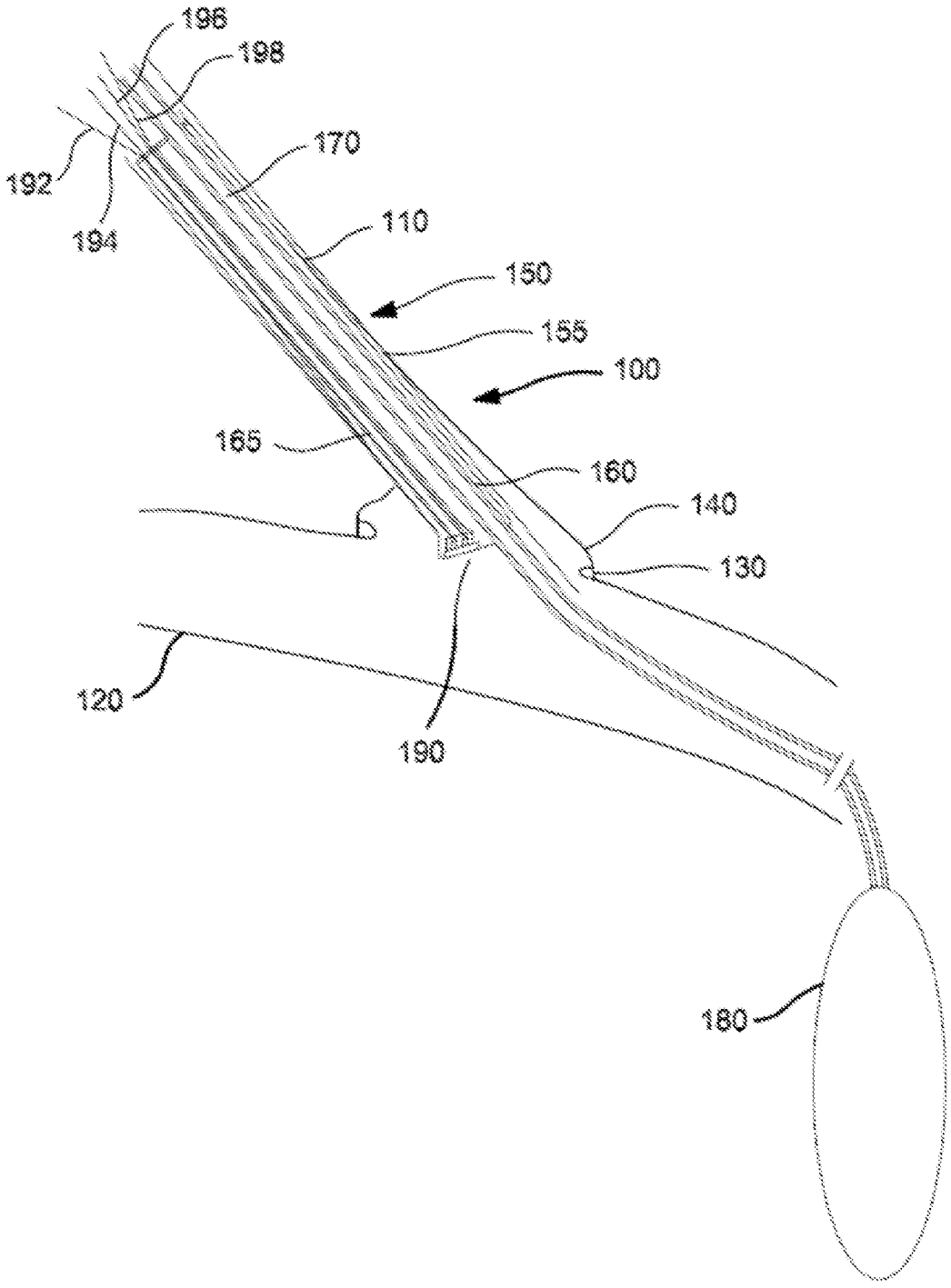

FIG. 1A

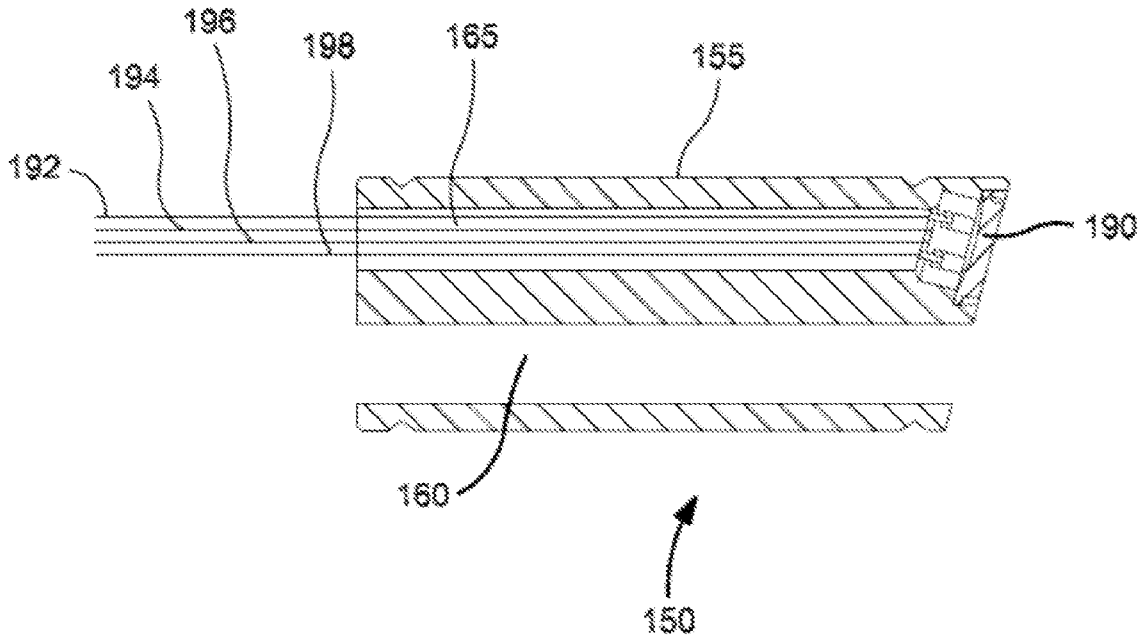

FIG. 1B

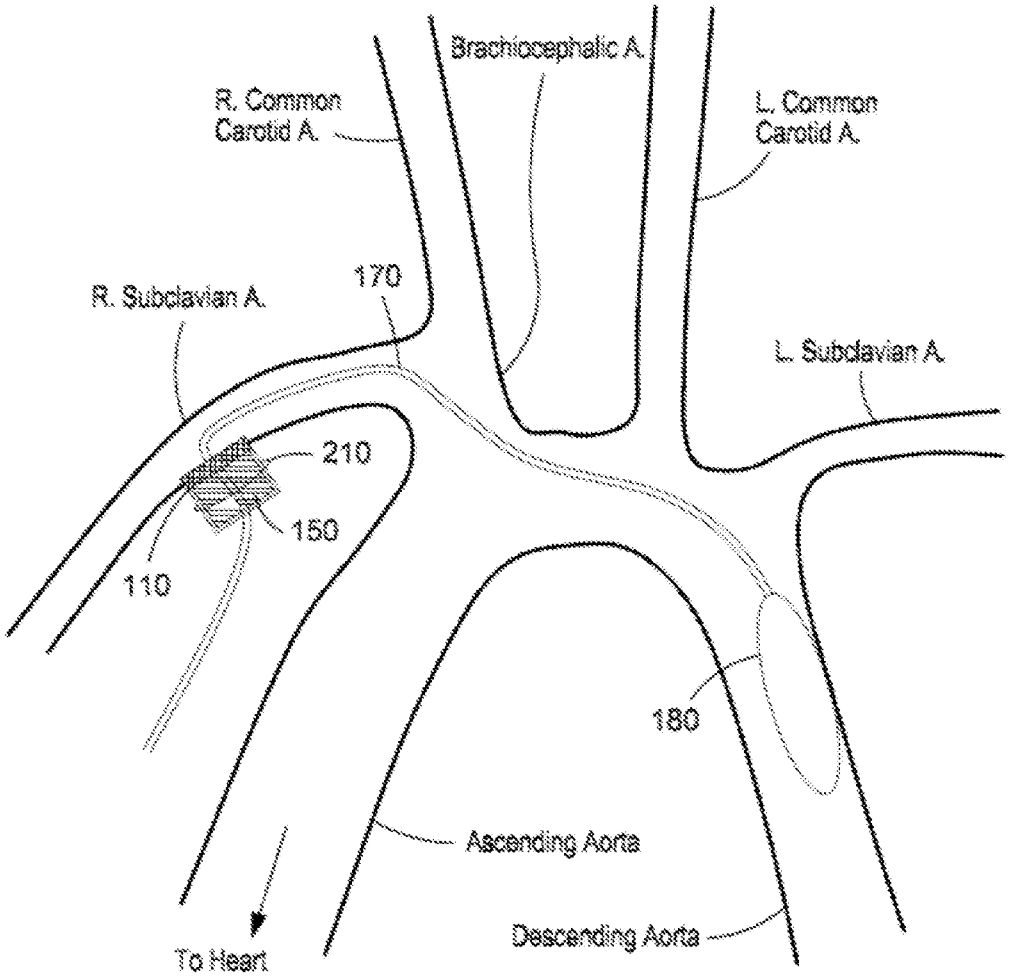
Brachiocephalic A.
R. Common Carotid A.
L. Common Carotid A.
R. Subclavian A.
170
L. Subclavian A.
210
150
110
180
Ascending Aorta
Descending Aorta
To Heart

FIG. 2

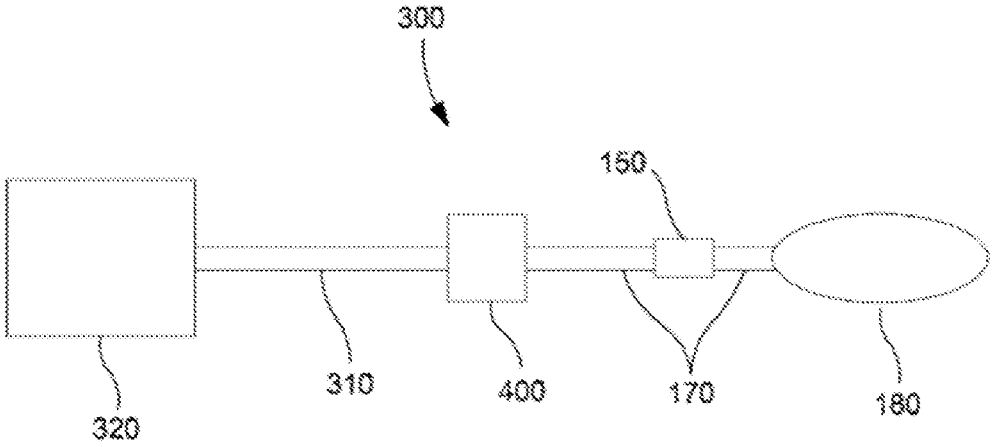

FIG. 3

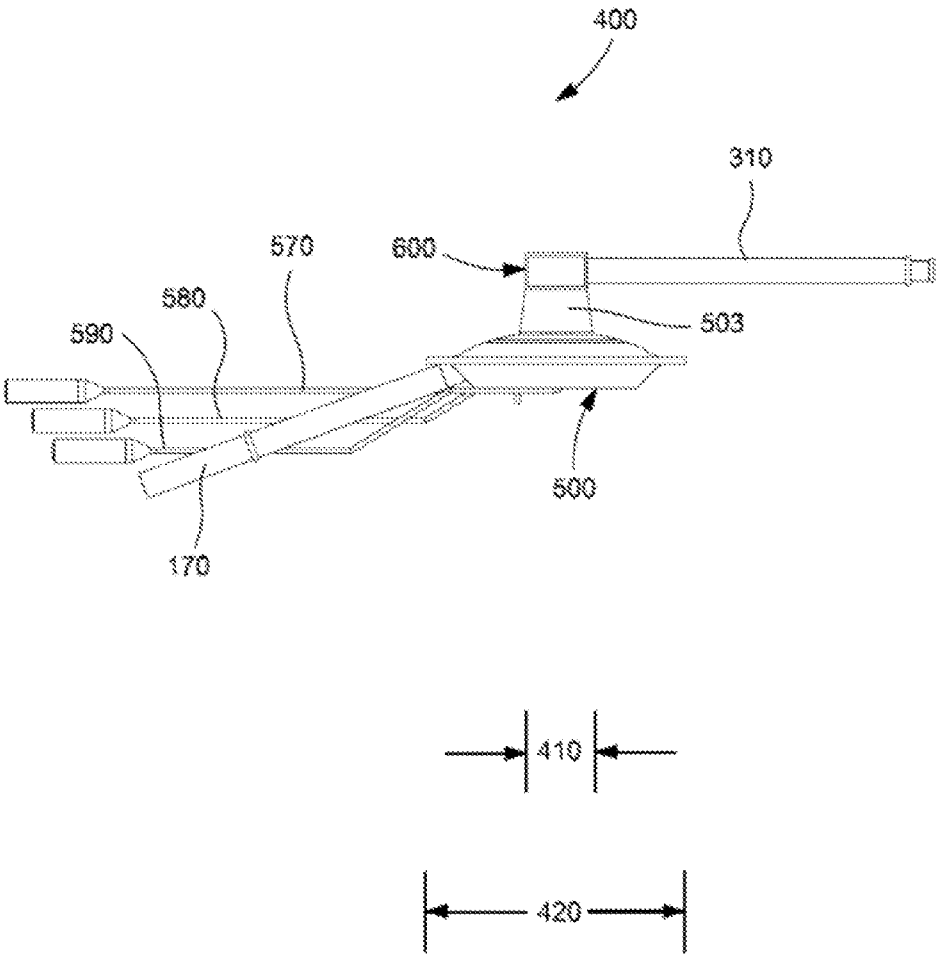

FIG. 4A

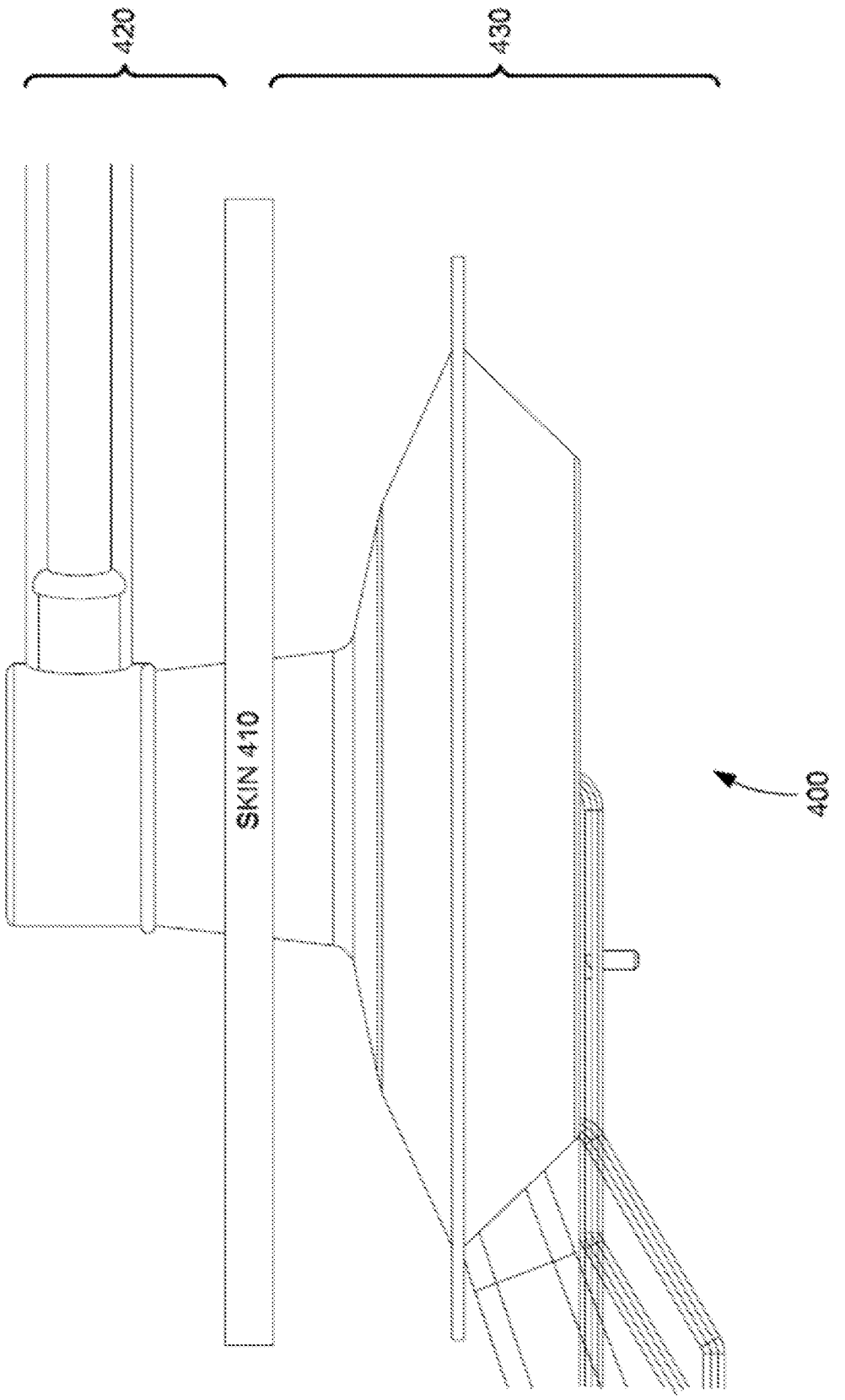

FIG. 4B

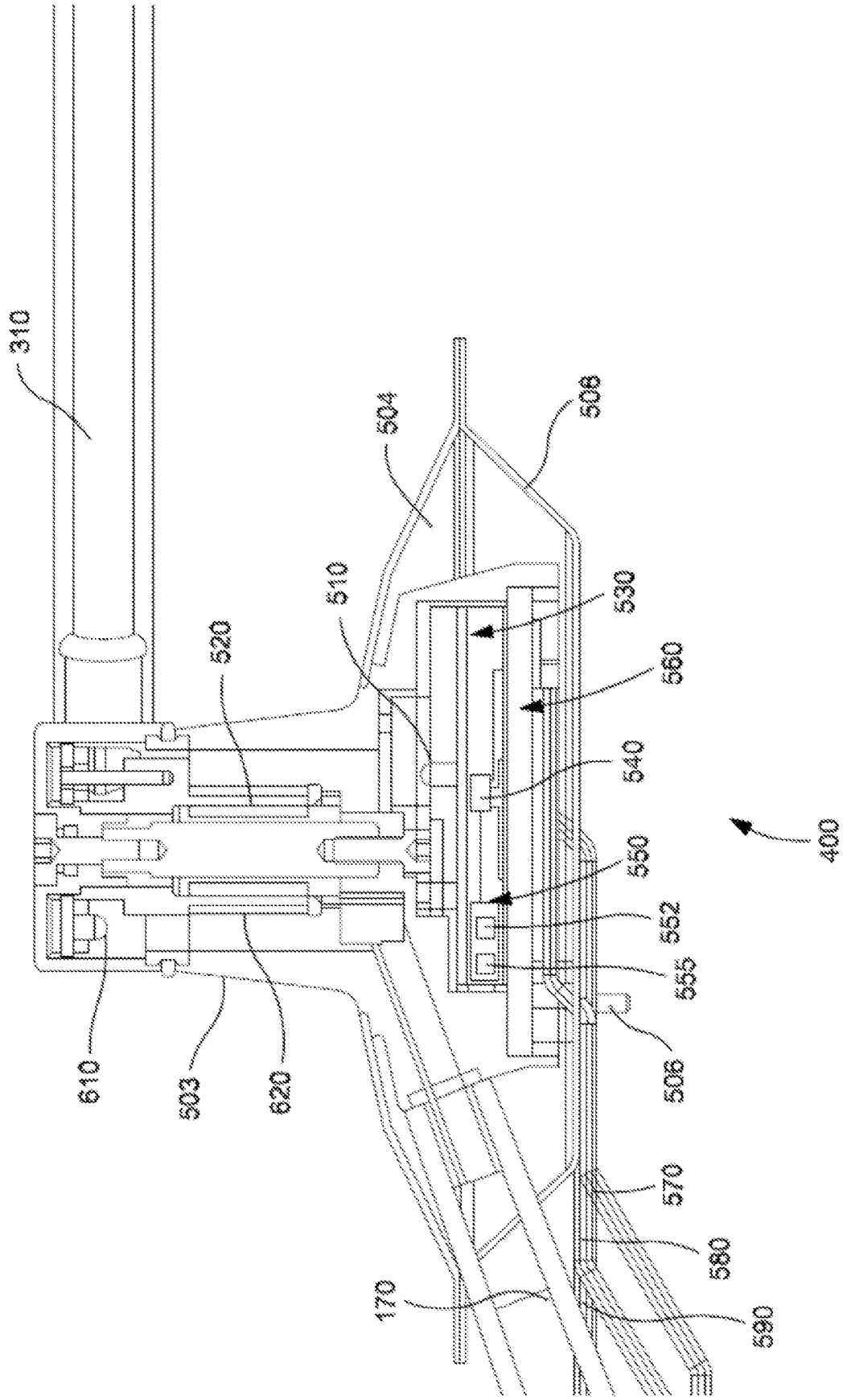
310
504
506
510
520
530
560
540
550
552
555
400
610
503
620
506
570
580
590
170

FIG. 4C

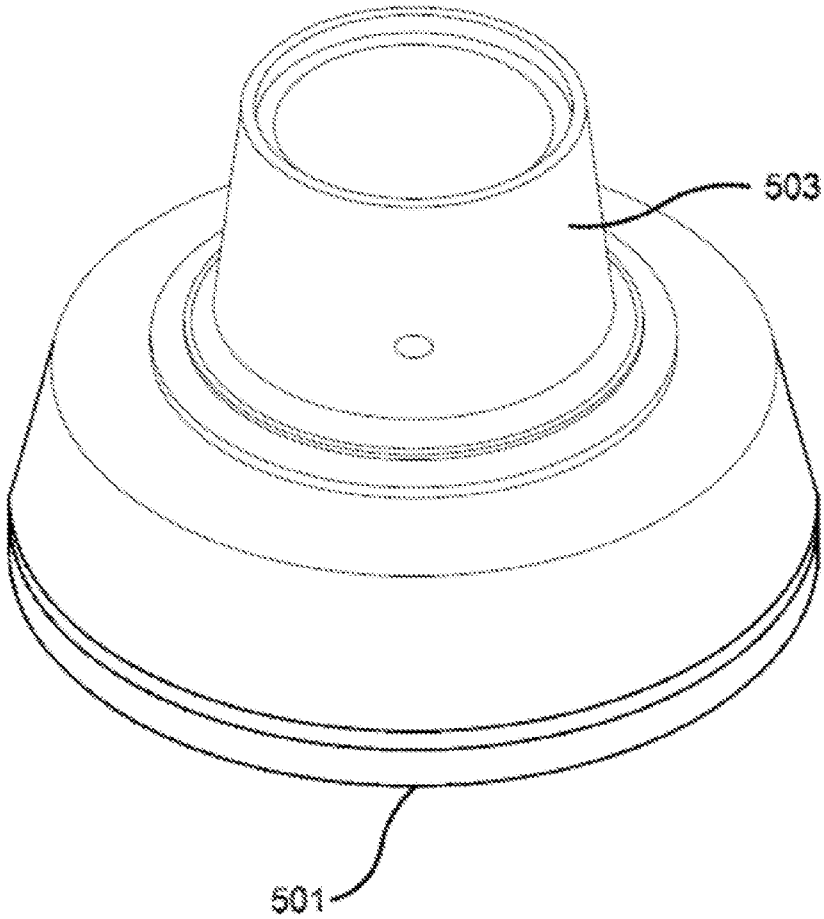

FIG. 5A

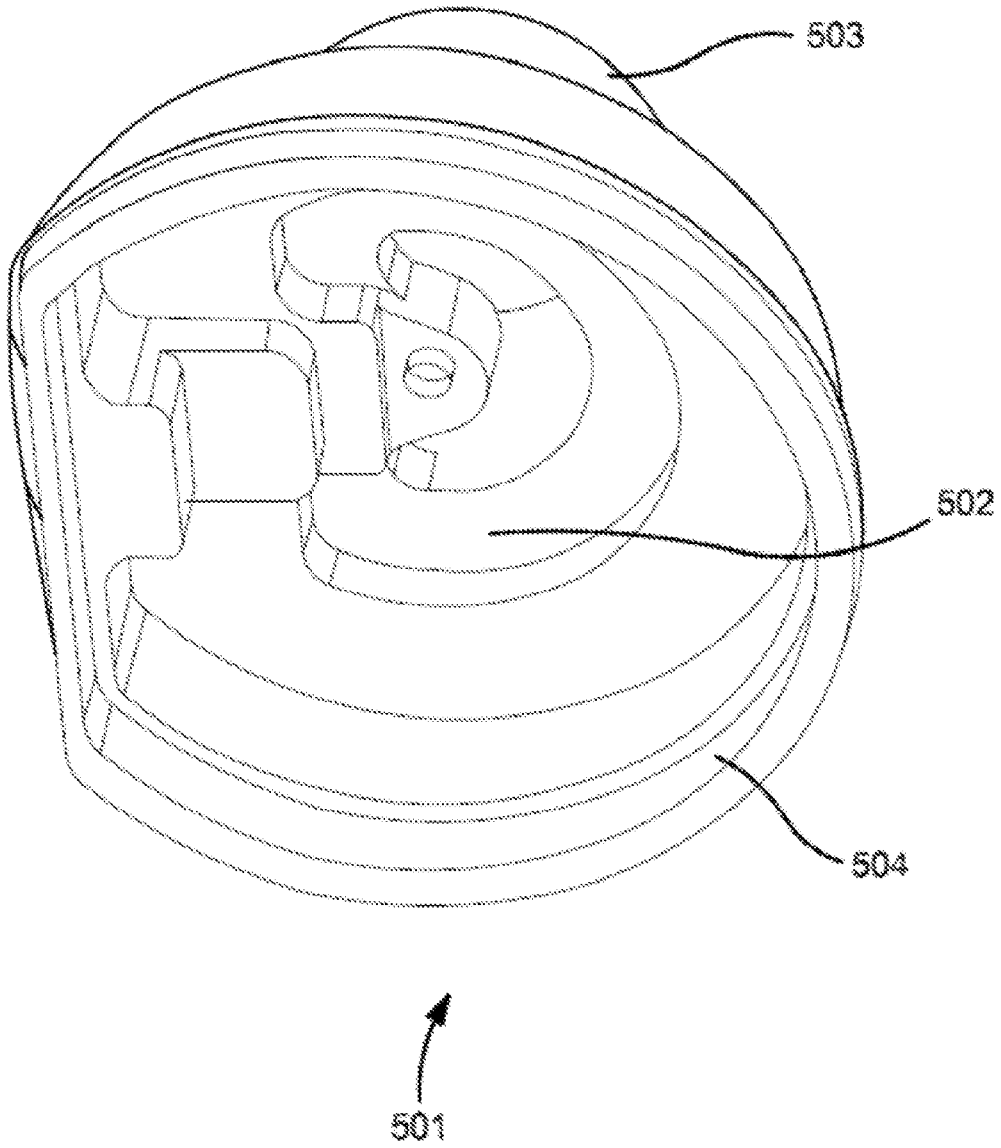

FIG. 5B

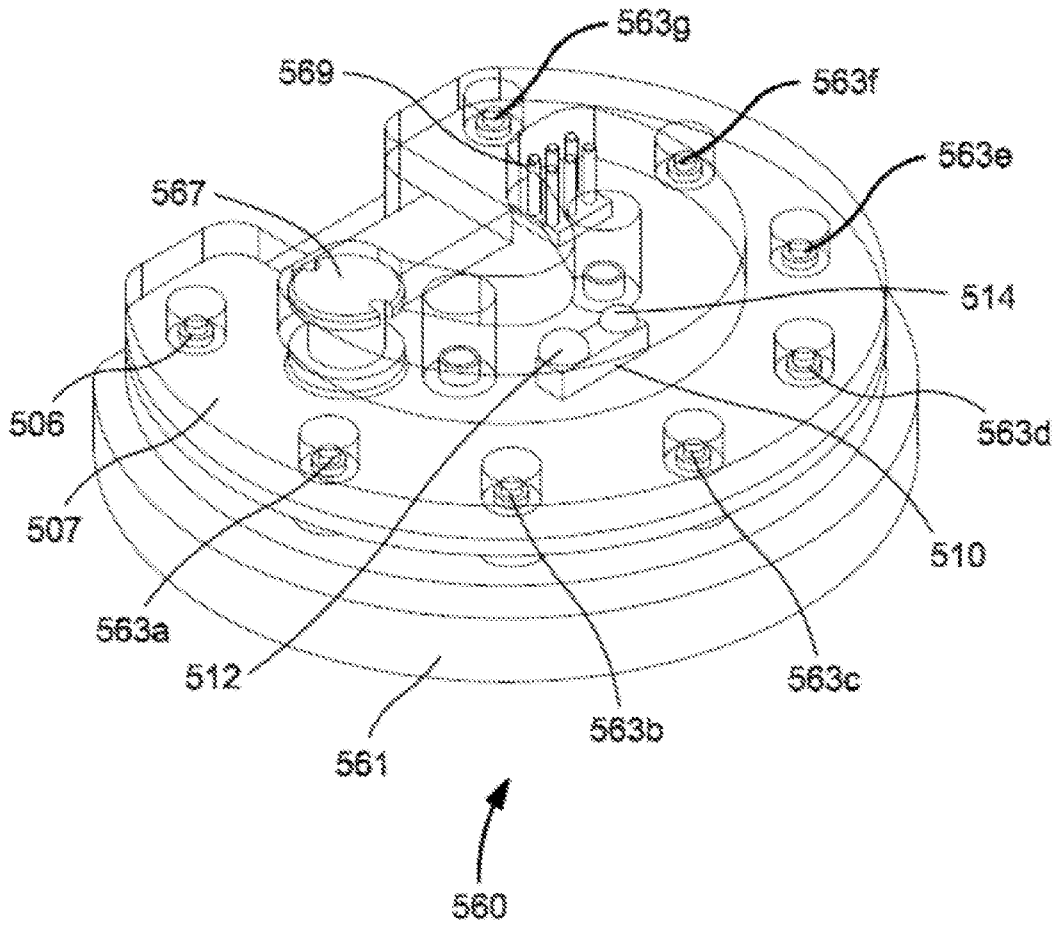
563g
569
563f
563e
567
514
506
563d
507
510
563a
512
563c
563b
561
560

FIG. 5C

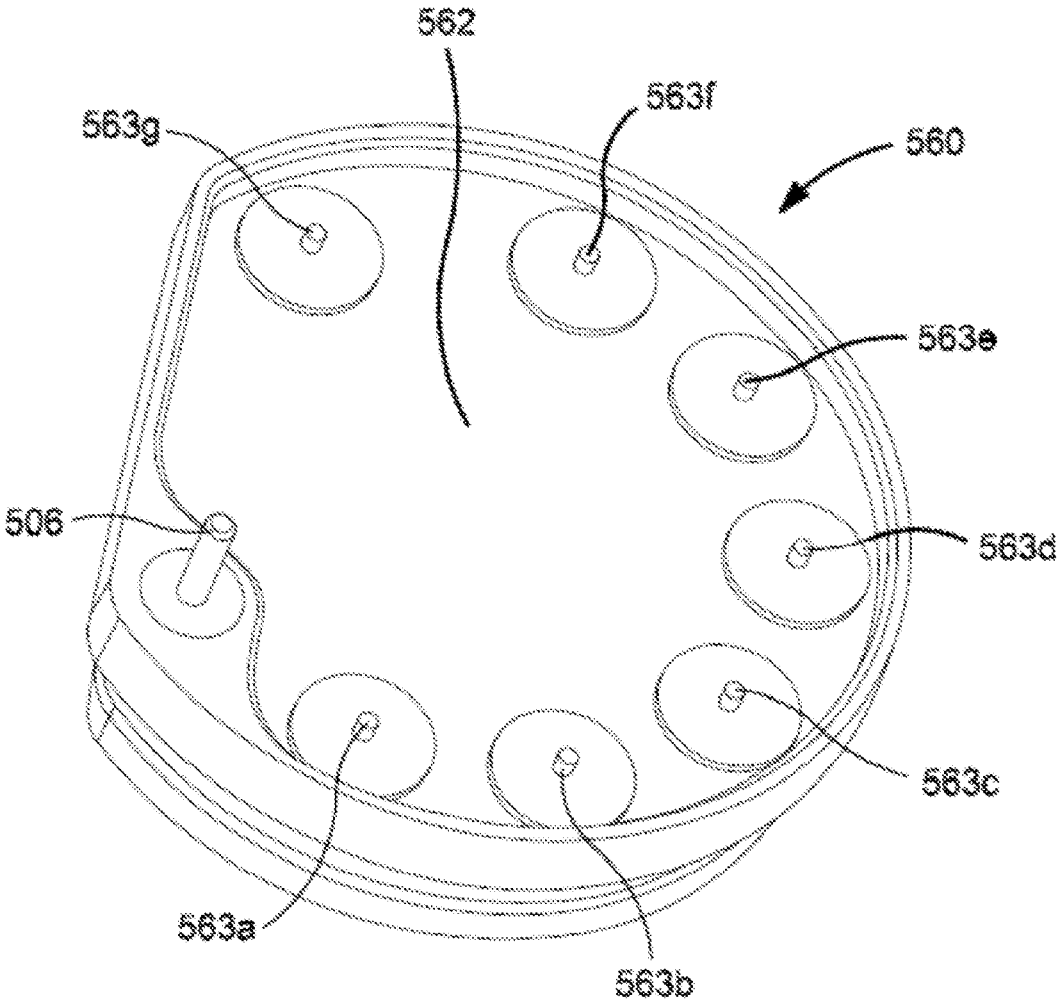

FIG. 5D

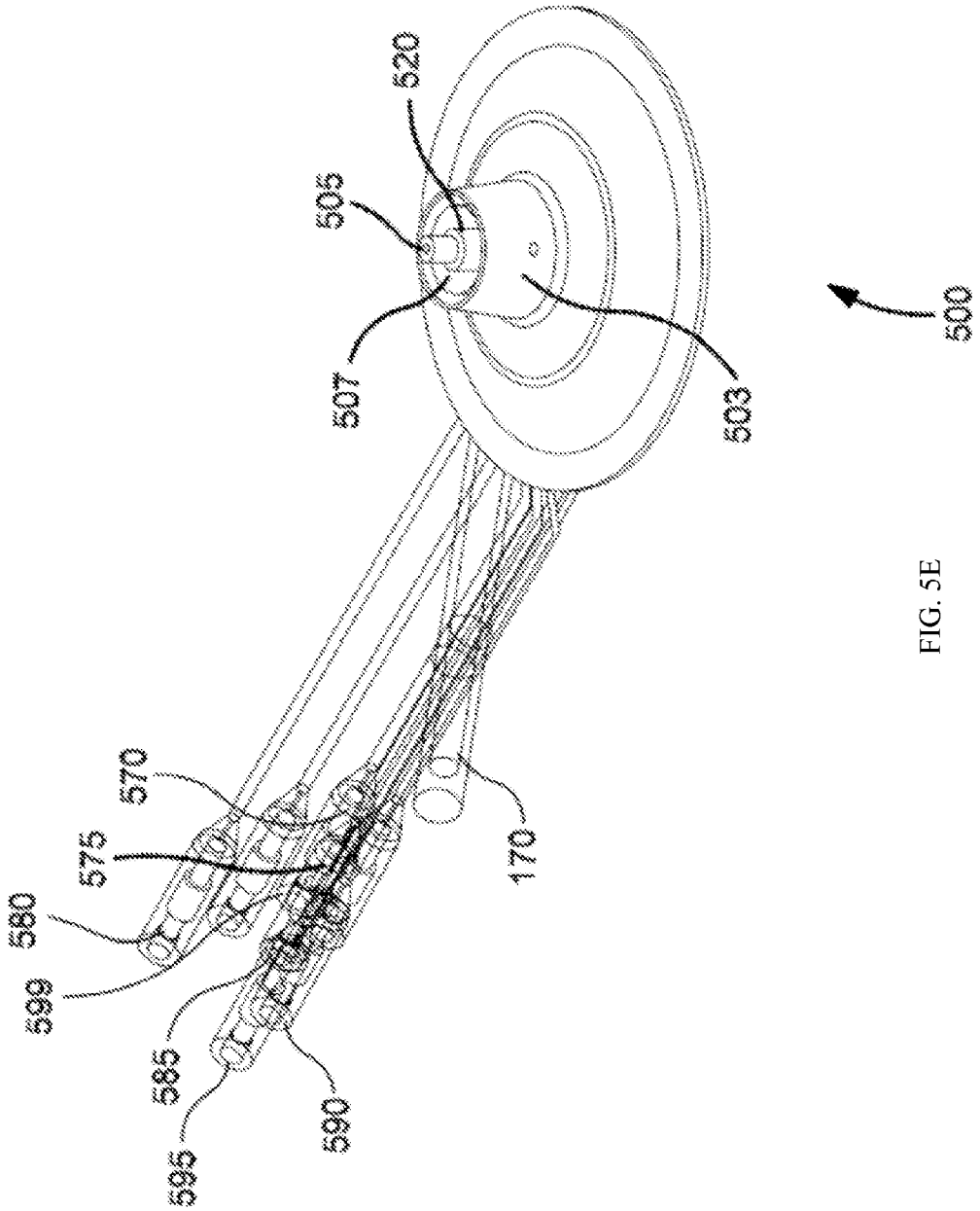

FIG. 5E

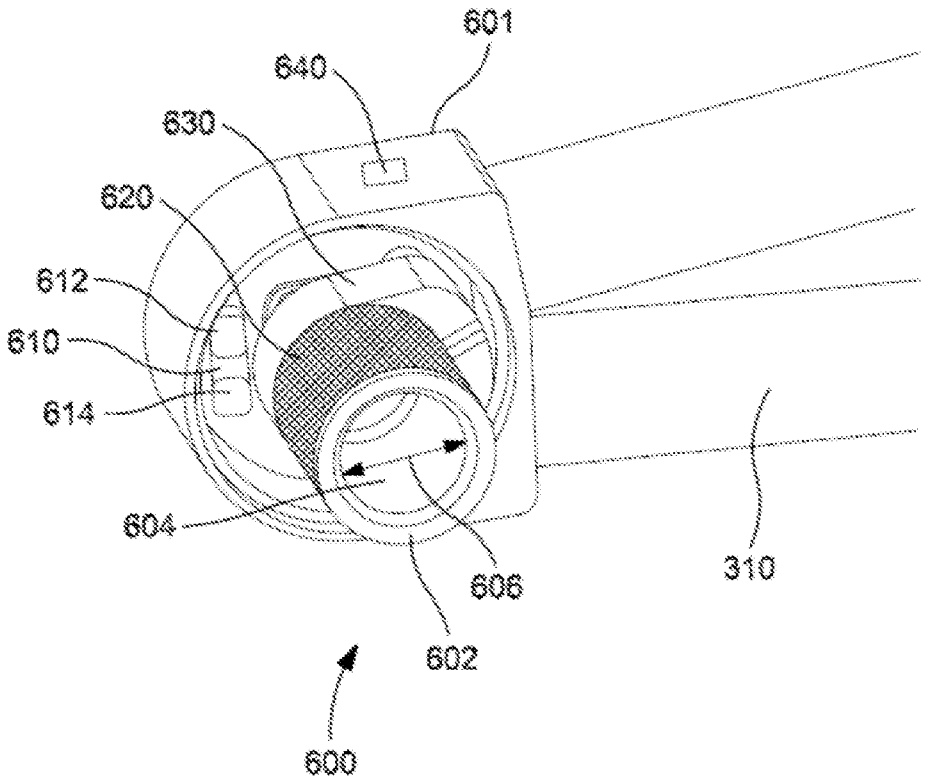

FIG. 6A

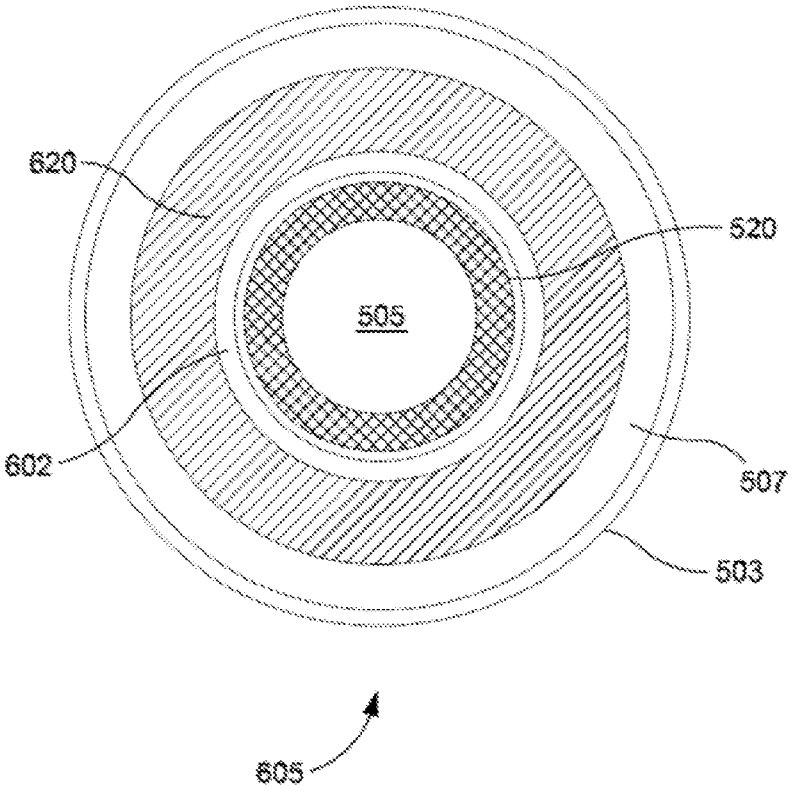

FIG. 6B

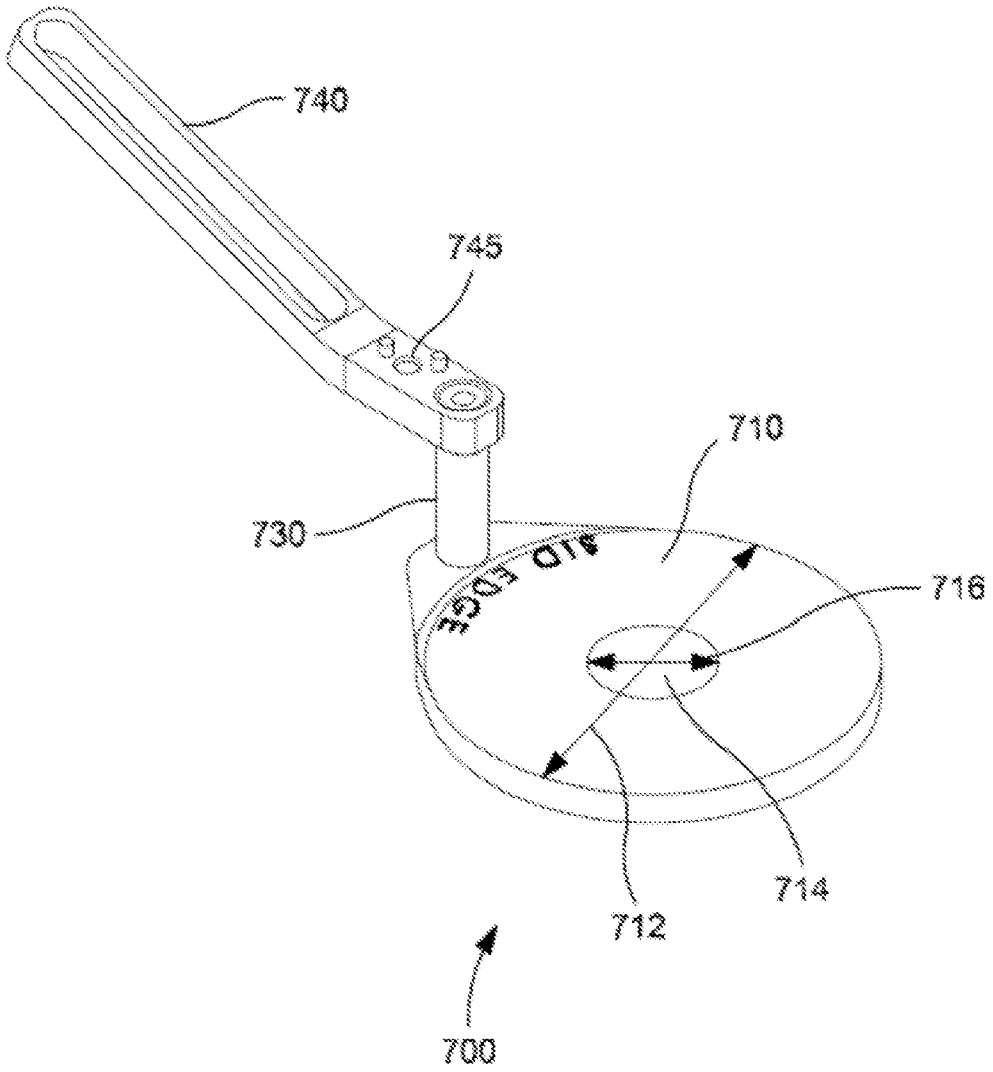

FIG. 7

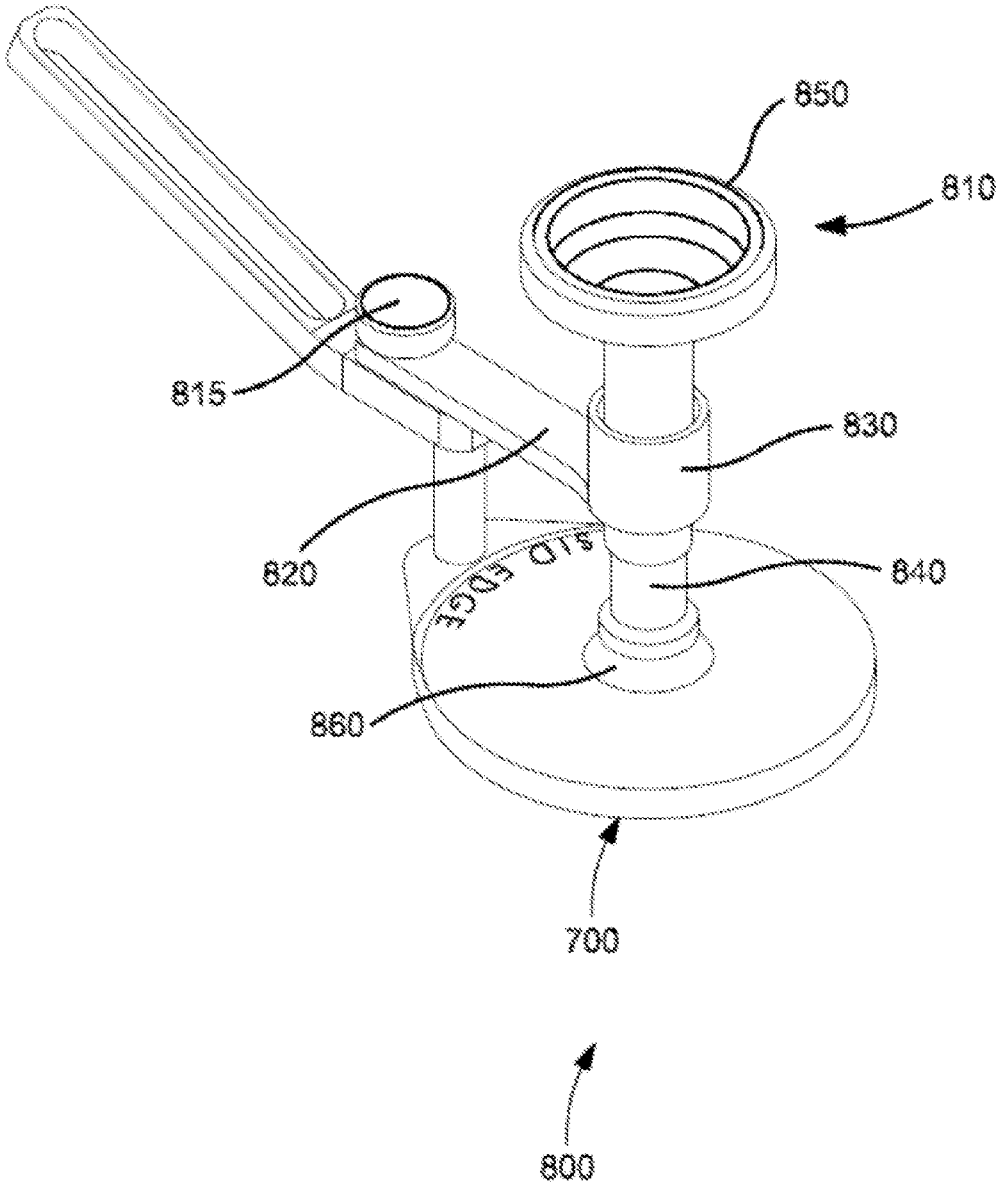

FIG. 8A

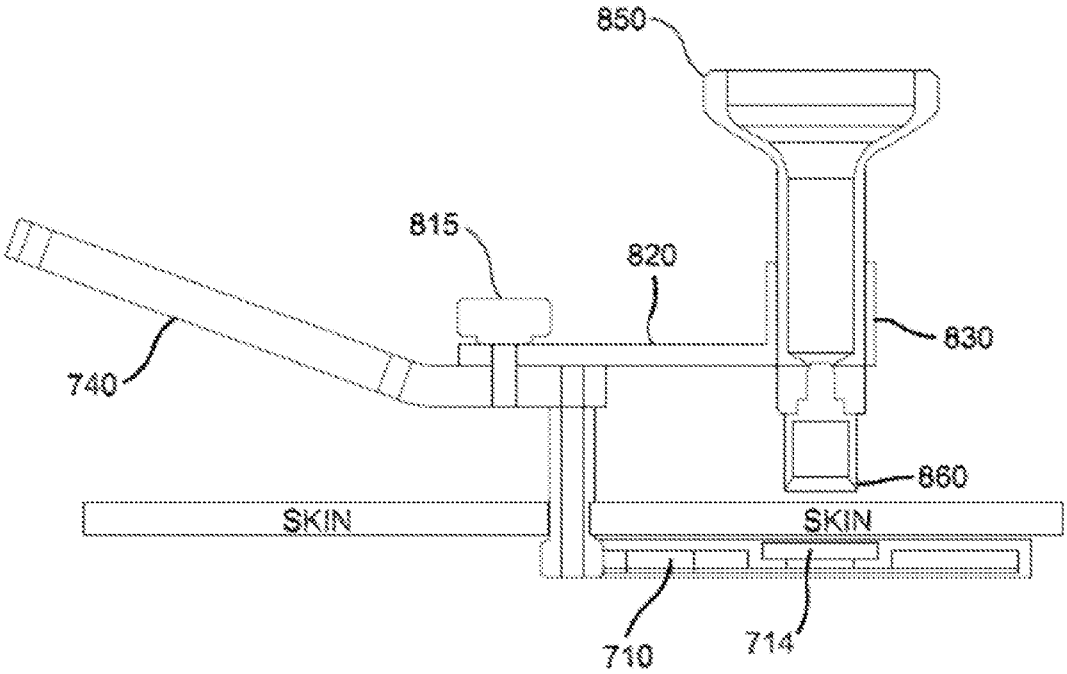

FIG. 8B

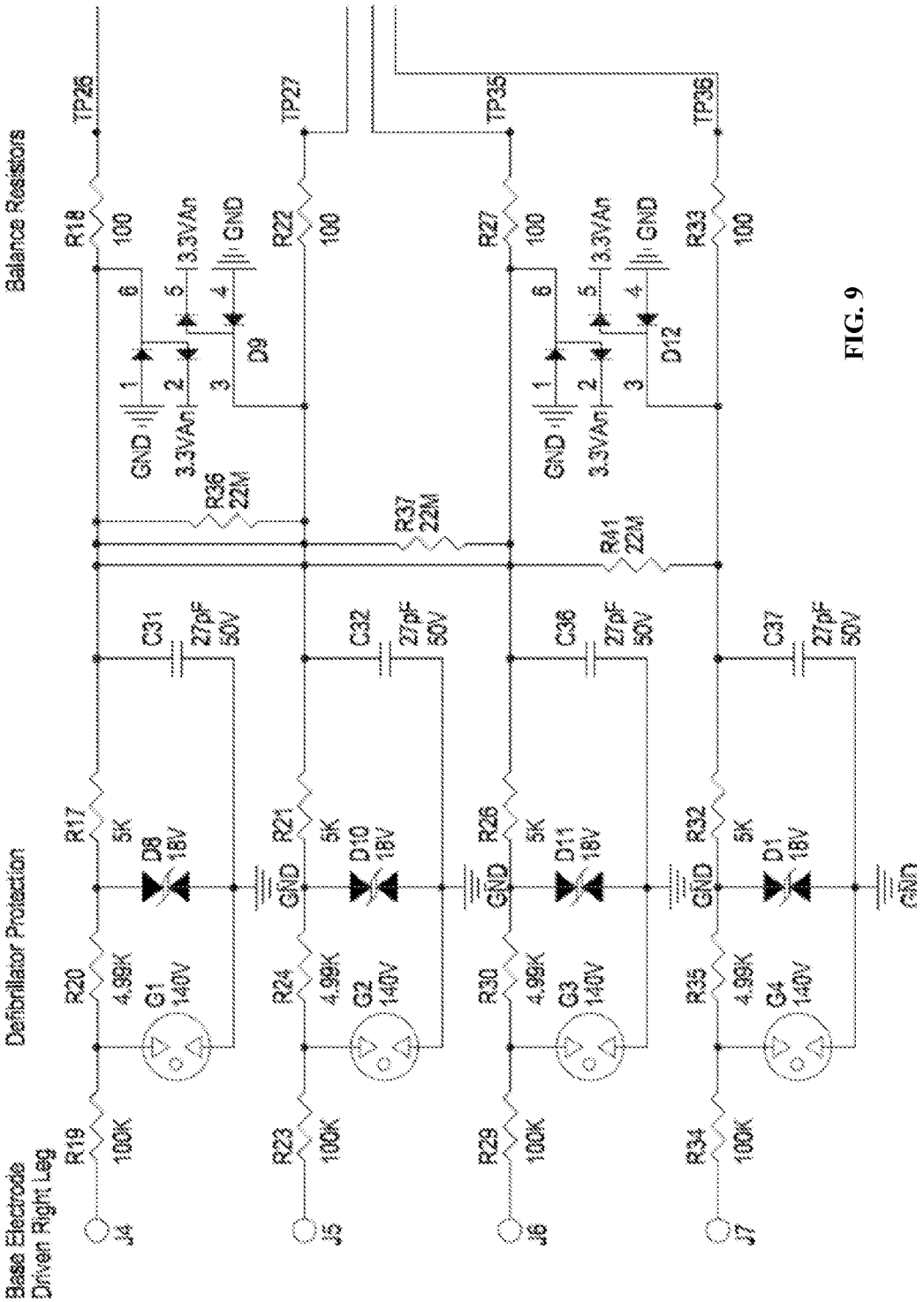
Balance Resistors
Defibrillator Protection
Base Electrode
Driven Right Leg
TP26
TP27
TP35
TP36
R18 100
R22 100
R27 100
R33 100
3.3VAn
GND
D9
D12
R36 22M
R37 22M
R41 22M
C31 27pF 50V
C32 27pF 50V
C36 27pF 50V
C37 27pF 50V
R17 5K
R21 5K
R26 5K
R32 5K
D8 18V
D10 18V
D11 18V
D1 18V
R20 4.99K
R24 4.99K
R30 4.99K
R35 4.99K
G1 140V
G2 140V
G3 140V
G4 140V
R19 100K
R23 100K
R29 100K
R34 100K
J4
J5
J6
J7
CMin

FIG. 9

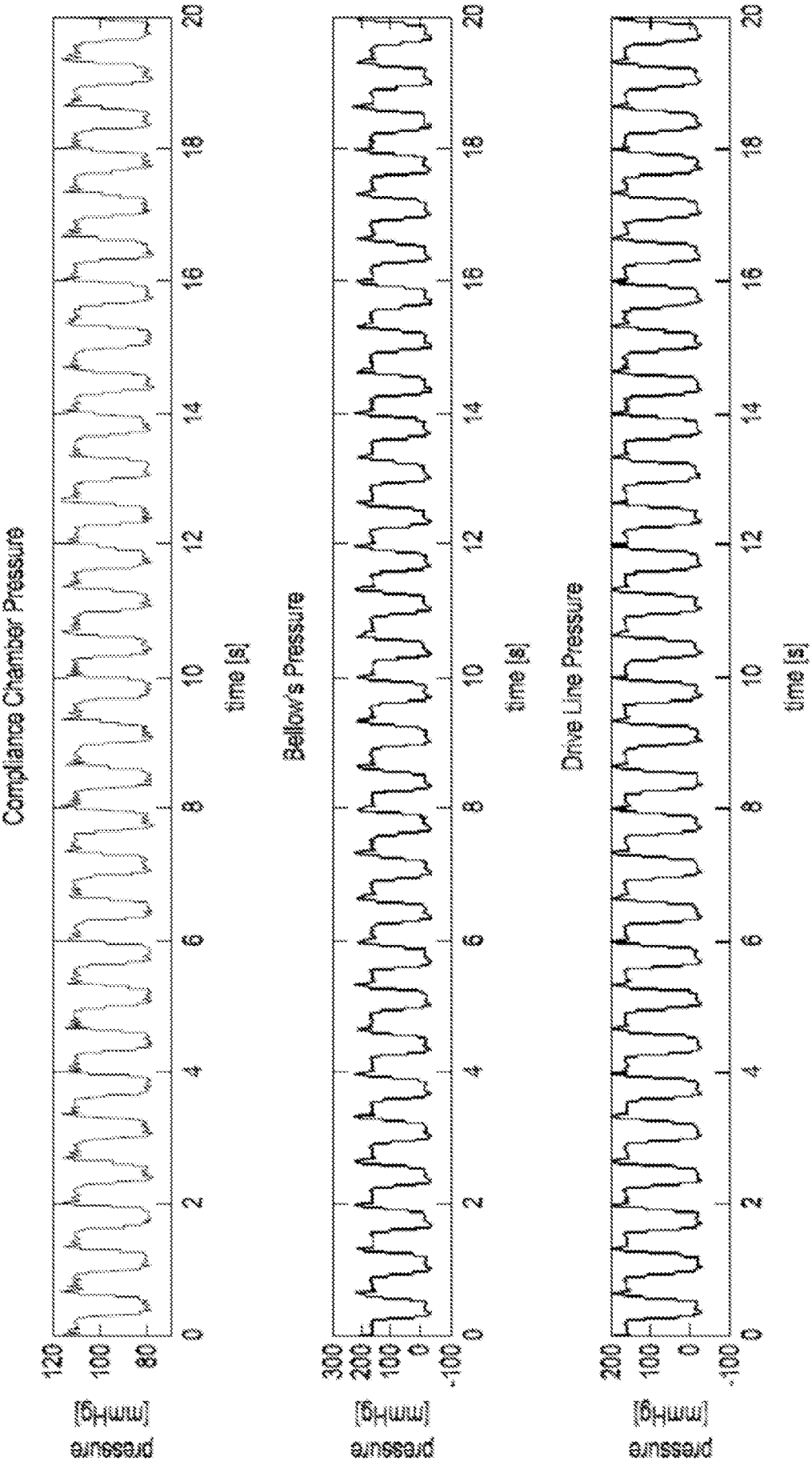
Compliance Chamber Pressure
pressure [mmHg]
time [s]
Bellow's Pressure
pressure [mmHg]
time [s]
Drive Line Pressure
pressure [mmHg]
time [s]

FIG. 10

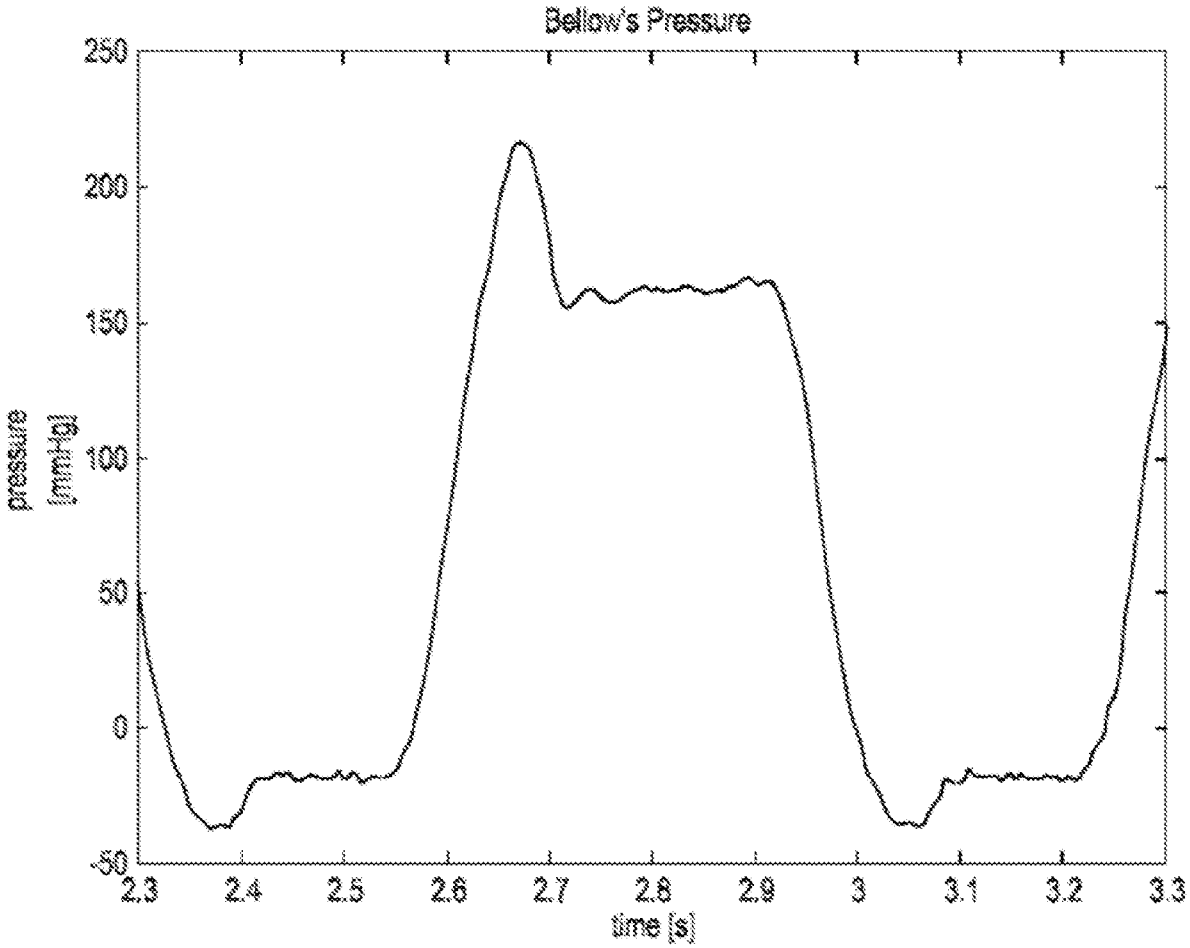
Bellow's Pressure
250
200
150
100
50
0
-50
pressure [mmHg]
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3
3.1
3.2
3.3
time [s]

FIG. 11

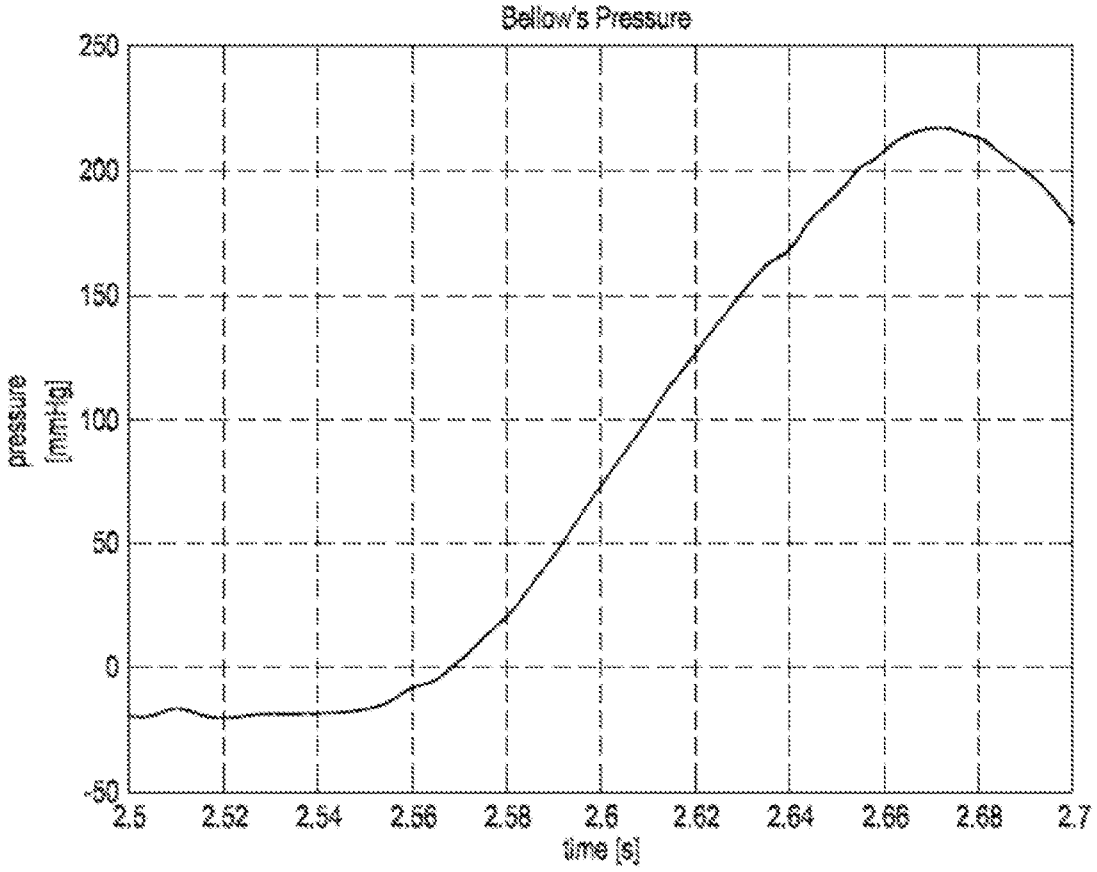
Bellow's Pressure
250
200
150
100
50
0
-50
pressure [mmHg]
2.5
2.52
2.54
2.56
2.58
2.6
2.62
2.64
2.66
2.68
2.7
time [s]

FIG. 12

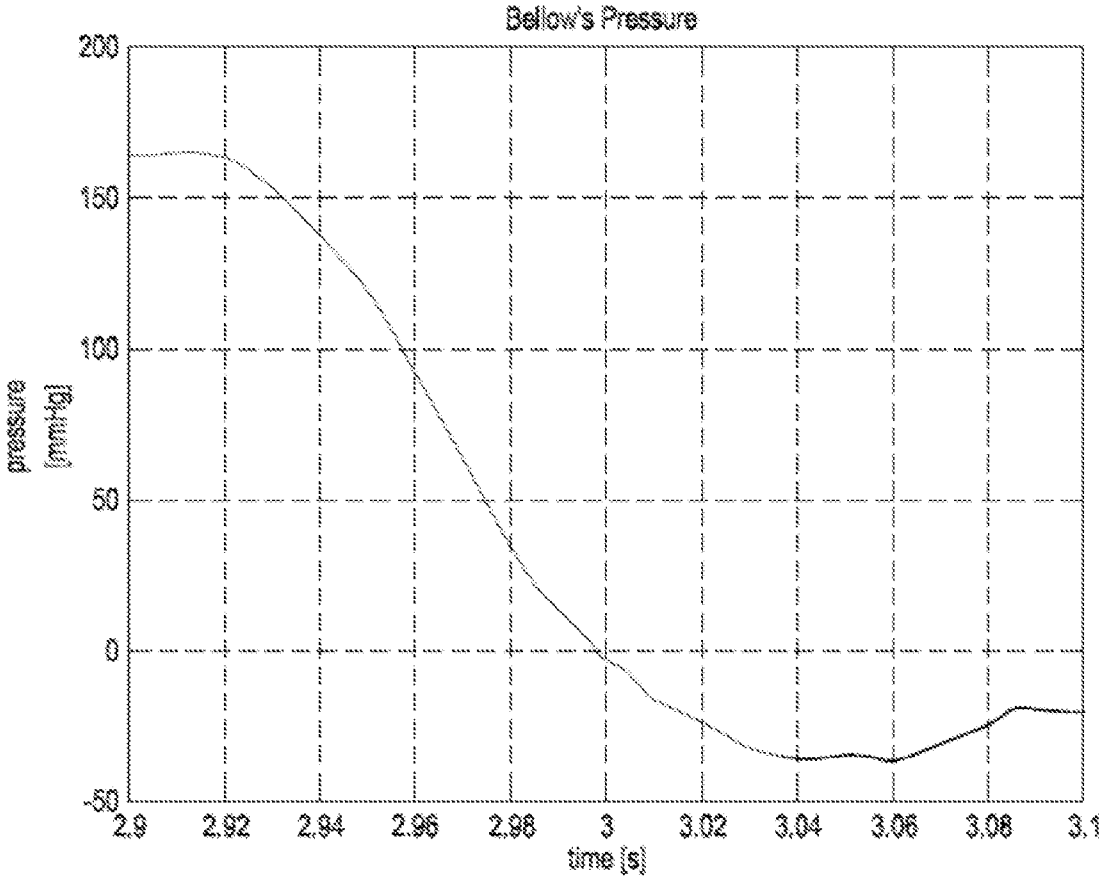
Bellow's Pressure
200
150
100
50
0
-50
pressure [mmHg]
2.9
2.92
2.94
2.96
2.98
3
3.02
3.04
3.06
3.08
3.1
time [s]

FIG. 13

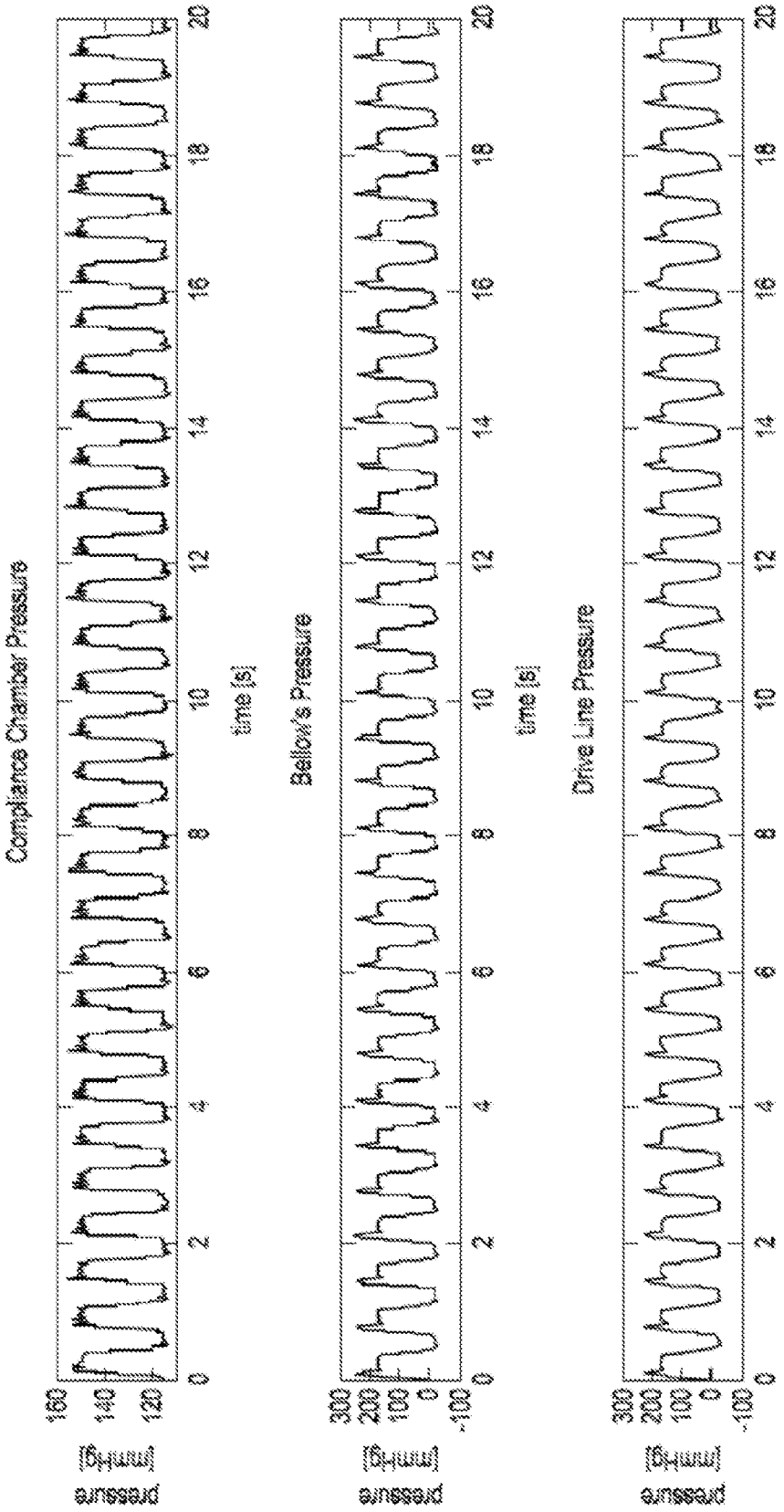
Compliance Chamber Pressure
pressure [mmHg]
160
140
120
0
2
4
6
8
10
12
14
16
18
20
time [s]
Bellow's Pressure
pressure [mmHg]
300
200
100
0
-100
0
2
4
6
8
10
12
14
16
18
20
time [s]
Drive Line Pressure
pressure [mmHg]
300
200
100
0
-100
0
2
4
6
8
10
12
14
16
18
20
time [s]

FIG. 14

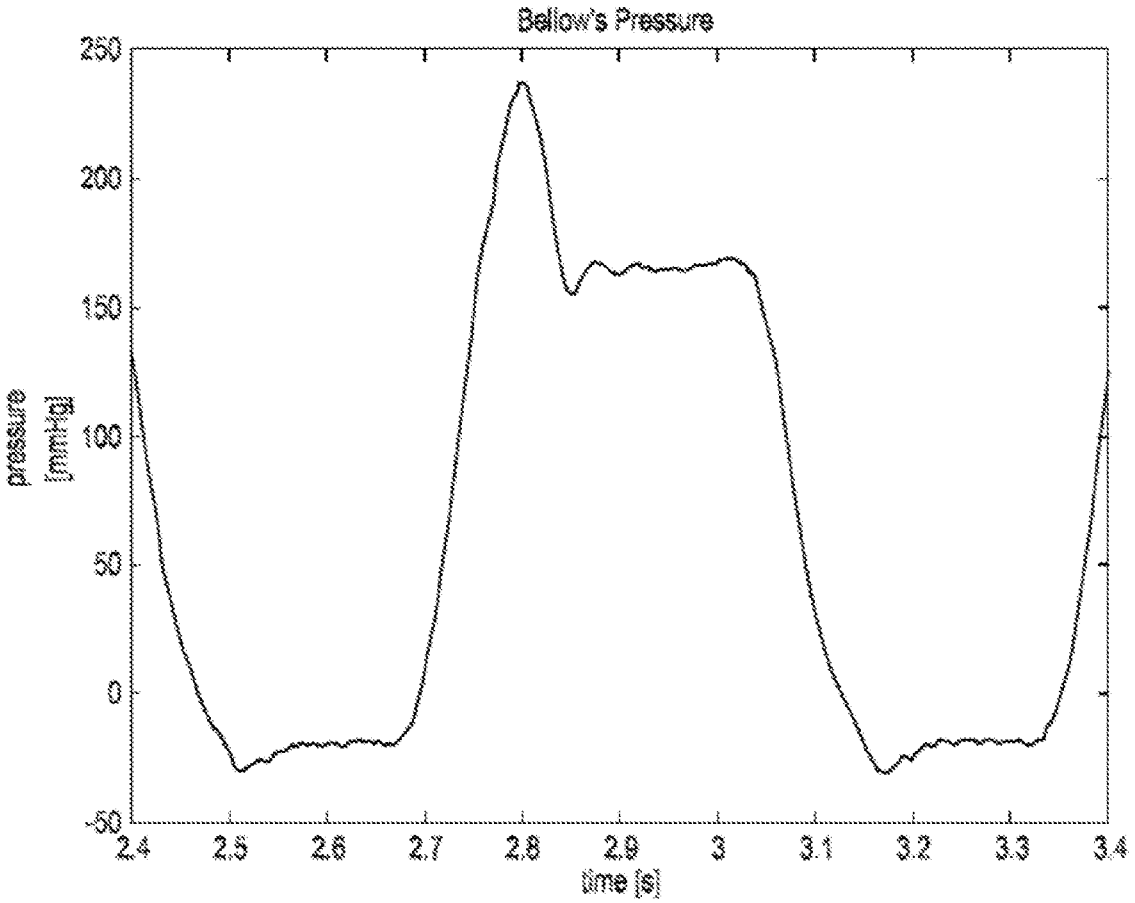
Bellow's Pressure
250
200
150
100
50
0
-50
pressure [mmHg]
2.4
2.5
2.6
2.7
2.8
2.9
3
3.1
3.2
3.3
3.4
time [s]

FIG. 15

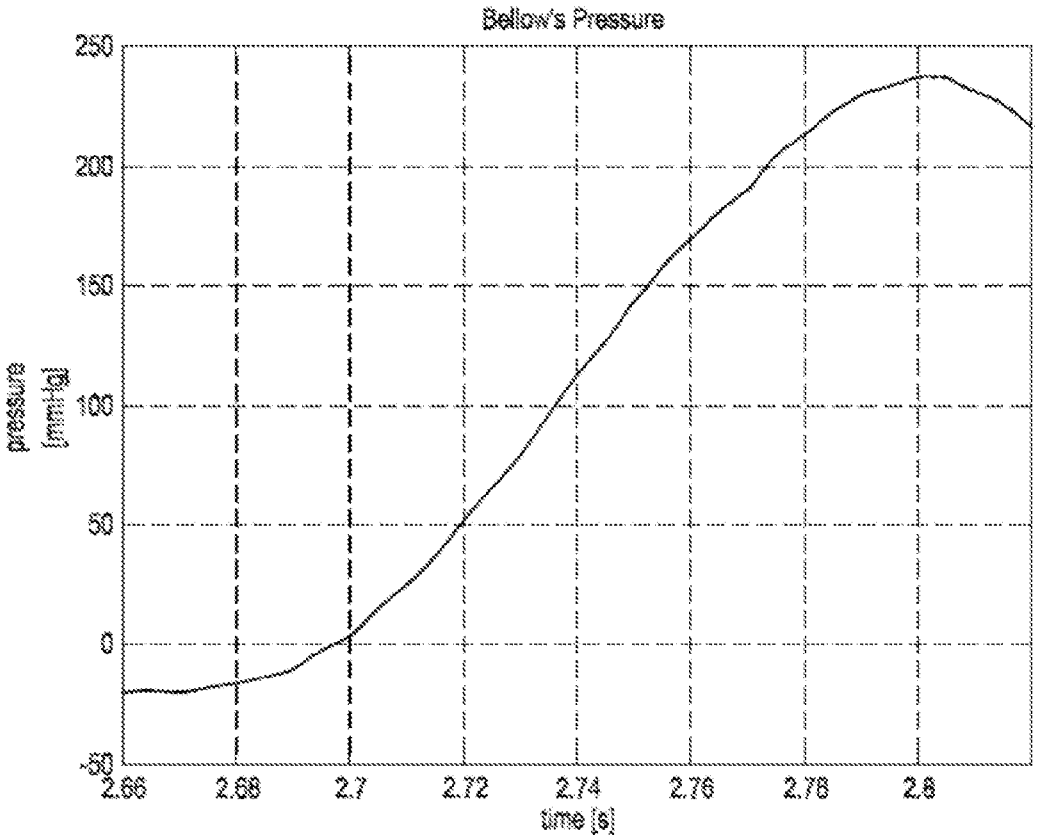
Bellow's Pressure
250
200
150
100
50
0
-50
pressure [mmHg]
2.66
2.68
2.7
2.72
2.74
2.76
2.78
2.8
time [s]

FIG. 16

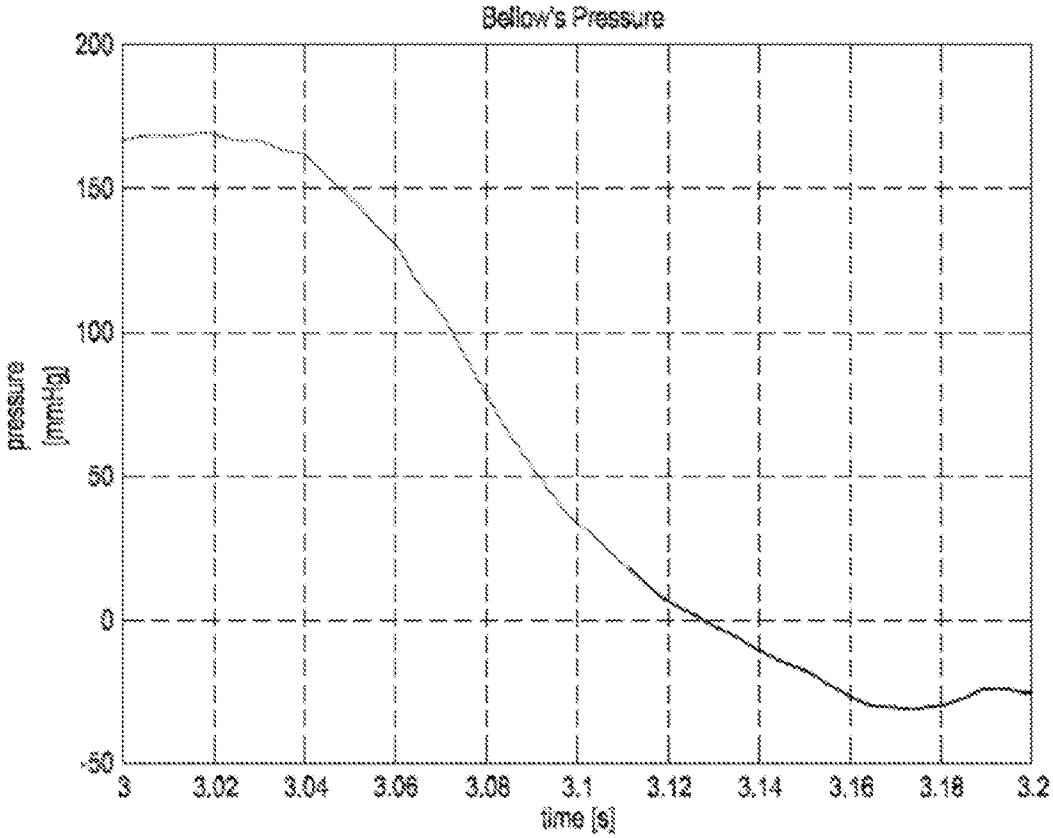
Bellow's Pressure
200
150
100
50
0
-50
pressure (mmHg)
3
3.02
3.04
3.06
3.08
3.1
3.12
3.14
3.16
3.18
3.2
time [s]

FIG. 17