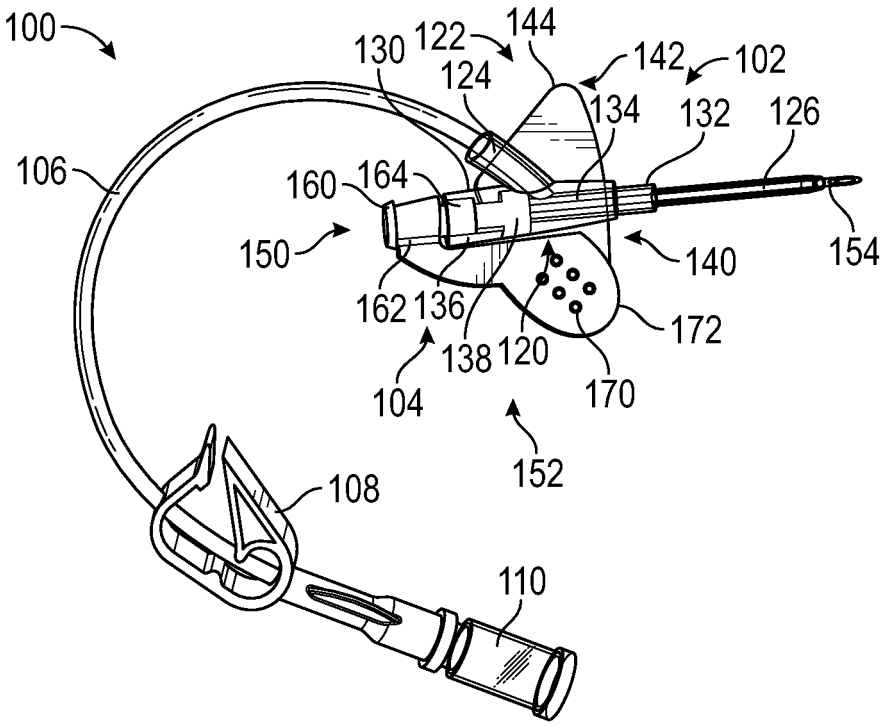
100
130
122
144
142
102
124
134
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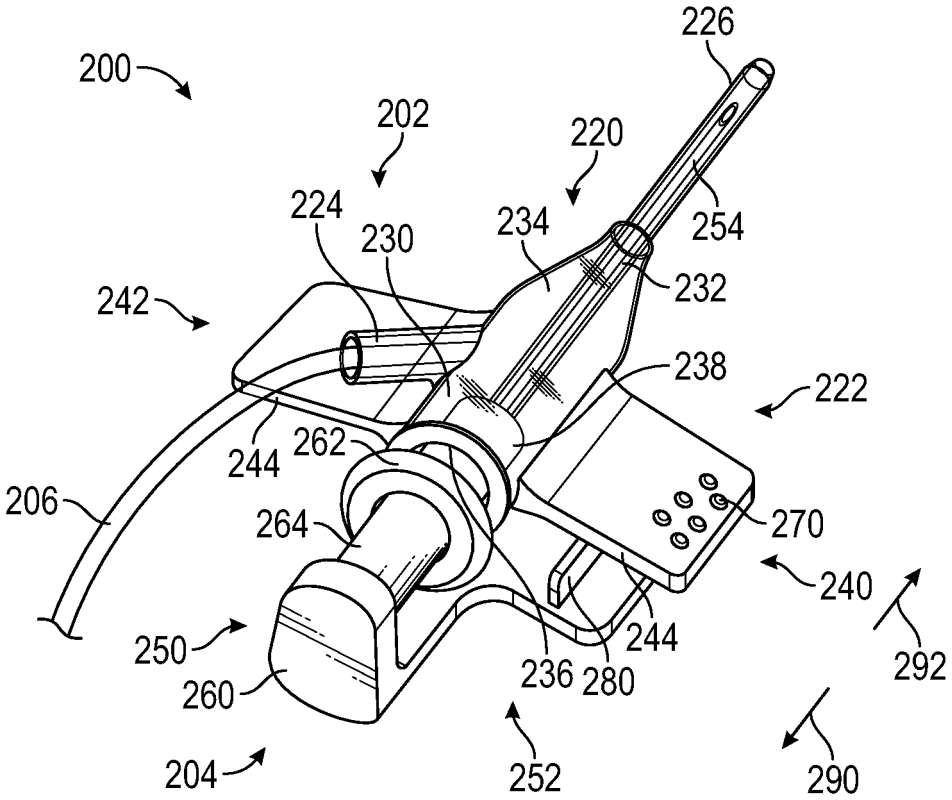
106
160
164
150
140
154
162
136
138
120
172
104
170
152
108
110

FIG. 1


226
200
202
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224
230
234
254
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262
206
264
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240
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244
292
236
280
260
252
290
204

FIG. 2

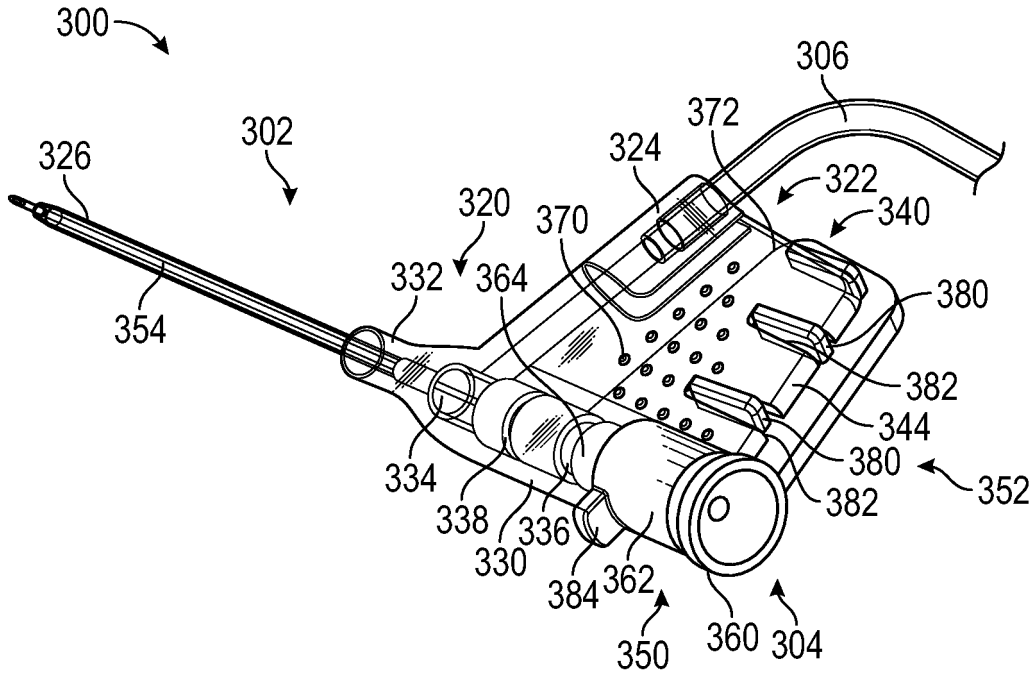
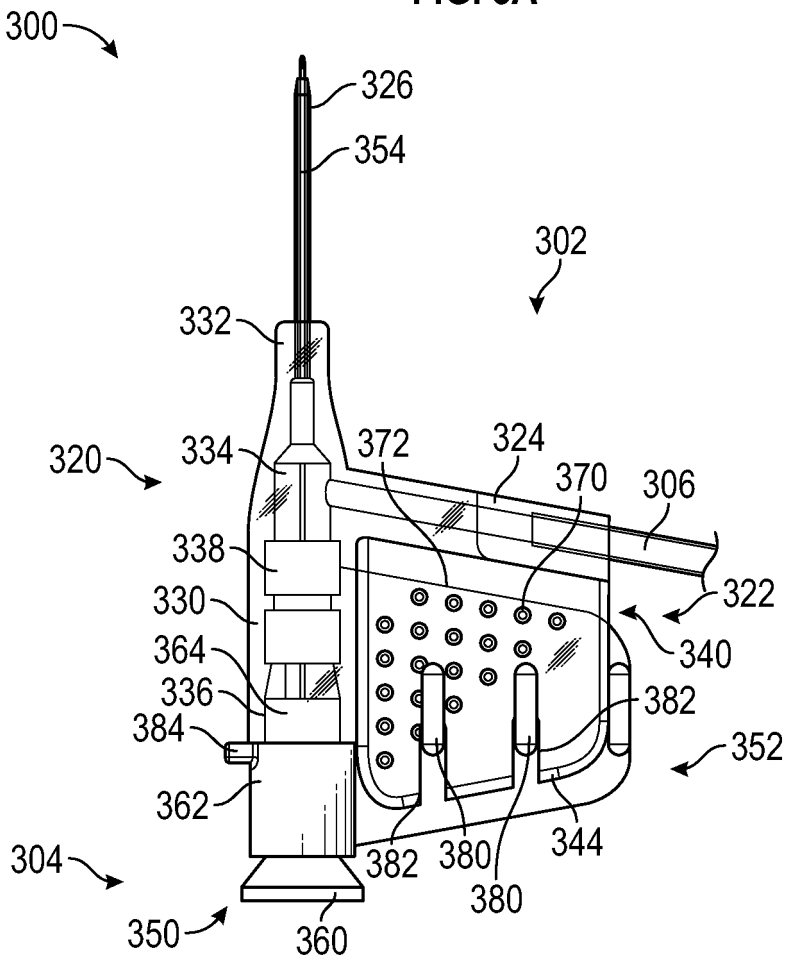

300
306
372
302
326
324
322
320
370
340
332
364
380
354
382
344
380
352
334
382
338
336
330
362
384
350
360
304

FIG. 3A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320
334
372
324
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364
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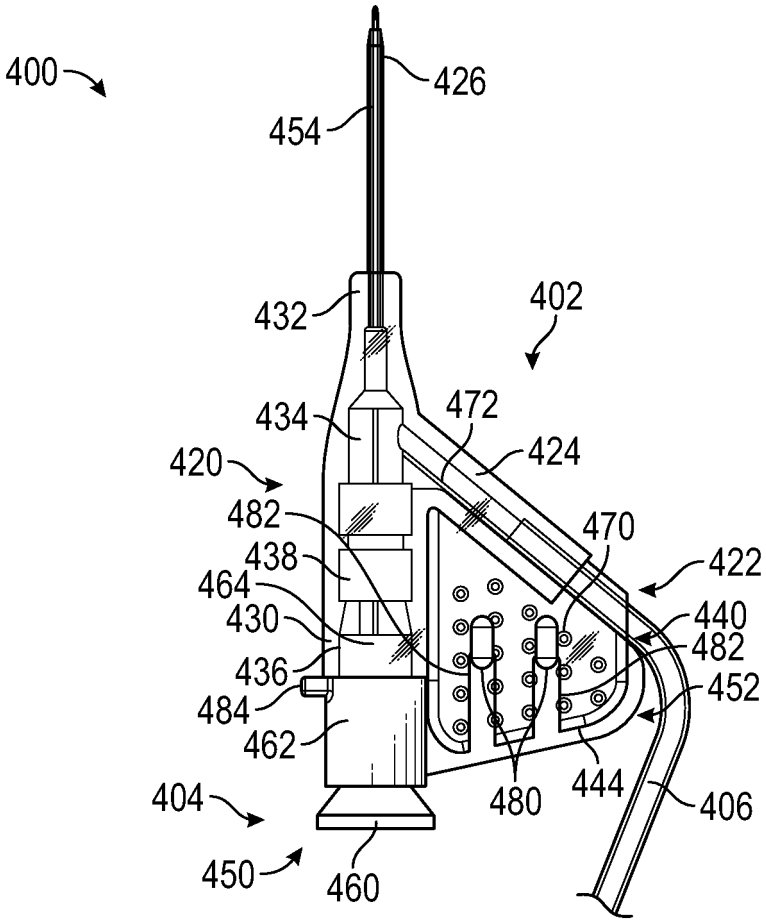
384
352
362
304
382
380
344
380
350
360

FIG. 3B


400
426
454
432
402
434
472
424
420
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470
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438
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436
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484
462
480
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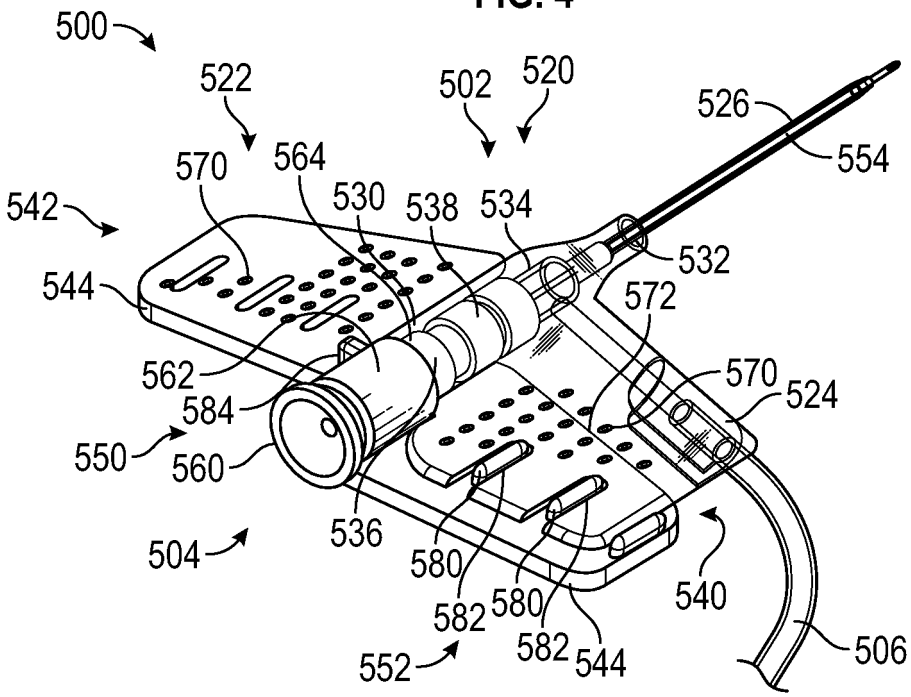
406
404
450
460

FIG. 4


500
522
502
520
526
554
570
564
530
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534
542
532
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562
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536
504
580
540
582
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582
544
552
506

FIG. 5

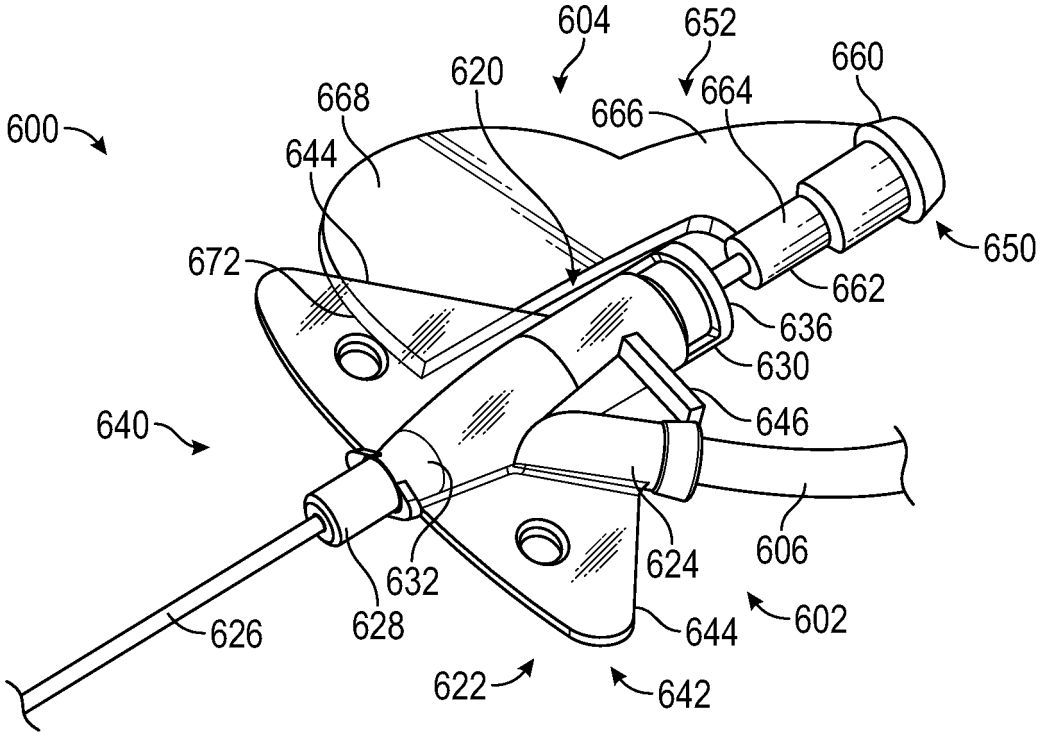

604
652
620
660
668
666
664
600
644
650
672
662
636
630
640
646
606
624
632
628
626
644
602
622
642

FIG. 6

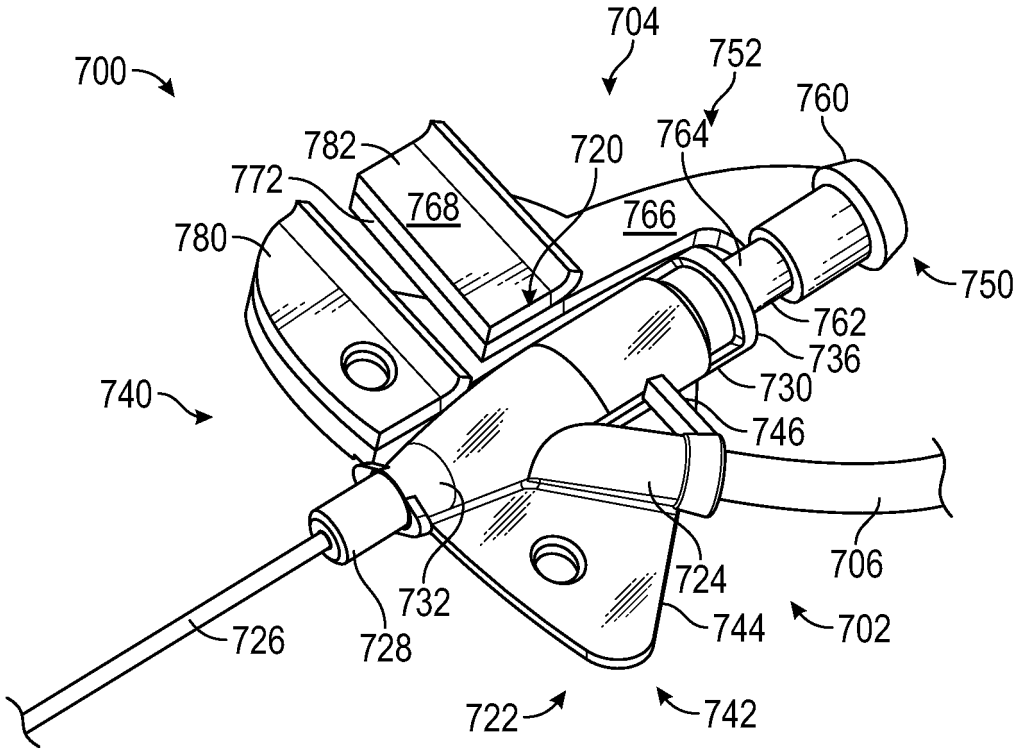
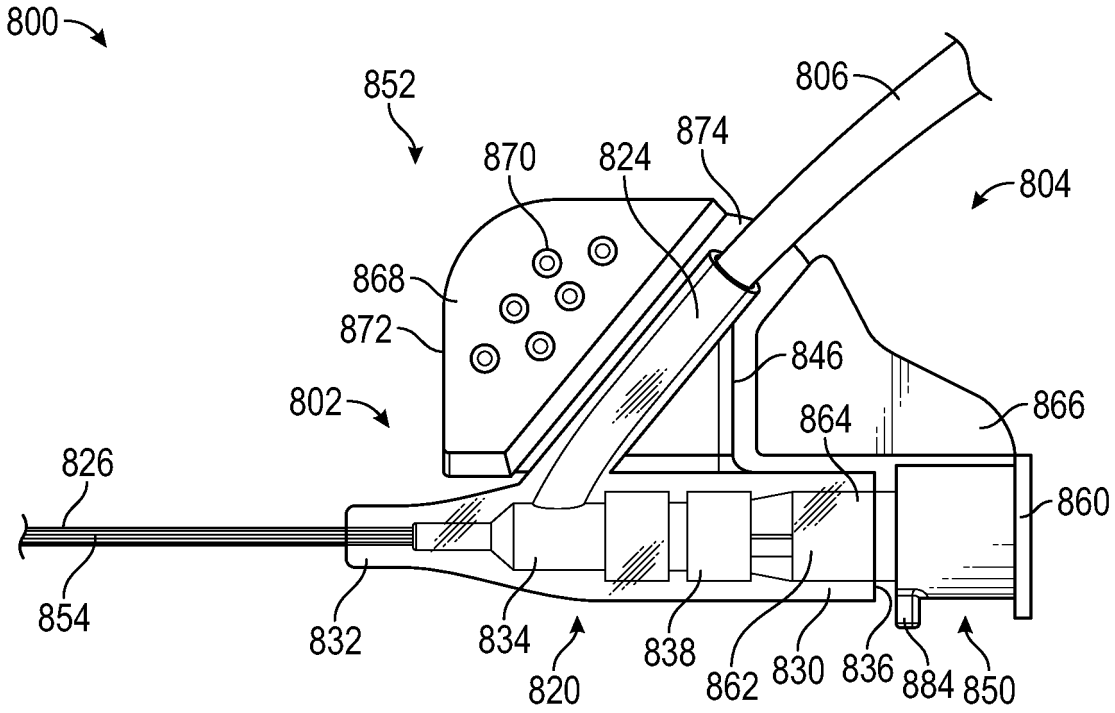

704
752
700
760
782
720
764
772
768
766
780
750
762
736
740
730
746
706
724
732
728
726
744
702
722
742

FIG. 7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874
870
824
804
868
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846
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854
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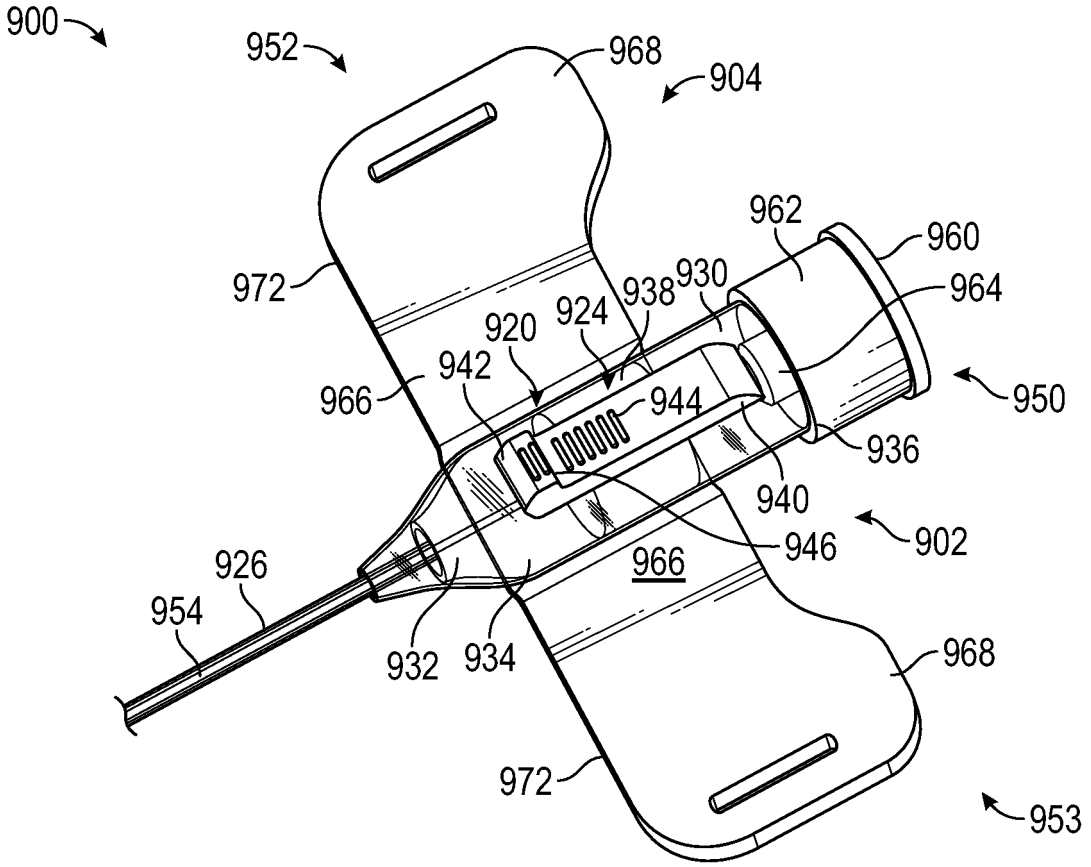
834
838
862
830
836
884
850
820

FIG. 8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952
968
904
962
960
972
930
938
964
924
920
942
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944
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936
940
902
946
926
966
954
932
934
968
972
953

FIG. 9A

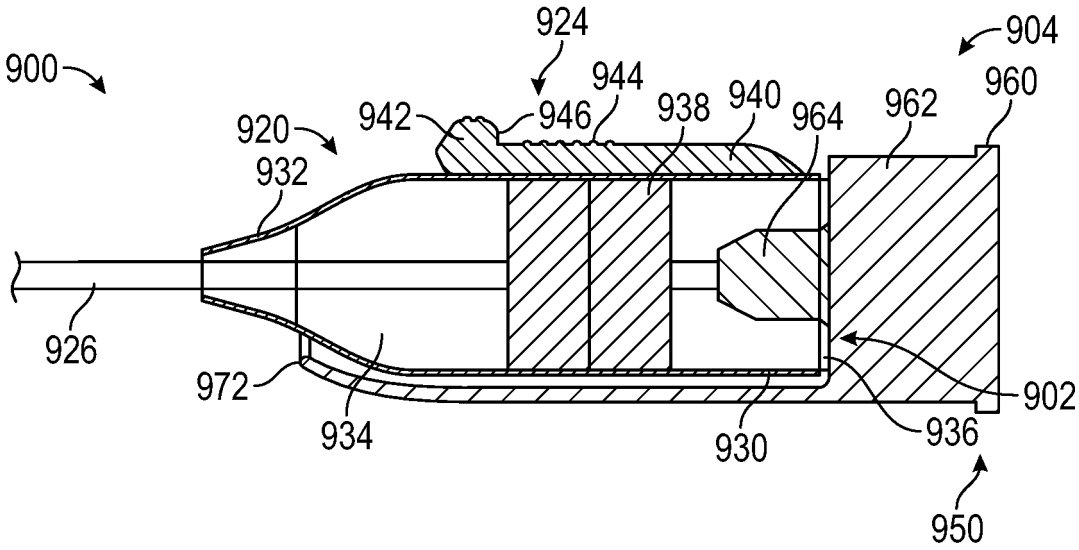



FIG. 9B

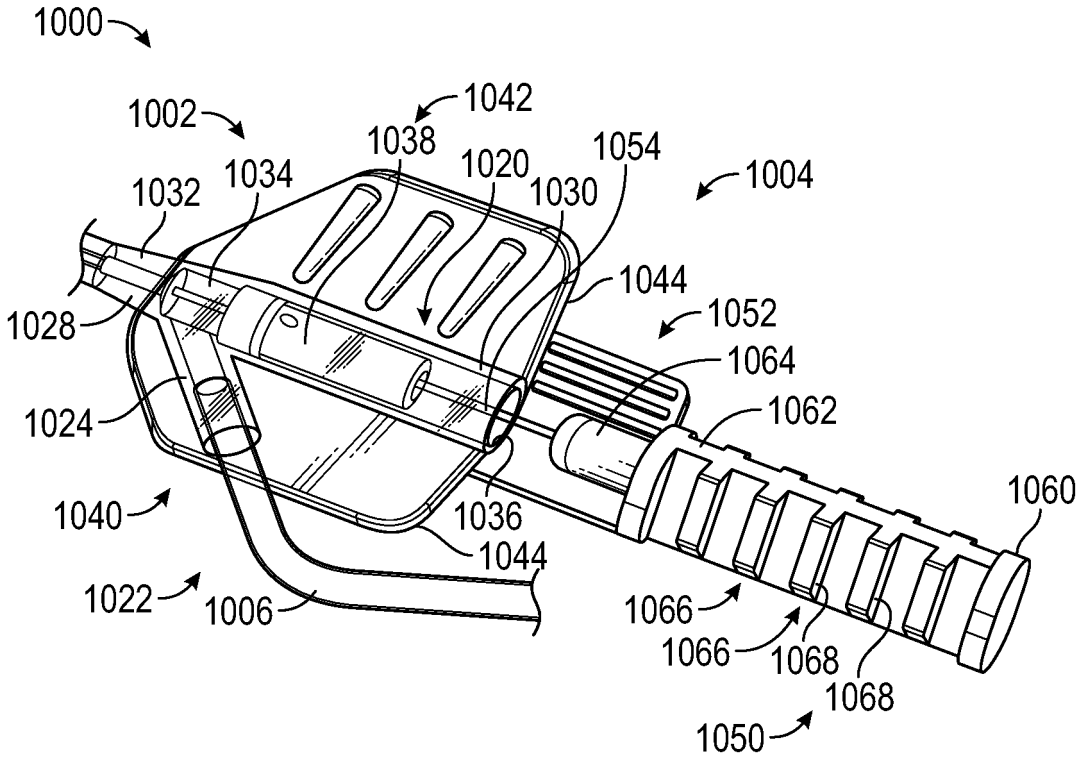



FIG. 10A

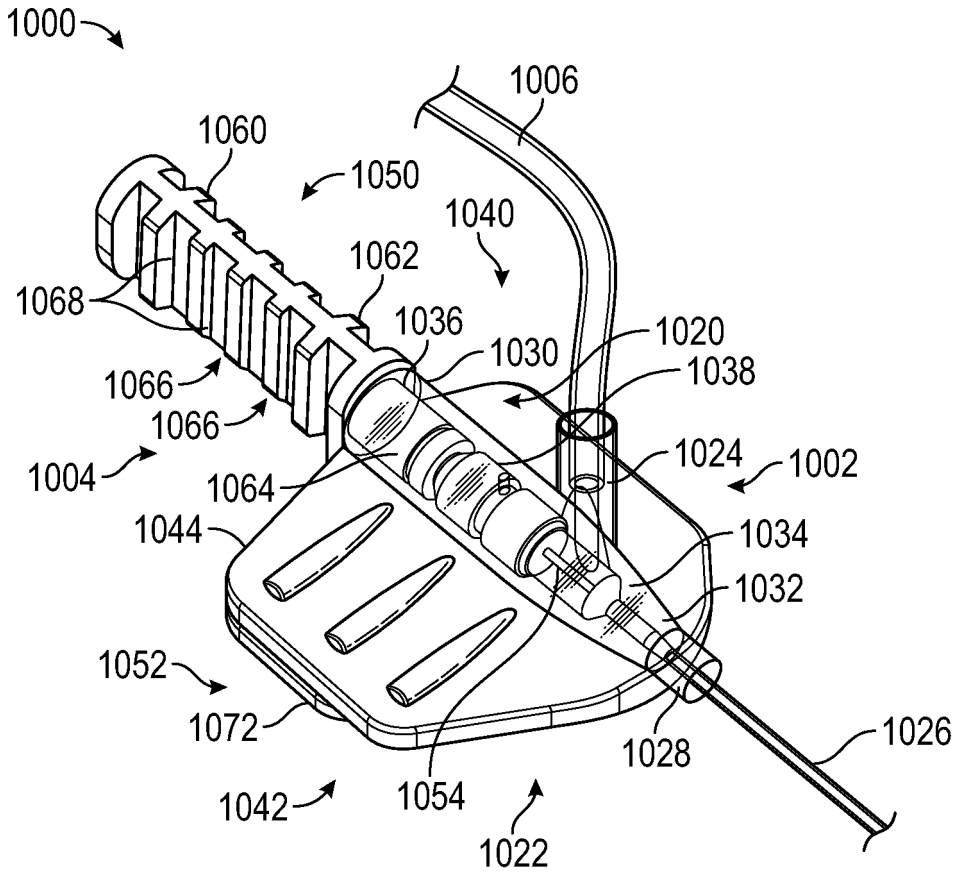



FIG. 10B

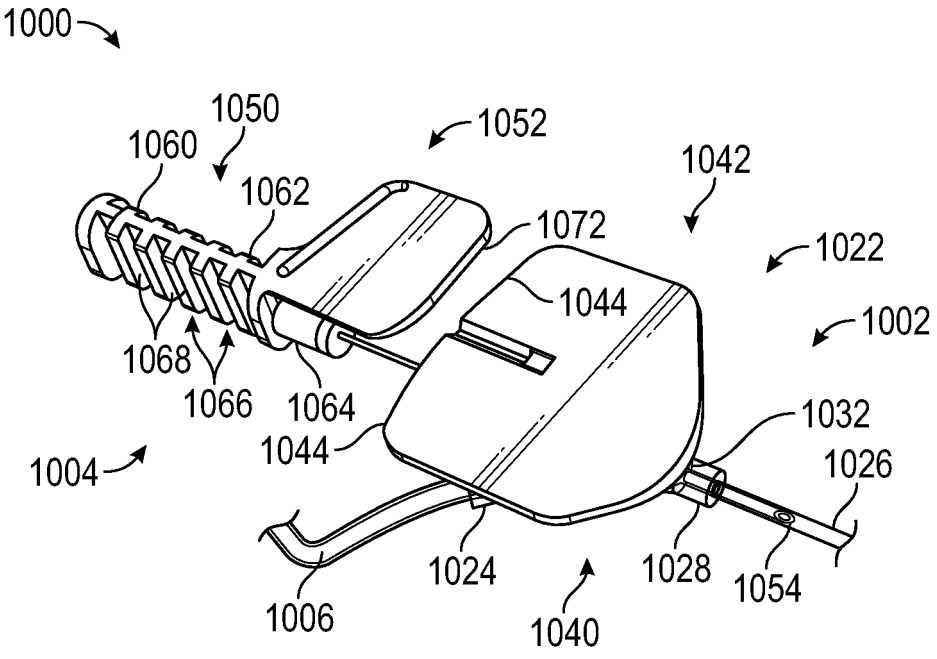



FIG. 10C

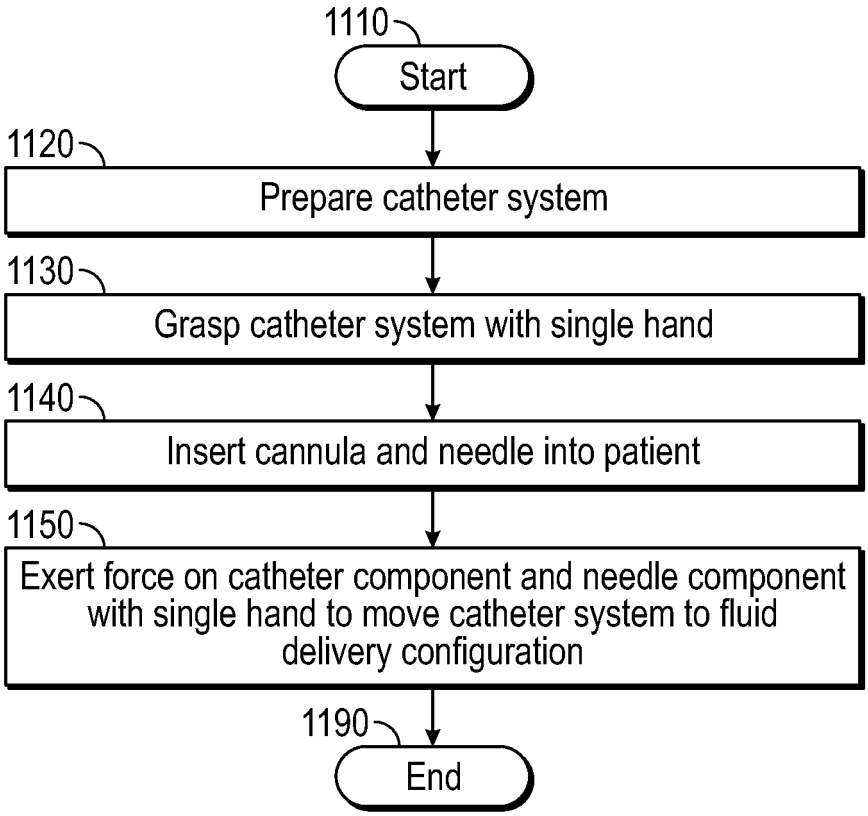

1110
Start
1120
Prepare catheter system
1130
Grasp catheter system with single hand
1140
Insert cannula and needle into patient
1150
Exert force on catheter component and needle component with single hand to move catheter system to fluid delivery configuration
1190
End

FIG. 11

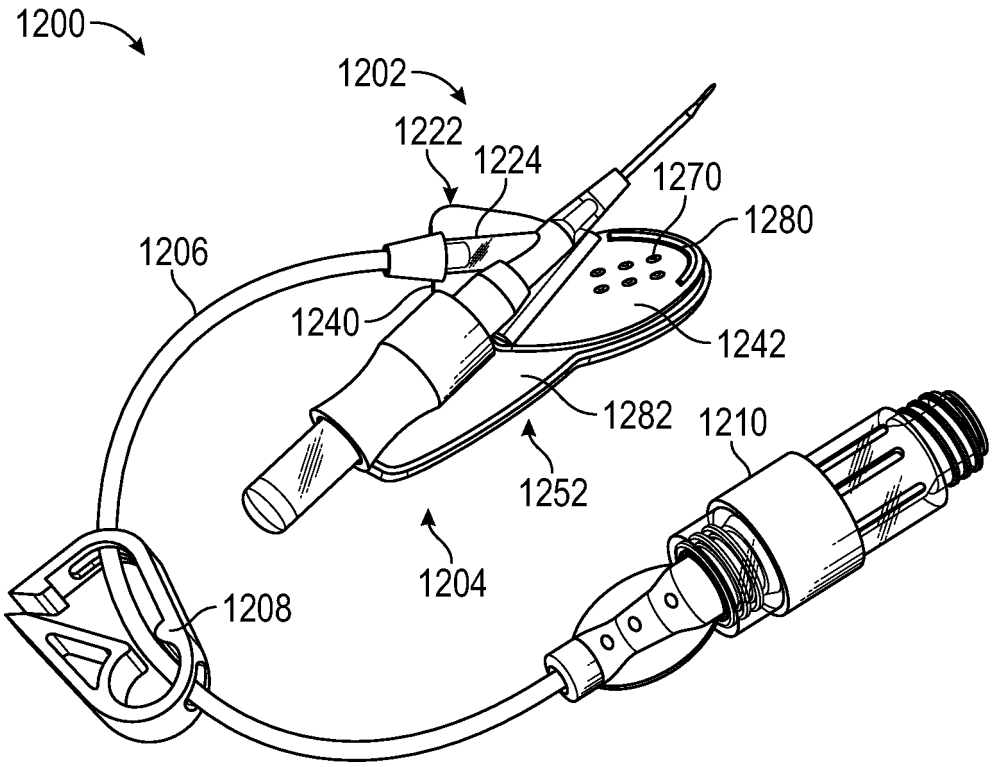



FIG. 12A

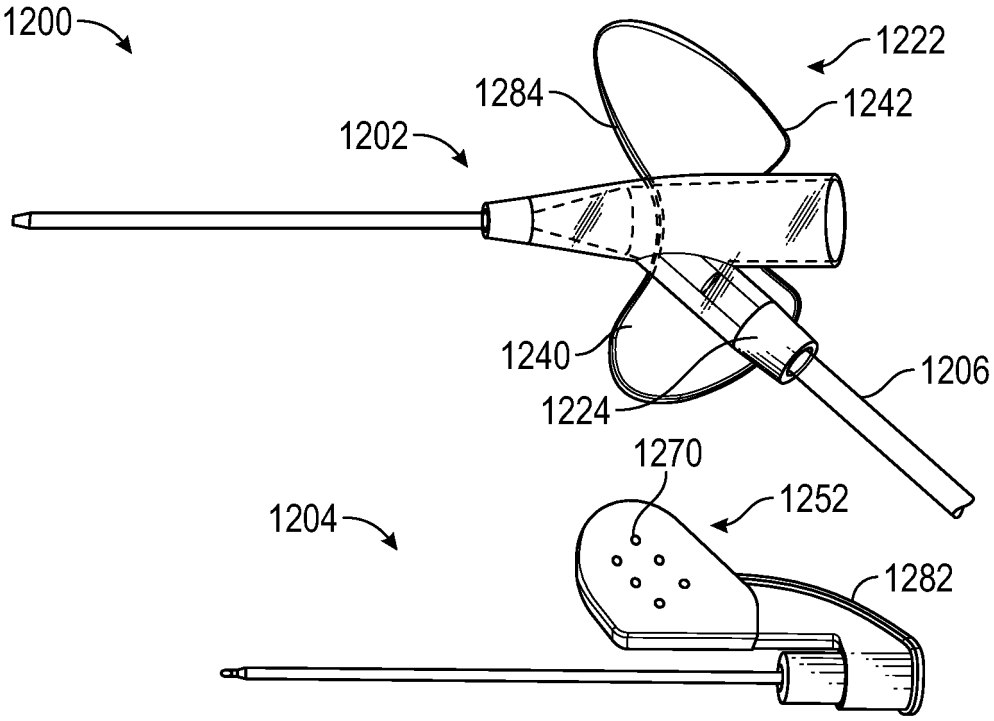



FIG. 12B

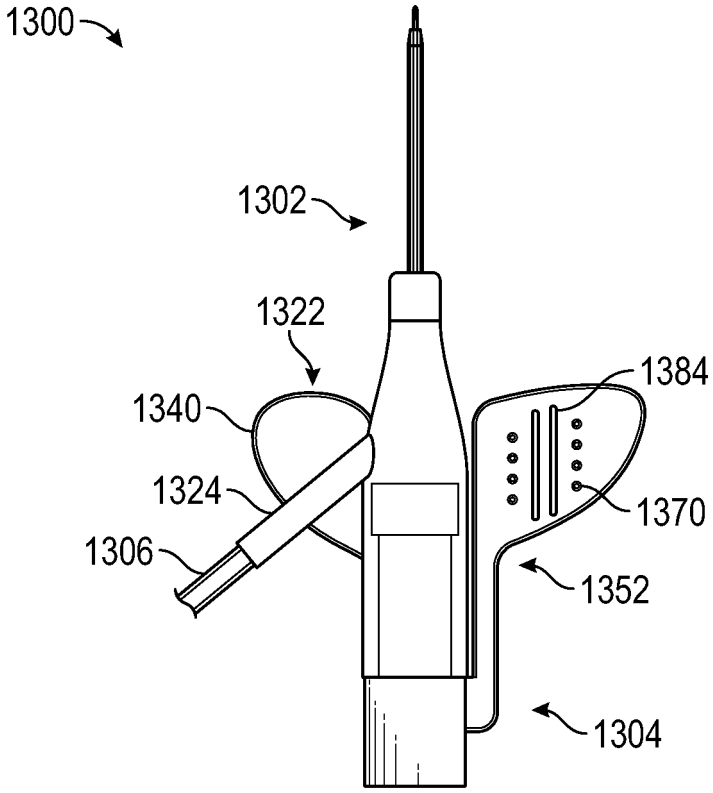



FIG. 13A

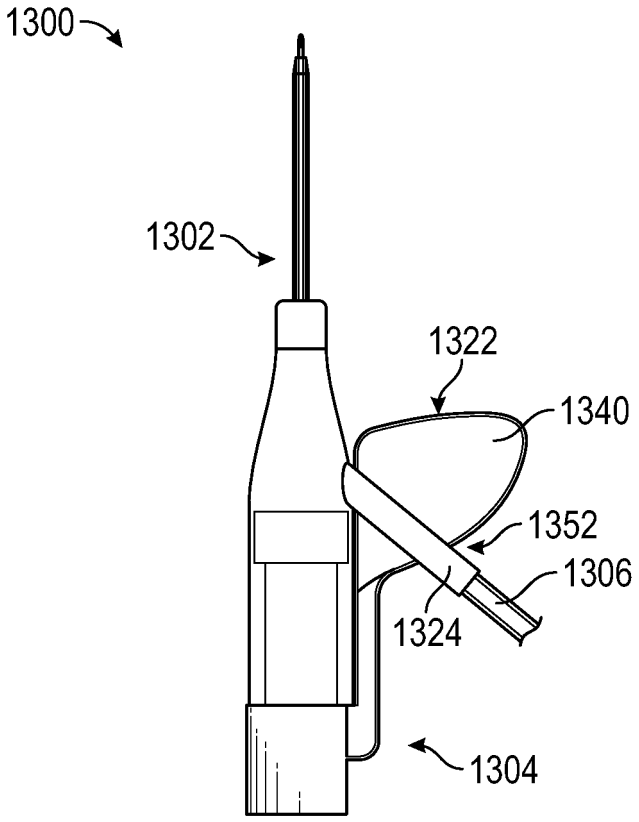



FIG. 13B

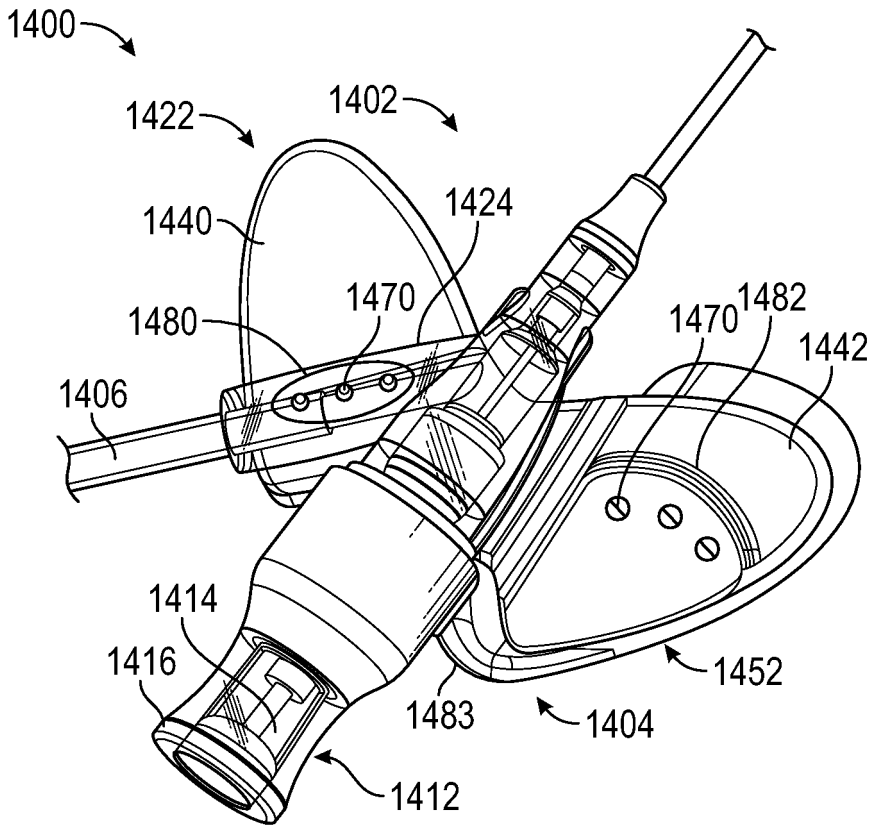



FIG. 14A

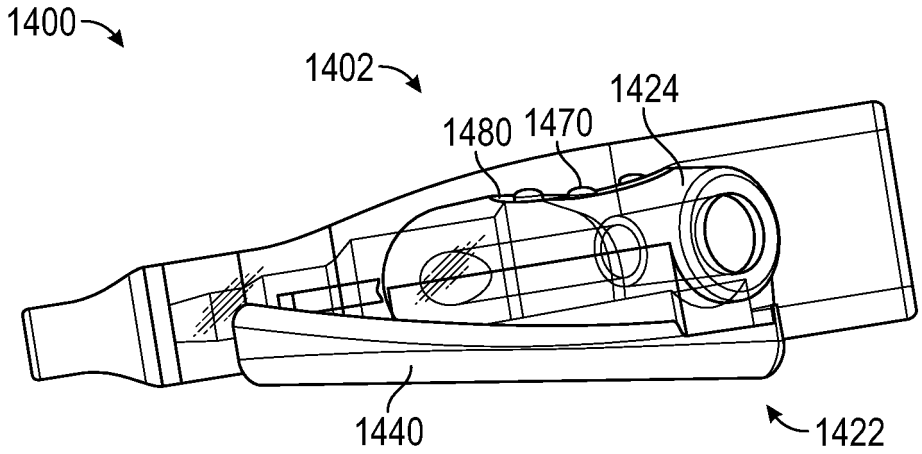



FIG. 14B

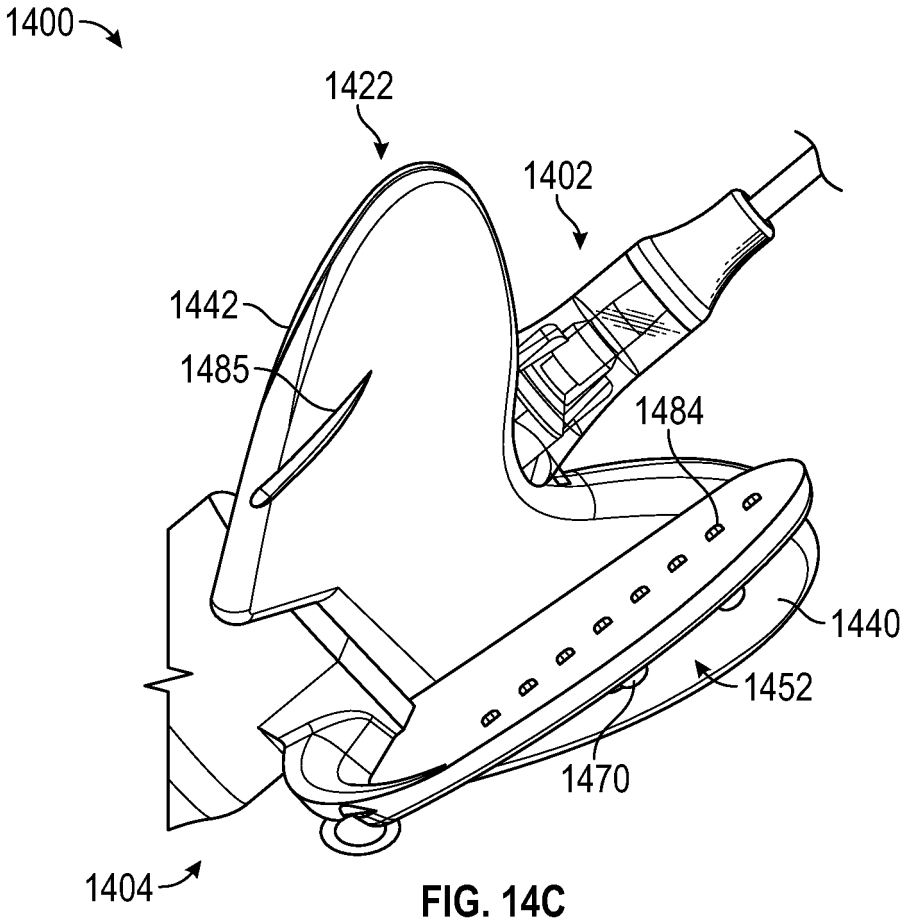



FIG. 14C

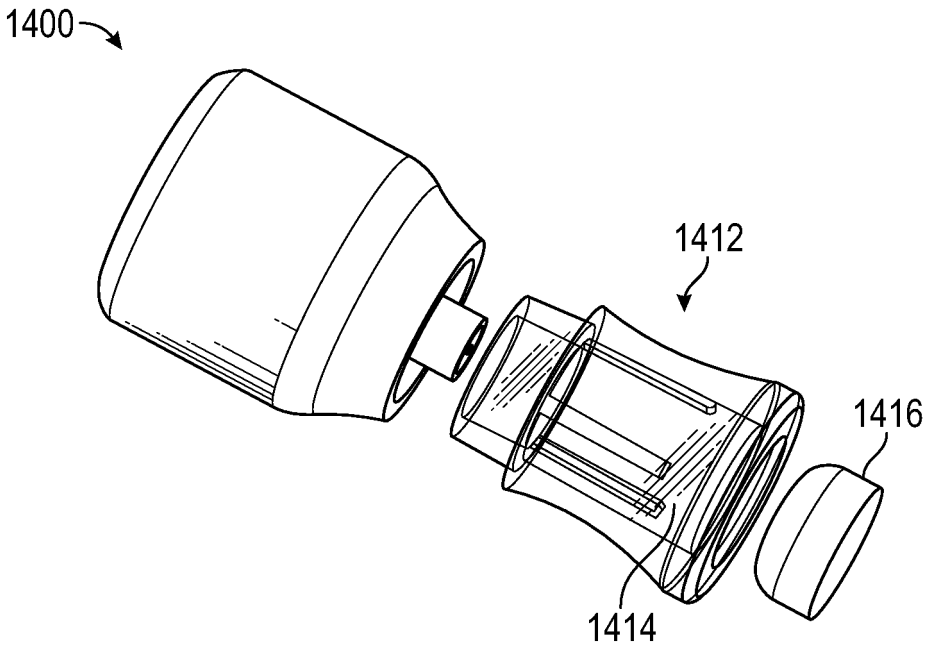



FIG. 14D

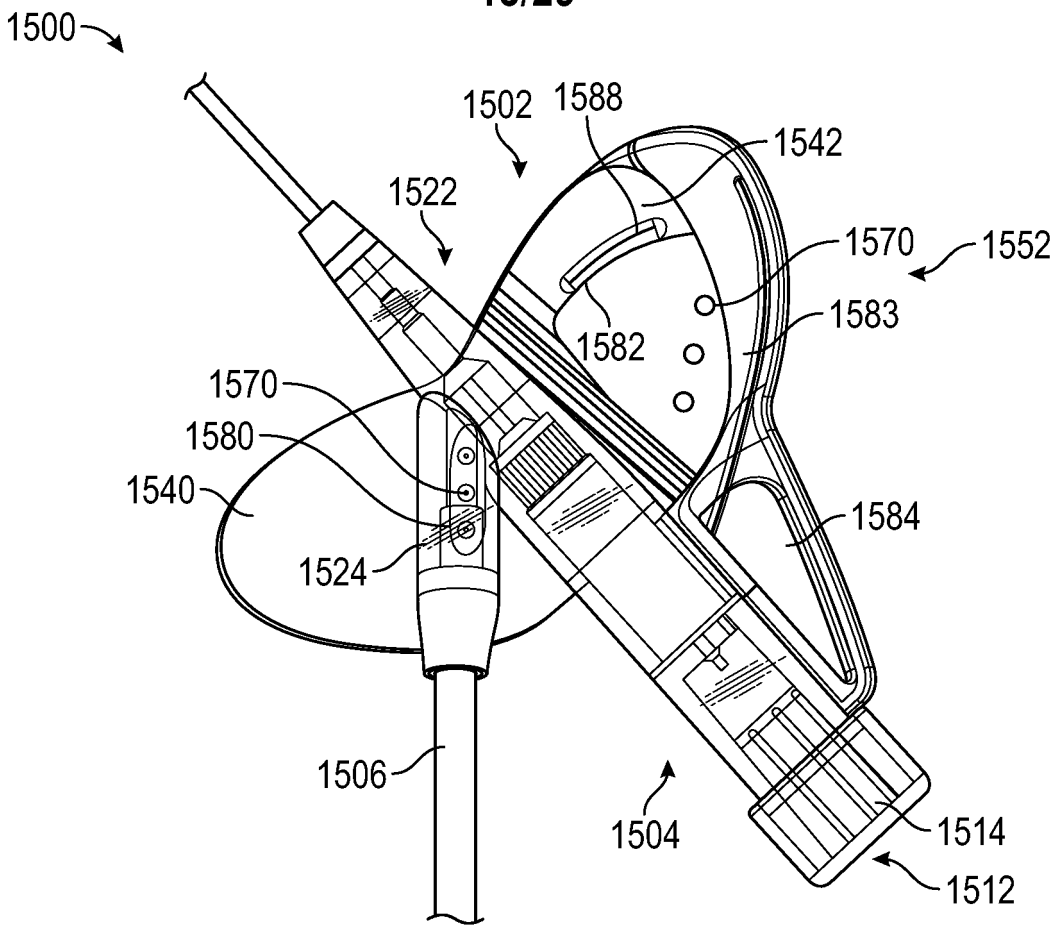



FIG. 15A

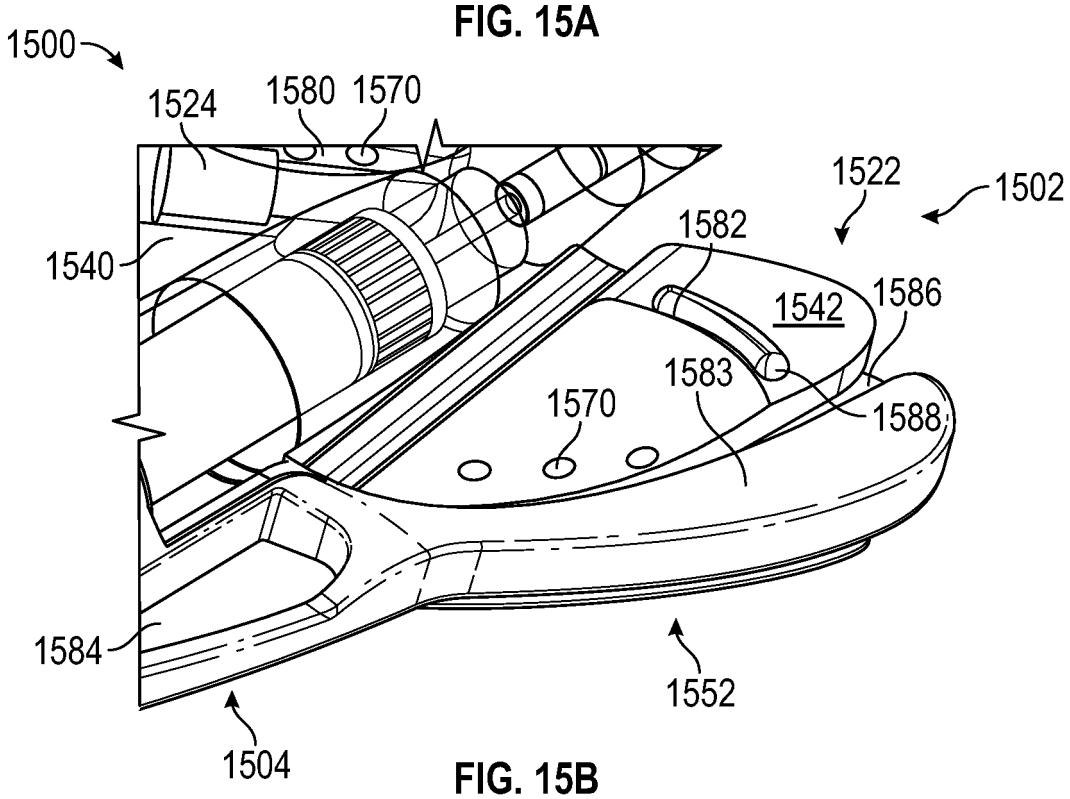



FIG. 15B

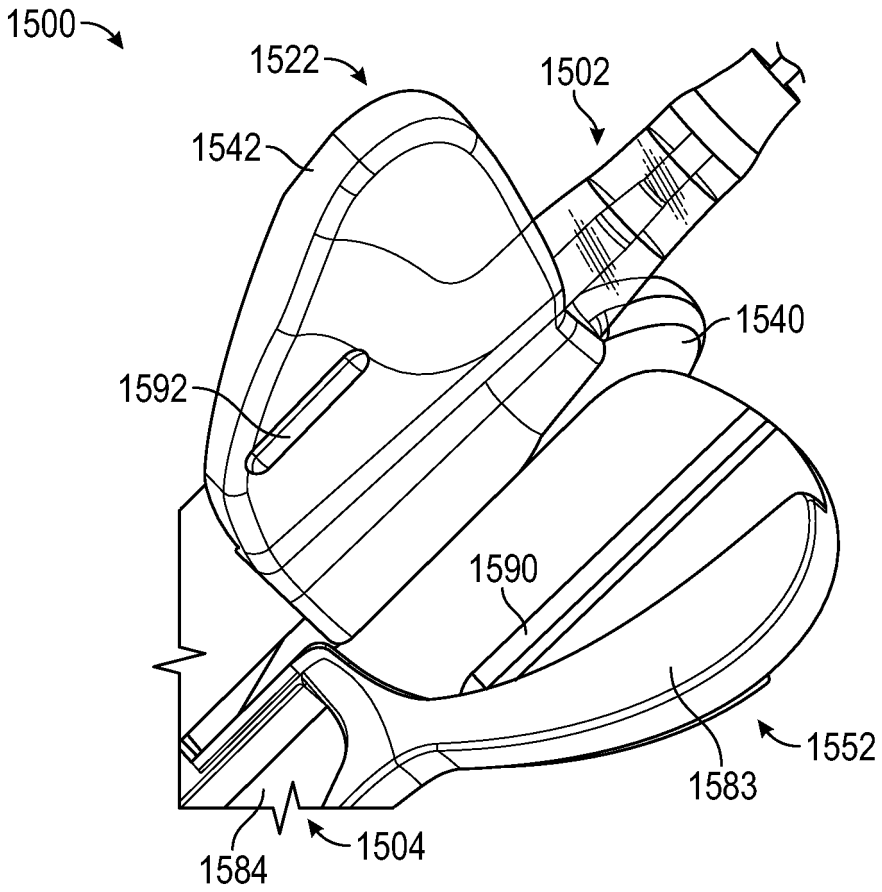



FIG. 15C

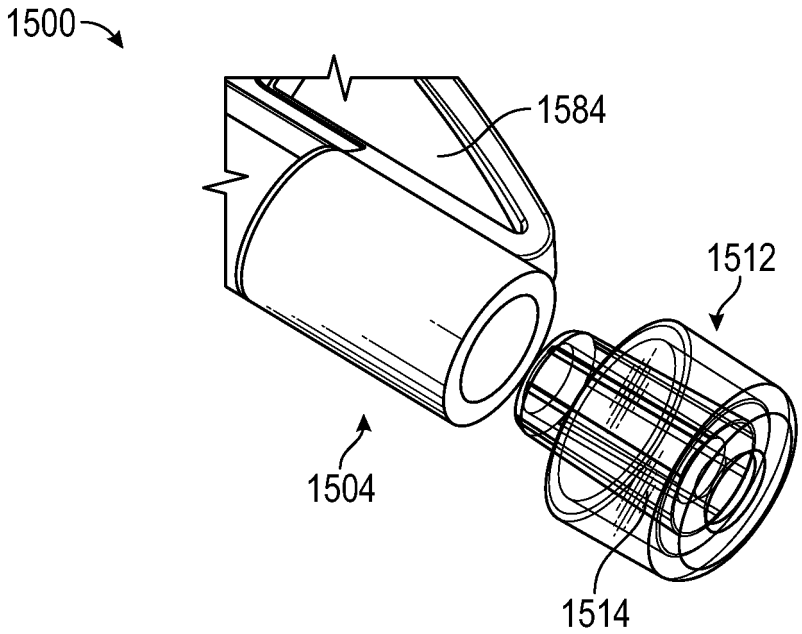



FIG. 15D

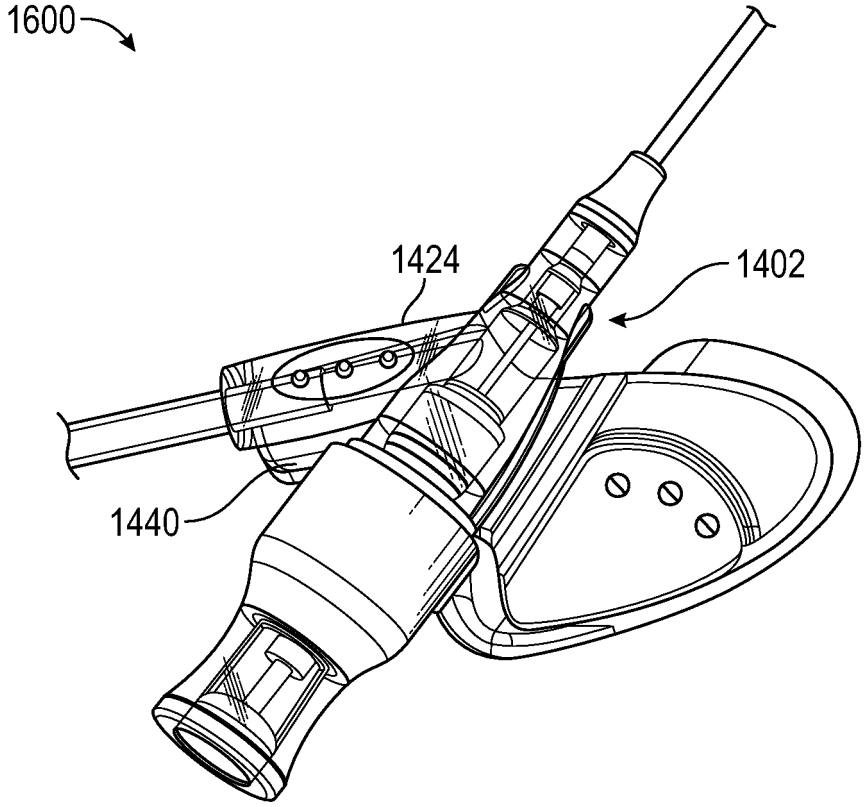



FIG. 16

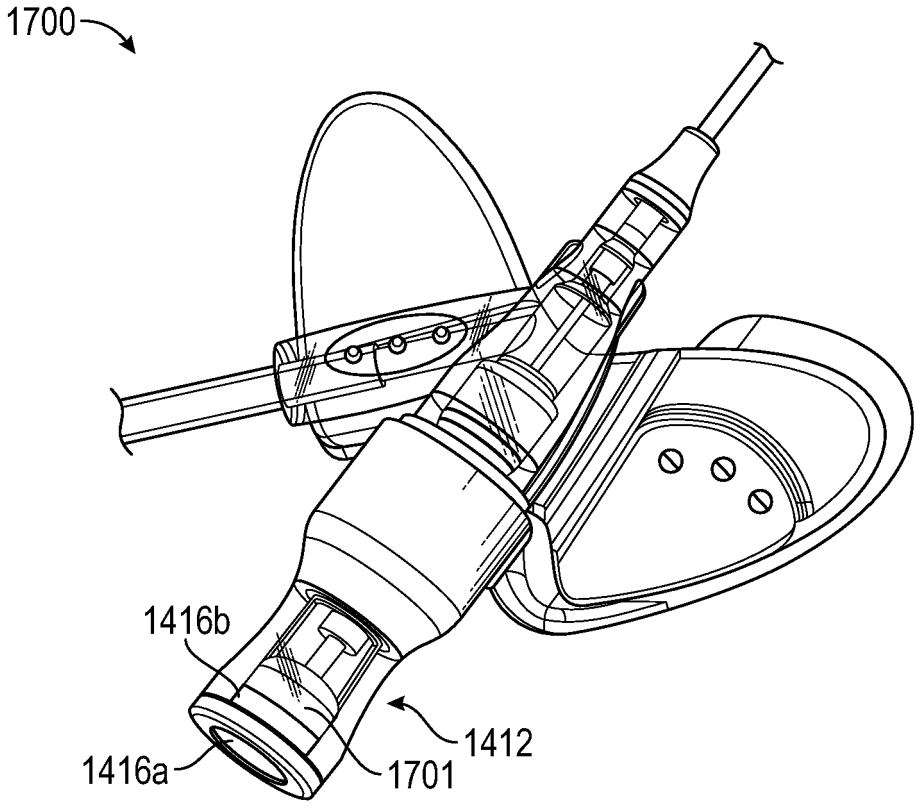



FIG. 17

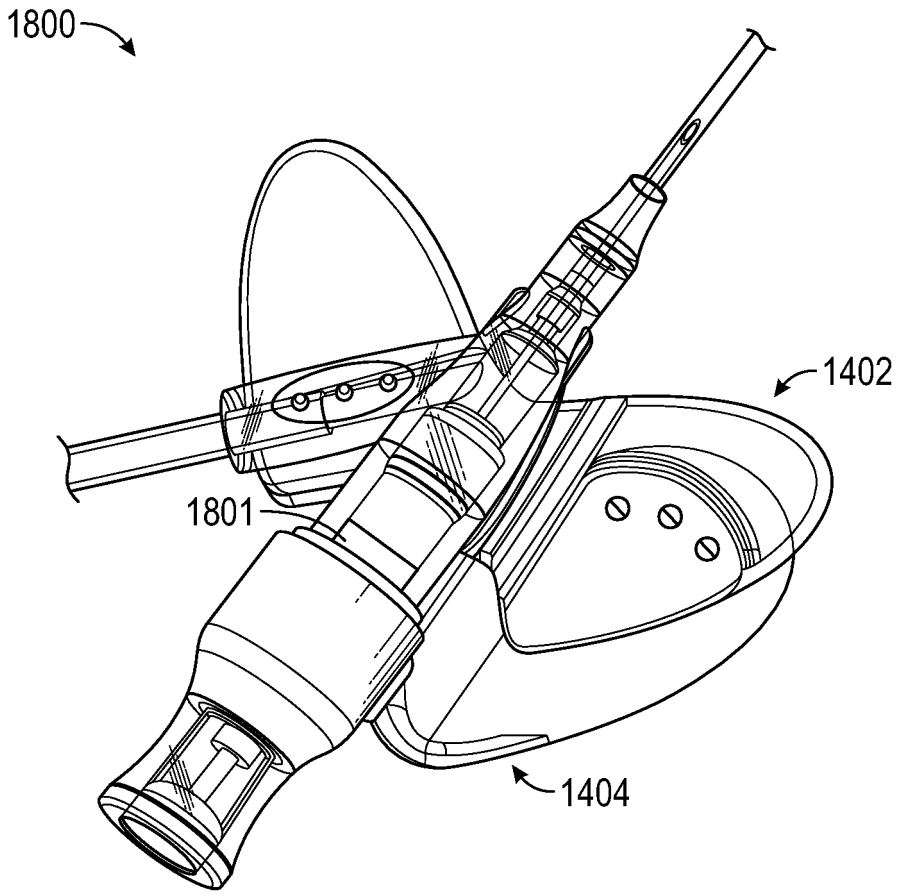



FIG. 18A

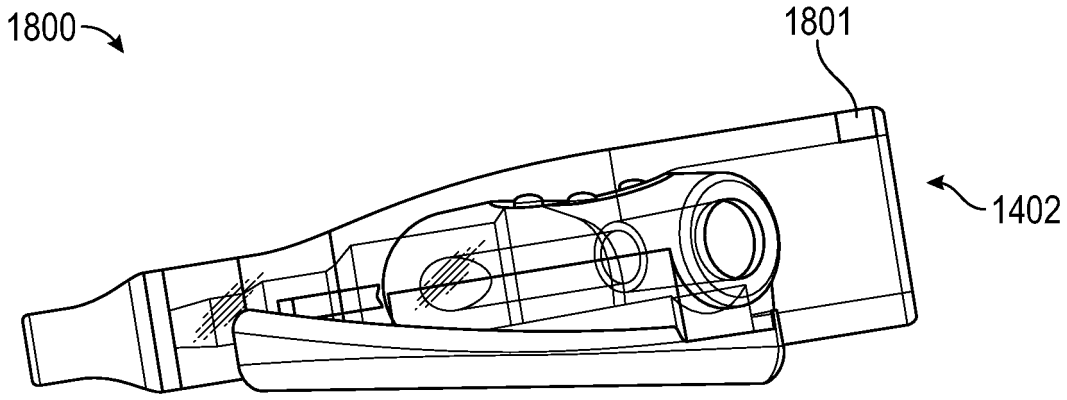



FIG. 18B

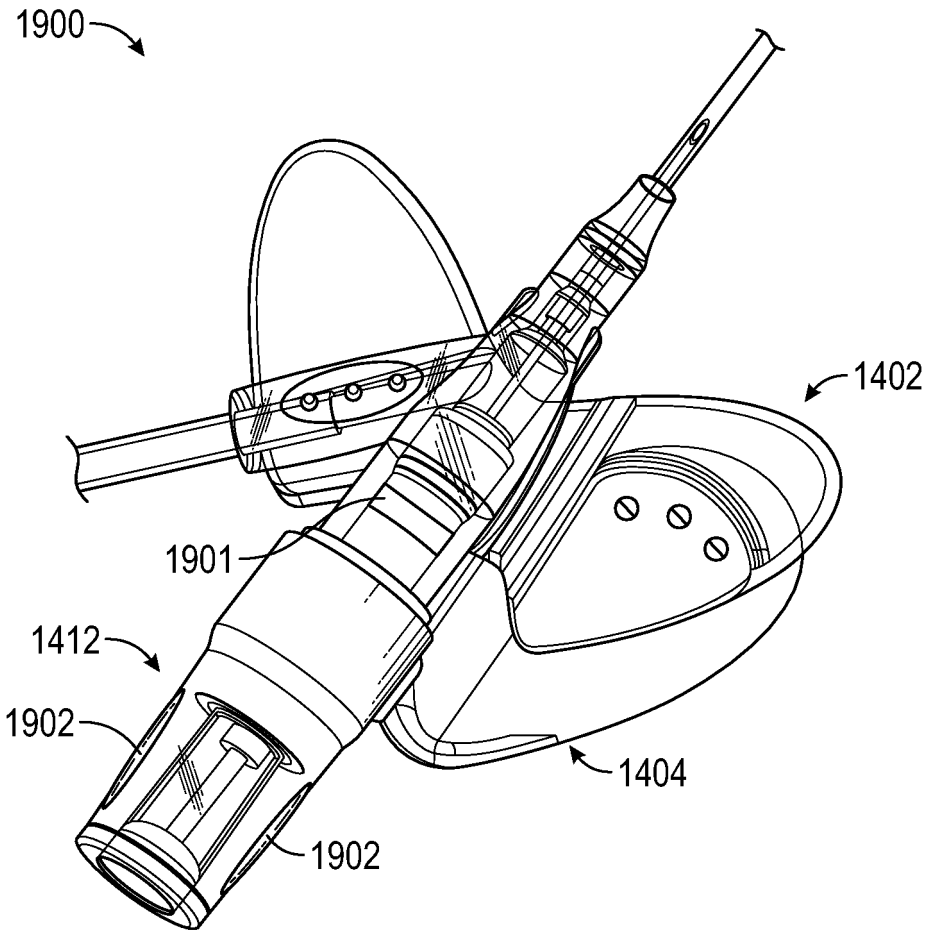



FIG. 19A

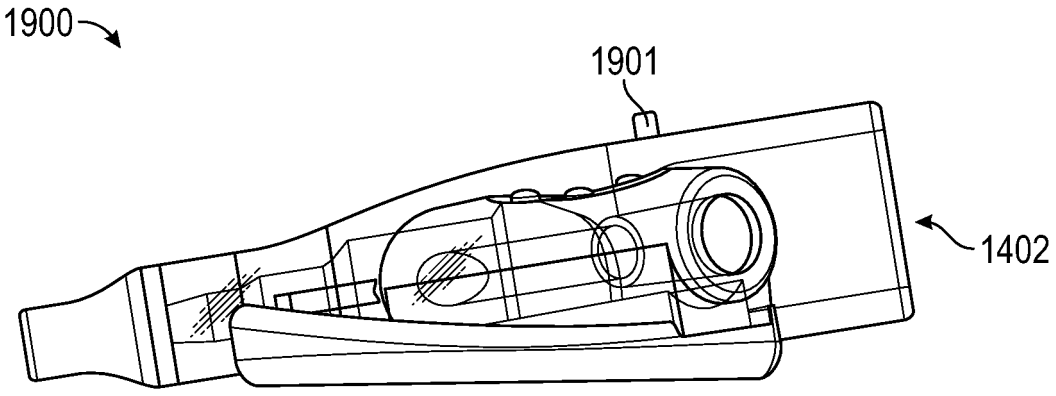



FIG. 19B

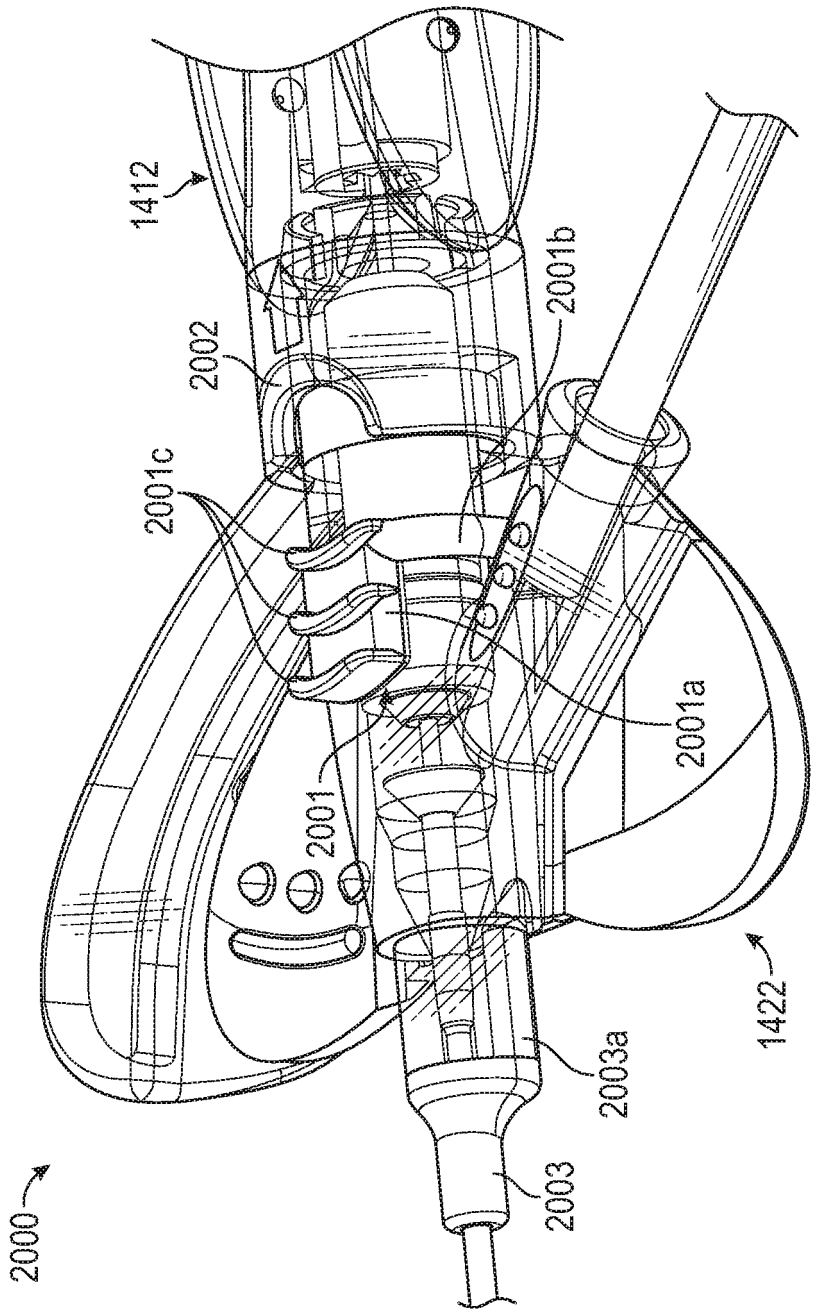



FIG. 20

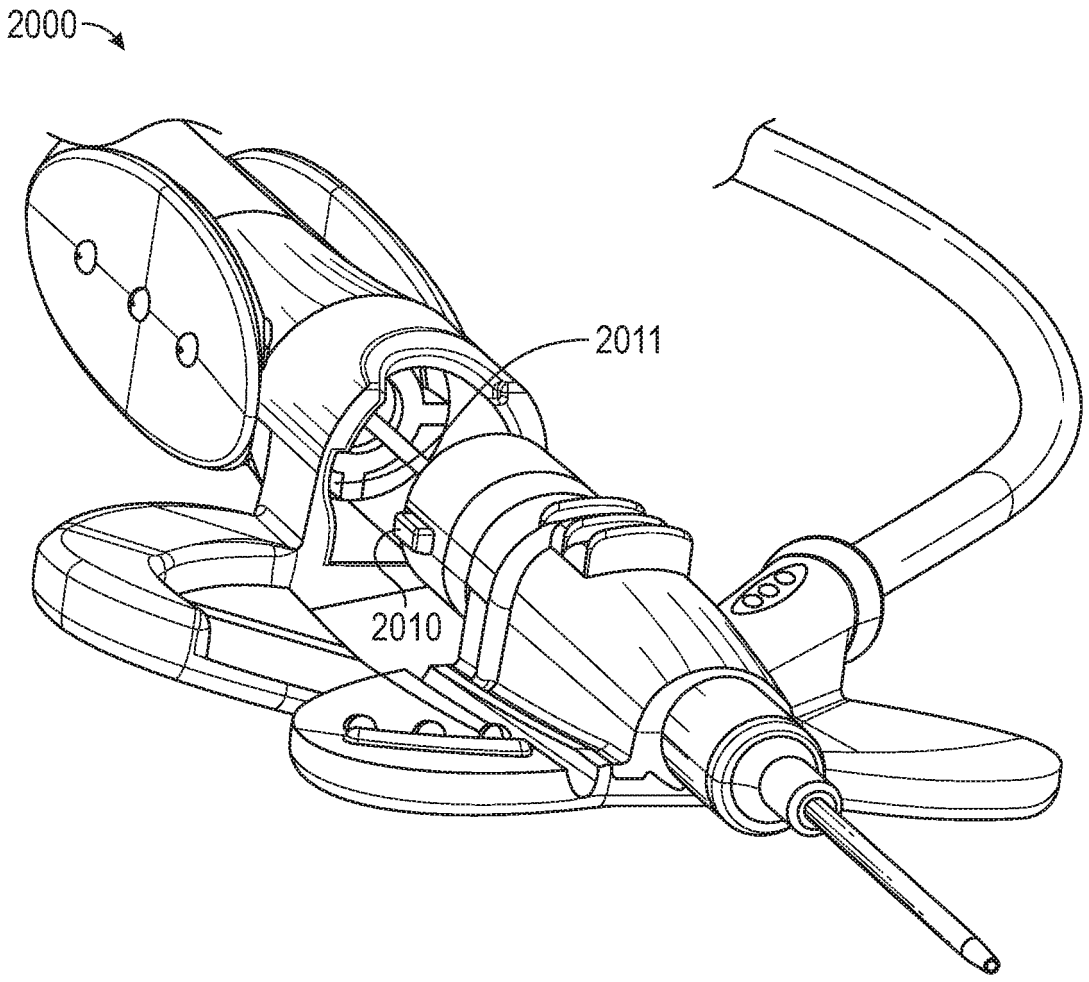



FIG. 21

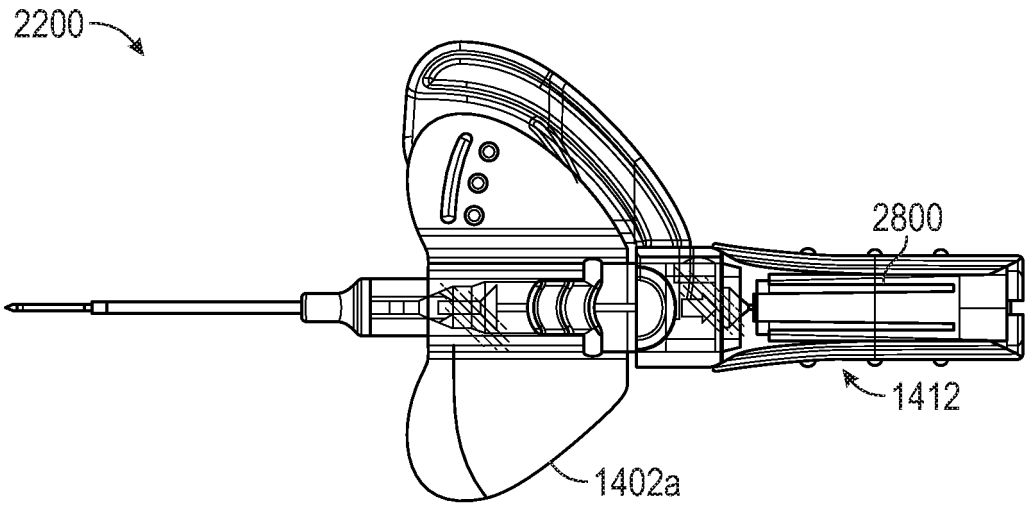



FIG. 22A

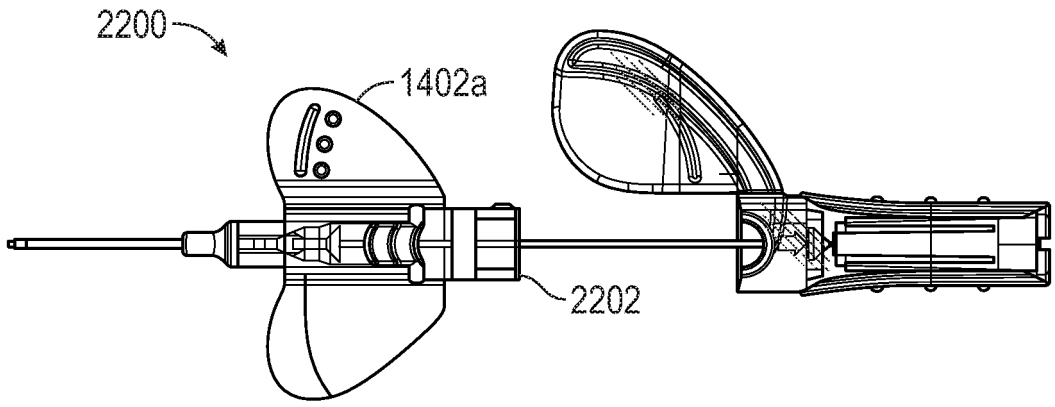
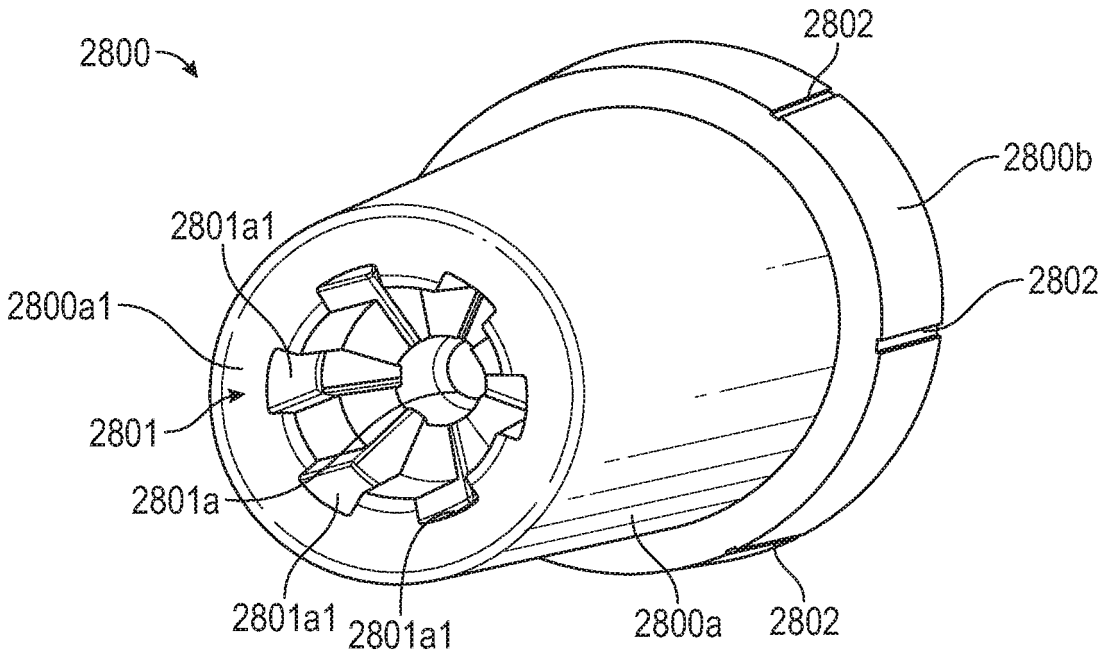



FIG. 22B


2800
2802
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2800a1
2802
2801
2801a
2801a1
2801a1
2800a
2802

FIG. 23

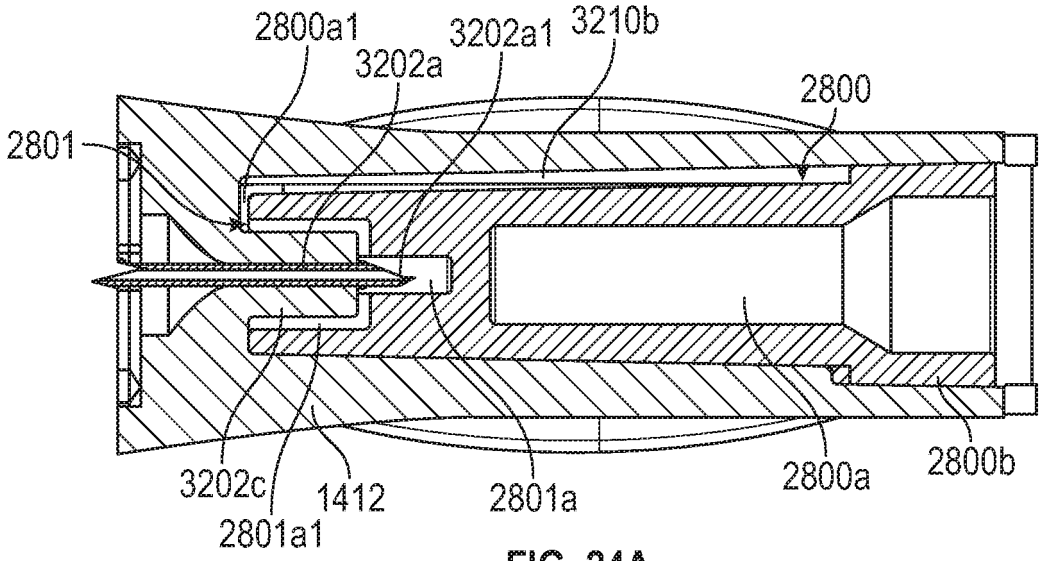


FIG. 24A

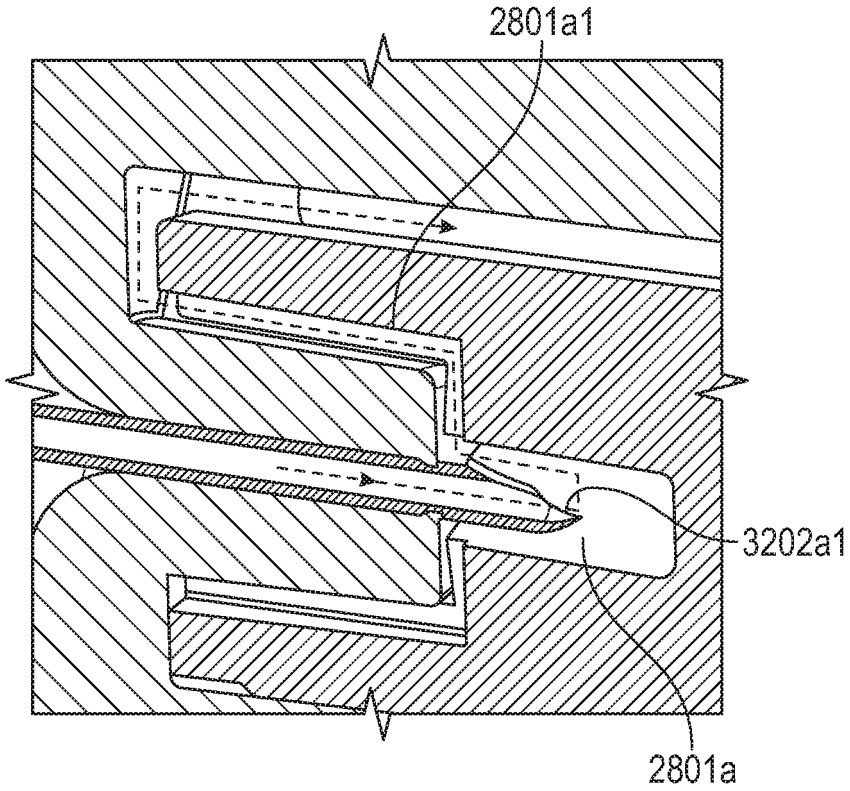


FIG. 24B

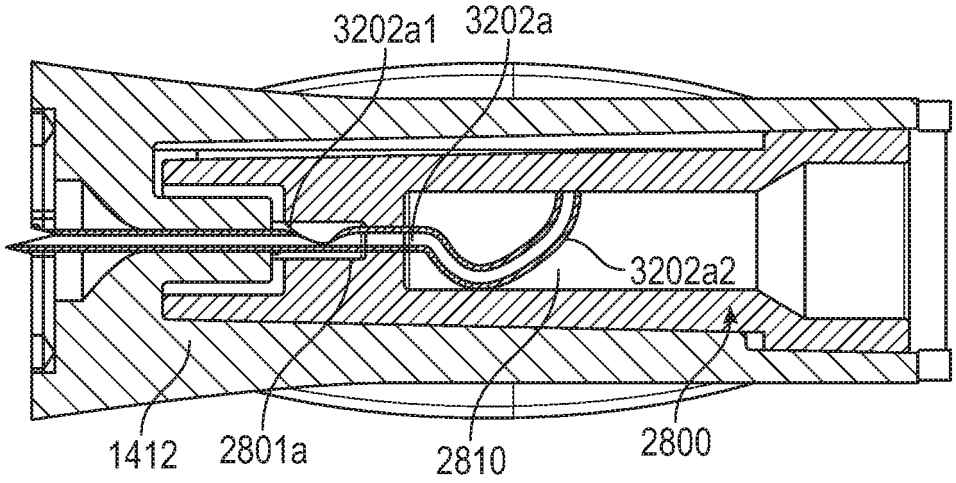


FIG. 24C

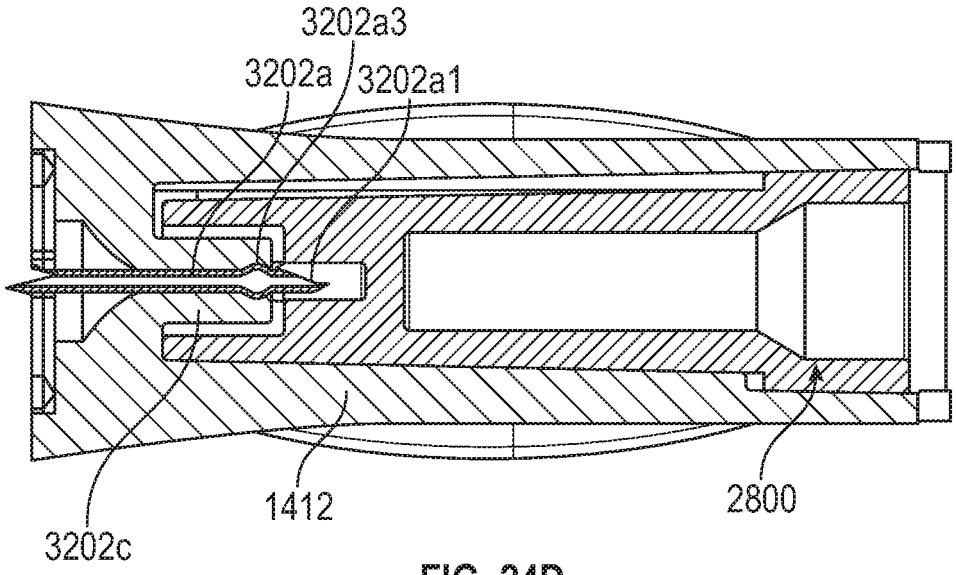


FIG. 24D

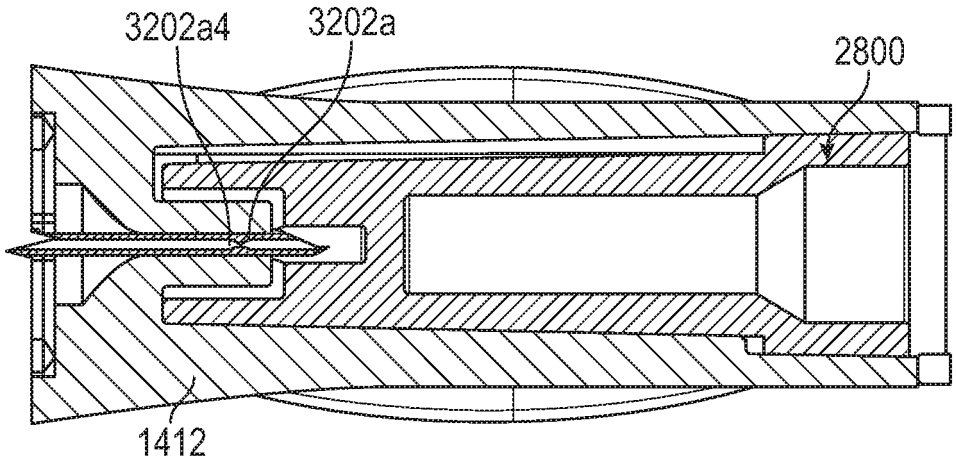


FIG. 24E

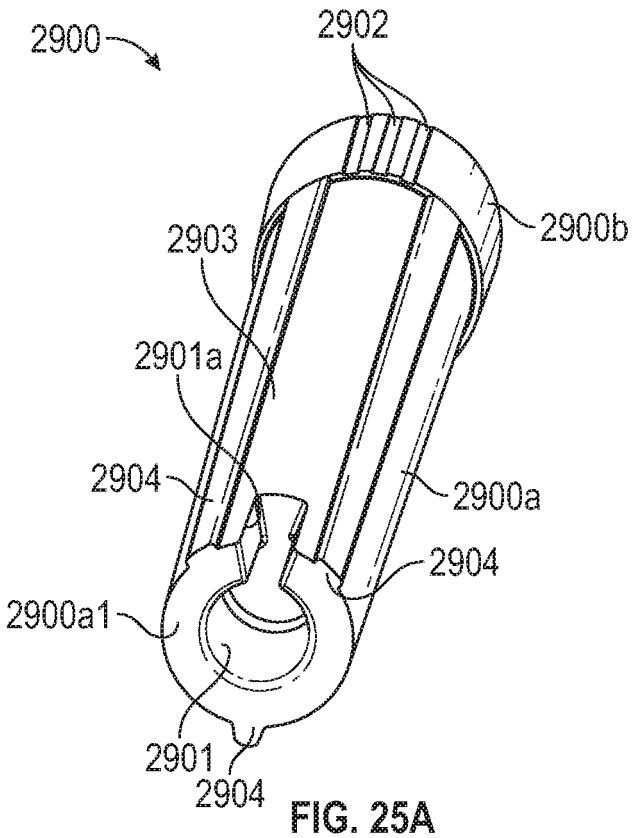


FIG. 25A

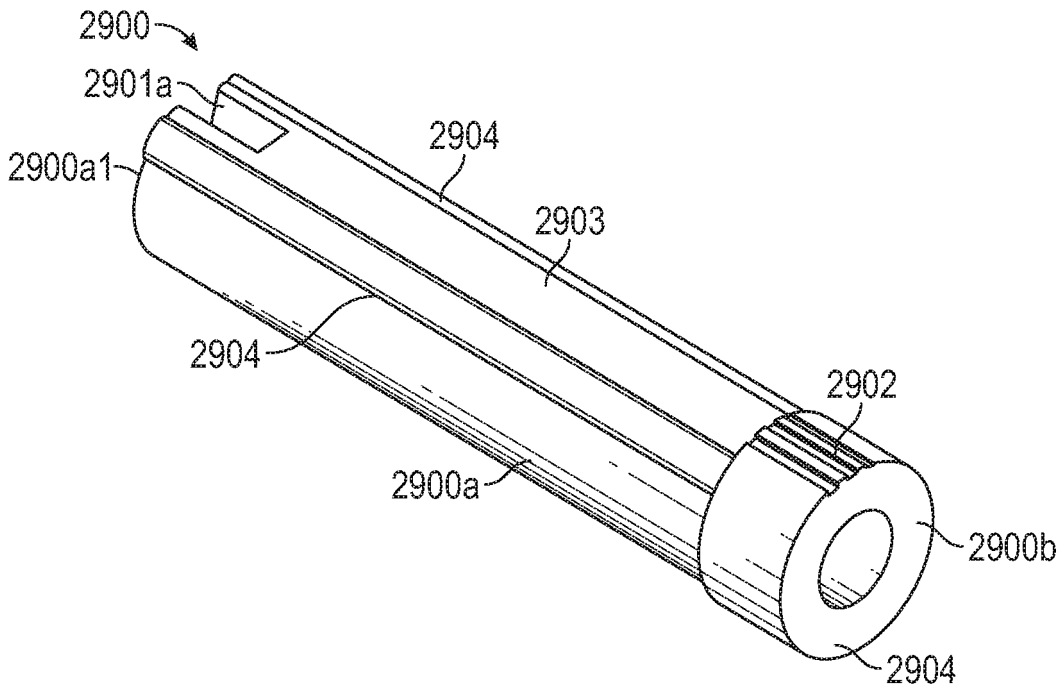


FIG. 25B

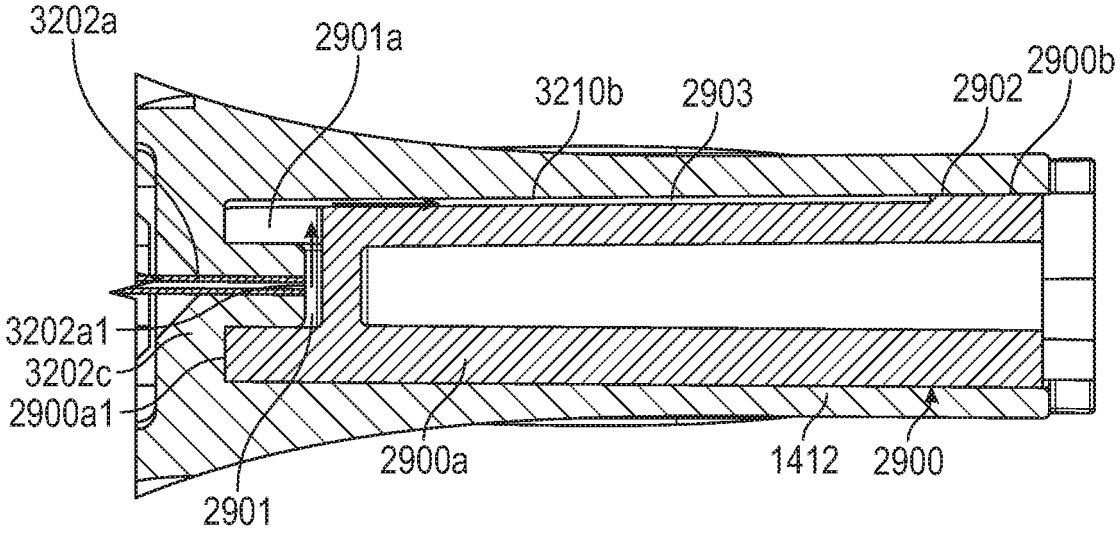


FIG. 25C

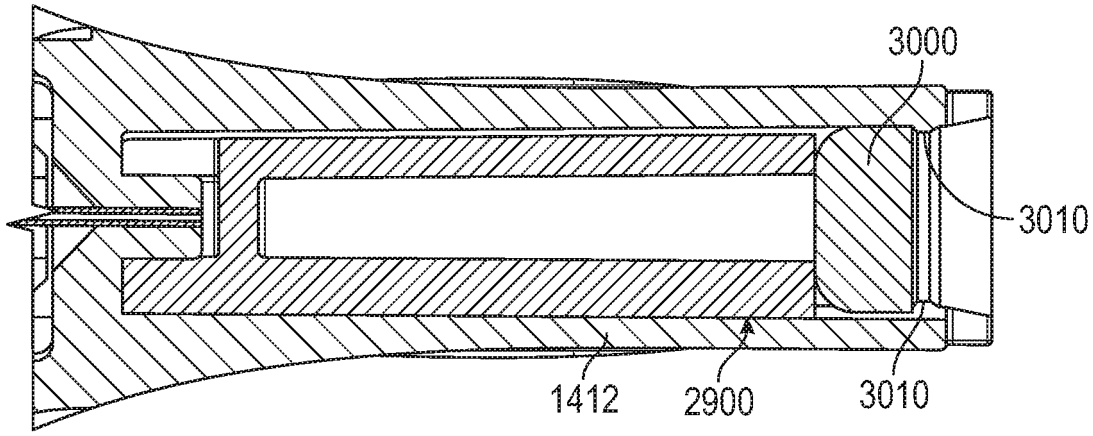


FIG. 26

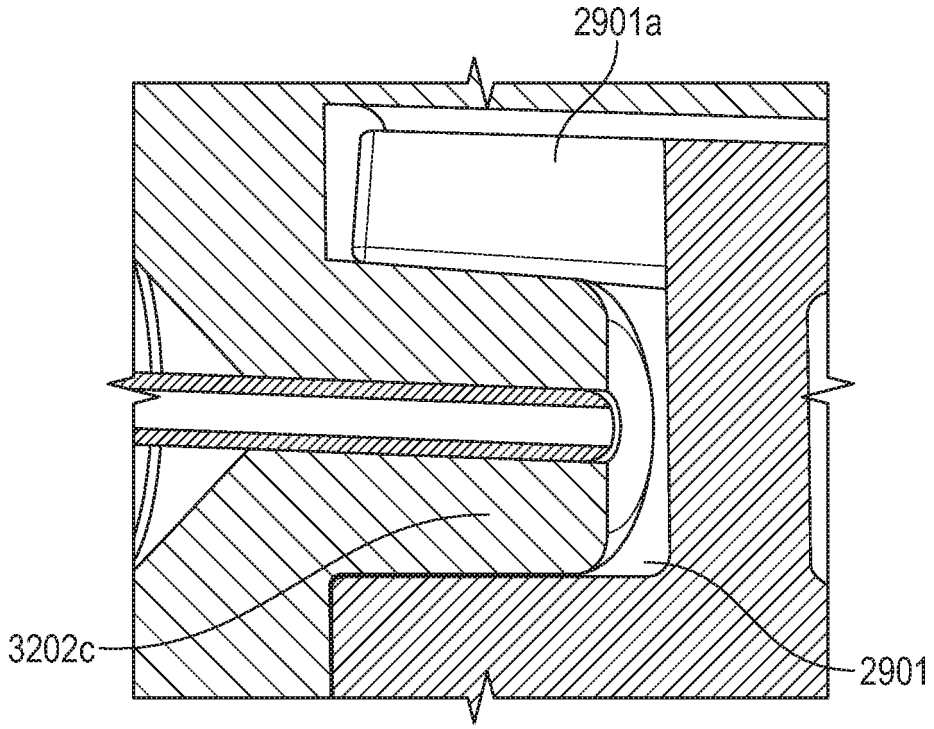


FIG. 27A

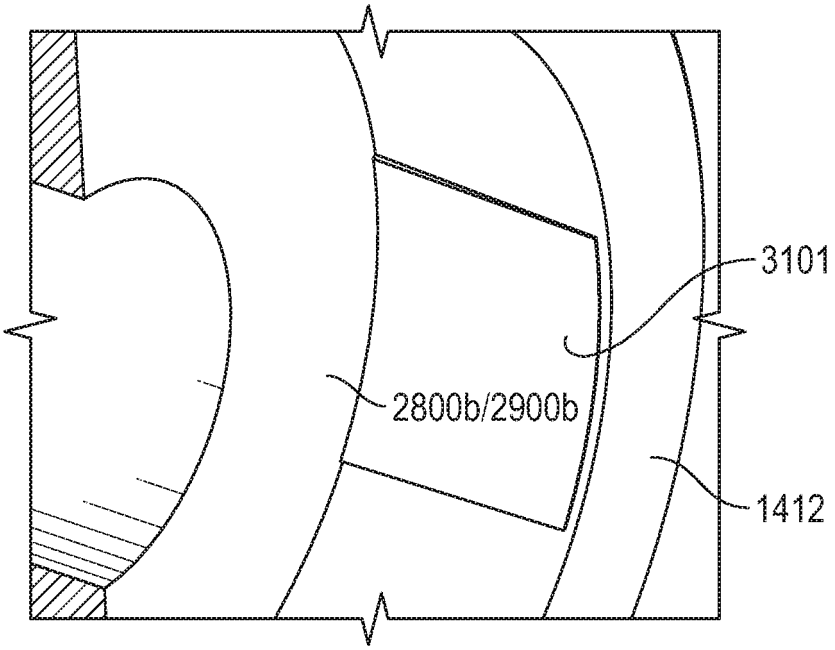


FIG. 27B

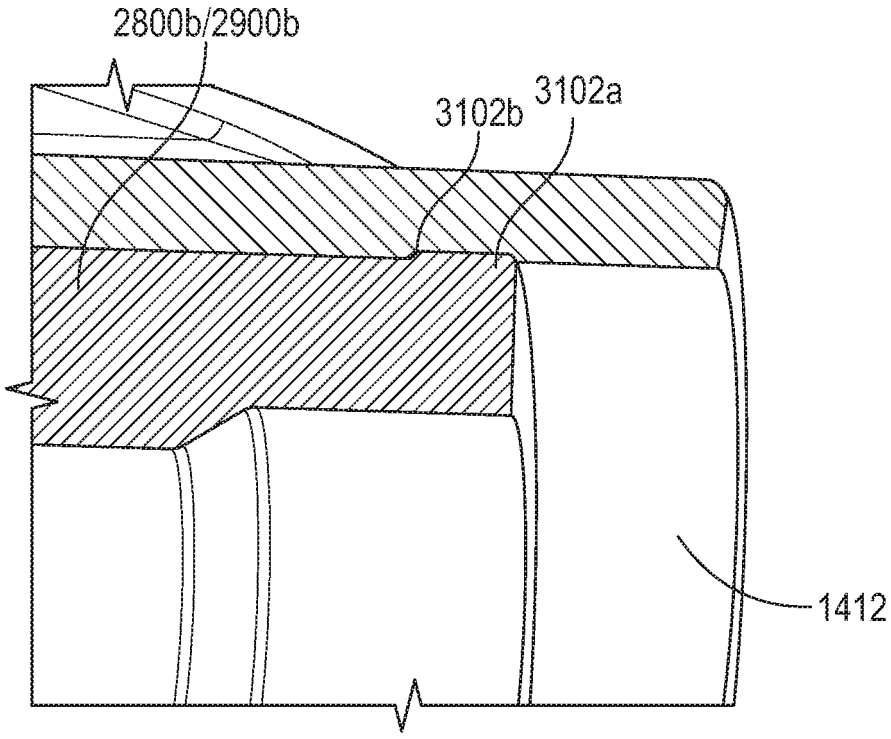


FIG. 27C

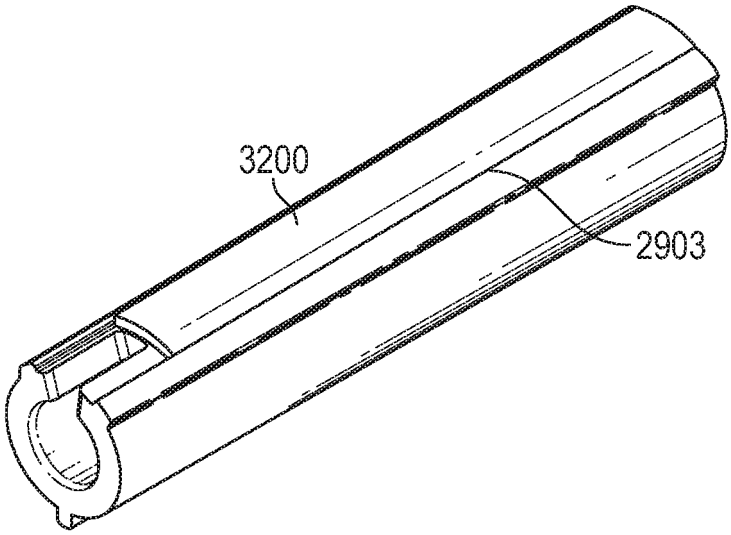


FIG. 28A

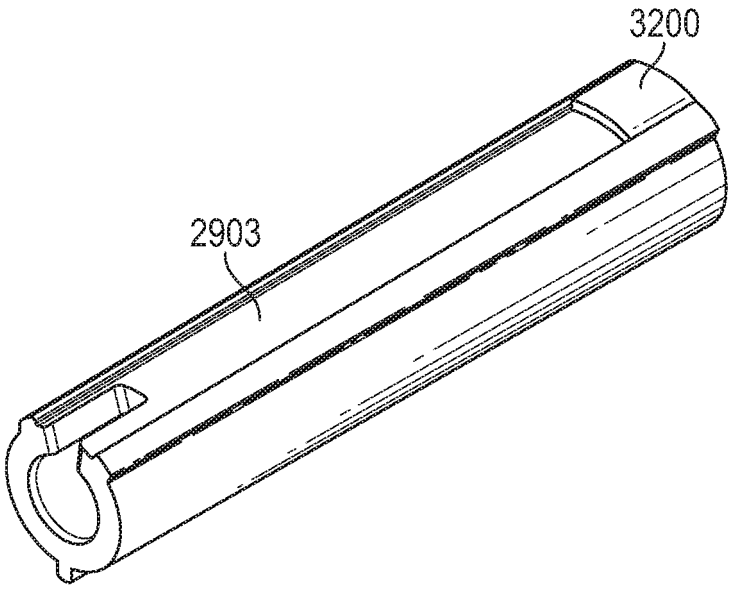


FIG. 28B

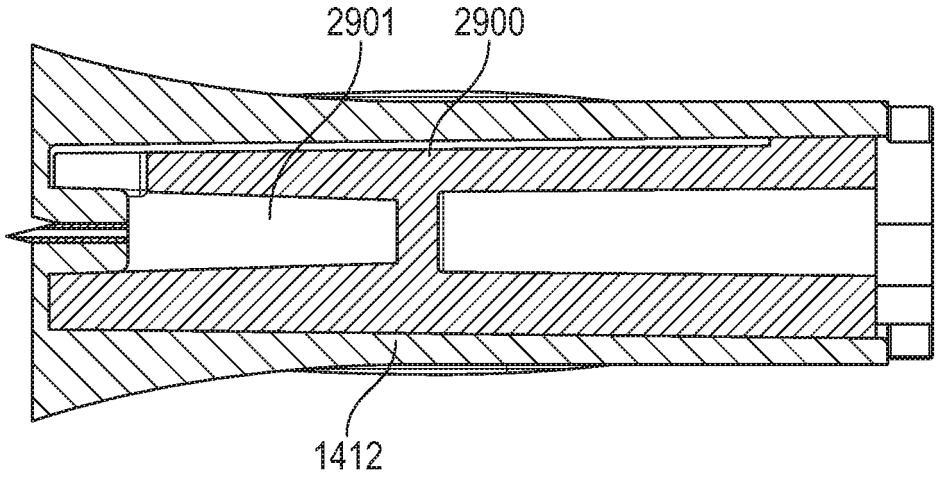


FIG. 29

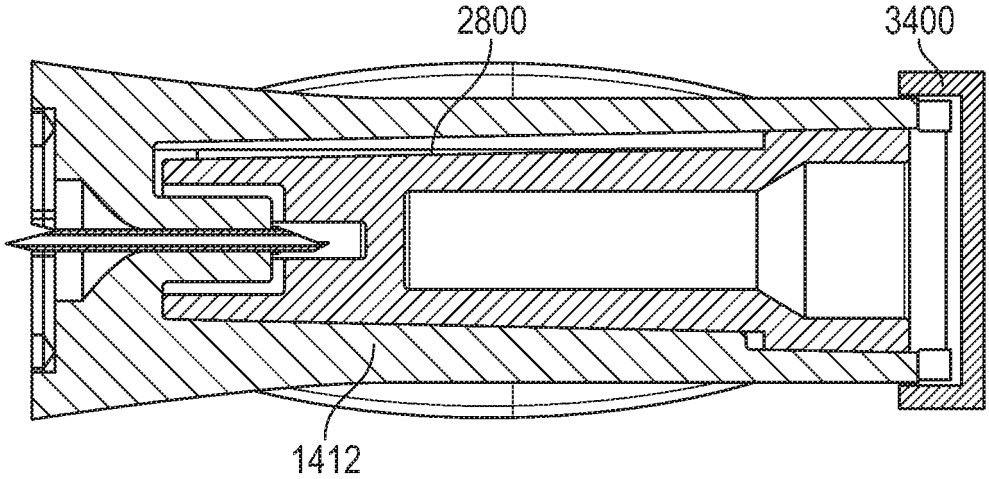


FIG. 30