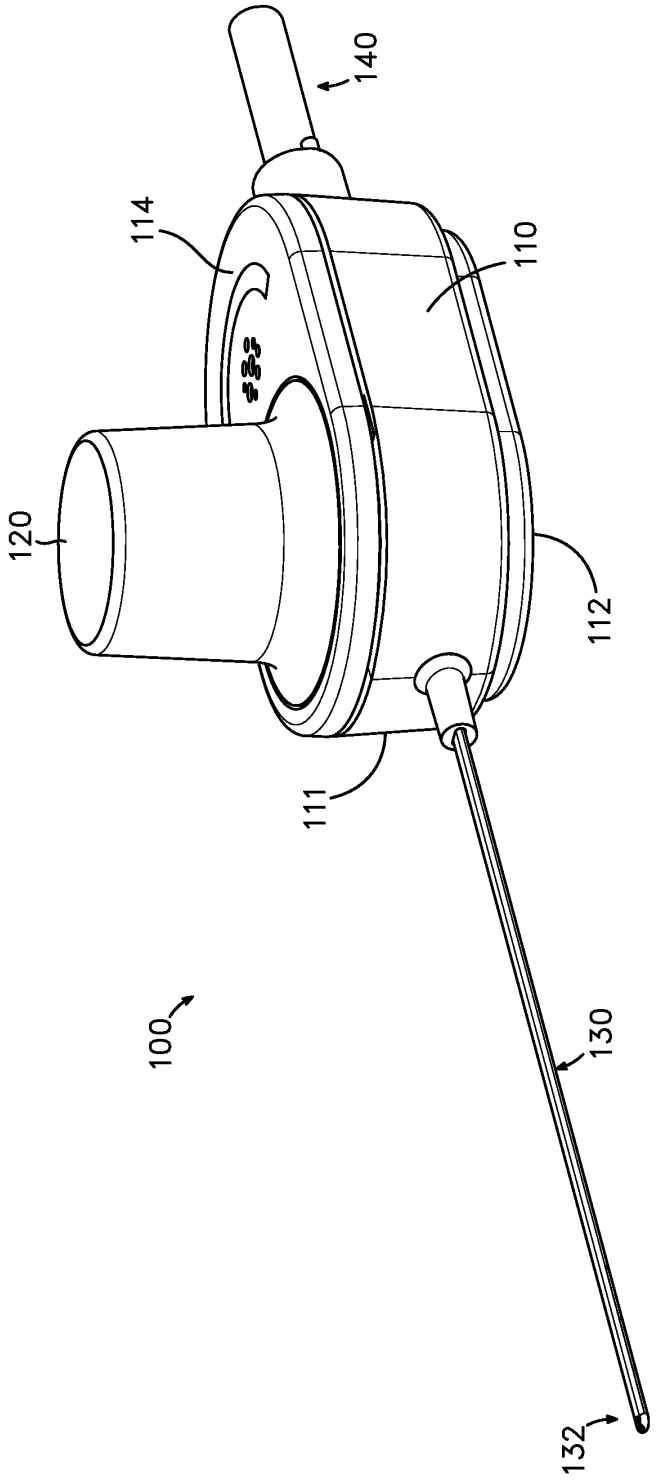


FIG. 1

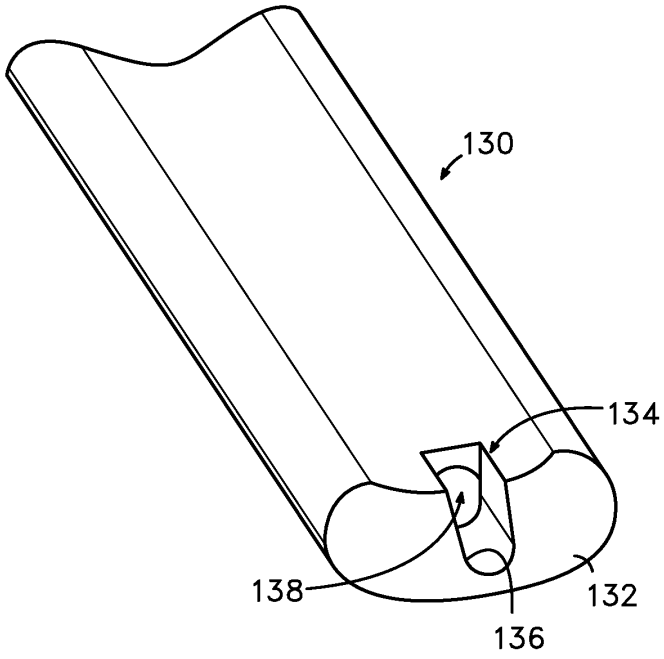


FIG. 2

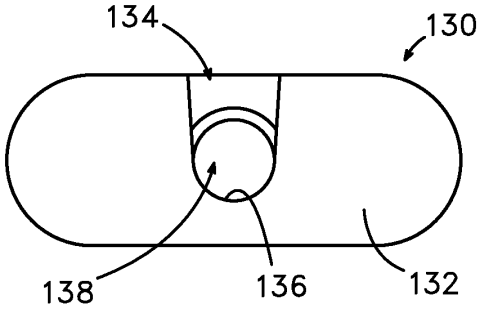


FIG. 3

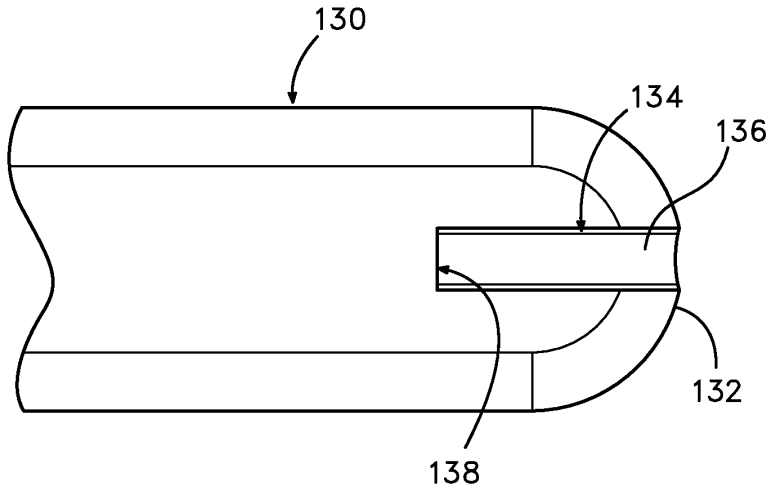


FIG. 4

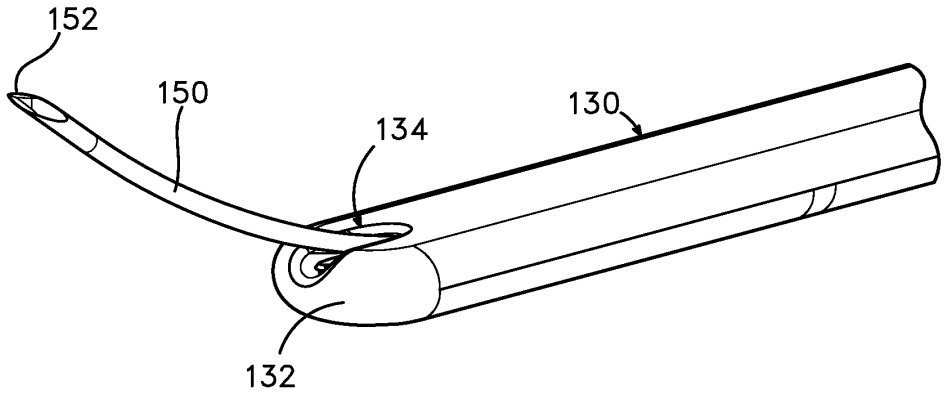


FIG. 5

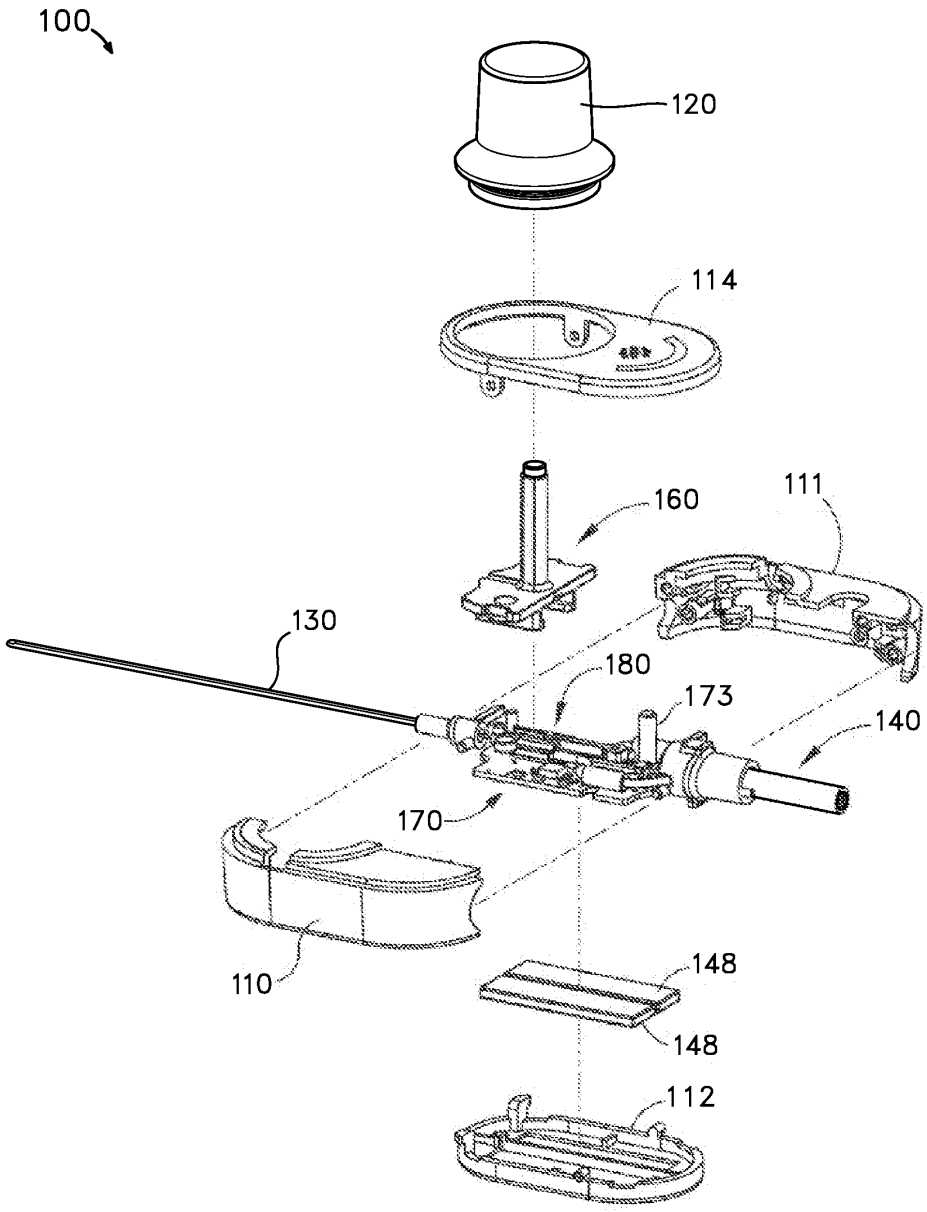


FIG. 6

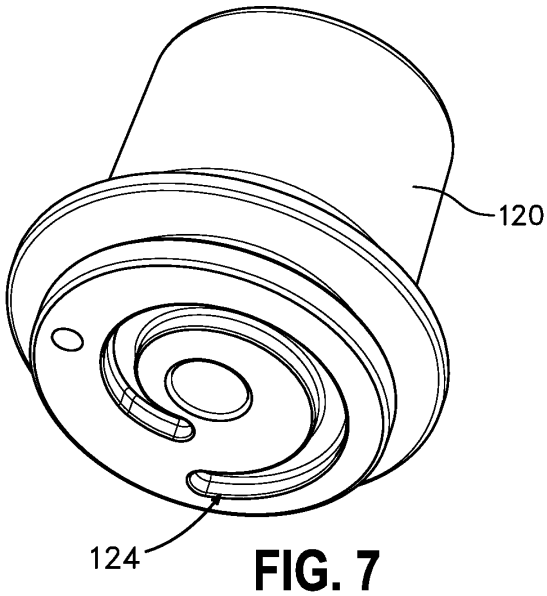


FIG. 7

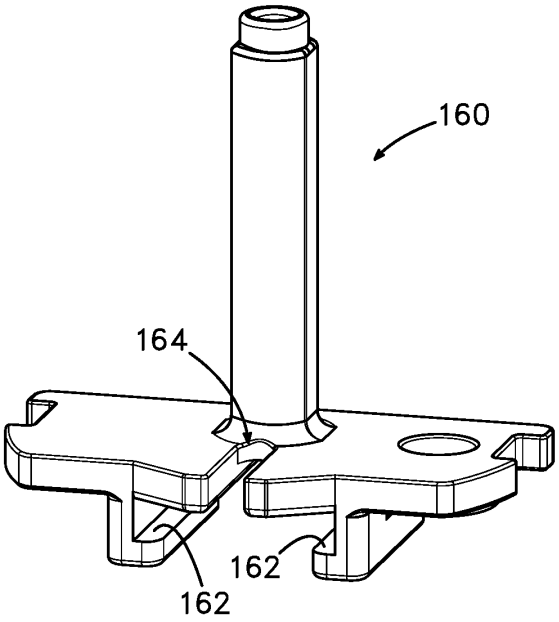


FIG. 8

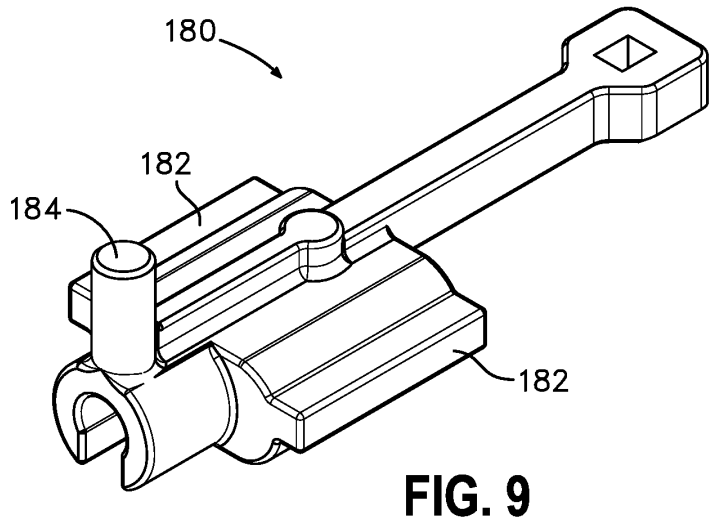


FIG. 9

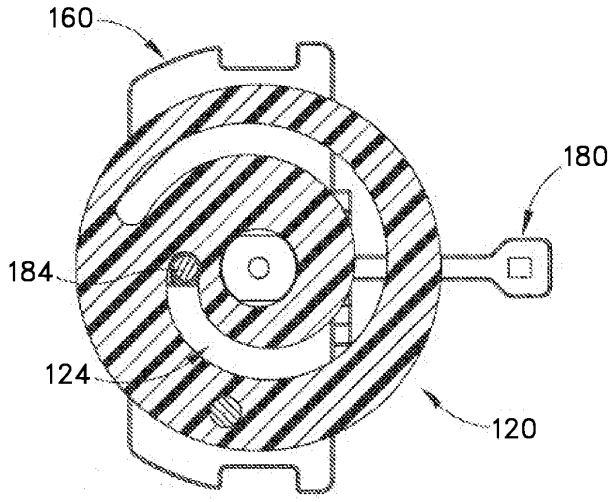


FIG. 10A

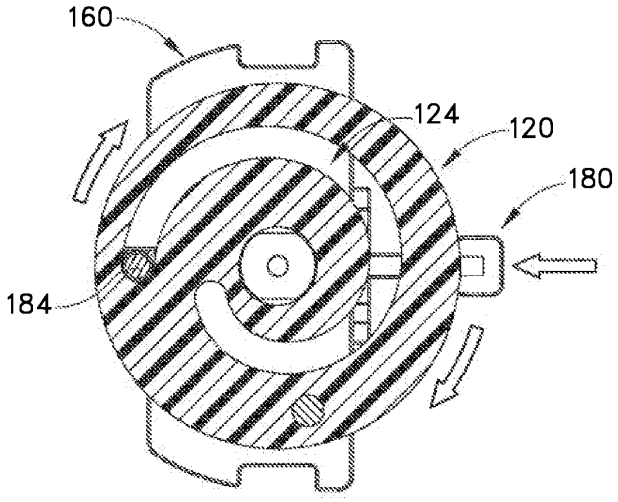


FIG. 10B

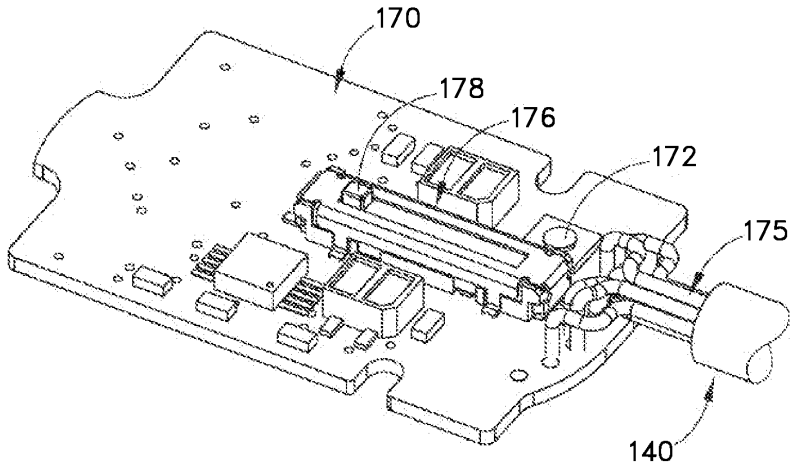


FIG. 11

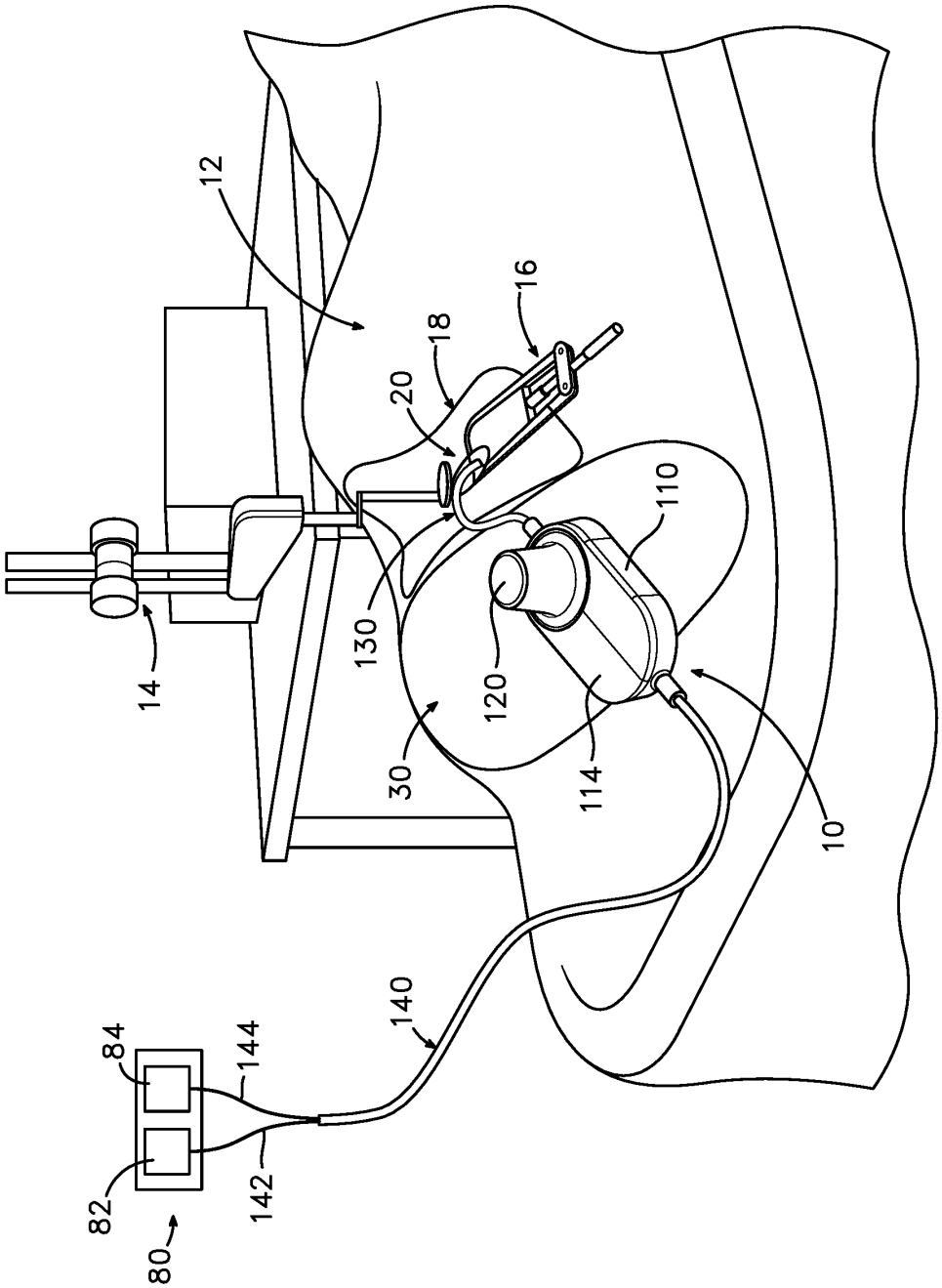


FIG. 12

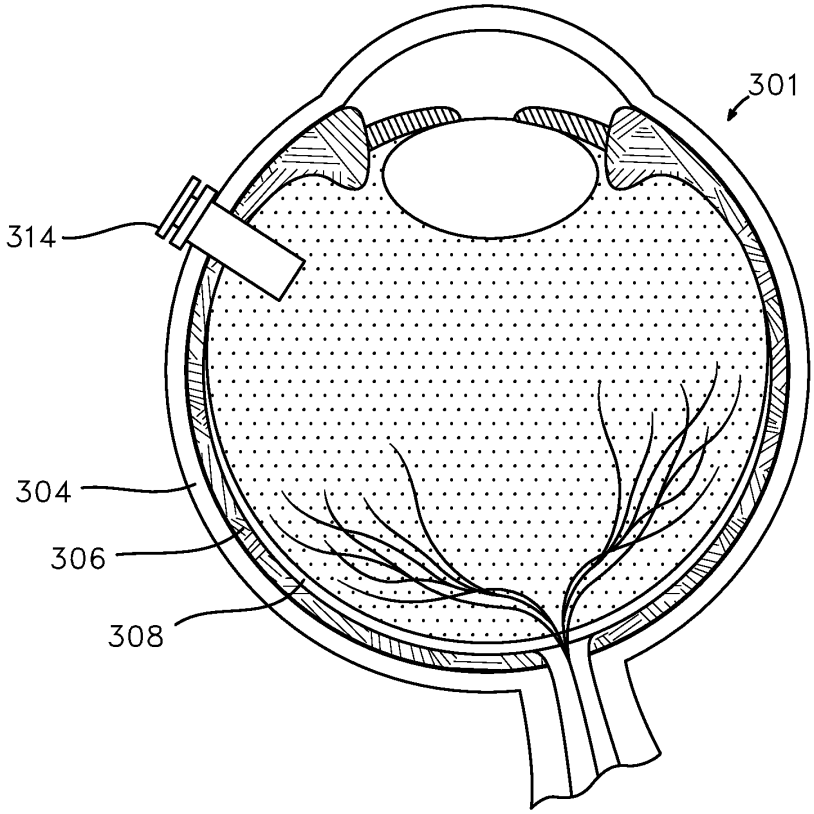


FIG. 13A

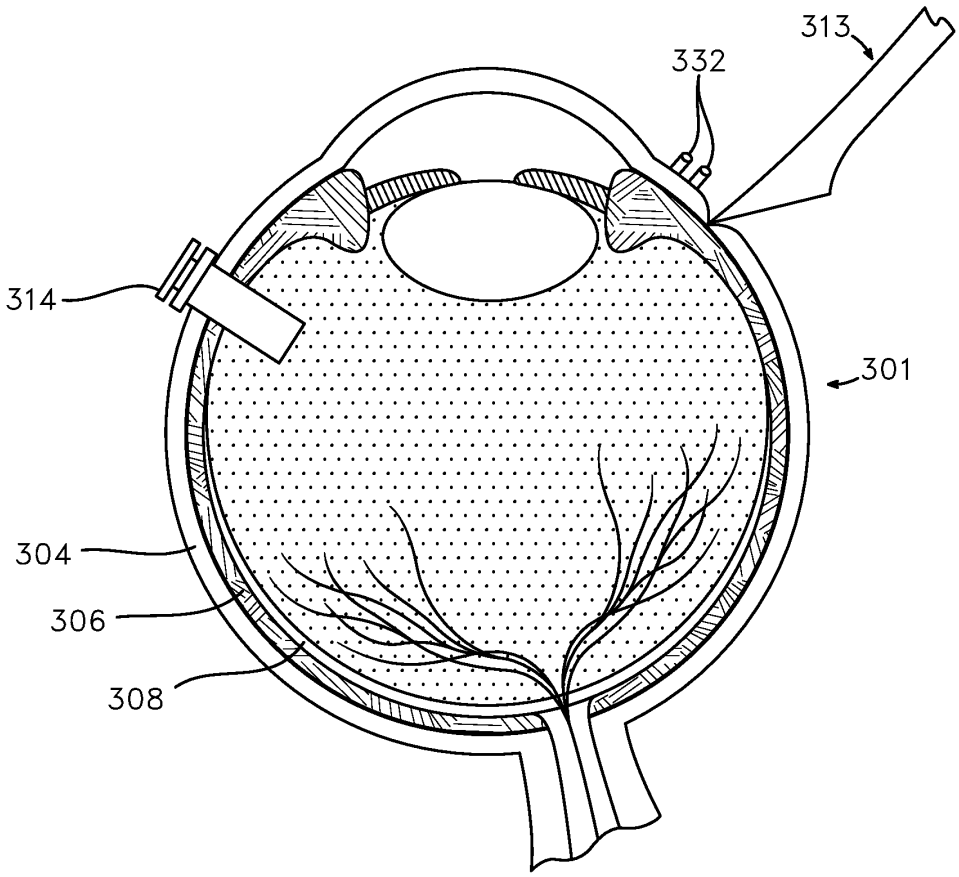


FIG. 13B

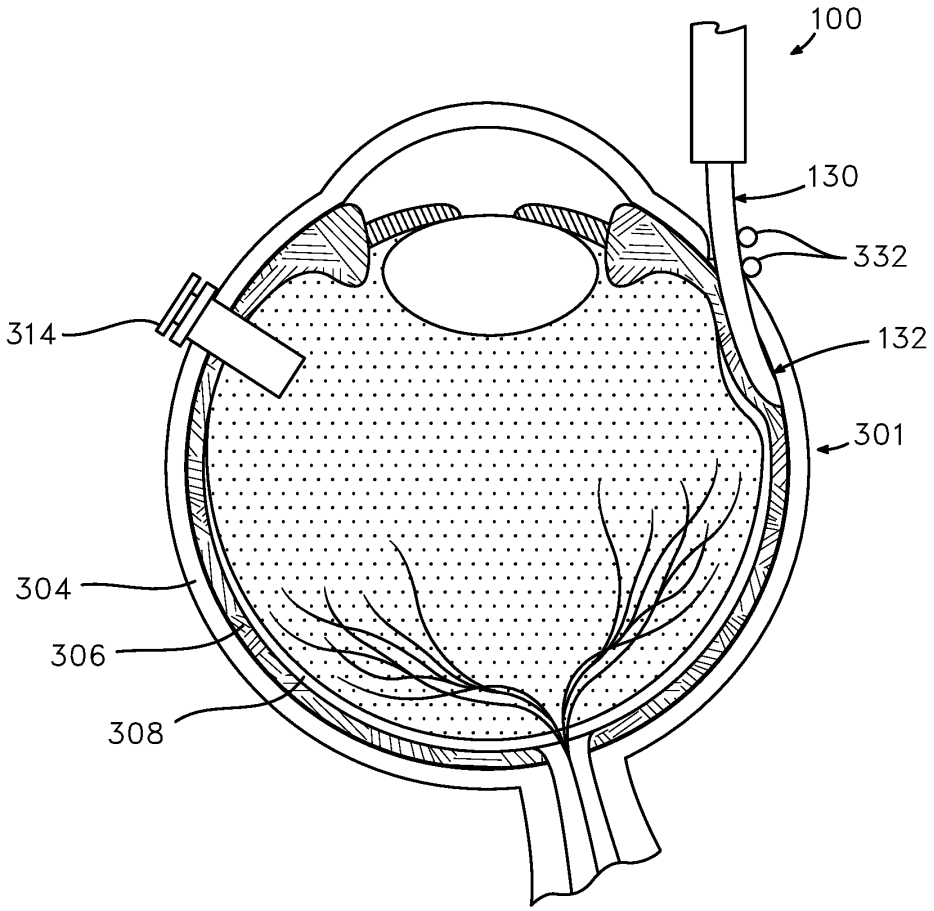


FIG. 13C

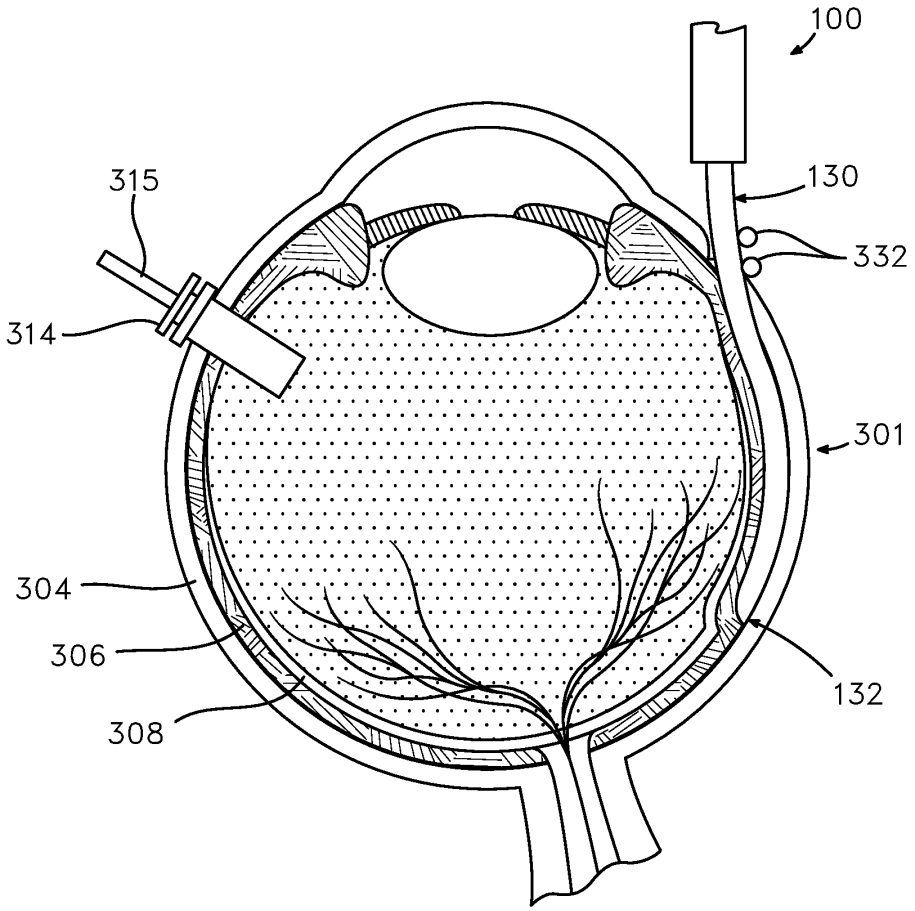


FIG. 13D

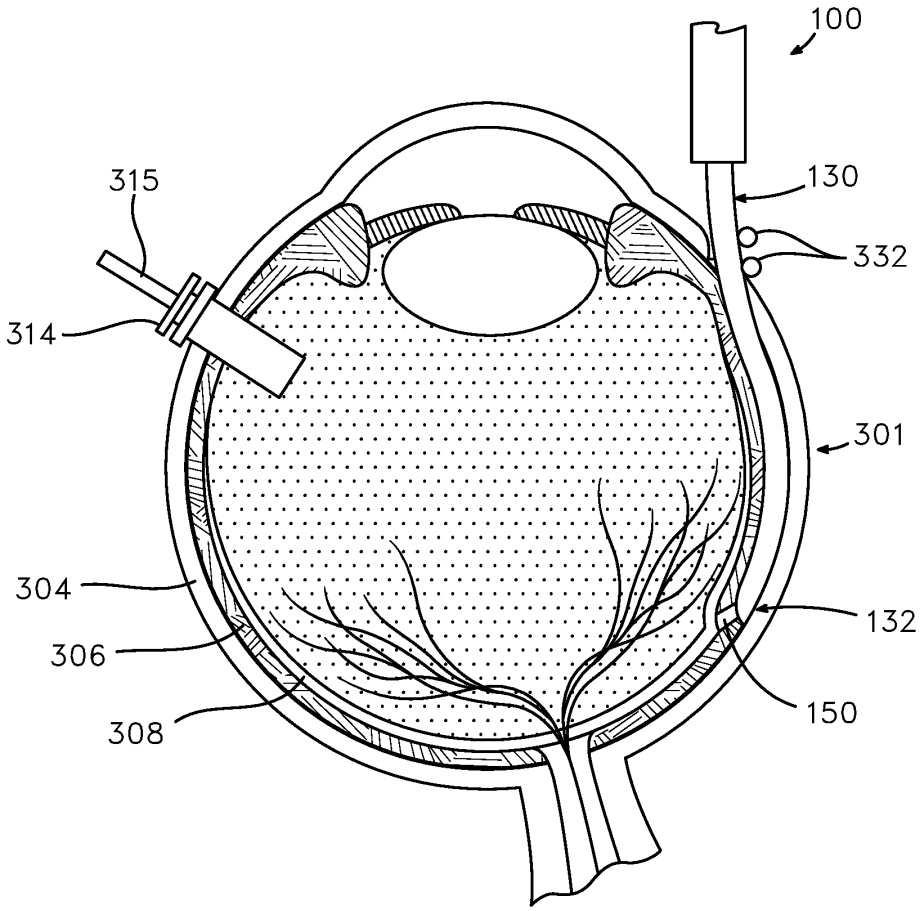


FIG. 13E

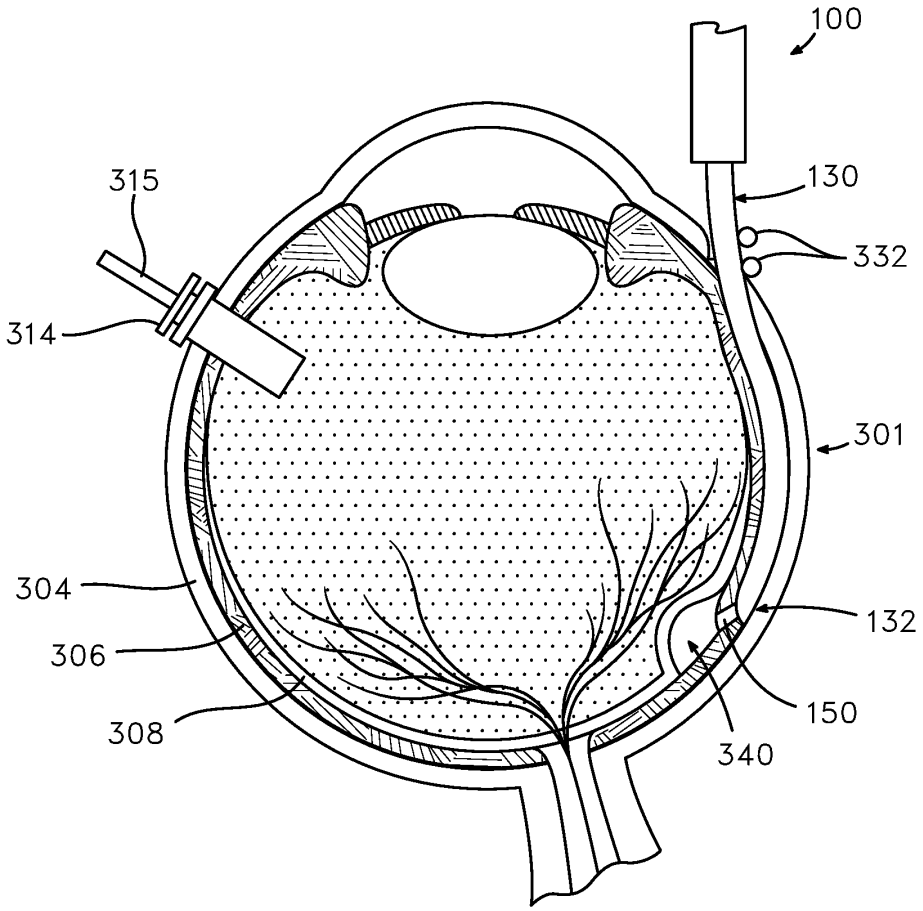


FIG. 13F

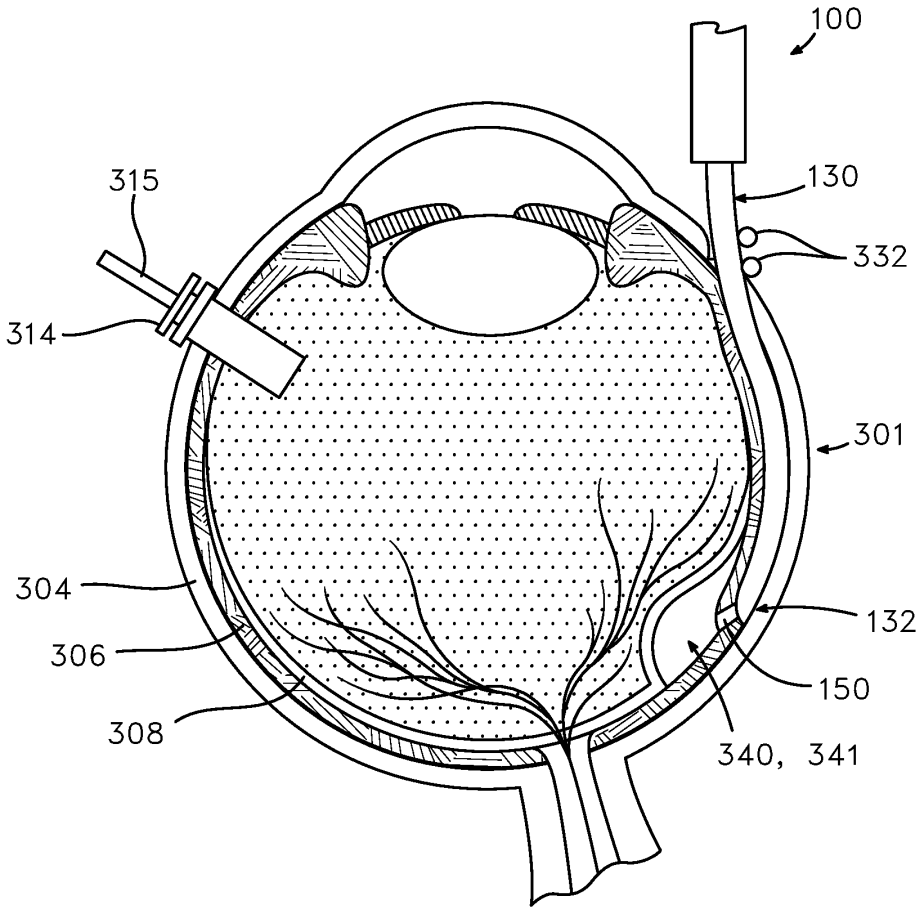


FIG. 13G

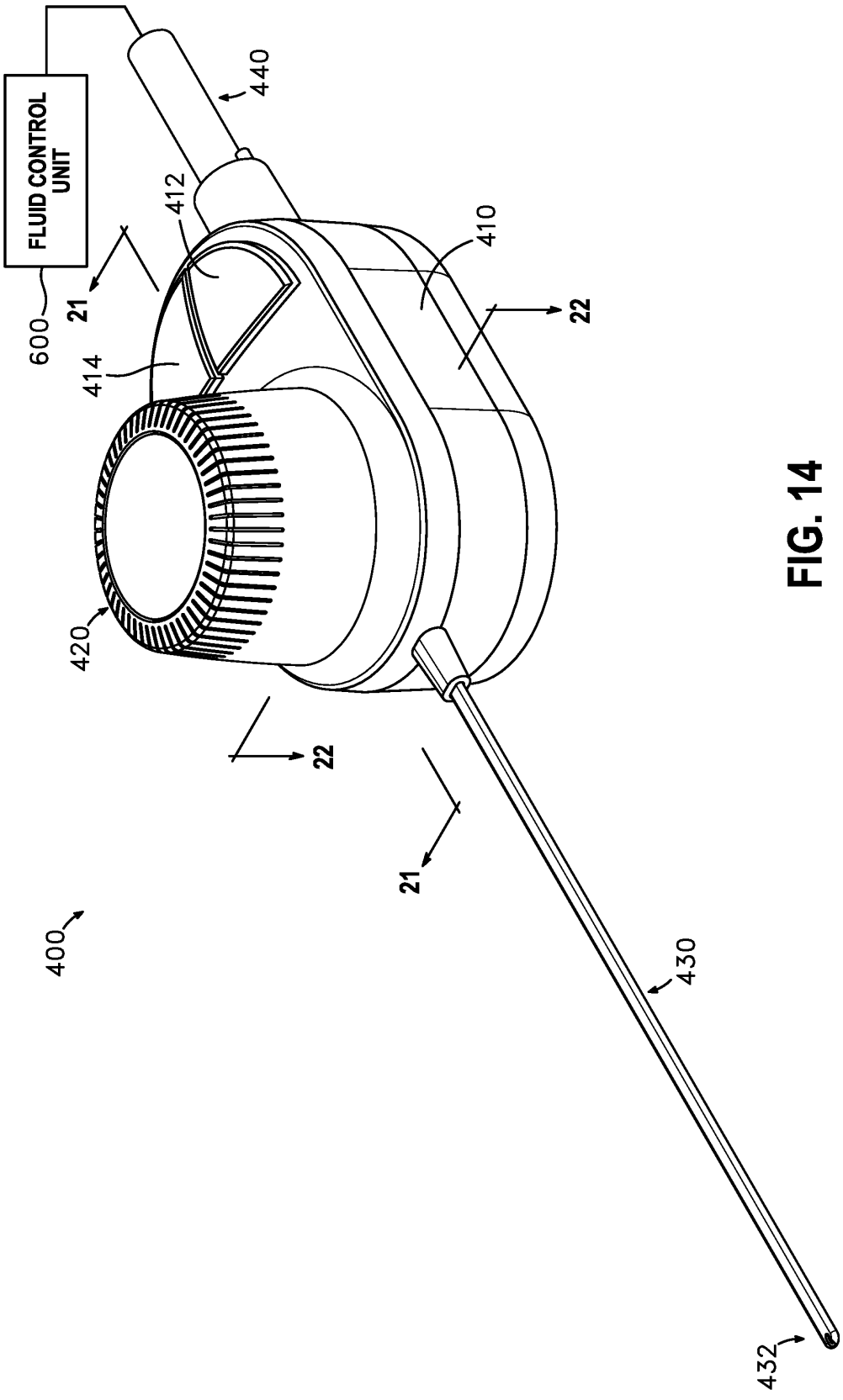

FLUID CONTROL UNIT
600
21
414
412
440
410
22
420
22
21
400
430
432

FIG. 14

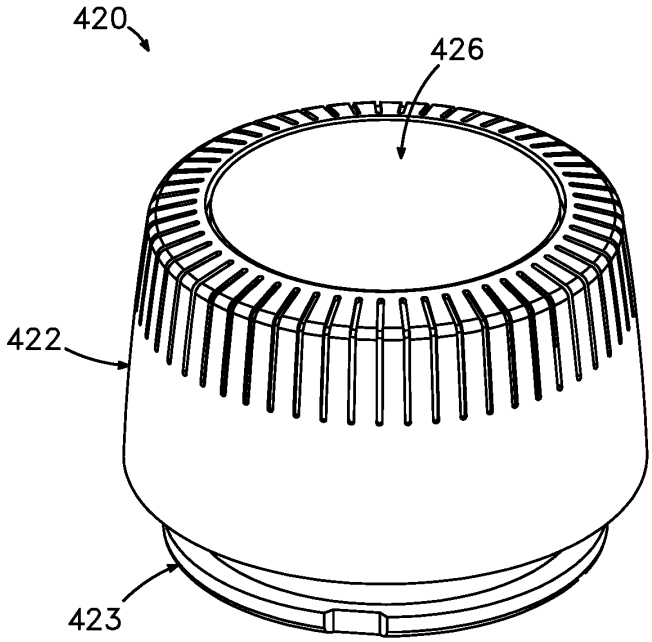


FIG. 15

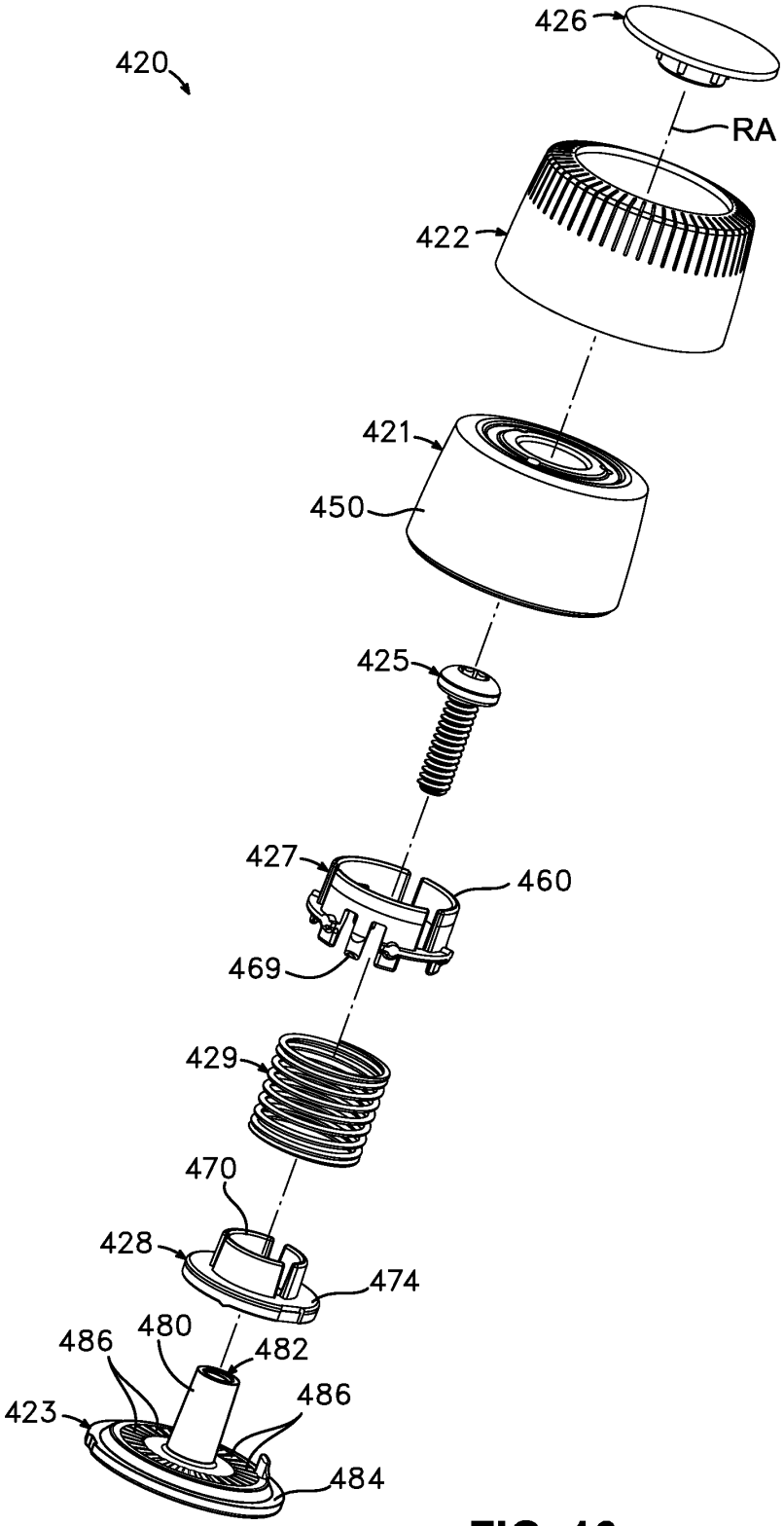

420
426
RA
422
421
450
425
427
460
469
429
470
428
474
480
486
482
423
486
484

FIG. 16

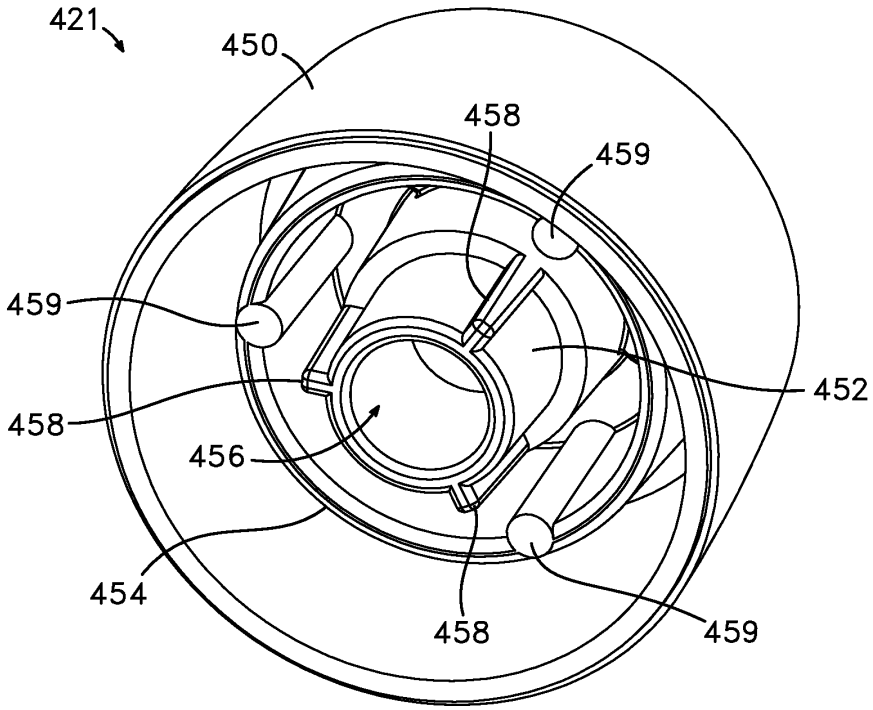

421
450
458
459
459
452
458
456
454
458
459

FIG. 17

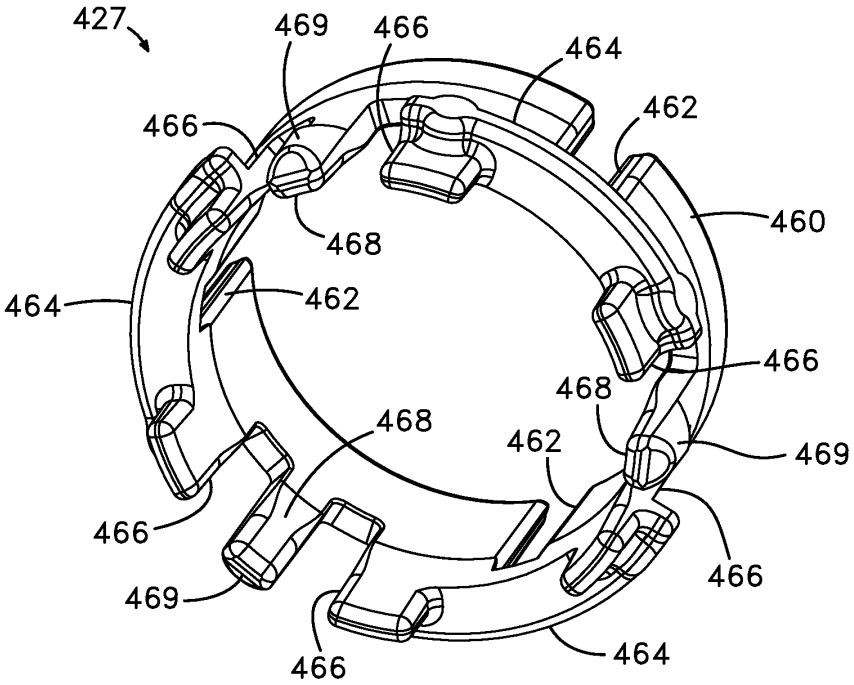

427
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466
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462
460
468
464
462
466
468
468
462
469
466
469
466
464

FIG. 18

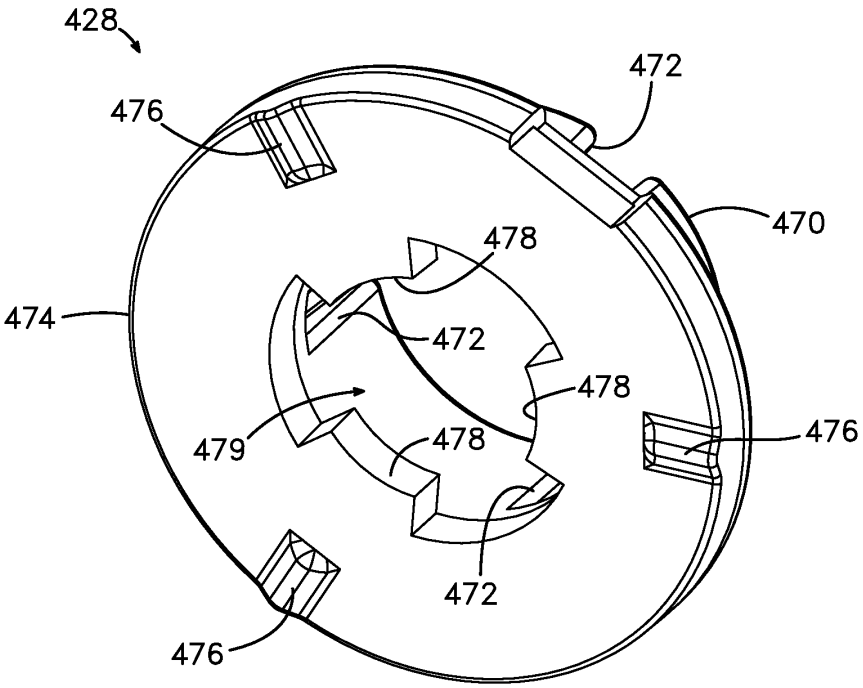

428
472
476
470
478
474
472
478
479
478
476
472
476

FIG. 19

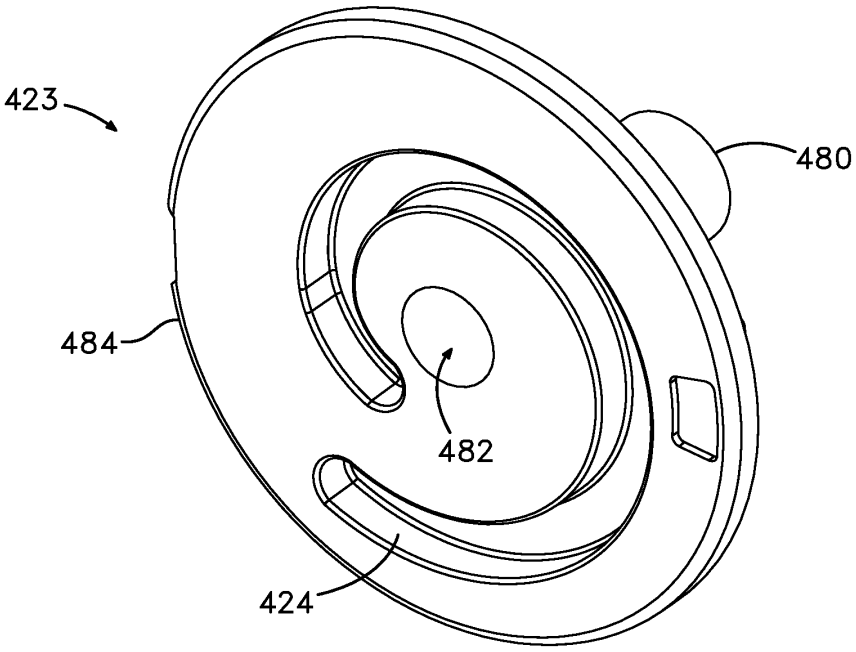

423
480
484
482
424

FIG. 20

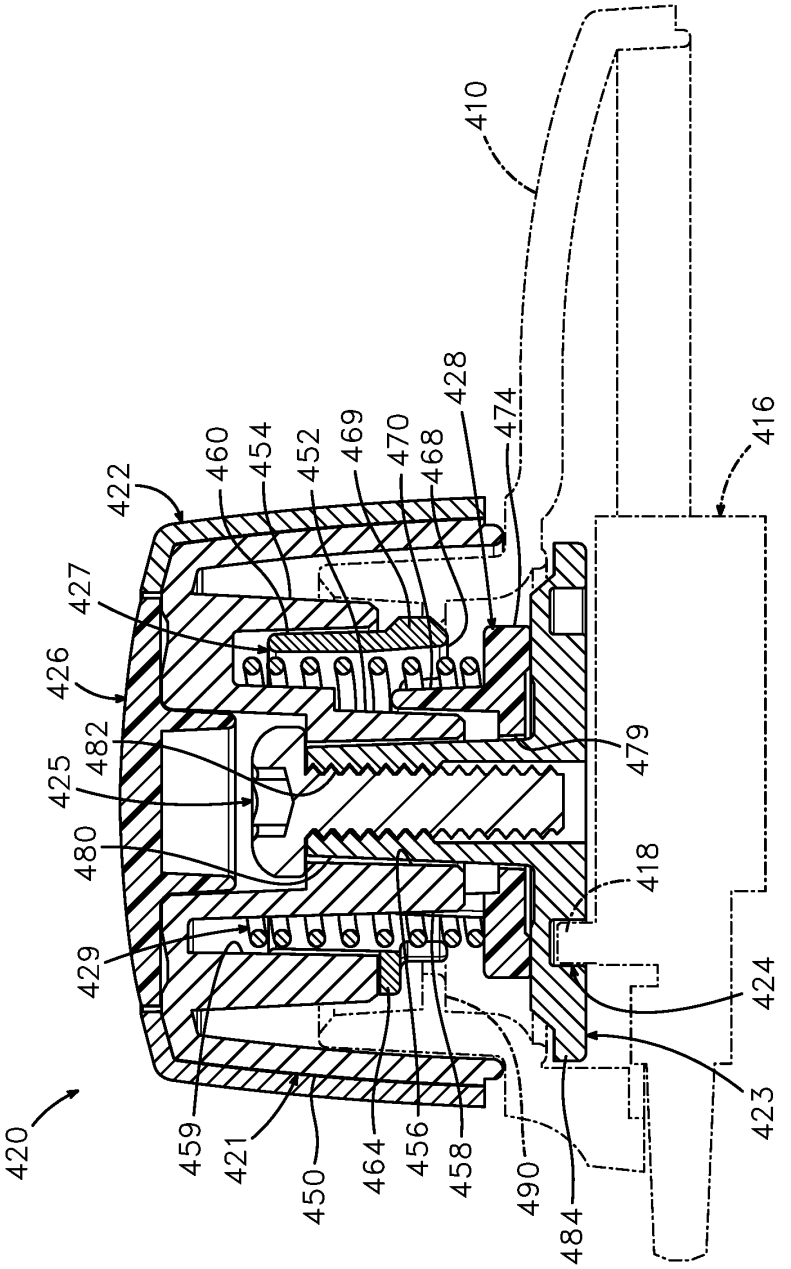

410
416
422
460
454
452
469
470
468
428
474
427
426
482
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480
429
479
418
424
423
420
459
421
450
464
456
458
490
484

FIG. 21A

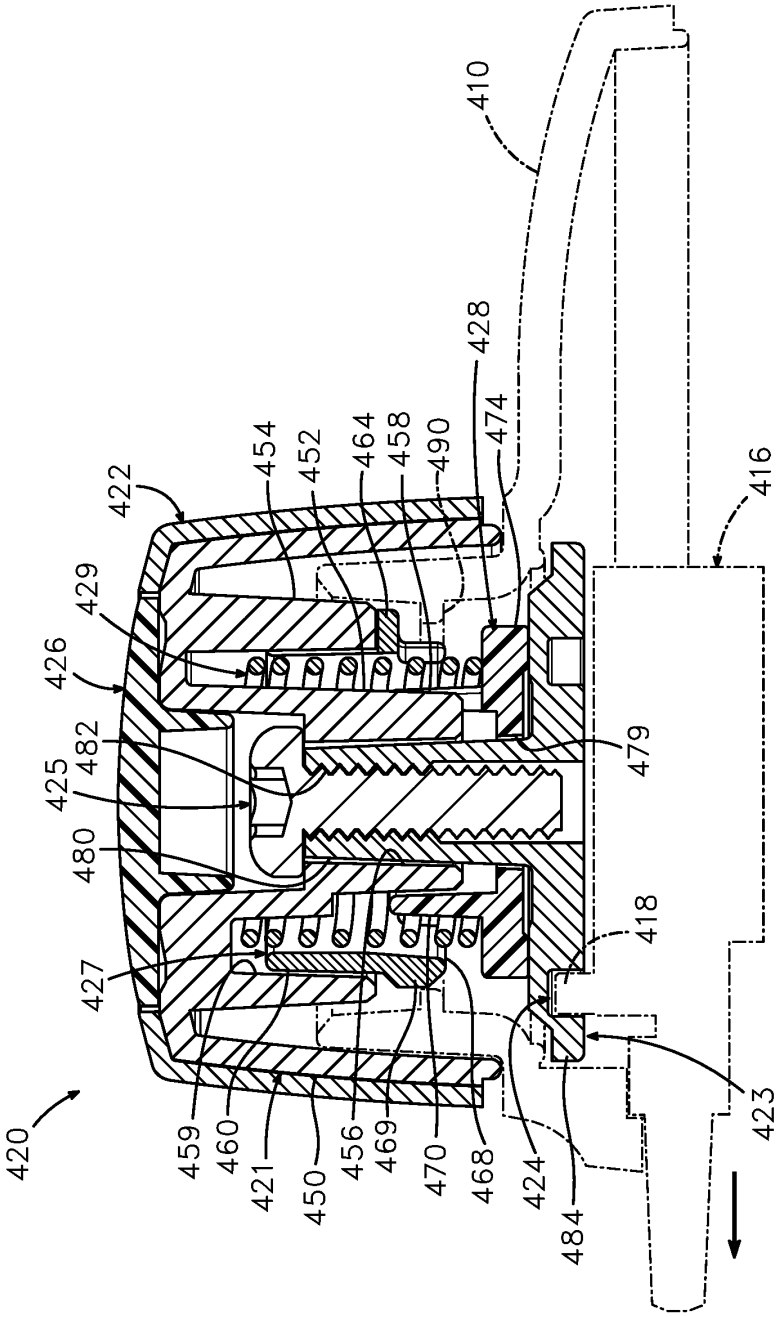

410
428
474
490
458
464
452
454
422
416
429
426
482
425
480
479
418
427
423
420
459
460
421
450
456
469
470
468
424
484

FIG. 21B

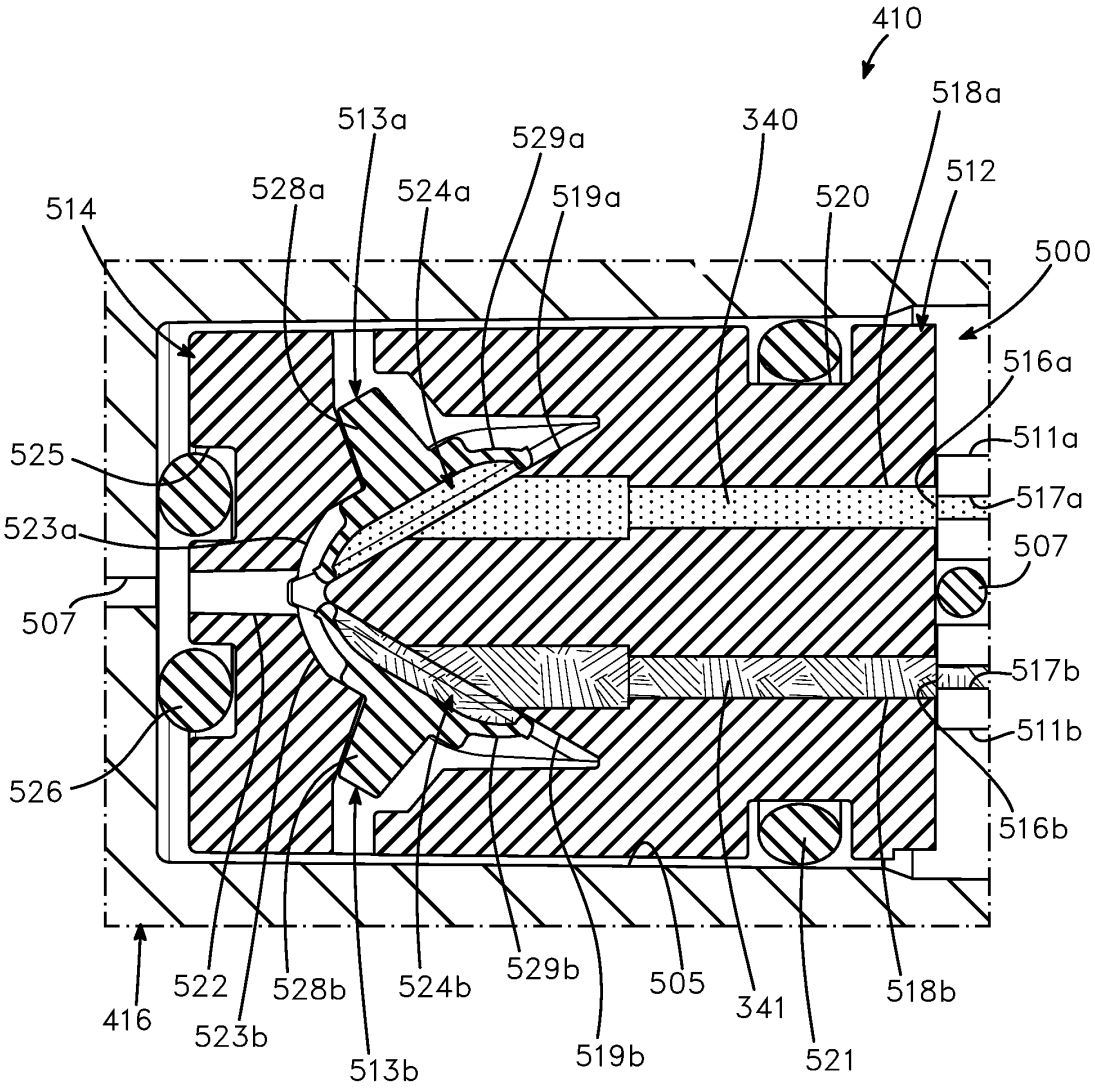

410
518a
513a
529a
340
512
528a
524a
519a
520
514
500
516a
525
511a
517a
523a
507
507
517b
511b
526
516b
522
528b
524b
529b
505
341
518b
416
523b
513b
519b
521

FIG. 22A

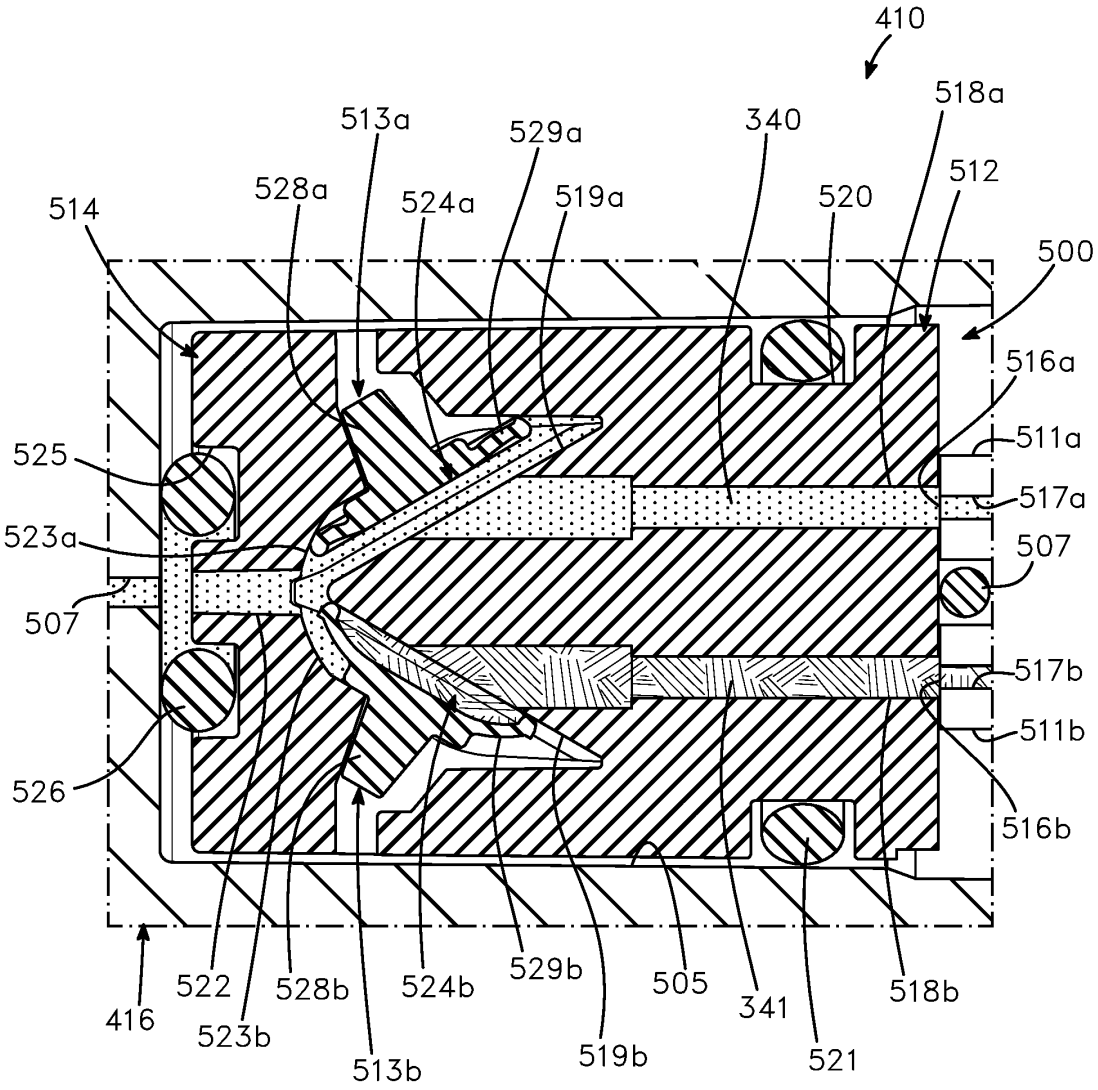

410
518a
513a
529a
340
512
528a
524a
519a
520
514
500
516a
525
511a
517a
523a
507
507
517b
511b
526
516b
522
528b
524b
529b
505
341
518b
416
523b
513b
519b
521

FIG. 22B

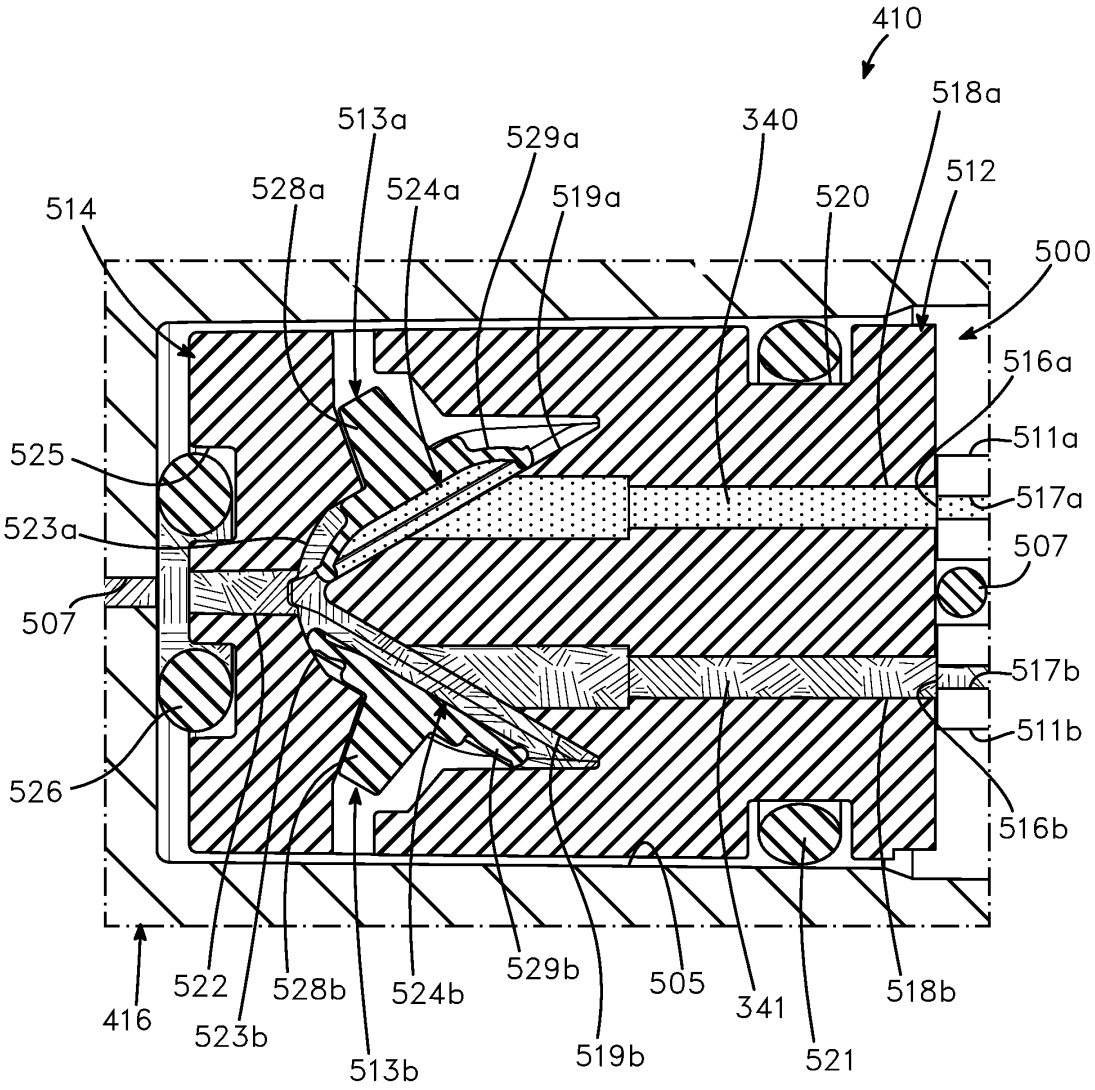

410
518a
513a
529a
340
512
528a
524a
519a
520
514
500
516a
525
511a
517a
523a
507
507
517b
511b
526
516b
522
528b
524b
529b
505
341
518b
416
523b
513b
519b
521

FIG. 22C

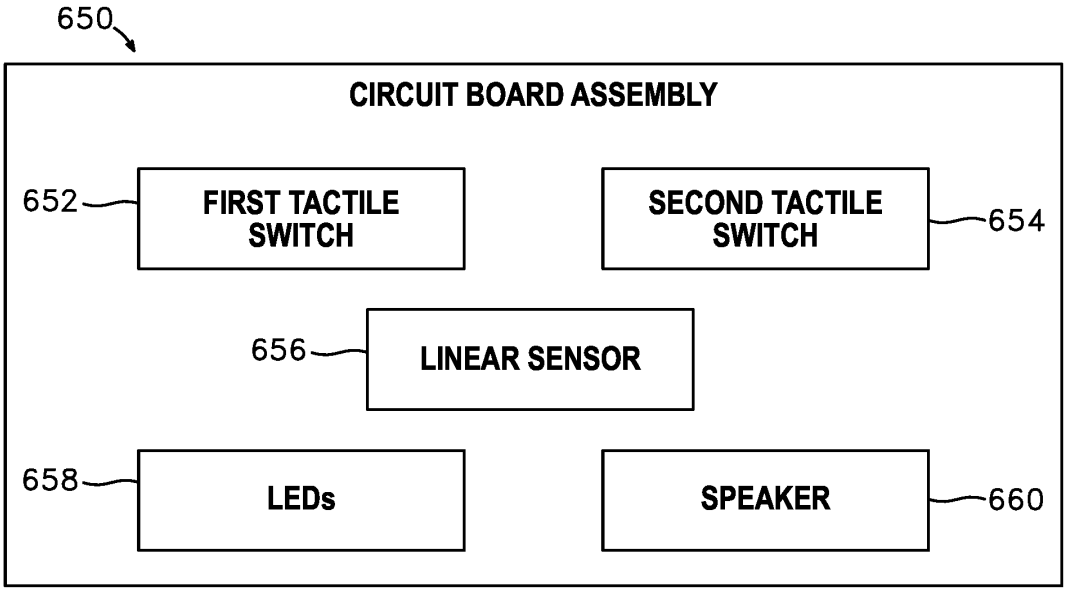

650
CIRCUIT BOARD ASSEMBLY
652
FIRST TACTILE SWITCH
SECOND TACTILE SWITCH
654
656
LINEAR SENSOR
658
LEDs
SPEAKER
660

FIG. 23

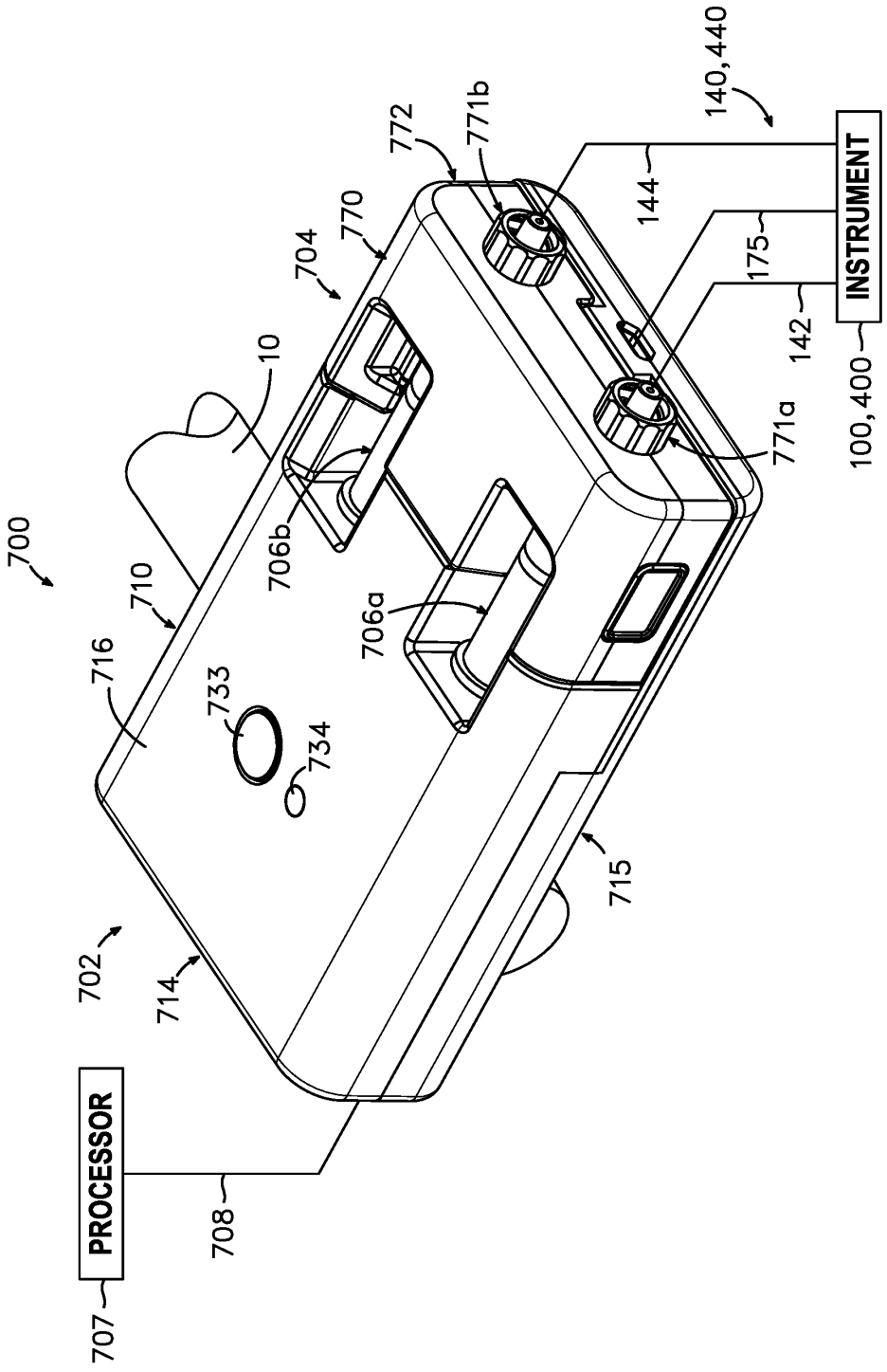

700
10
704
770
772
771b
140, 440
144
175
142
INSTRUMENT
100, 400
771a
706b
706a
710
716
733
734
715
702
714
PROCESSOR
707
708

FIG. 24

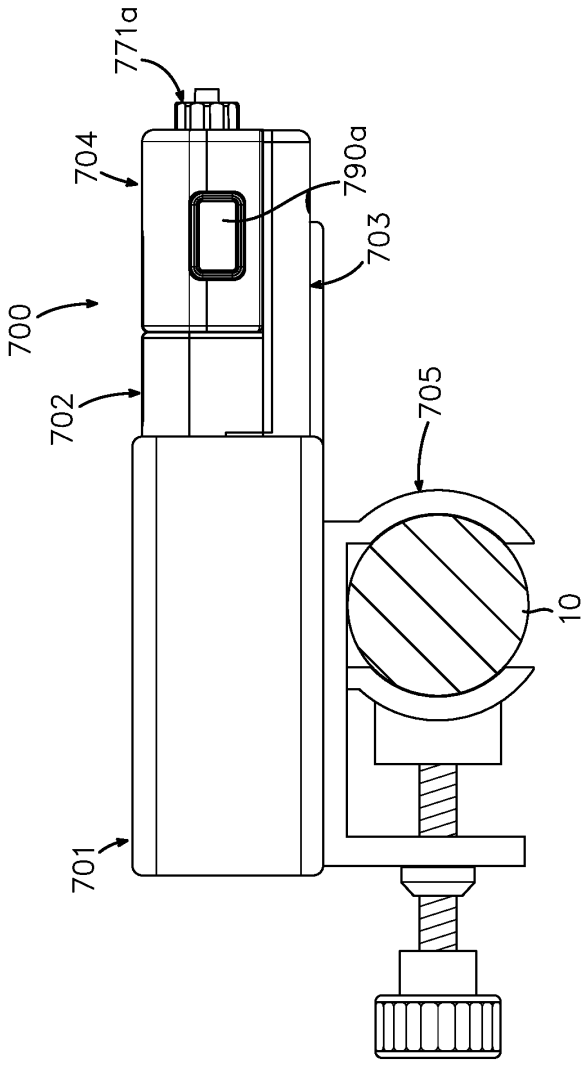


FIG. 24A

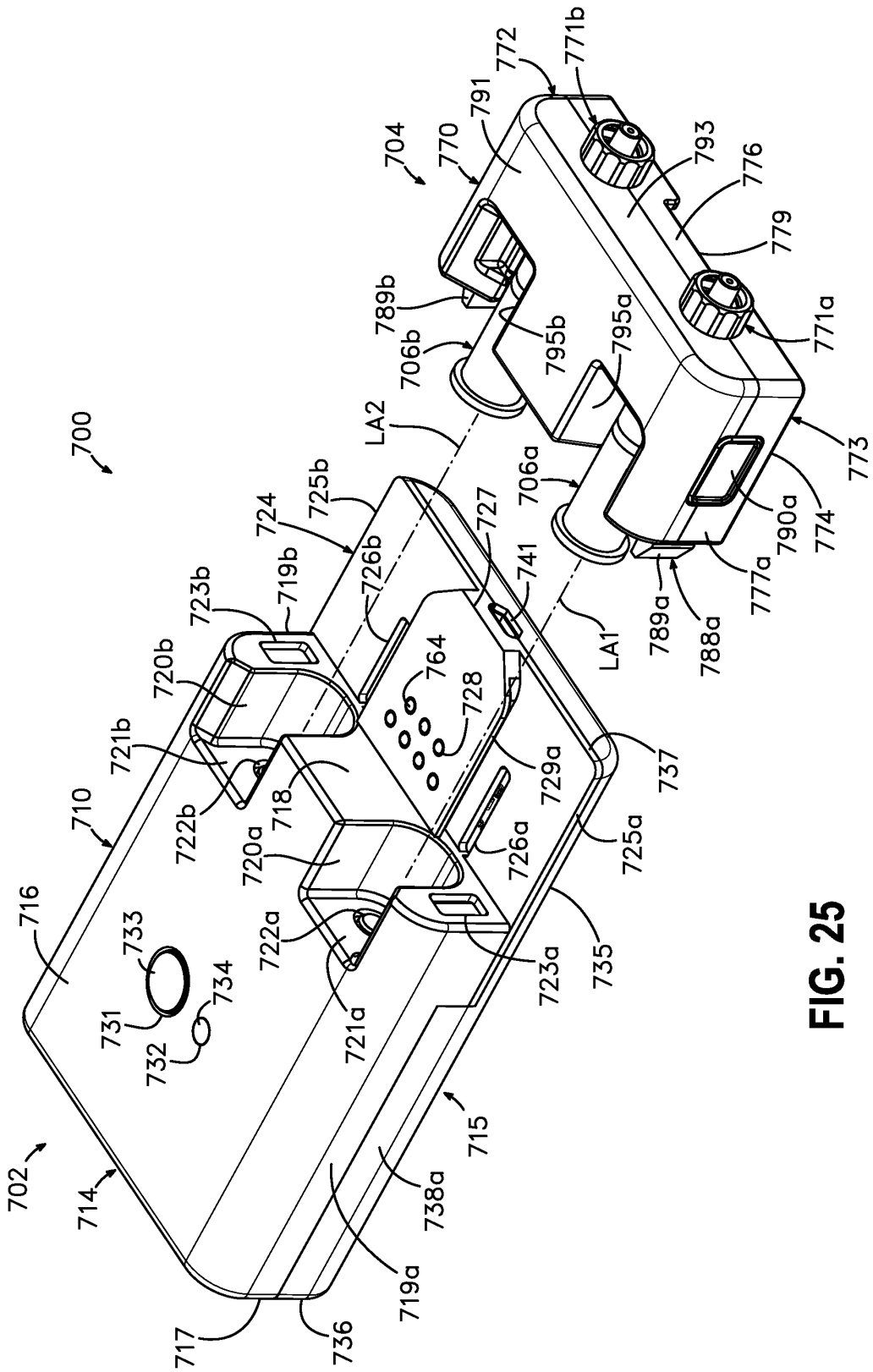

700
702
704
710
714
715
716
717
718
719a
719b
720a
720b
721a
721b
722a
722b
723a
723b
724
725a
725b
726a
726b
727
728
729a
731
732
733
734
735
736
737
738a
741
764
770
771a
771b
772
773
774
776
777a
779
788a
789a
789b
790a
791
793
795a
795b
706a
706b
LA1
LA2

FIG. 25

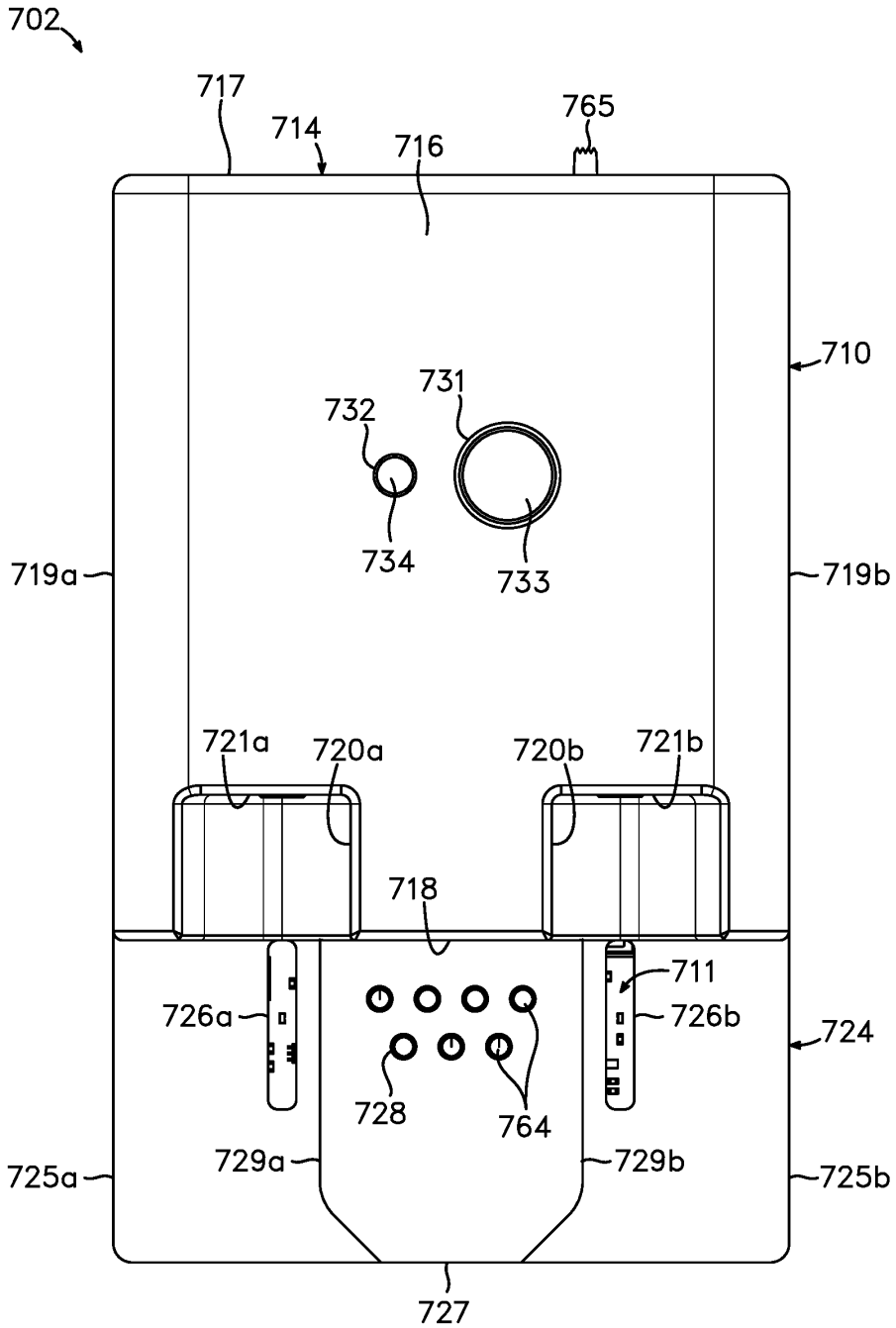

702
717
714
716
765
710
731
732
734
733
719a
719b
721a
720a
720b
721b
718
711
726a
726b
724
728
764
729a
729b
725a
725b
727

FIG. 26

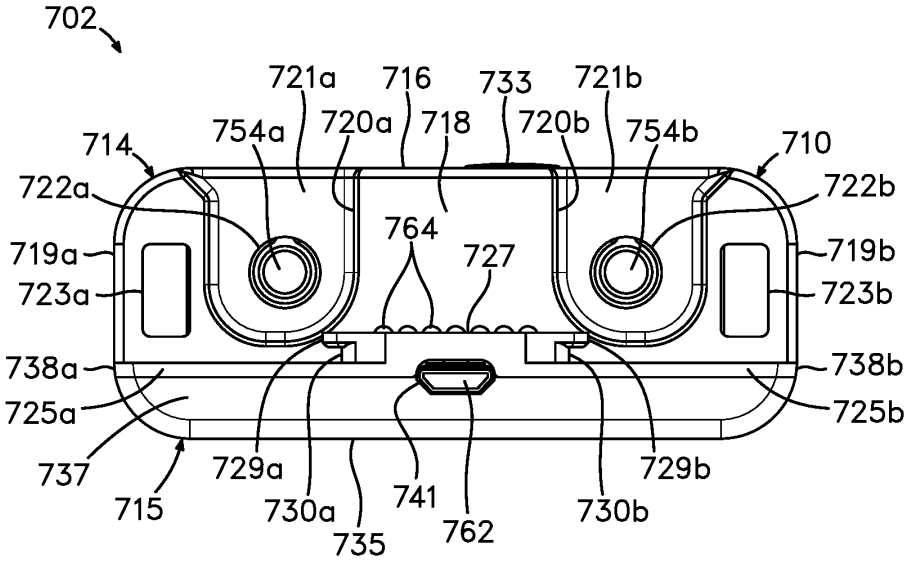

702
721a
716
733
721b
754a
720a
718
720b
754b
714
710
722a
722b
764
719a
727
719b
723a
723b
738a
738b
725a
725b
737
729a
729b
715
730a
741
730b
735
762

FIG. 27

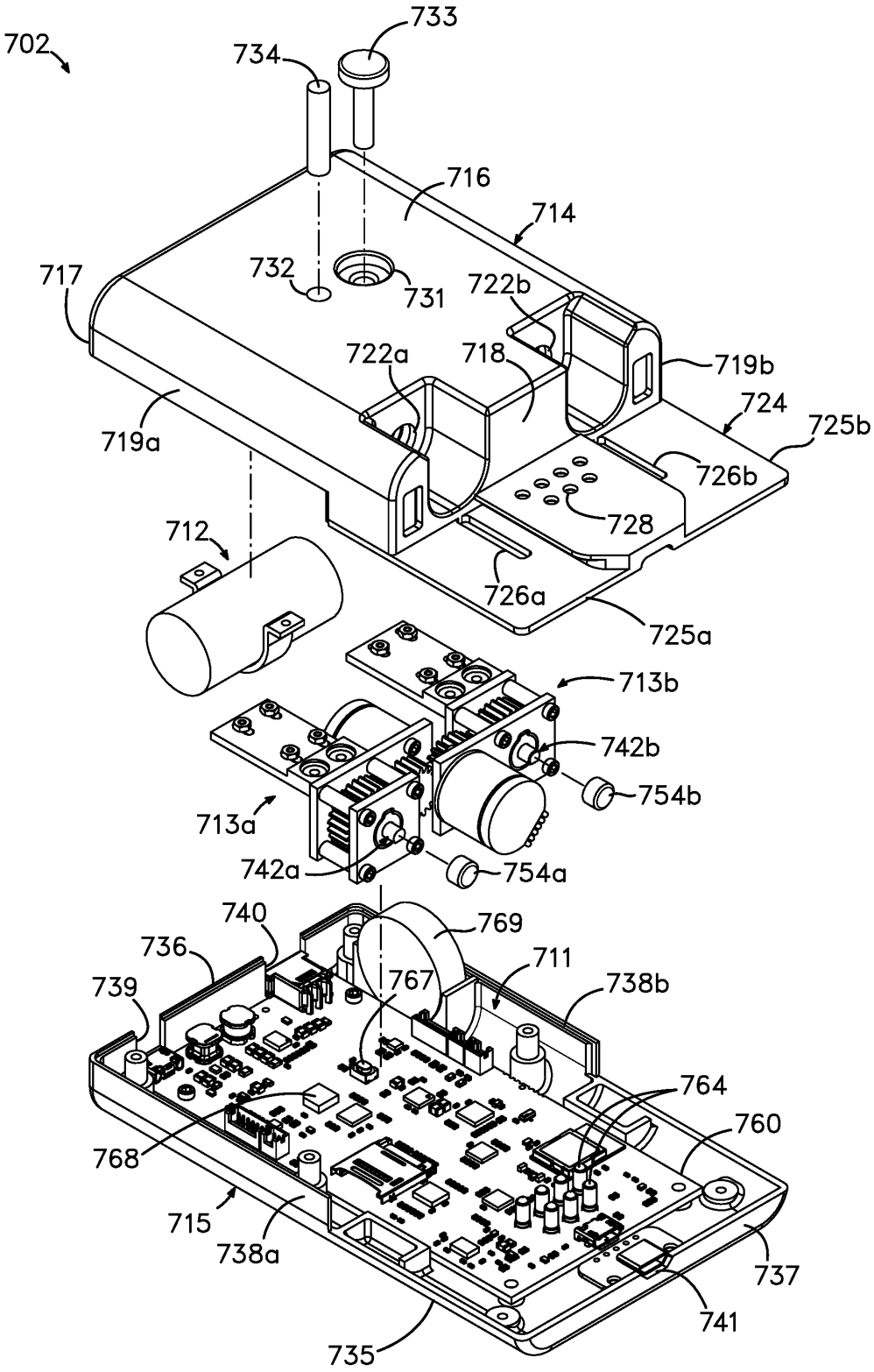

702
733
734
716
714
717
732
731
722b
722a
718
719b
724
725b
719a
726b
728
712
726a
725a
713b
742b
754b
713a
742a
754a
740
769
736
711
739
767
738b
764
760
768
715
738a
737
741
735

FIG. 28

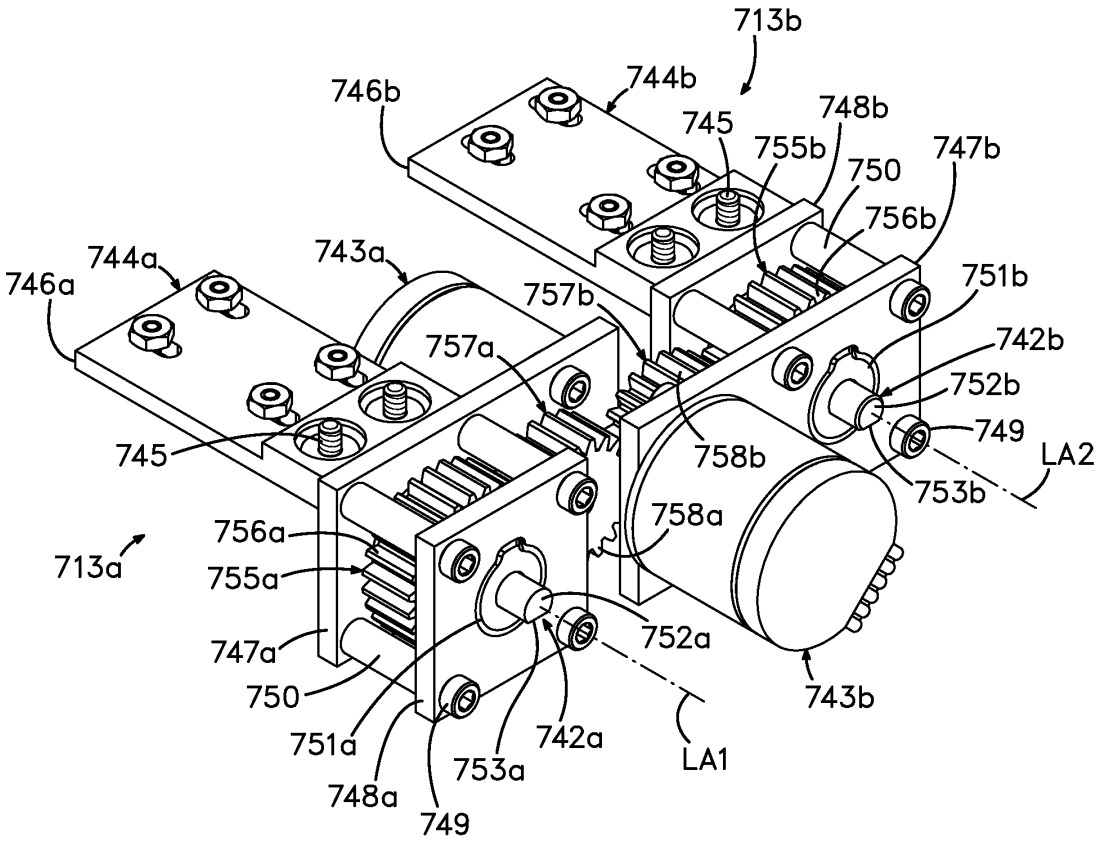

713b
744b
746b
745
748b
755b
750
747b
756b
744a
743a
746a
751b
757b
742b
757a
752b
749
745
758b
LA2
753b
758a
756a
713a
755a
752a
747a
743b
750
751a
742a
LA1
753a
748a
749

FIG. 29

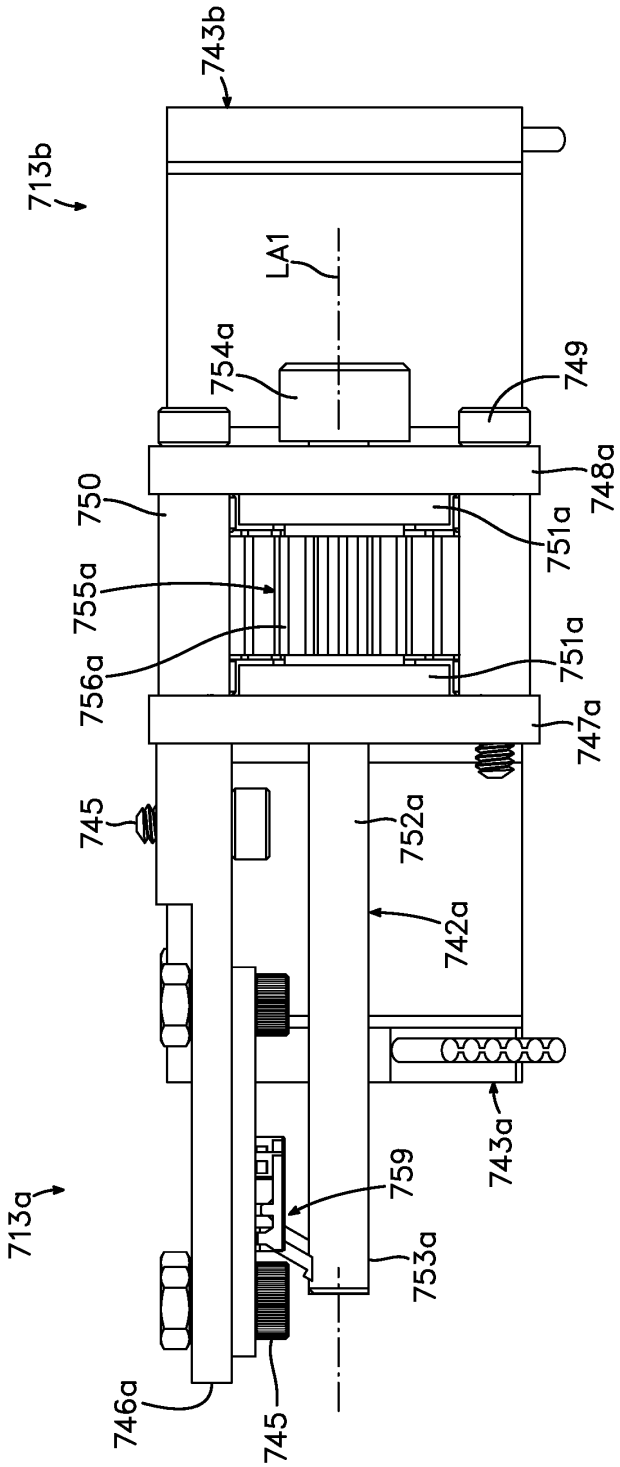

743b
713b
LA1
754a
749
748a
750
751a
755a
756a
751a
747a
745
752a
742a
743a
759
713a
753a
746a
745

FIG. 30

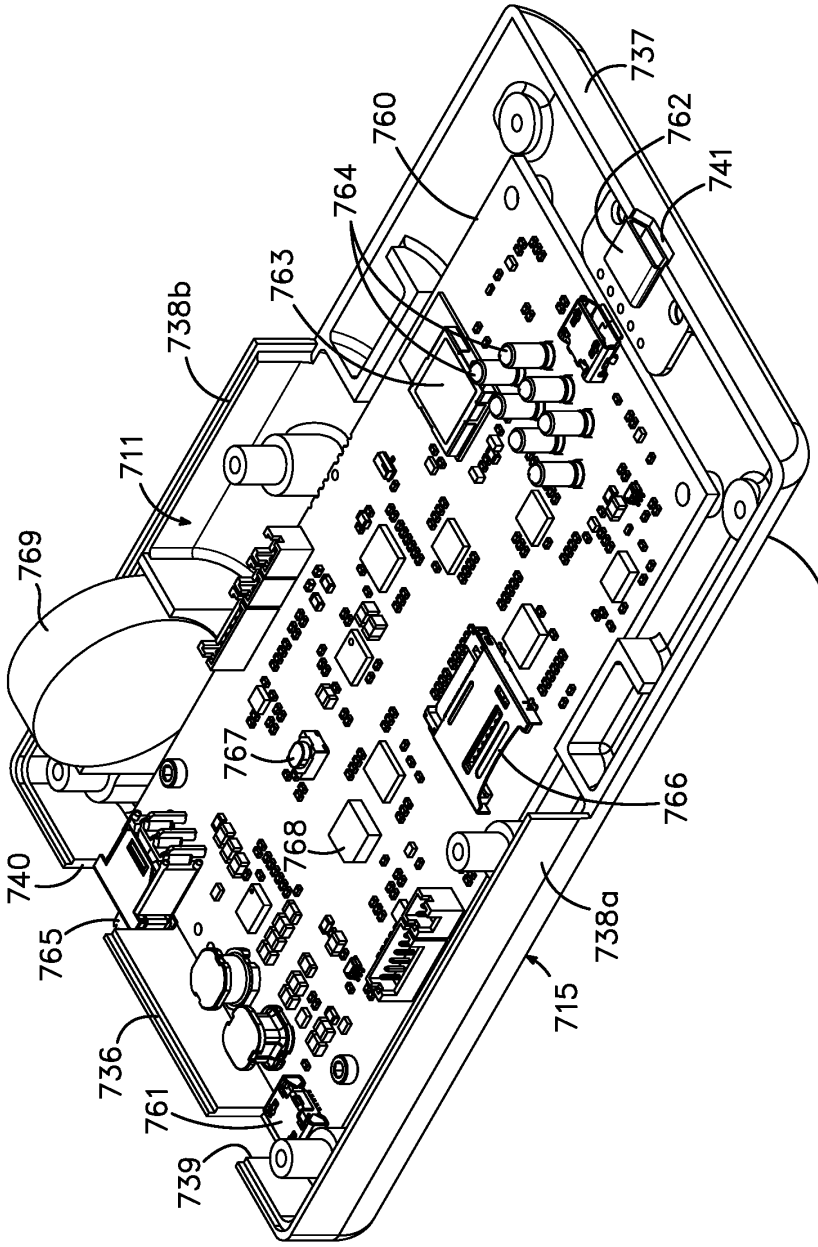

737
760
762
764
741
763
738b
711
769
735
767
766
768
740
738a
765
715
736
761
739

FIG. 31

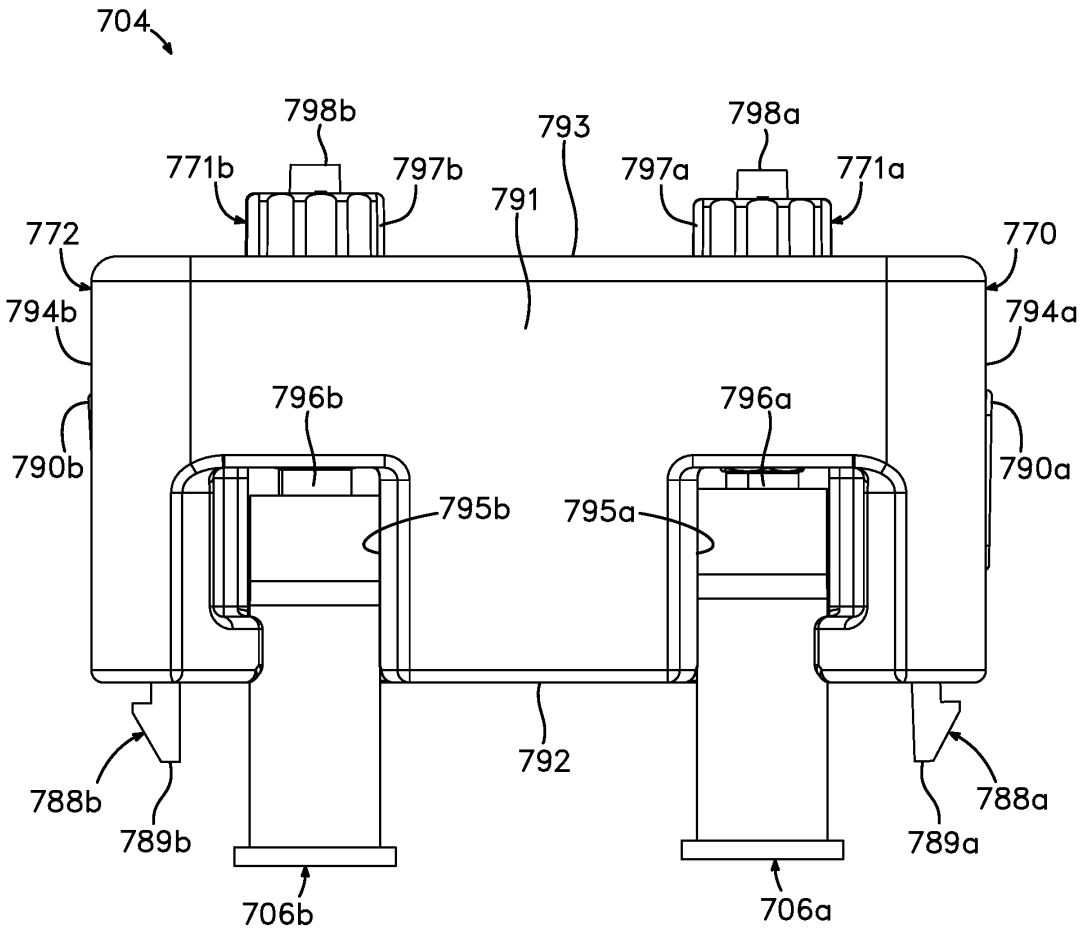

704
798b
793
798a
771b
797b
797a
771a
791
772
770
794b
794a
796b
796a
790b
790a
795b
795a
792
788b
788a
789b
789a
706b
706a

FIG. 32

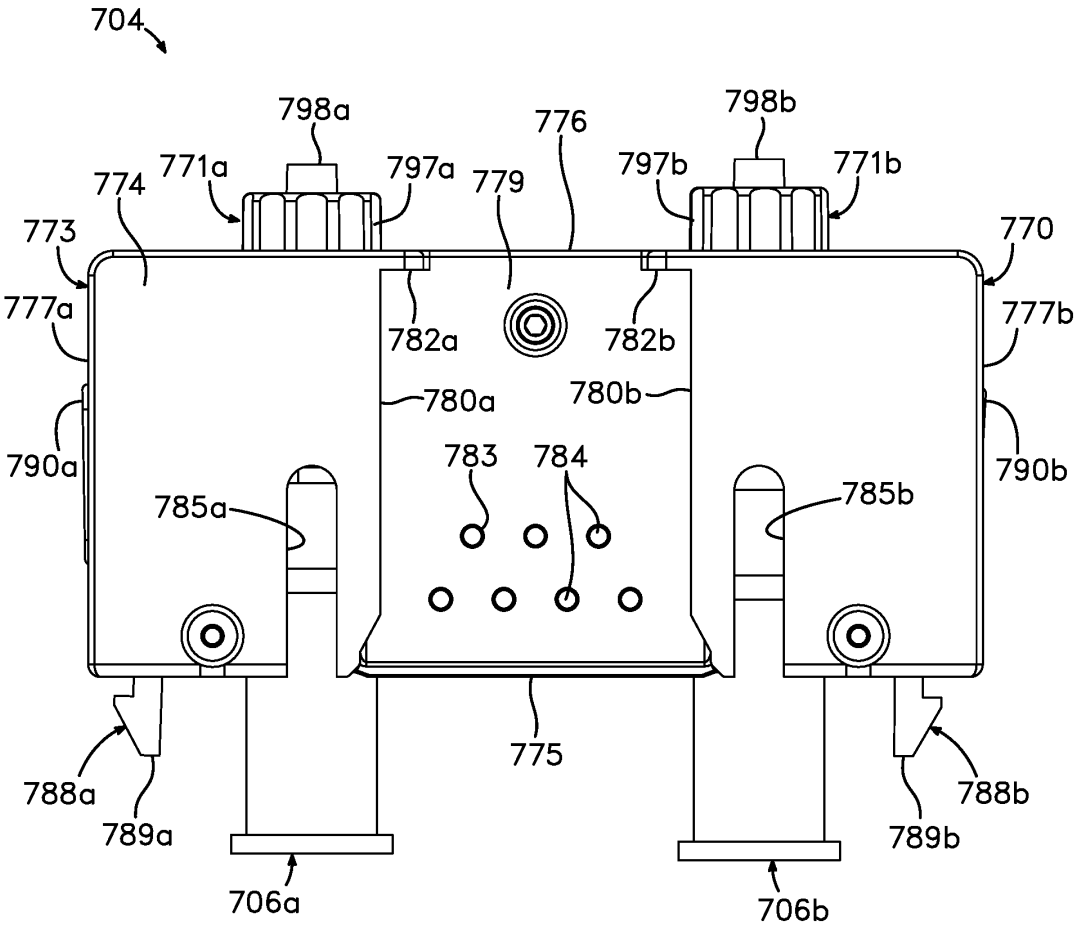

704
798a
776
798b
771a
797a
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797b
771b
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770
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782a
782b
777b
780a
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789a
789b
706a
706b

FIG. 33

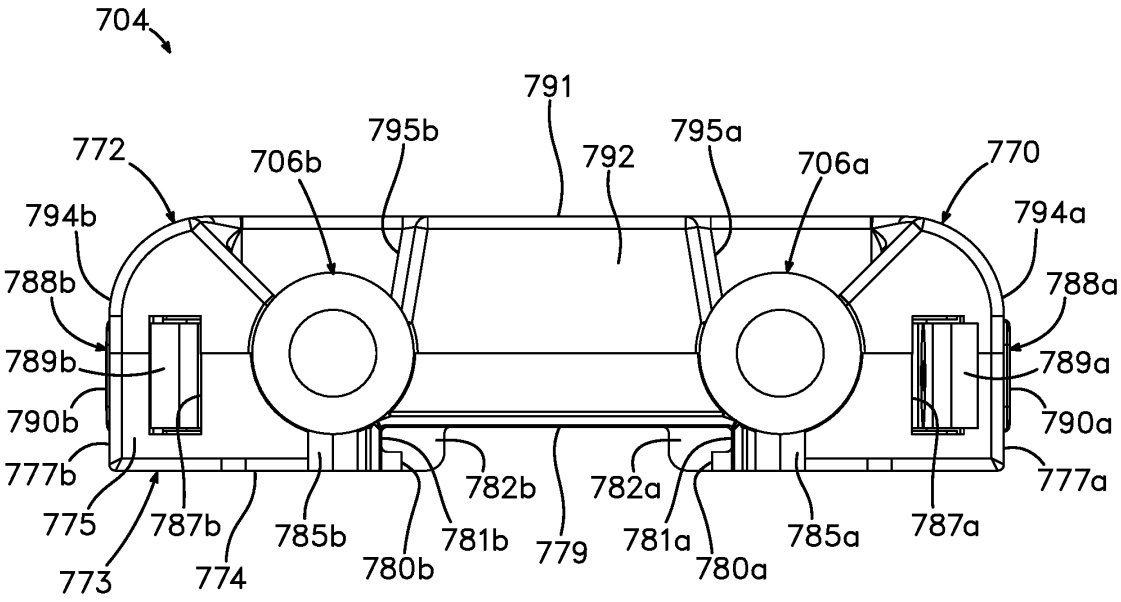

704
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795b
795a
772
706b
792
706a
770
794b
794a
788b
788a
789b
789a
790b
790a
777b
777a
775
787b
785b
782b
782a
785a
787a
773
774
780b
781b
779
781a
780a

FIG. 34

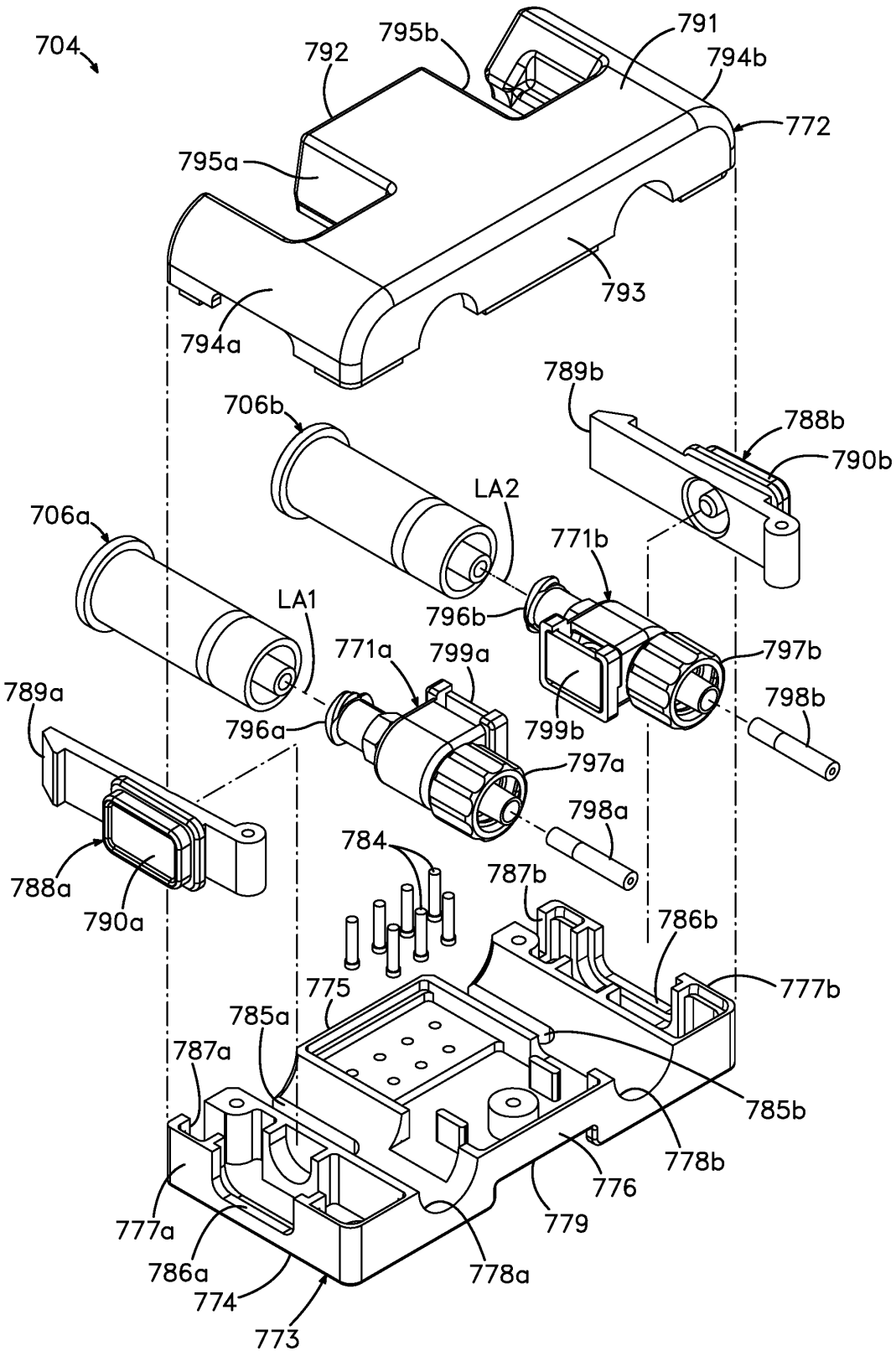

704
792
795b
791
794b
772
795a
793
794a
789b
706b
788b
790b
LA2
706a
771b
LA1
796b
771a
799a
797b
789a
796a
799b
798b
797a
798a
784
787b
788a
790a
786b
775
777b
785a
787a
785b
778b
776
777a
779
786a
778a
774
773

FIG. 35