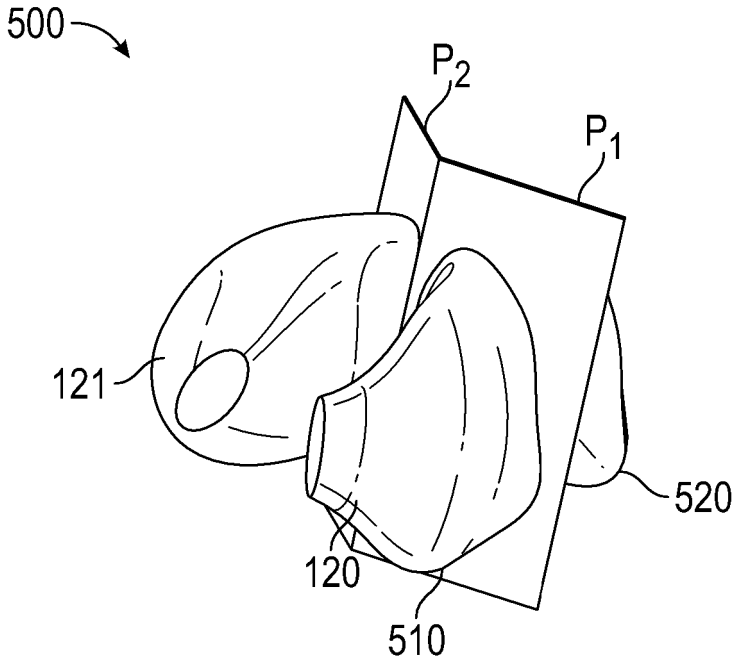


FIG. 42D

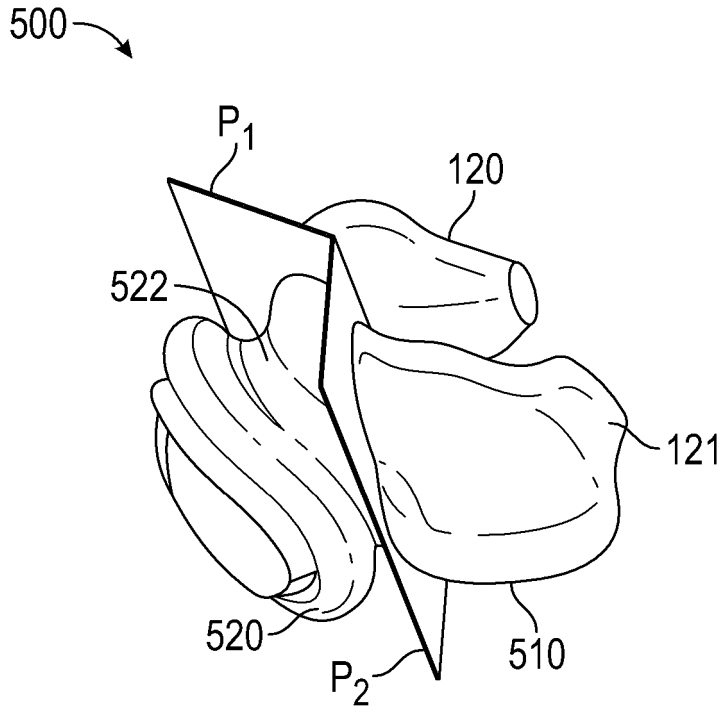


FIG. 42E

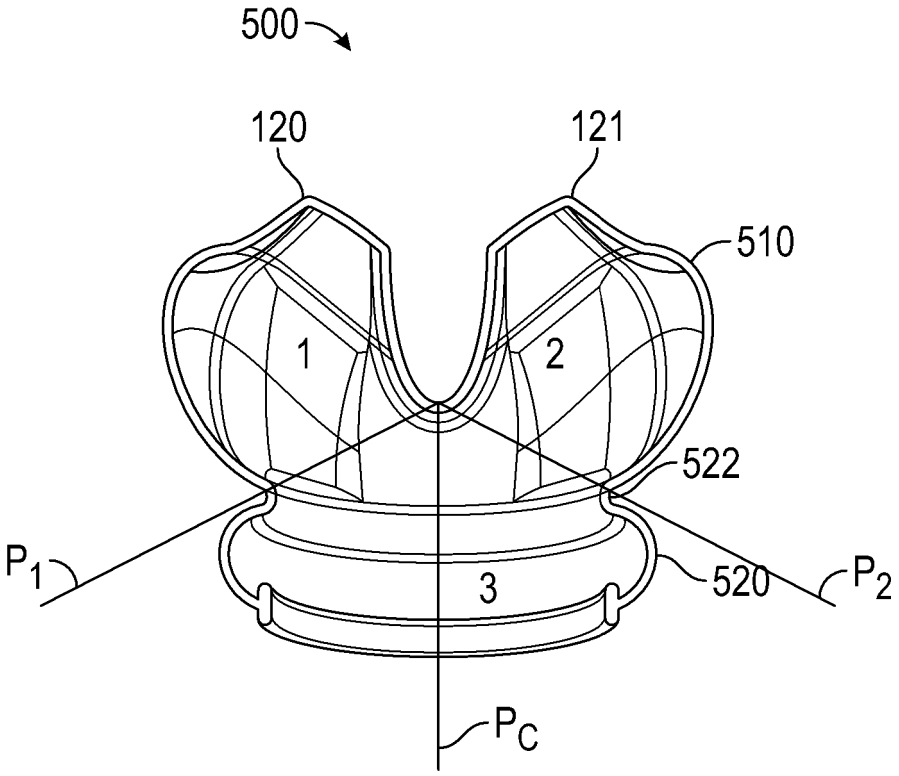


FIG. 42F

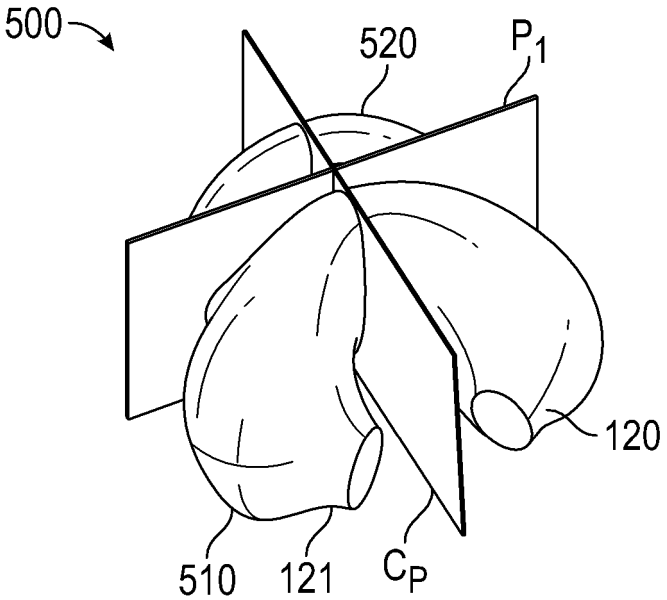


FIG. 42G

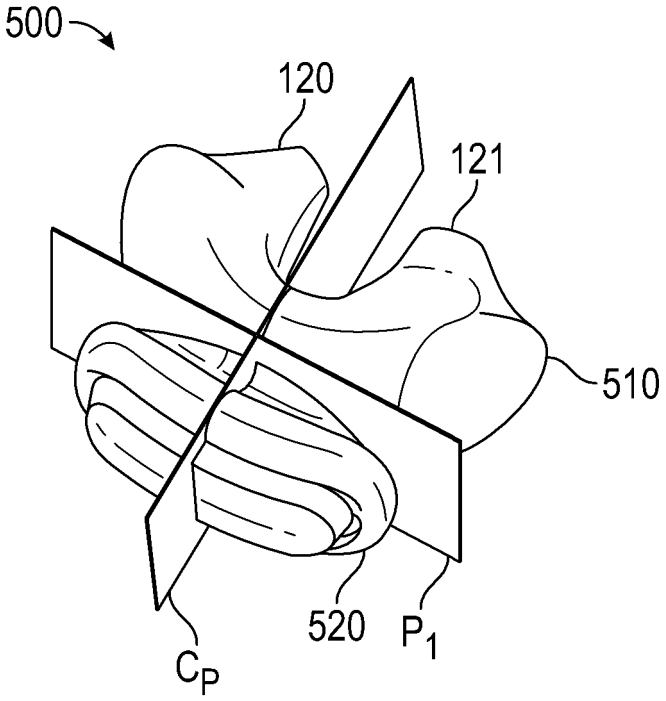


FIG. 42H

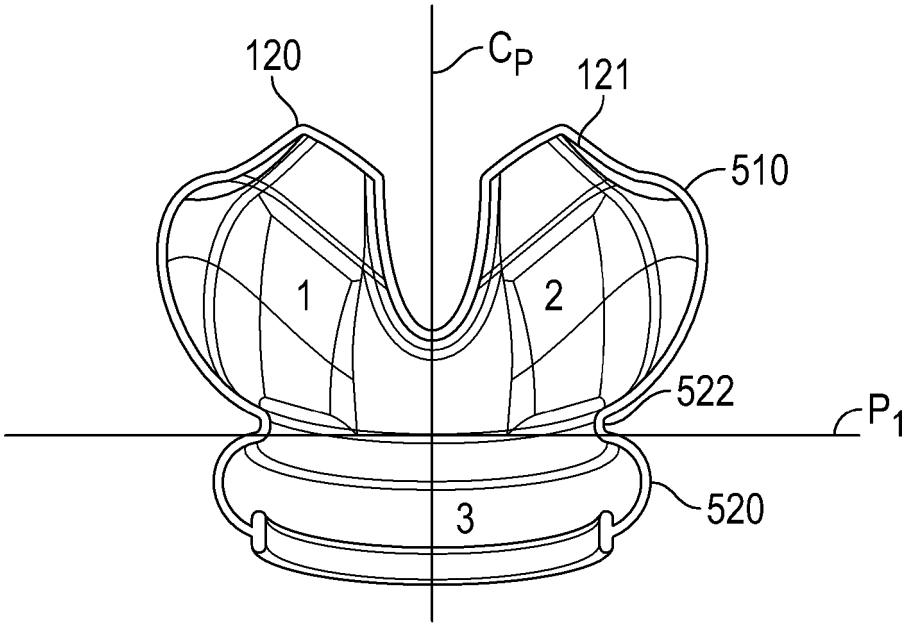


FIG. 42I

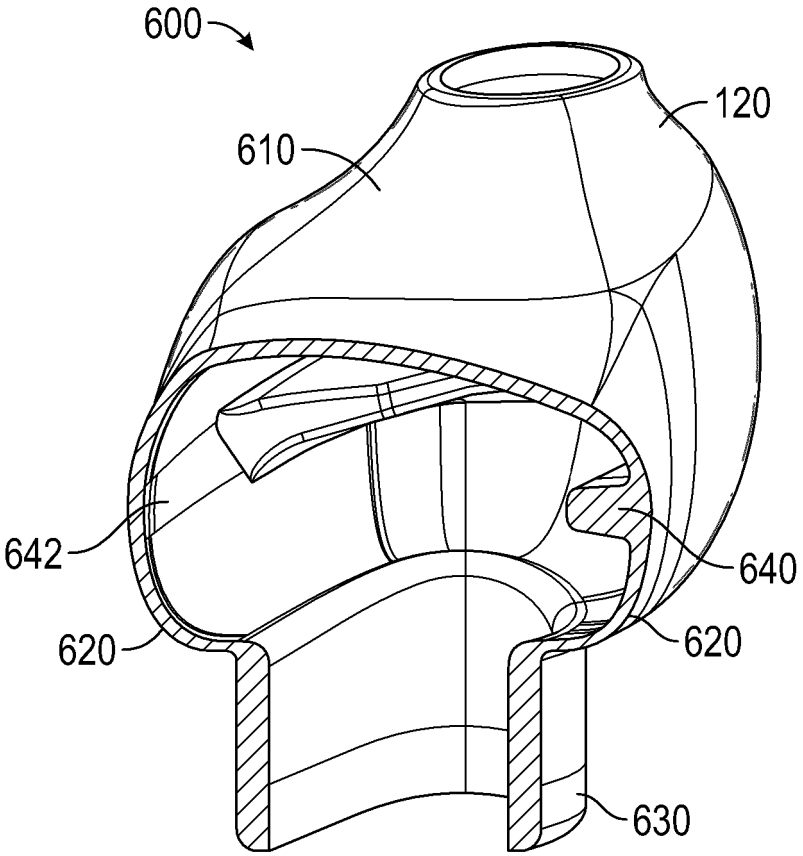


FIG. 43

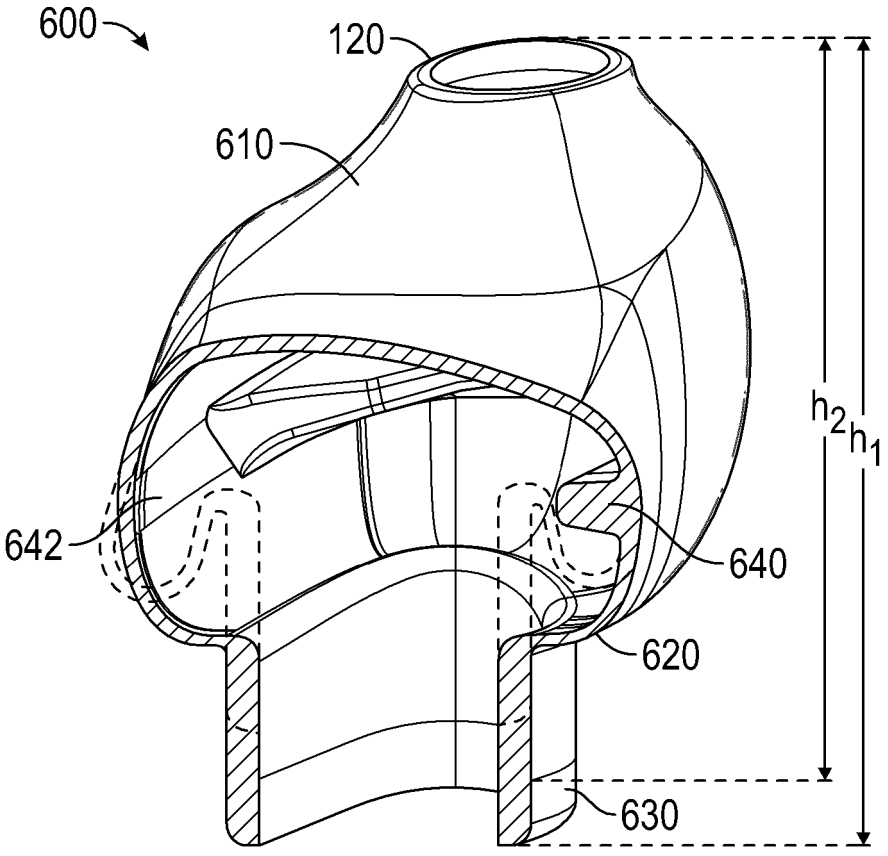


FIG. 44

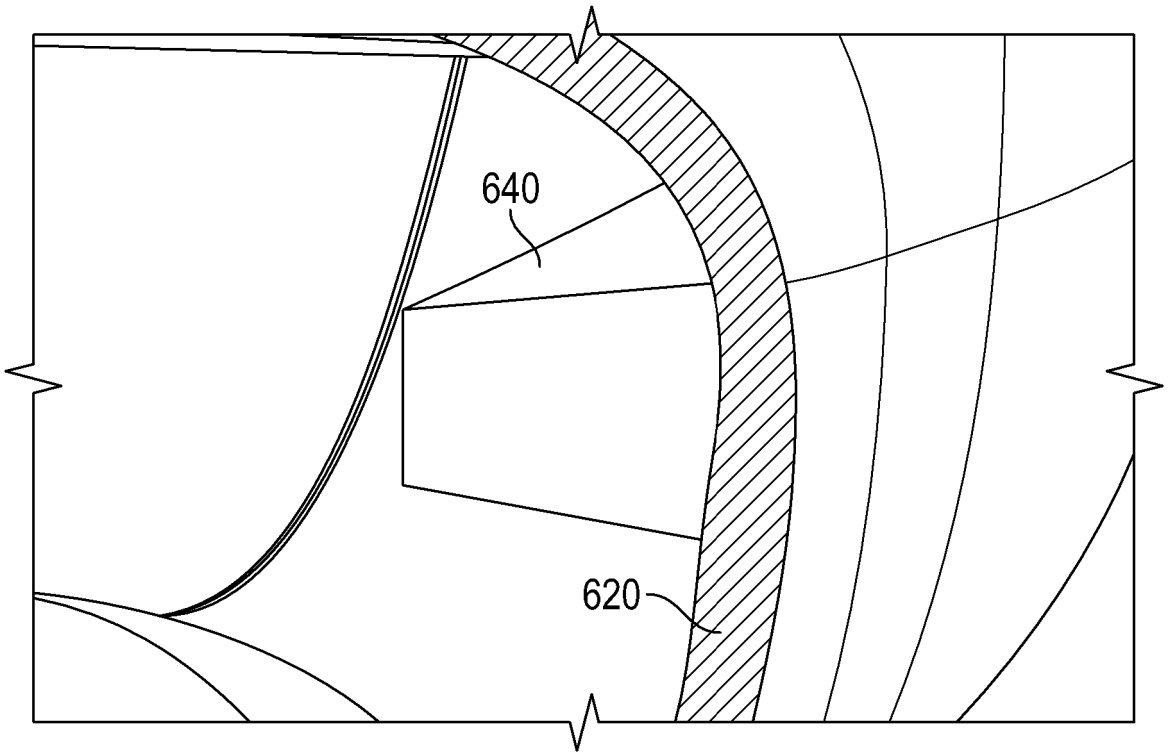


FIG. 45

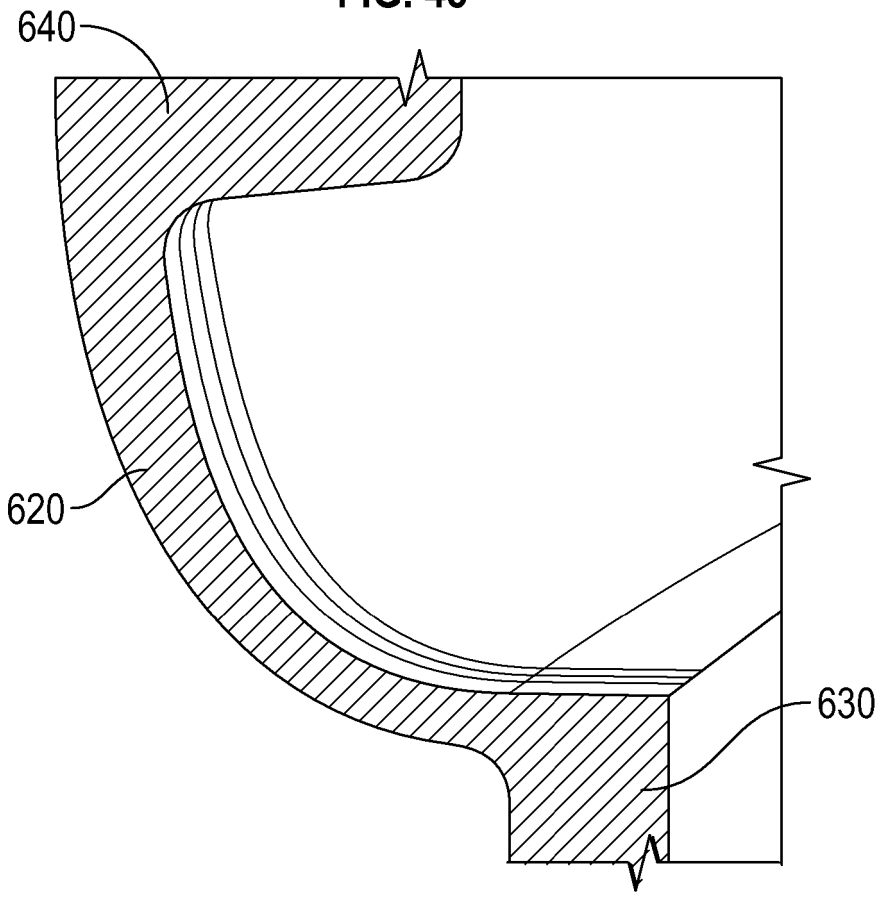


FIG. 46

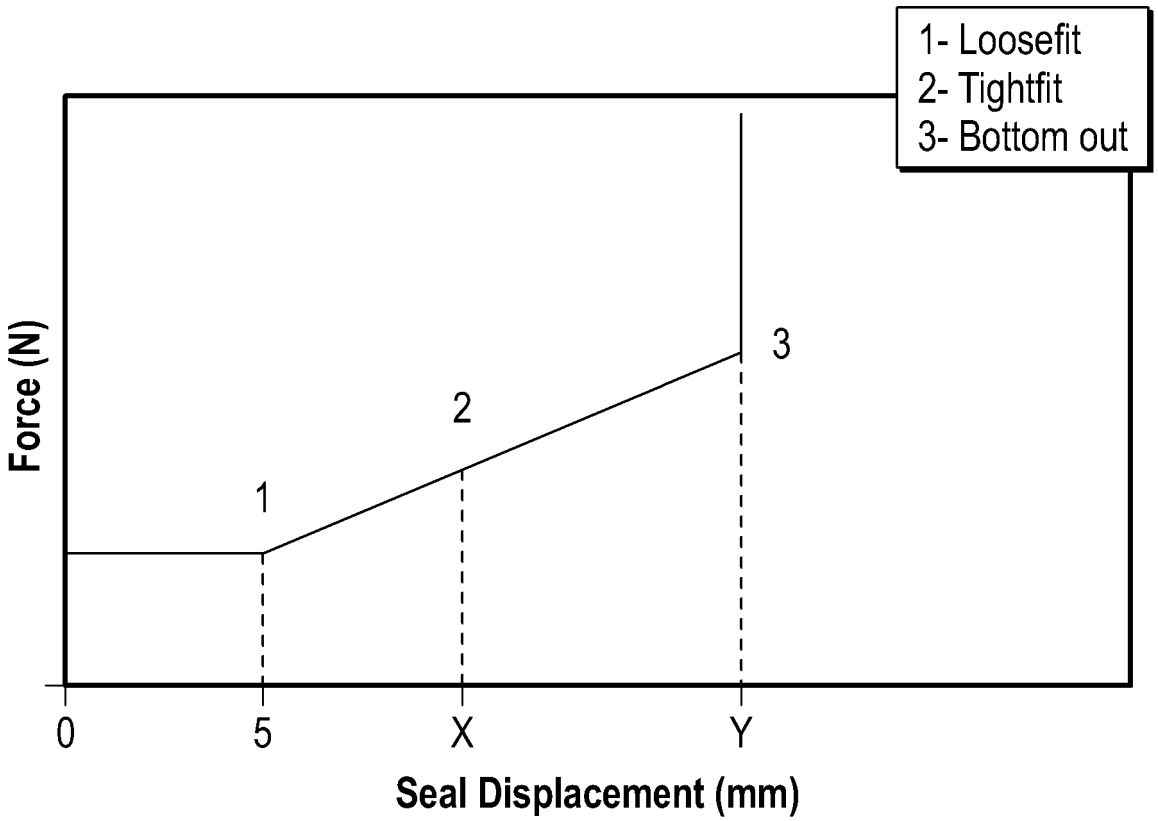

1- Loosefit
2- Tightfit
3- Bottom out
Force (N)
1
2
3
0
5
X
Y
Seal Displacement (mm)

FIG. 47

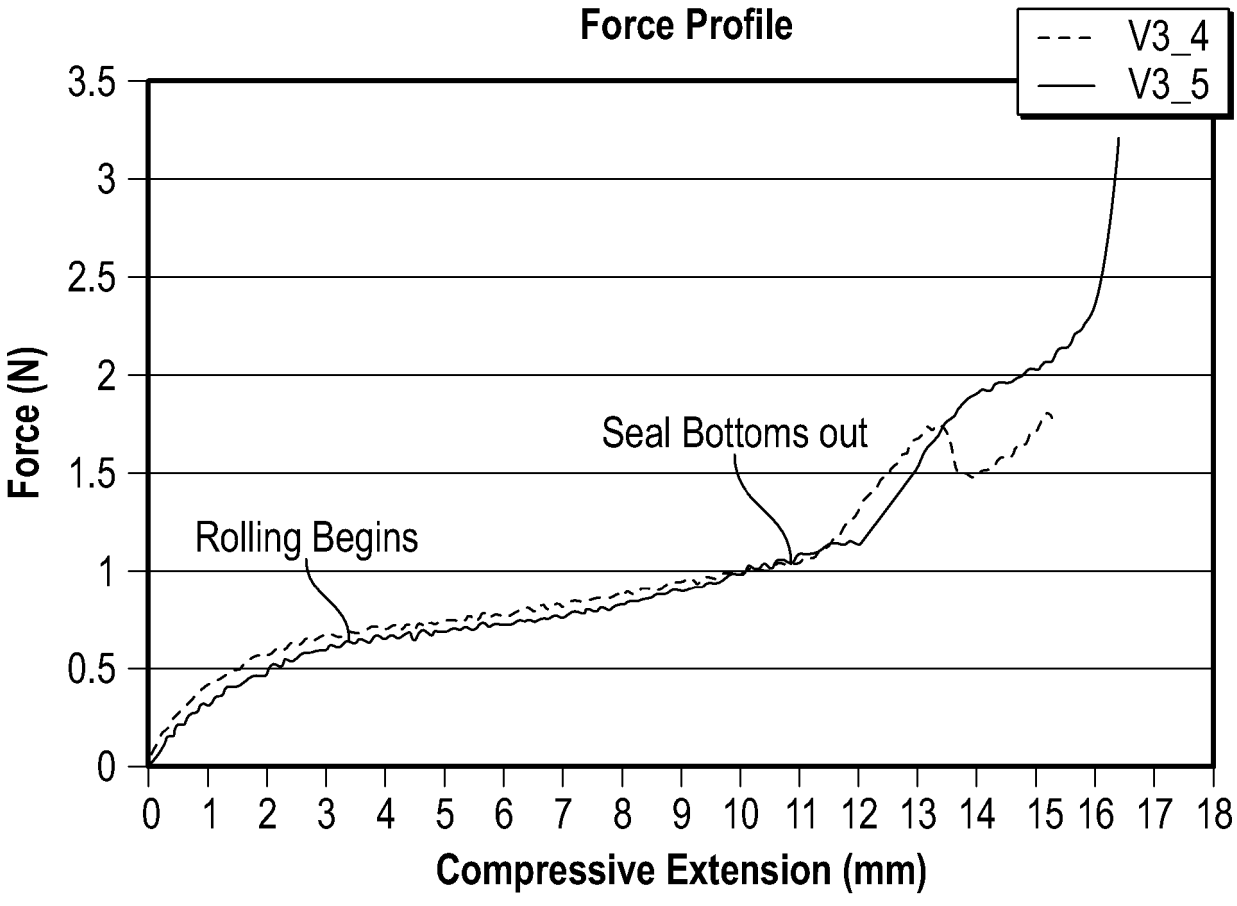

Force Profile
V3_4
V3_5
Force (N)
3.5
3
2.5
2
1.5
1
0.5
0
Seal Bottoms out
Rolling Begins
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
Compressive Extension (mm)

FIG. 48

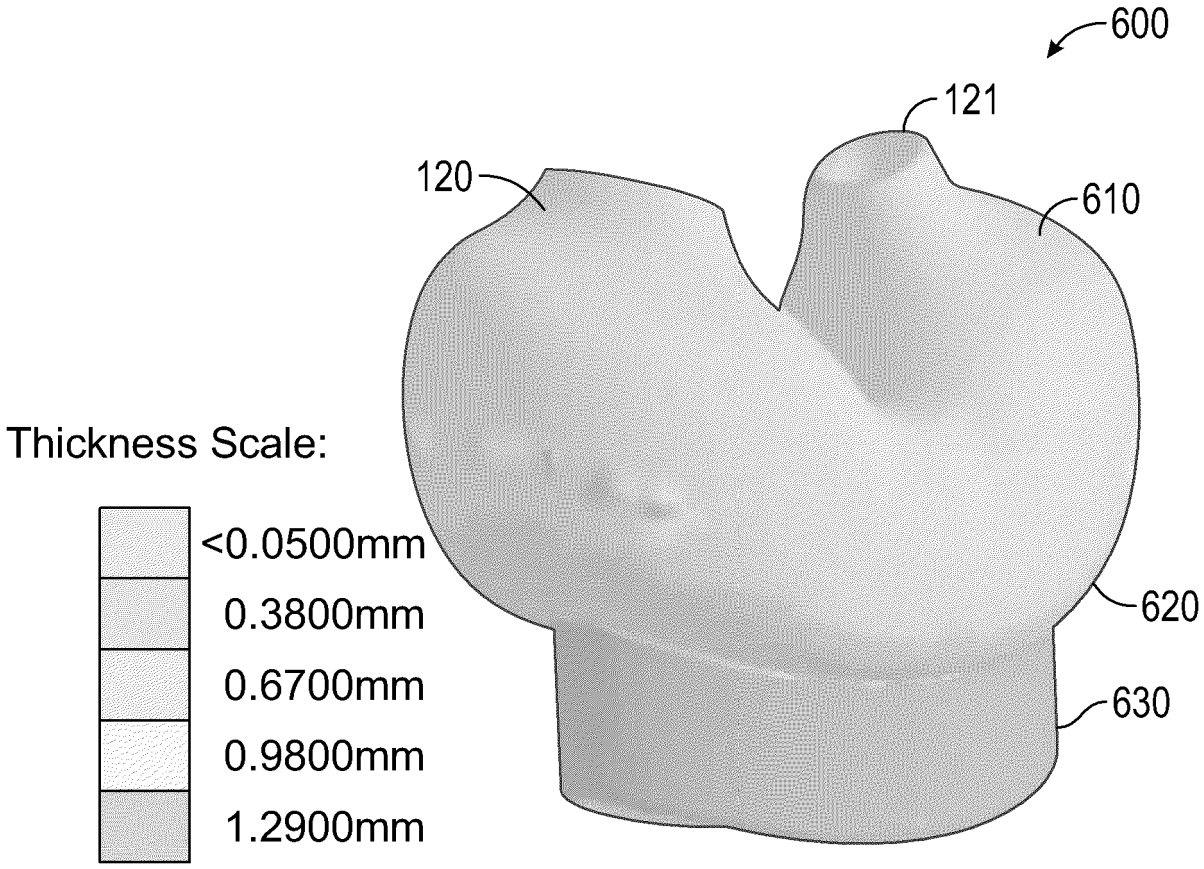


FIG. 49

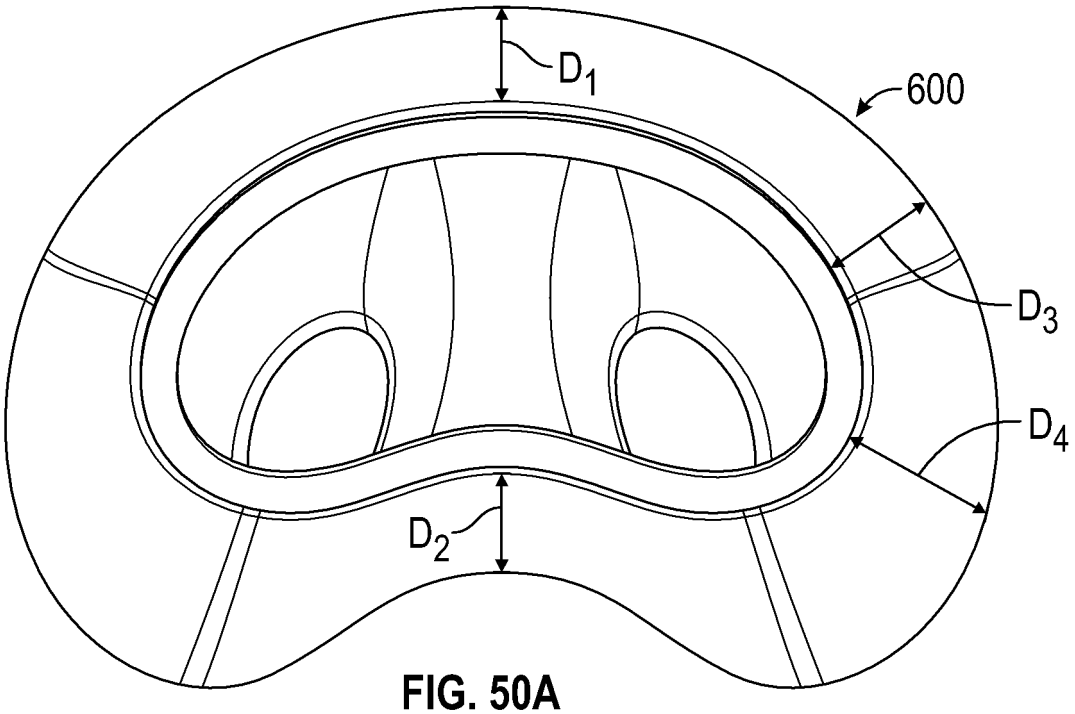


FIG. 50A

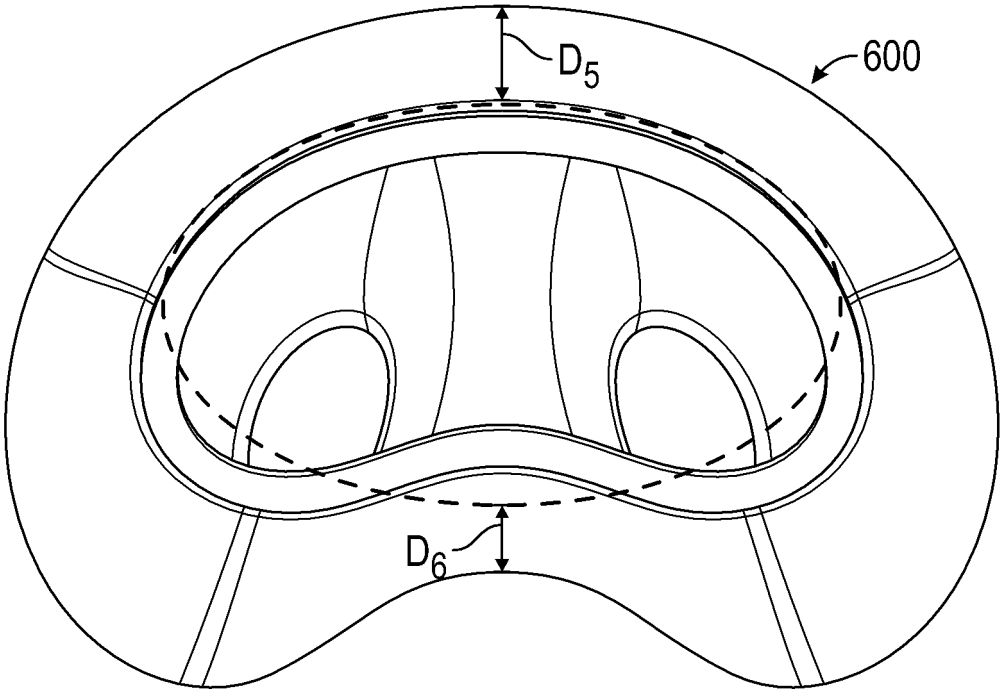


FIG. 50B

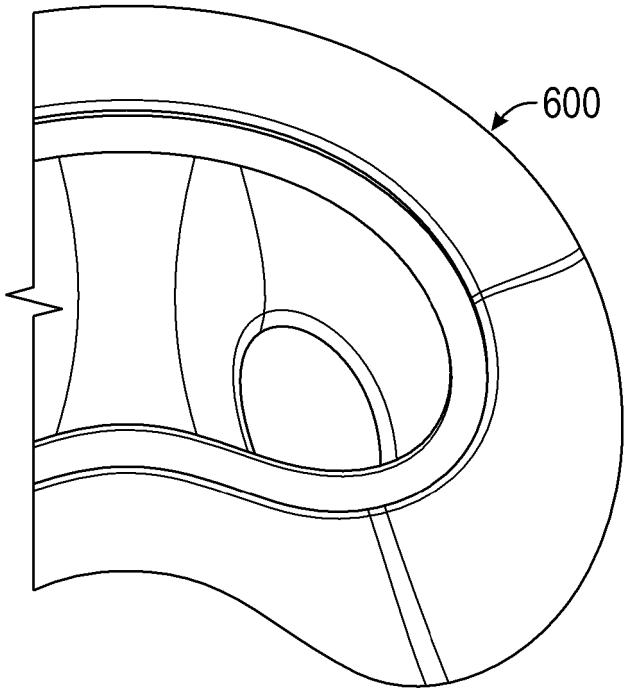


FIG. 50C

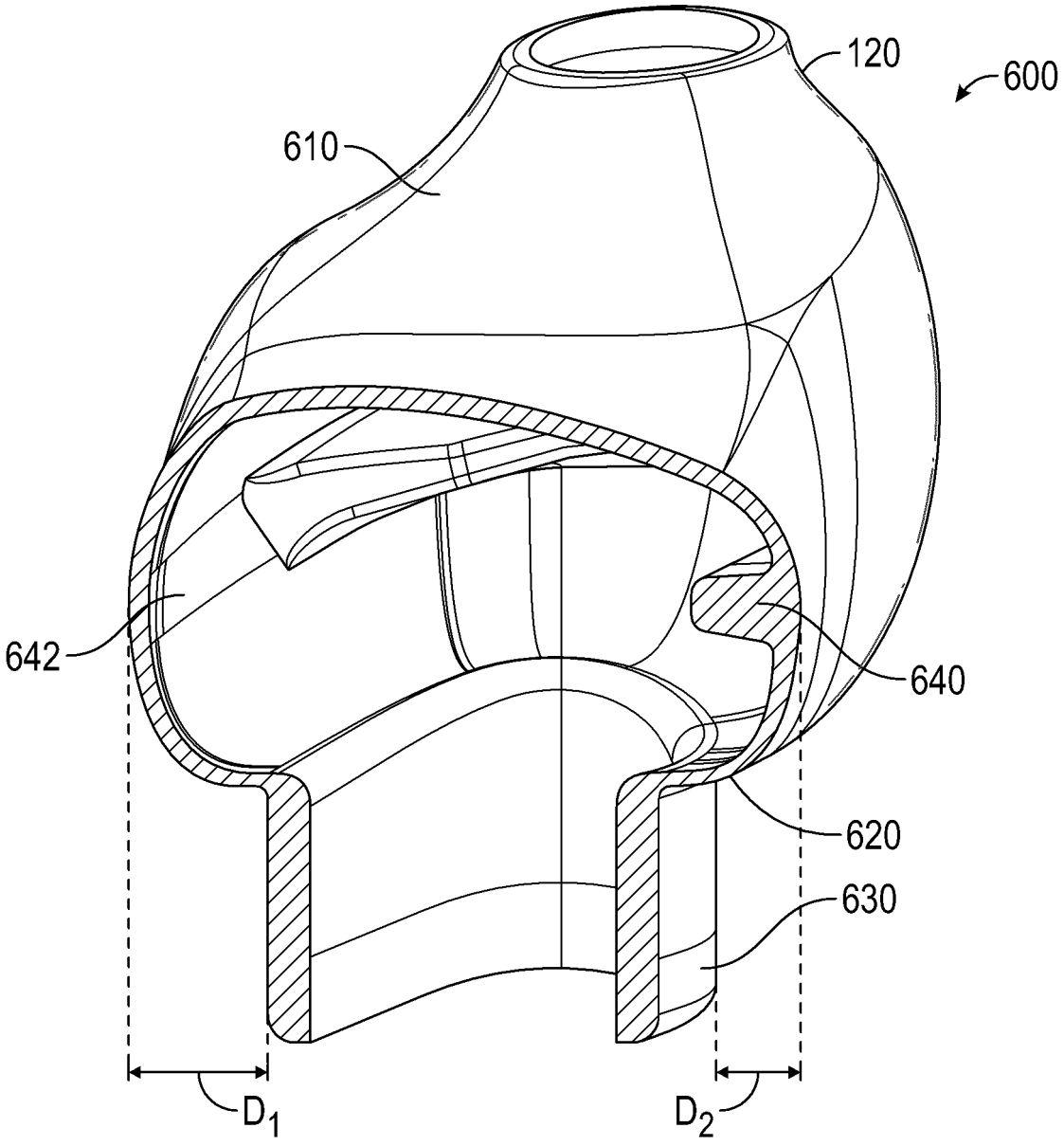


FIG. 51

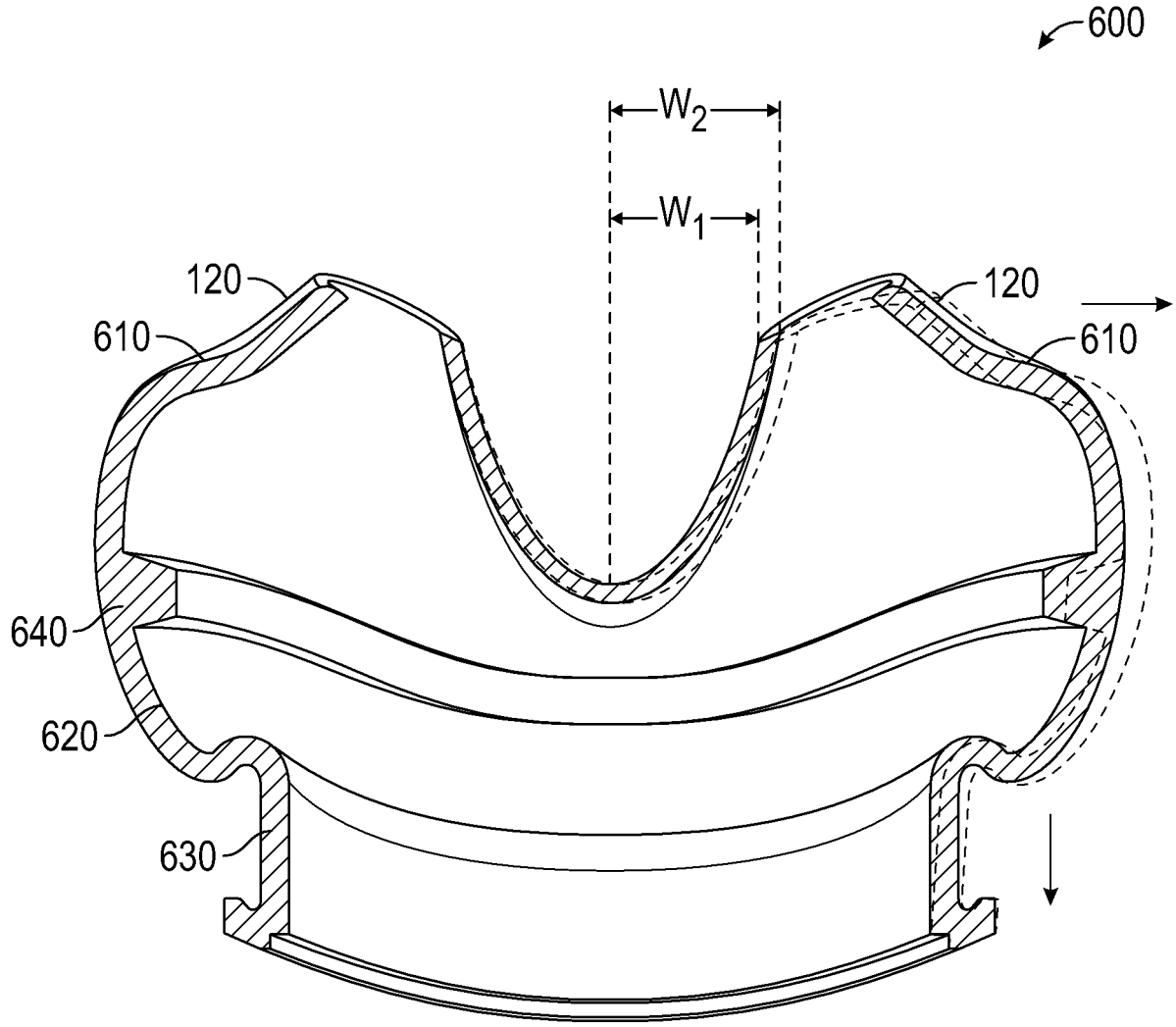


FIG. 52

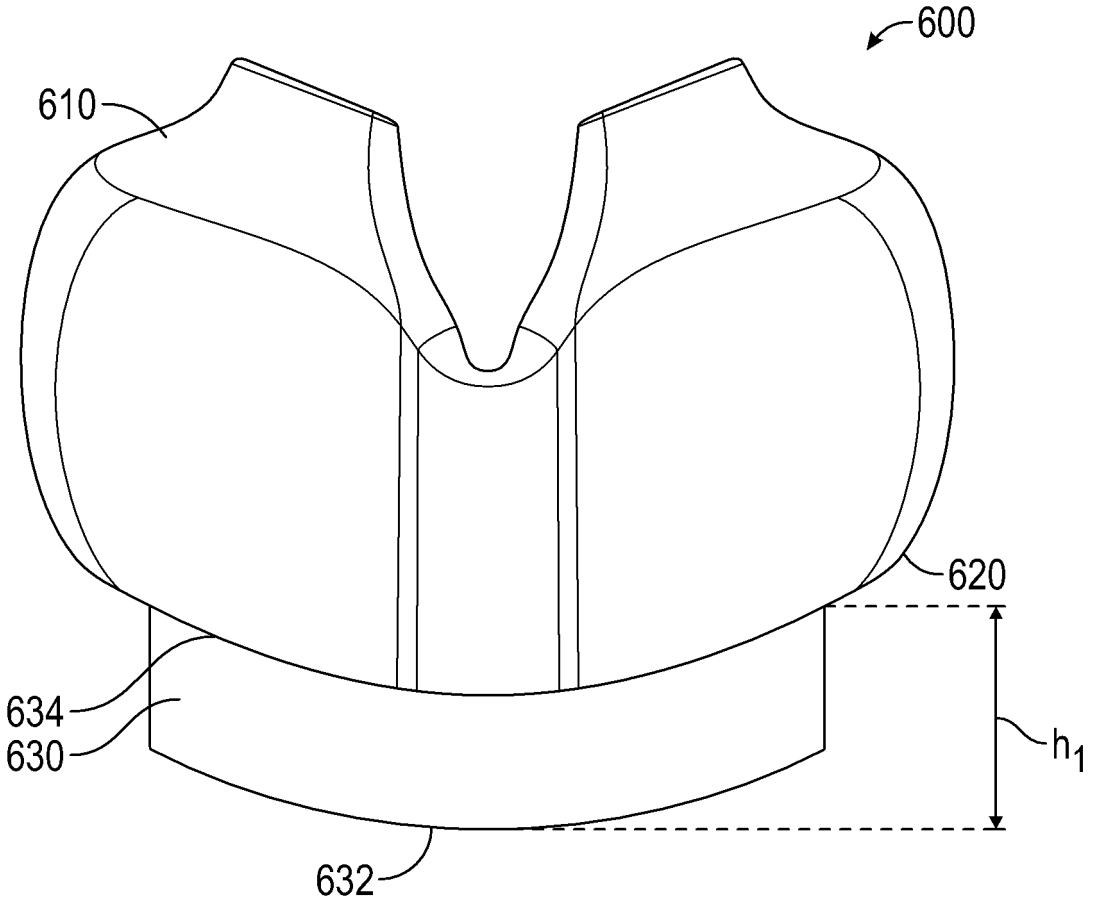


FIG. 53A

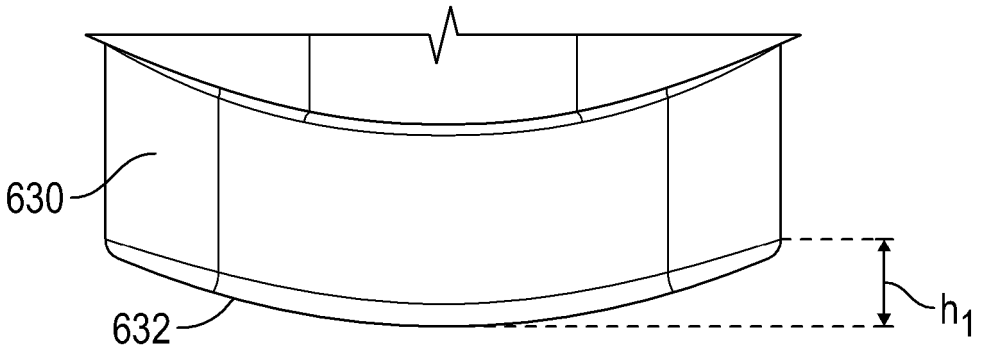


FIG. 53B

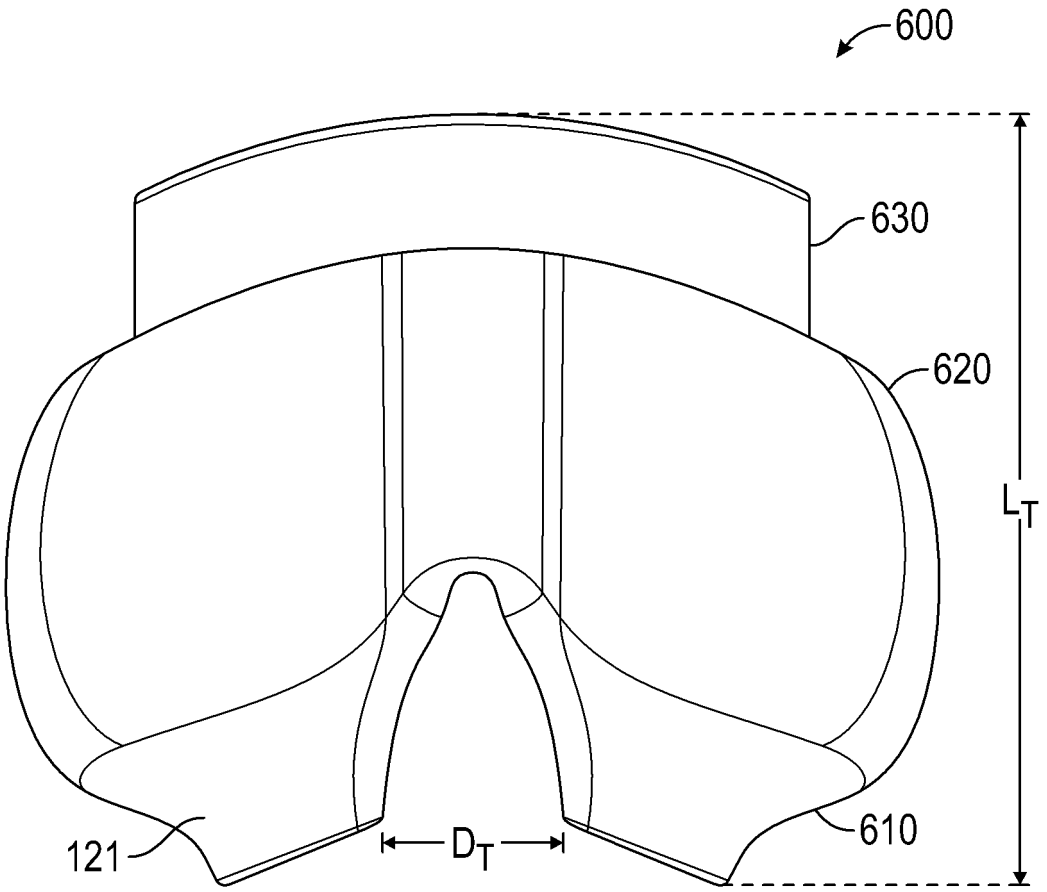


FIG. 54A

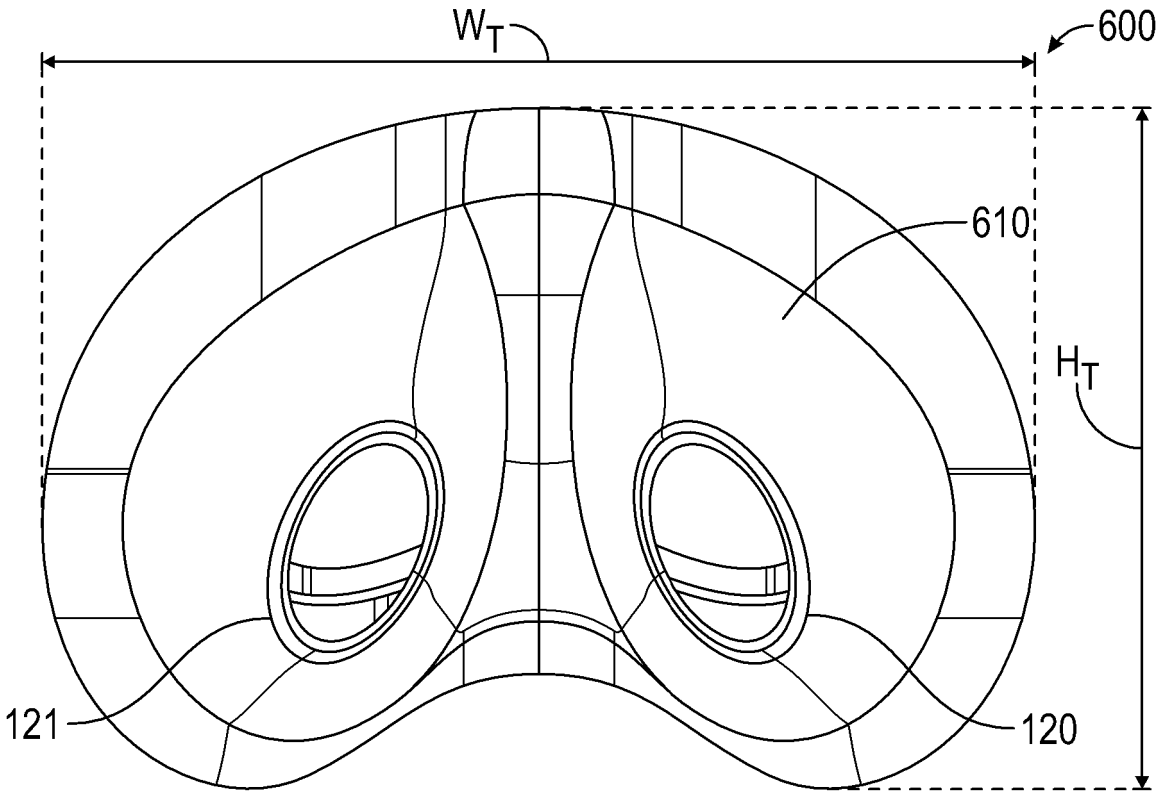


FIG. 54B

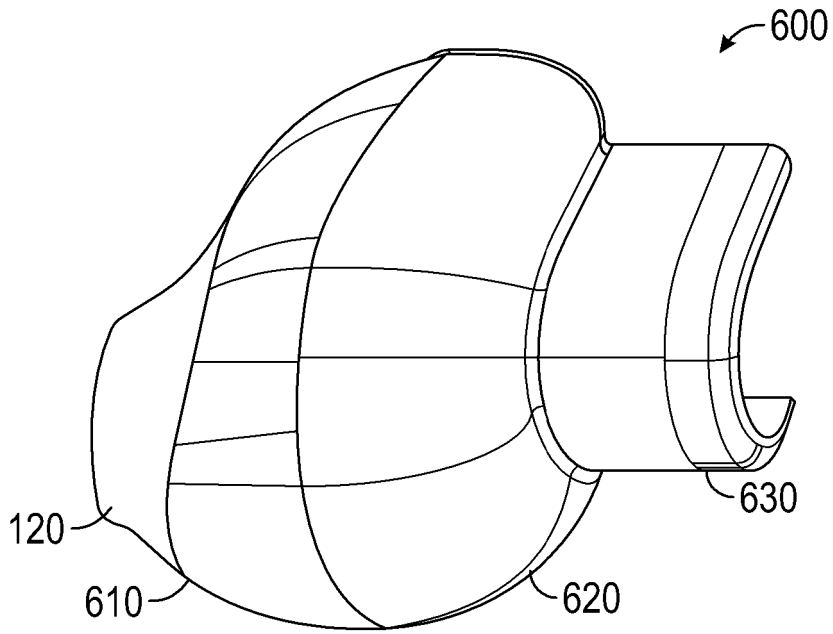


FIG. 54C