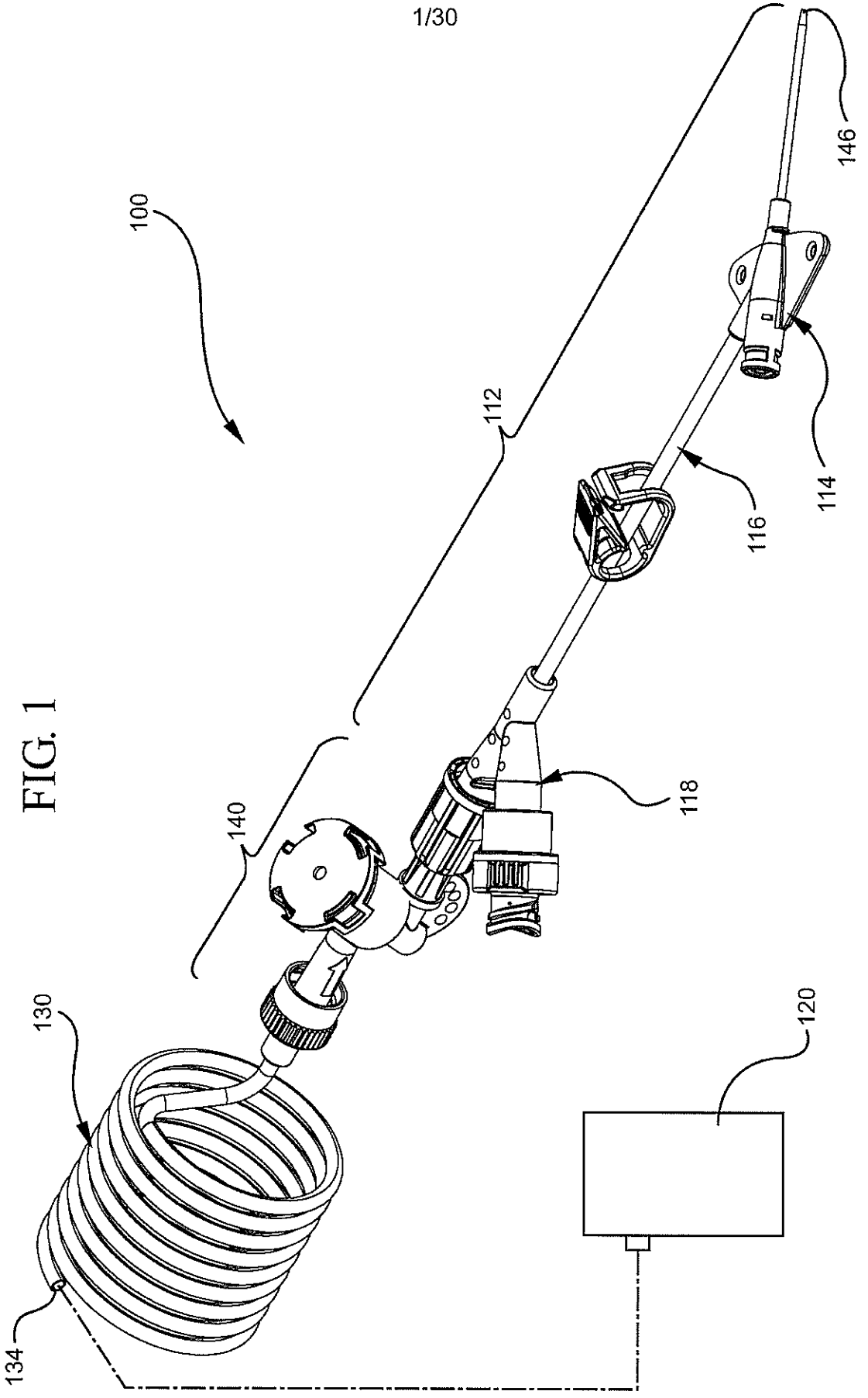


FIG. 1

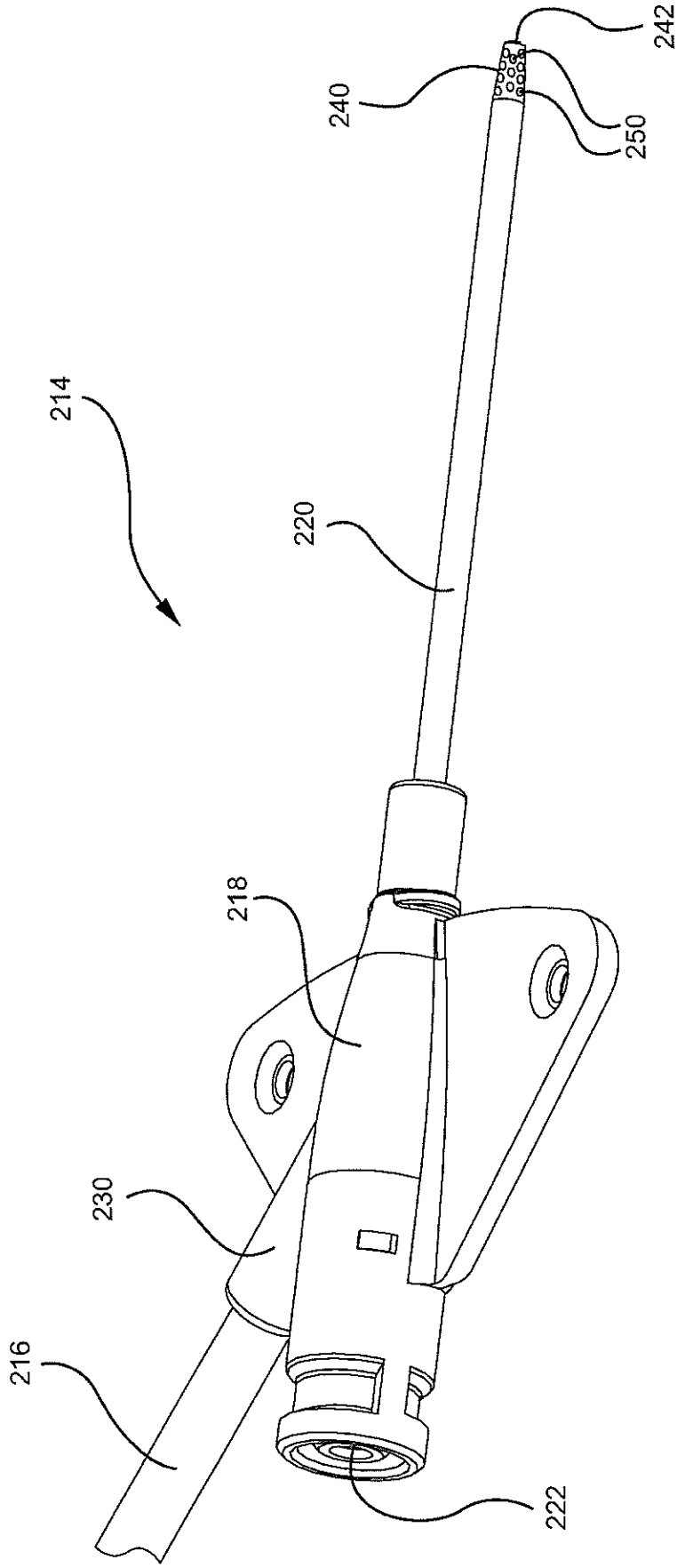


FIG. 2

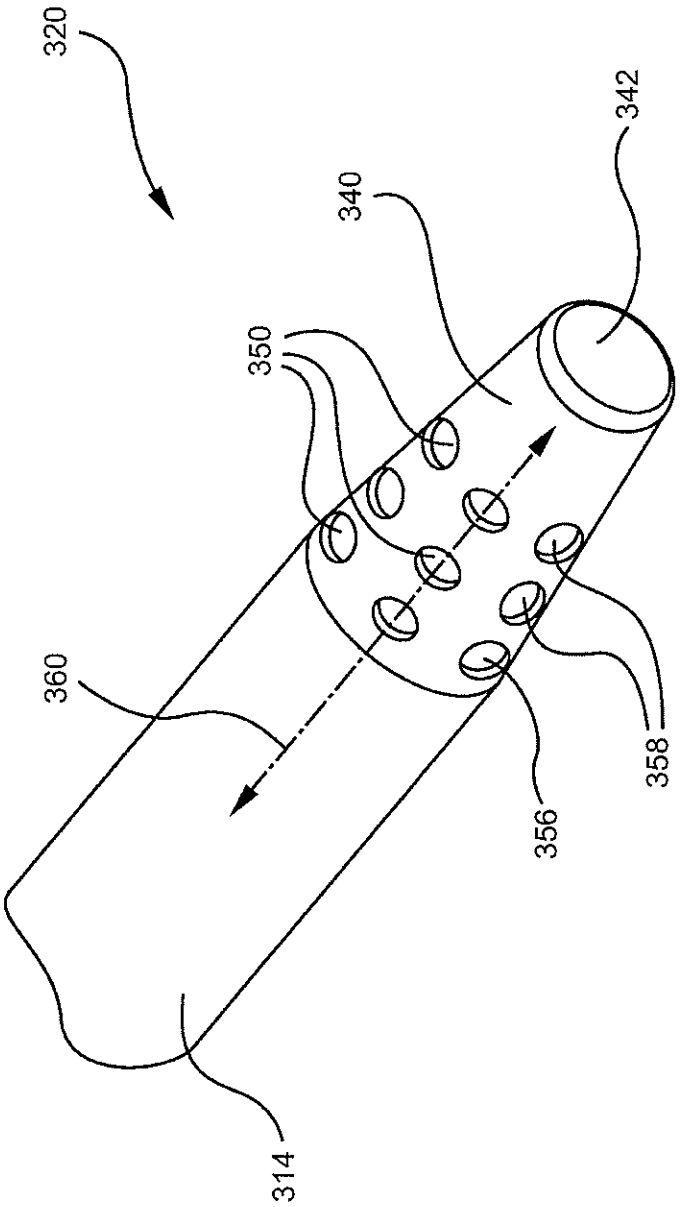


FIG. 3A

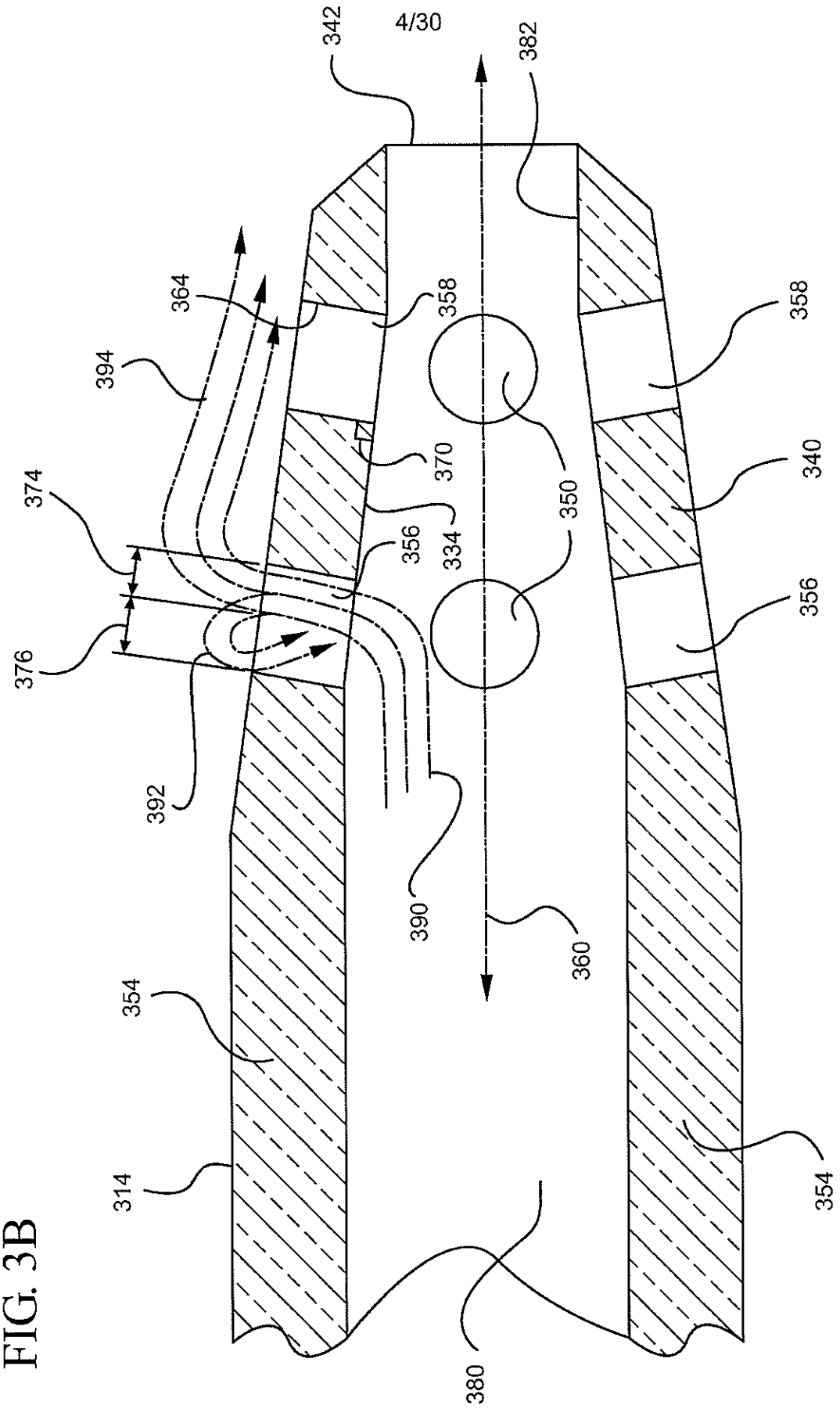

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380
354

FIG. 3B

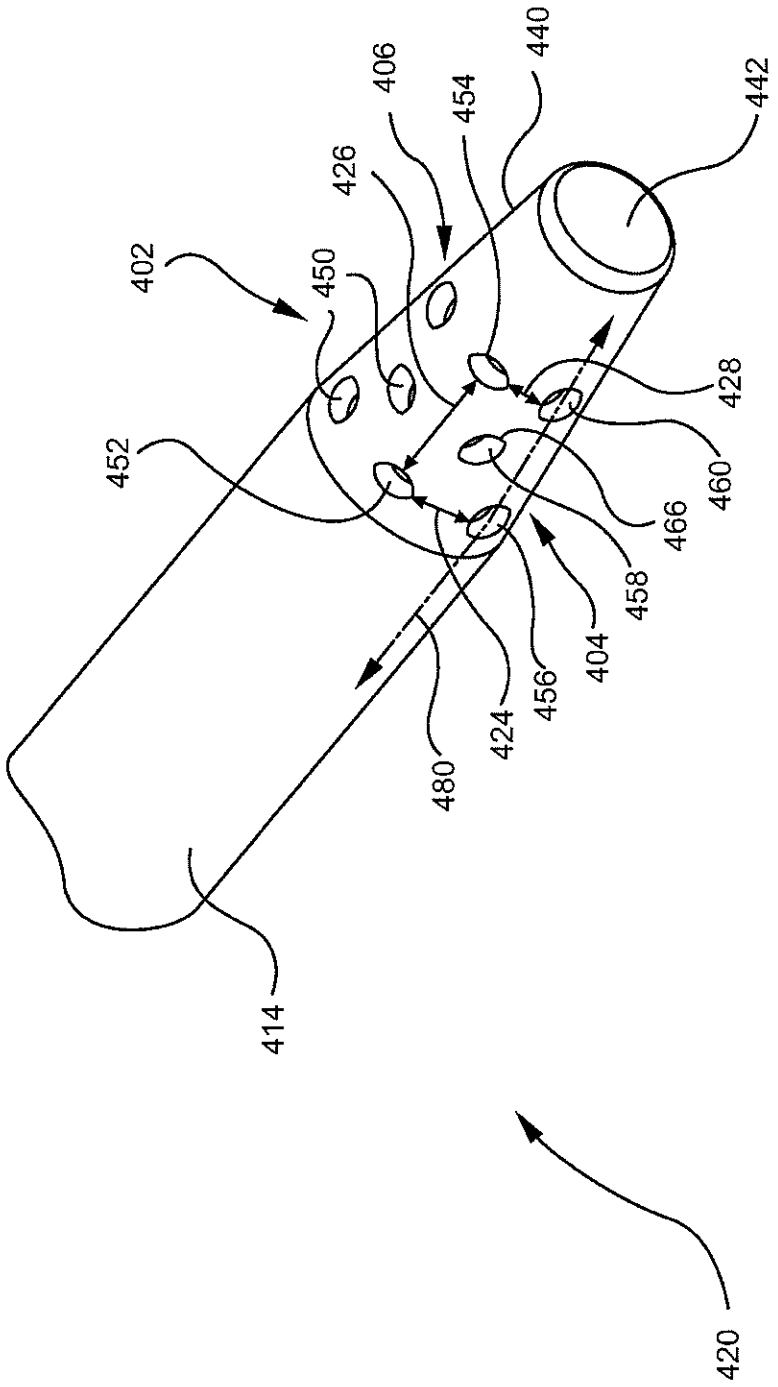

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414
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FIG. 4A

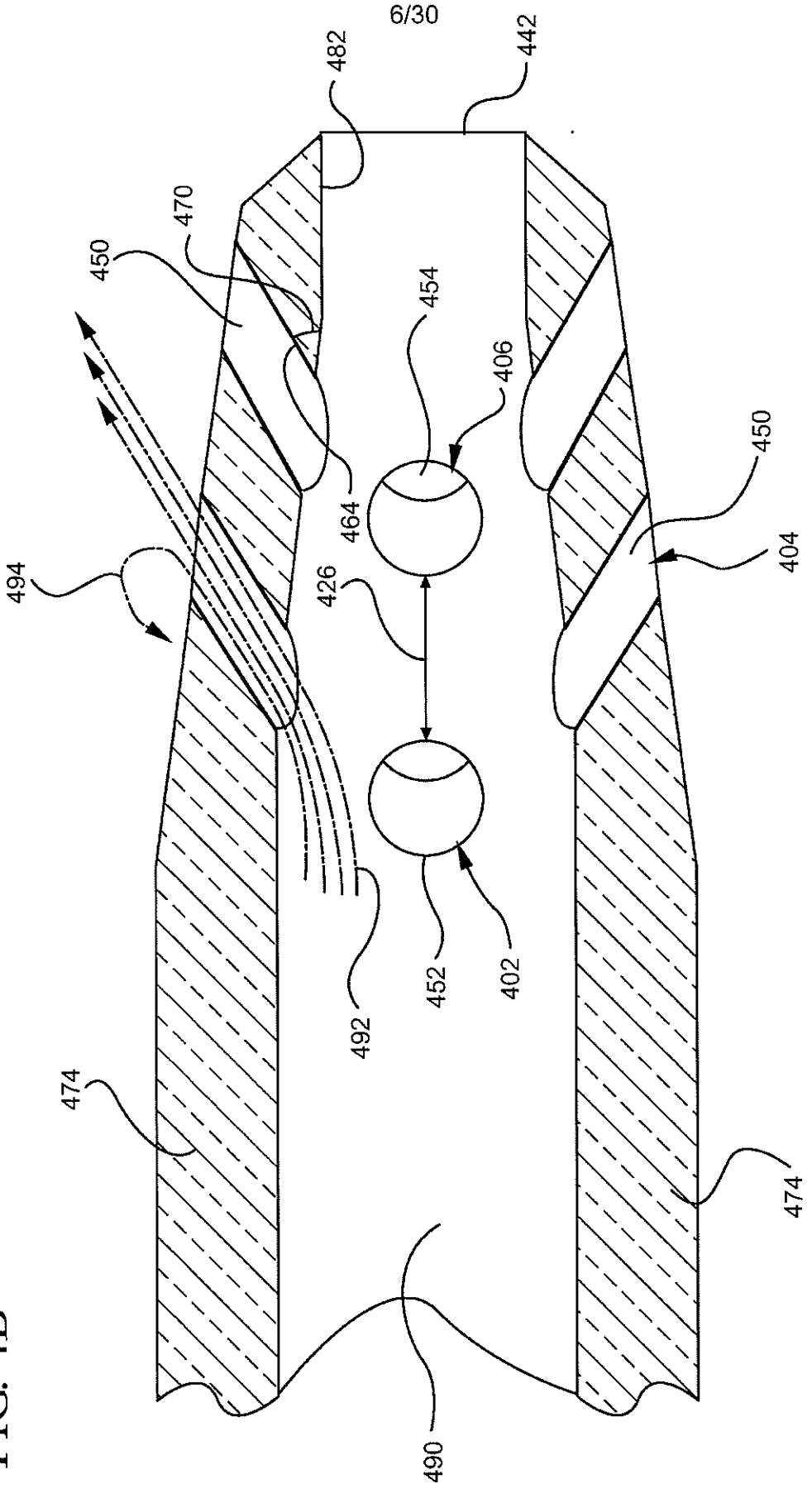

482
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452
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474
490

FIG. 4B

FIG. 5

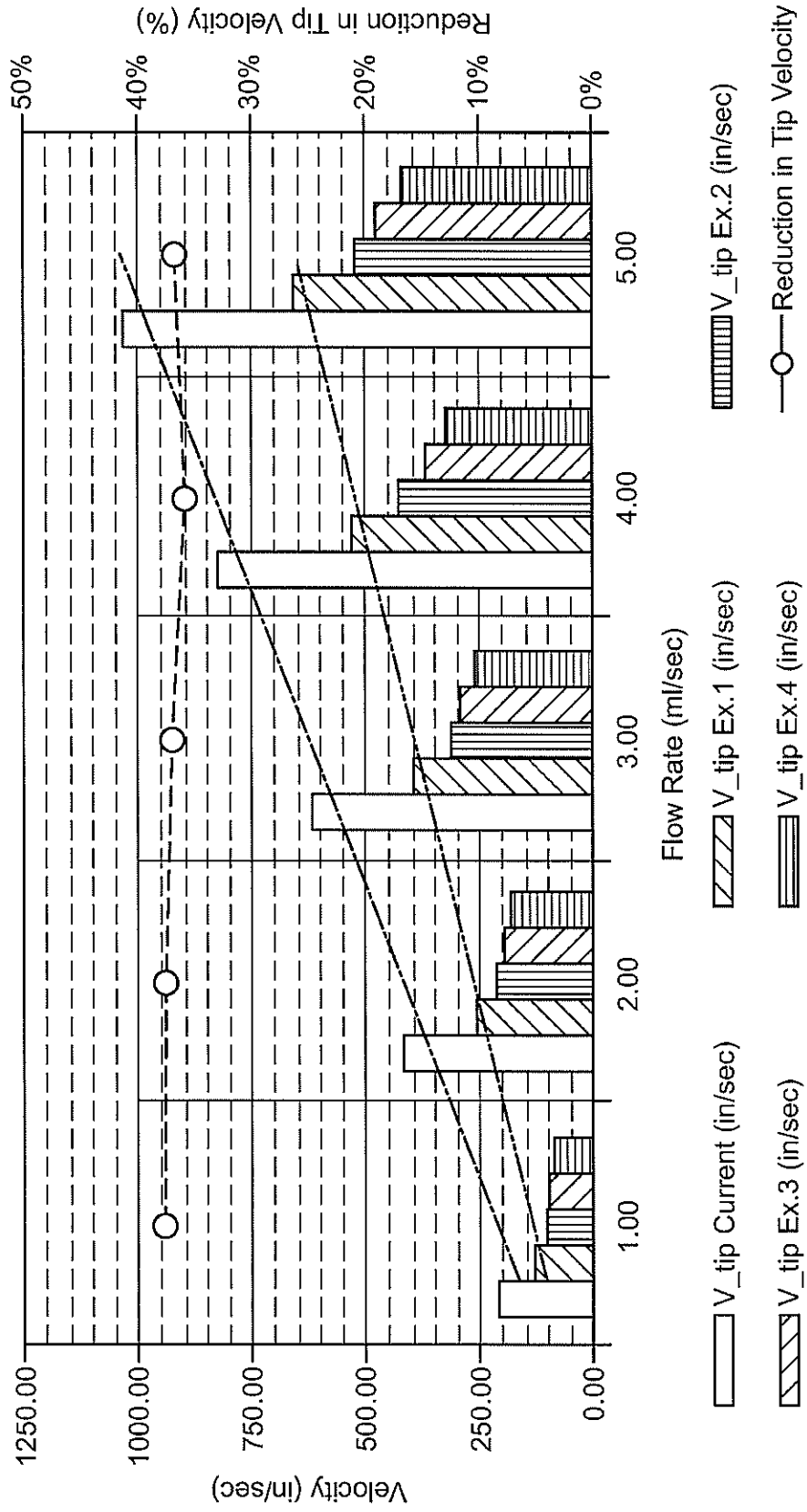
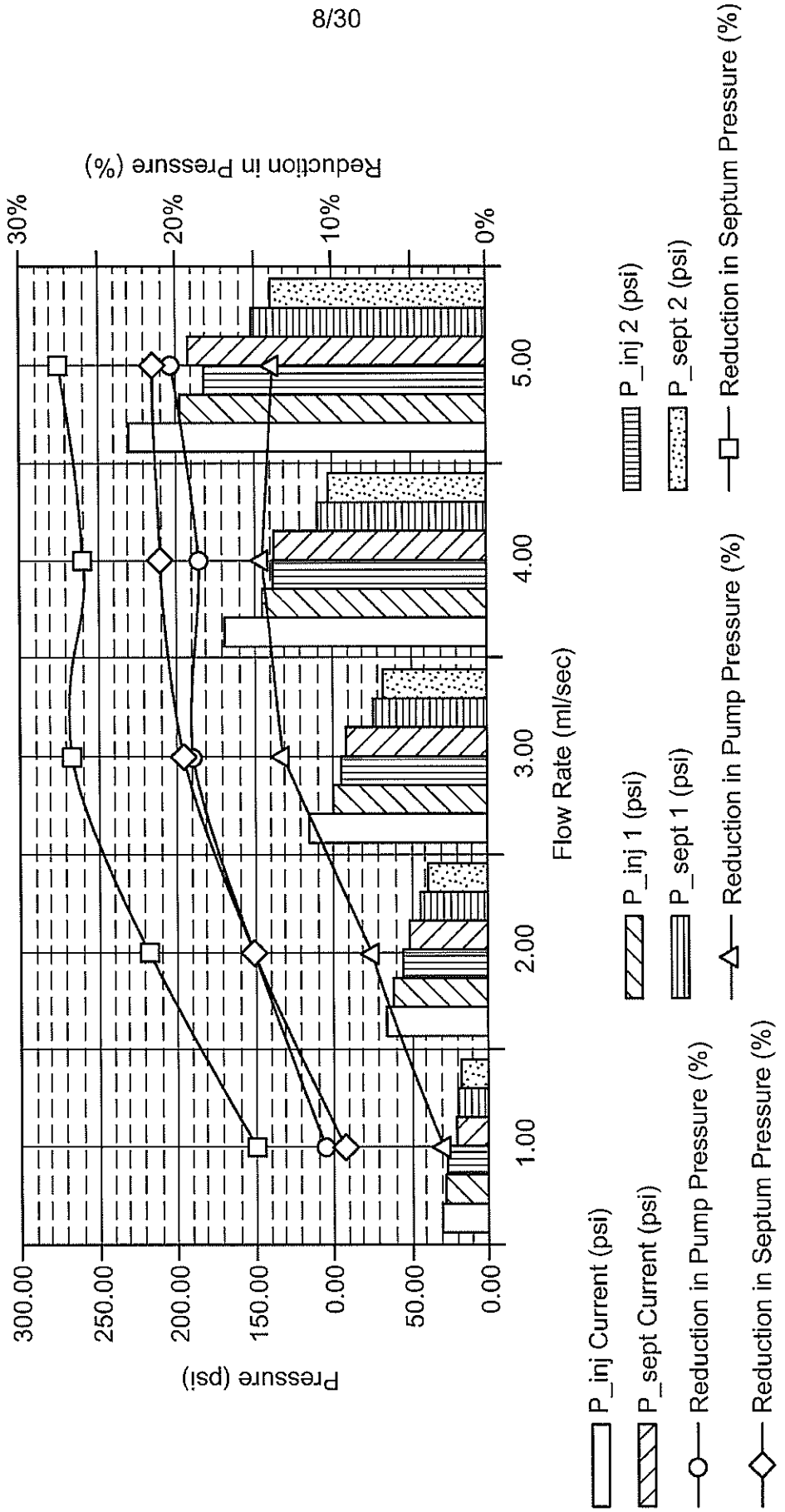

Reduction in Tip Velocity (%)
50%
40%
30%
20%
10%
0%
Velocity (in/sec)
1250.00
1000.00
750.00
500.00
250.00
0.00
1.00
2.00
3.00
4.00
5.00
Flow Rate (ml/sec)
V_tip Current (in/sec)
V_tip Ex.1 (in/sec)
V_tip Ex.2 (in/sec)
V_tip Ex.3 (in/sec)
V_tip Ex.4 (in/sec)
Reduction in Tip Velocity

FIG. 6


Reduction in Pressure (%)
30%
20%
10%
0%
Pressure (psi)
300.00
250.00
200.00
150.00
0.00
50.00
0.00
1.00
2.00
3.00
4.00
5.00
Flow Rate (ml/sec)
P_inj Current (psi)
P_sept Current (psi)
Reduction in Pump Pressure (%)
Reduction in Septum Pressure (%)
P_inj 1 (psi)
P_sept 1 (psi)
Reduction in Pump Pressure (%)
P_inj 2 (psi)
P_sept 2 (psi)
Reduction in Septum Pressure (%)

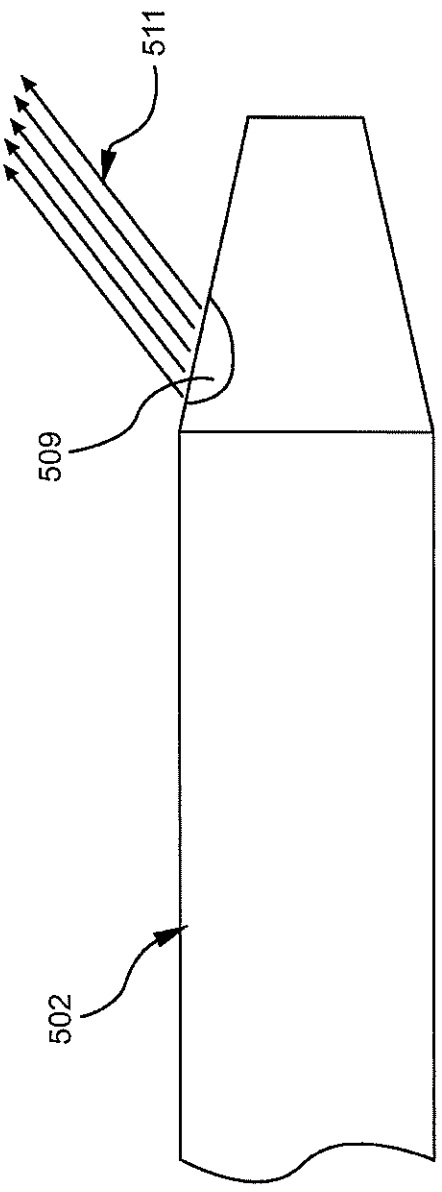


FIG. 7A

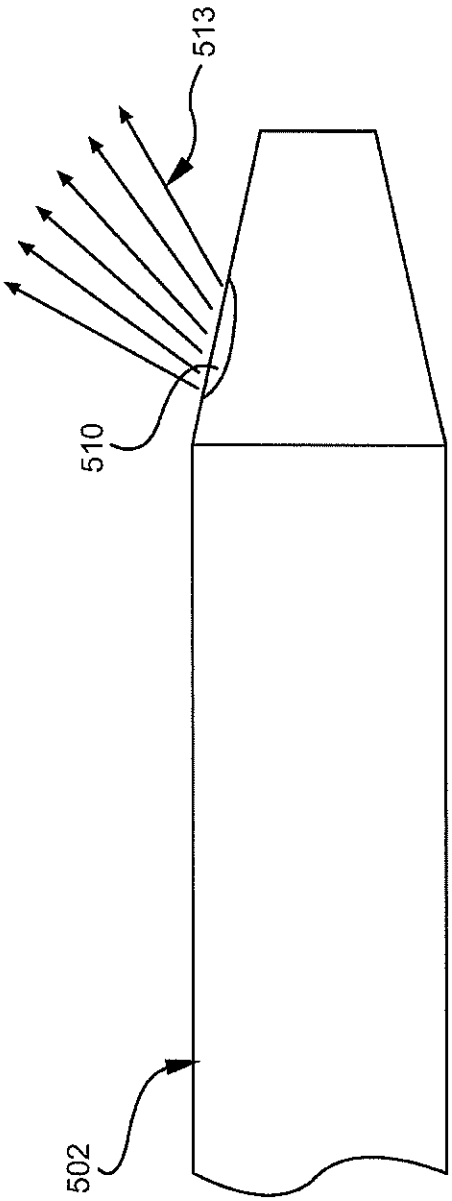


FIG. 7B

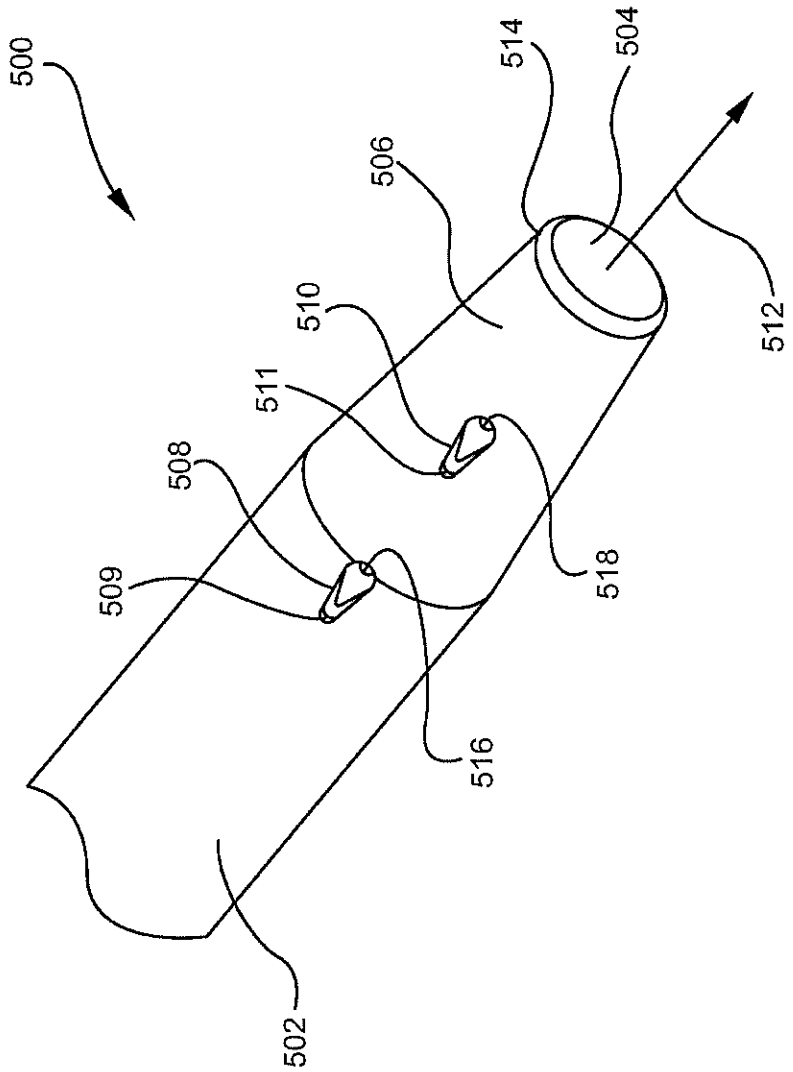


FIG. 8

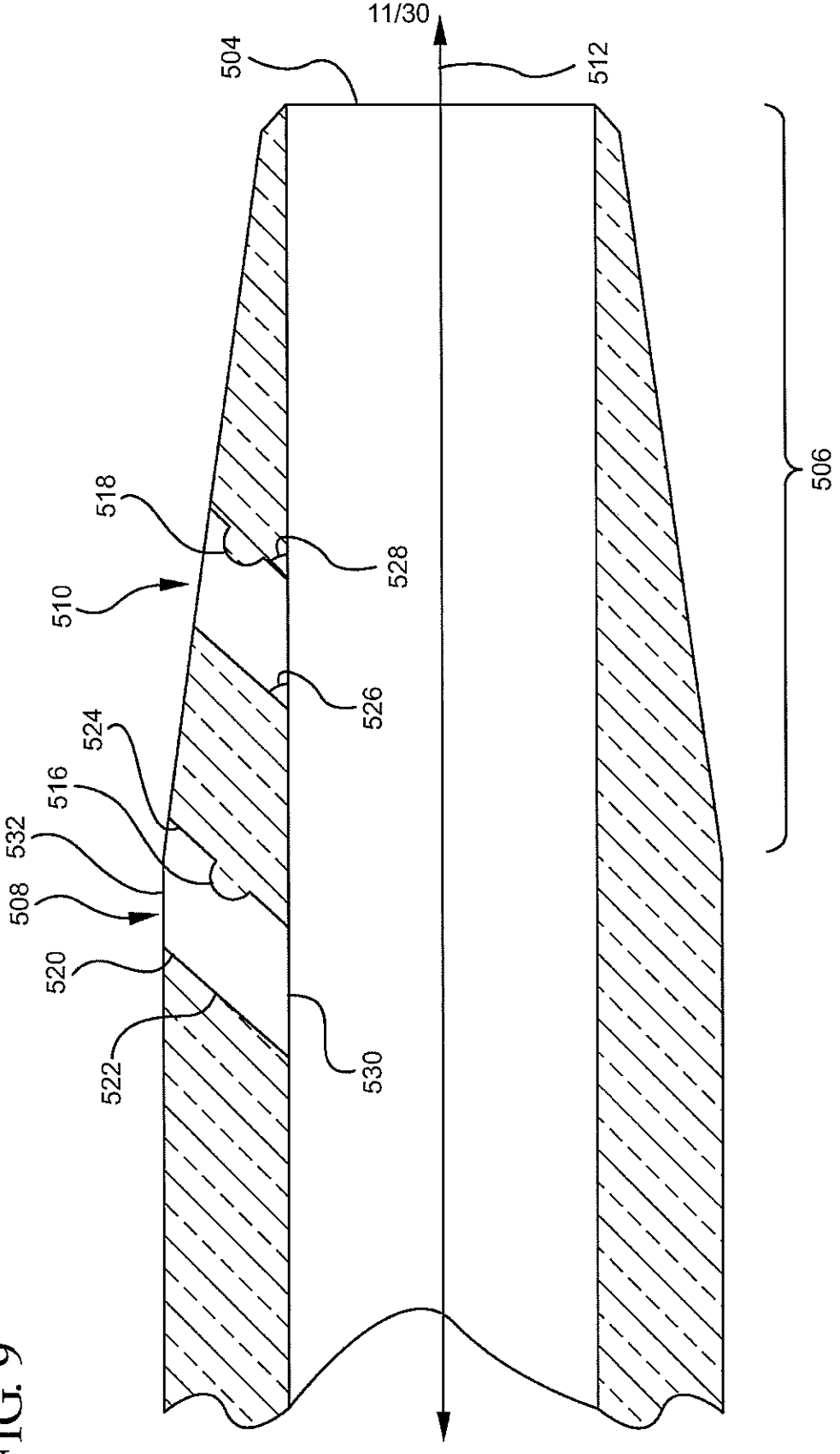


FIG. 9

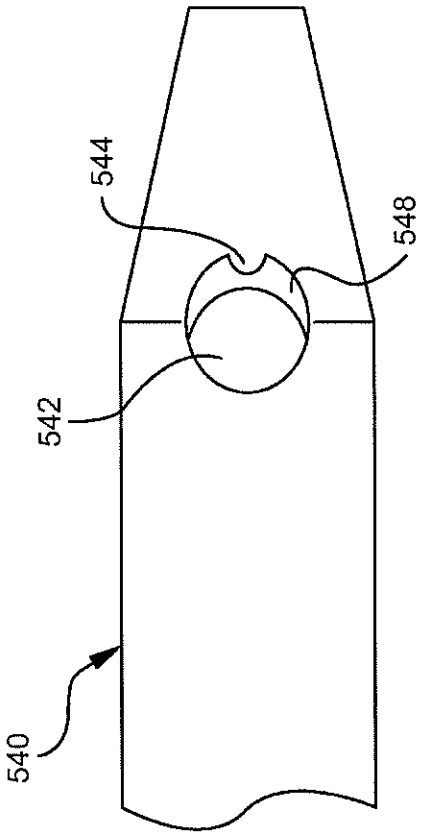


FIG. 10A

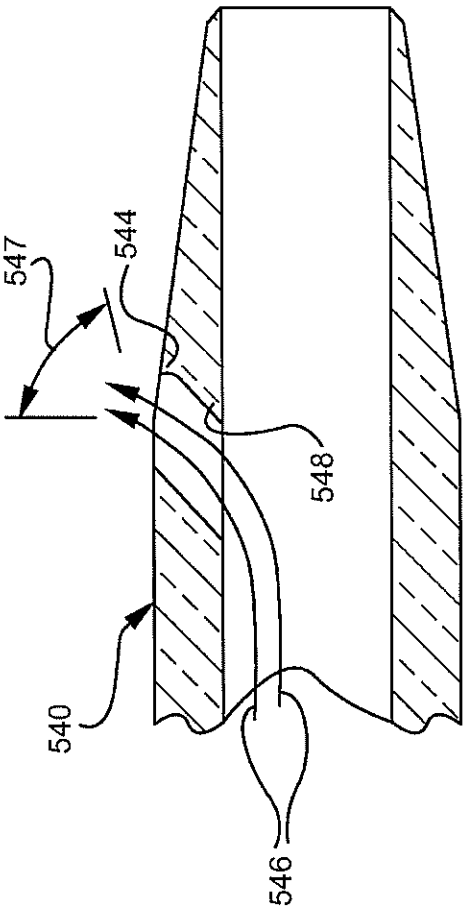


FIG. 10B

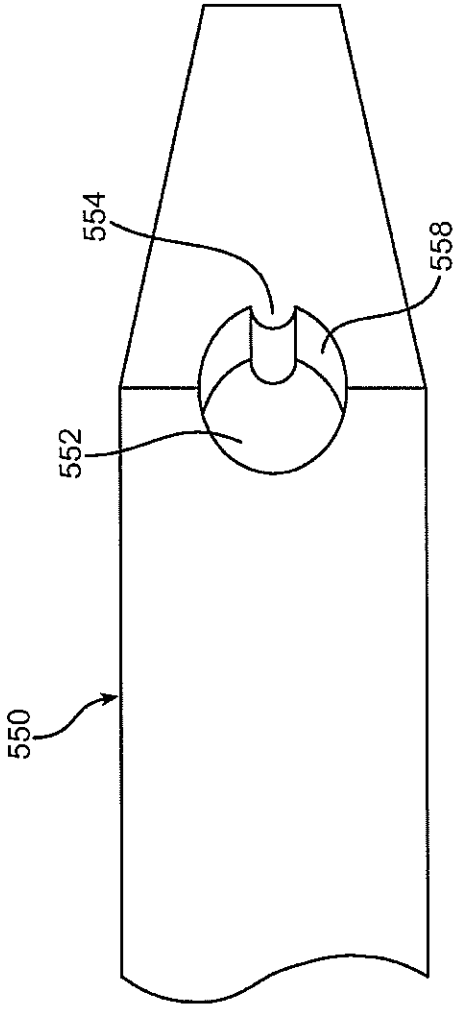


FIG. 11A

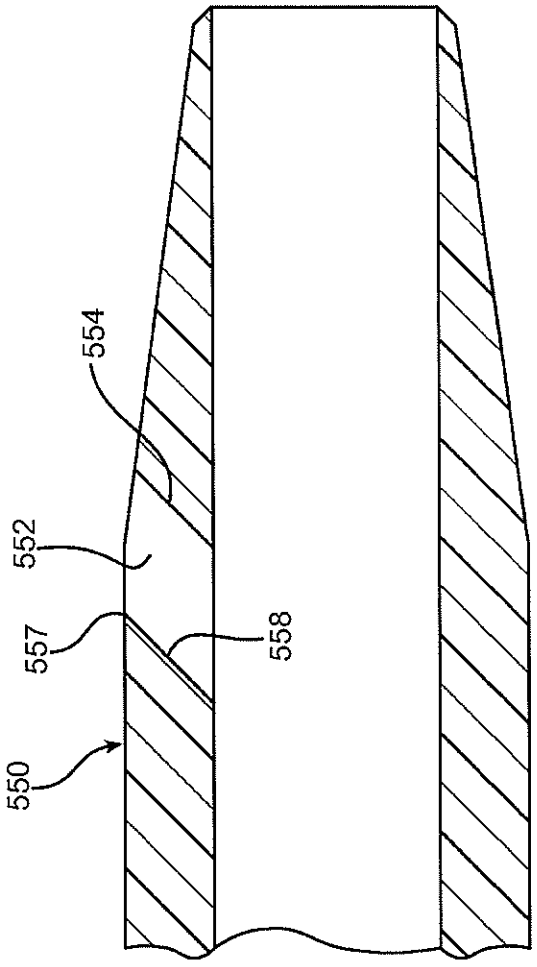


FIG. 11B

FIG. 12

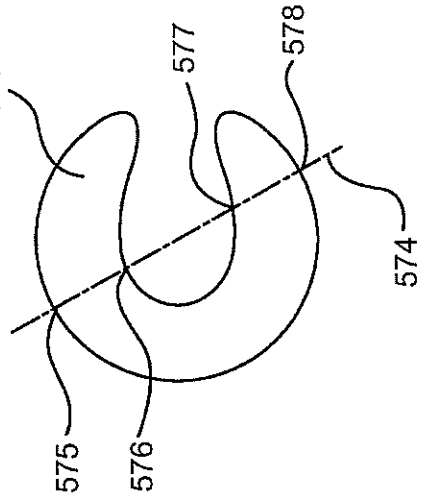


FIG. 13

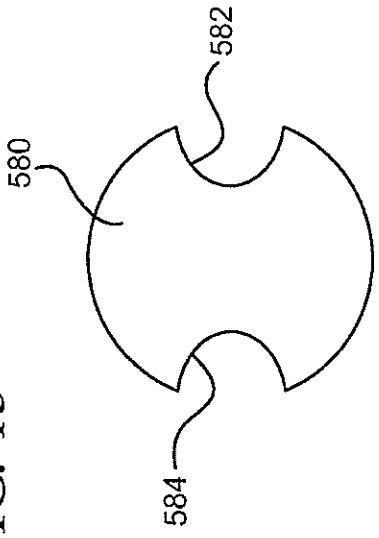


FIG. 14

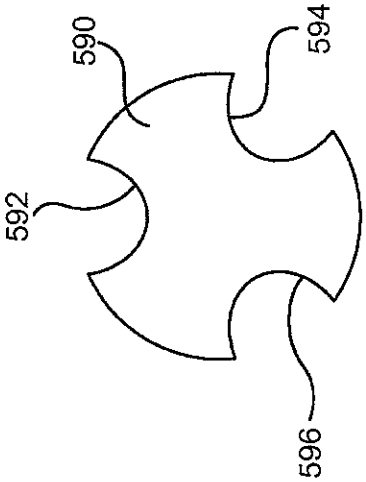


FIG. 15

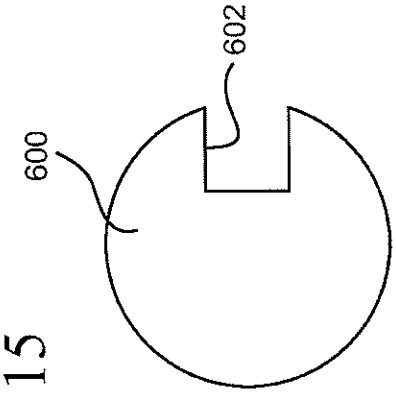
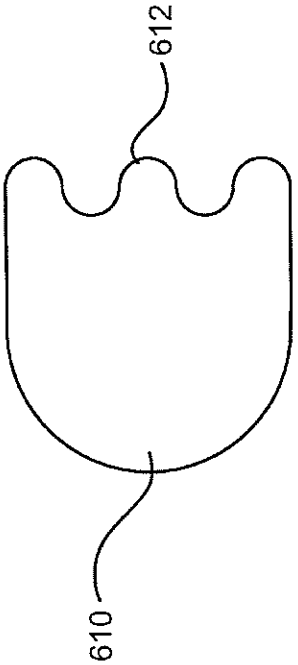


FIG. 16



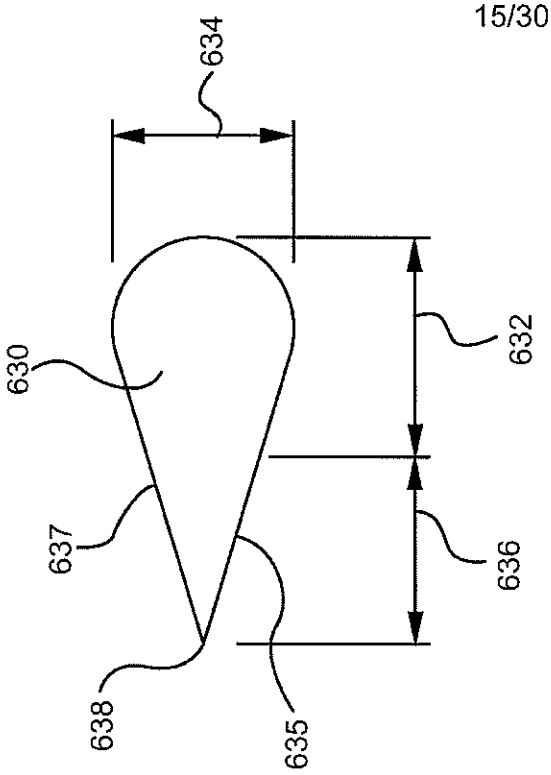


FIG. 18

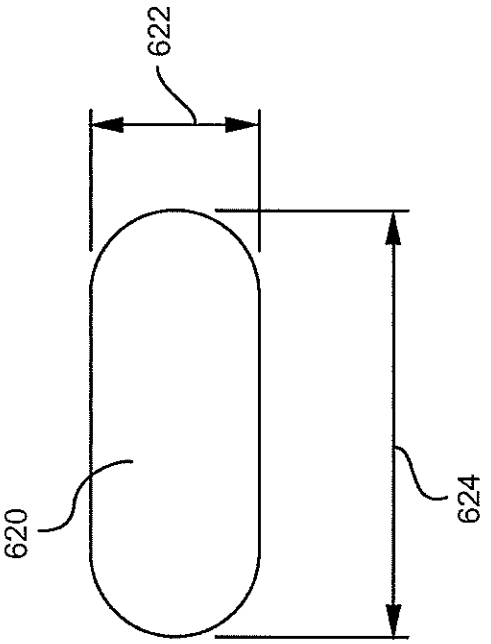


FIG. 17

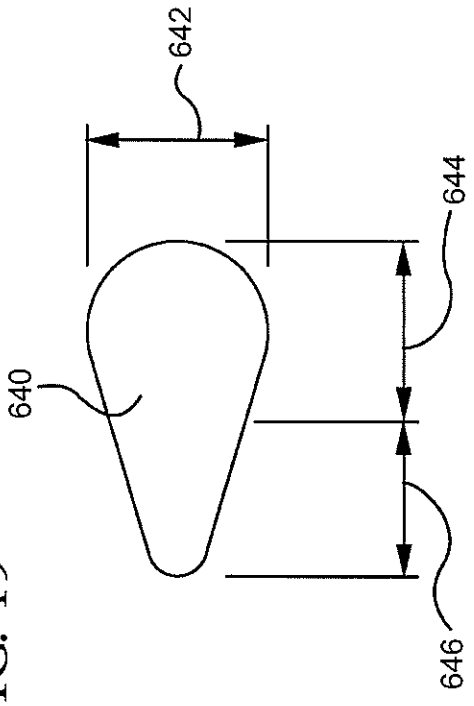


FIG. 19

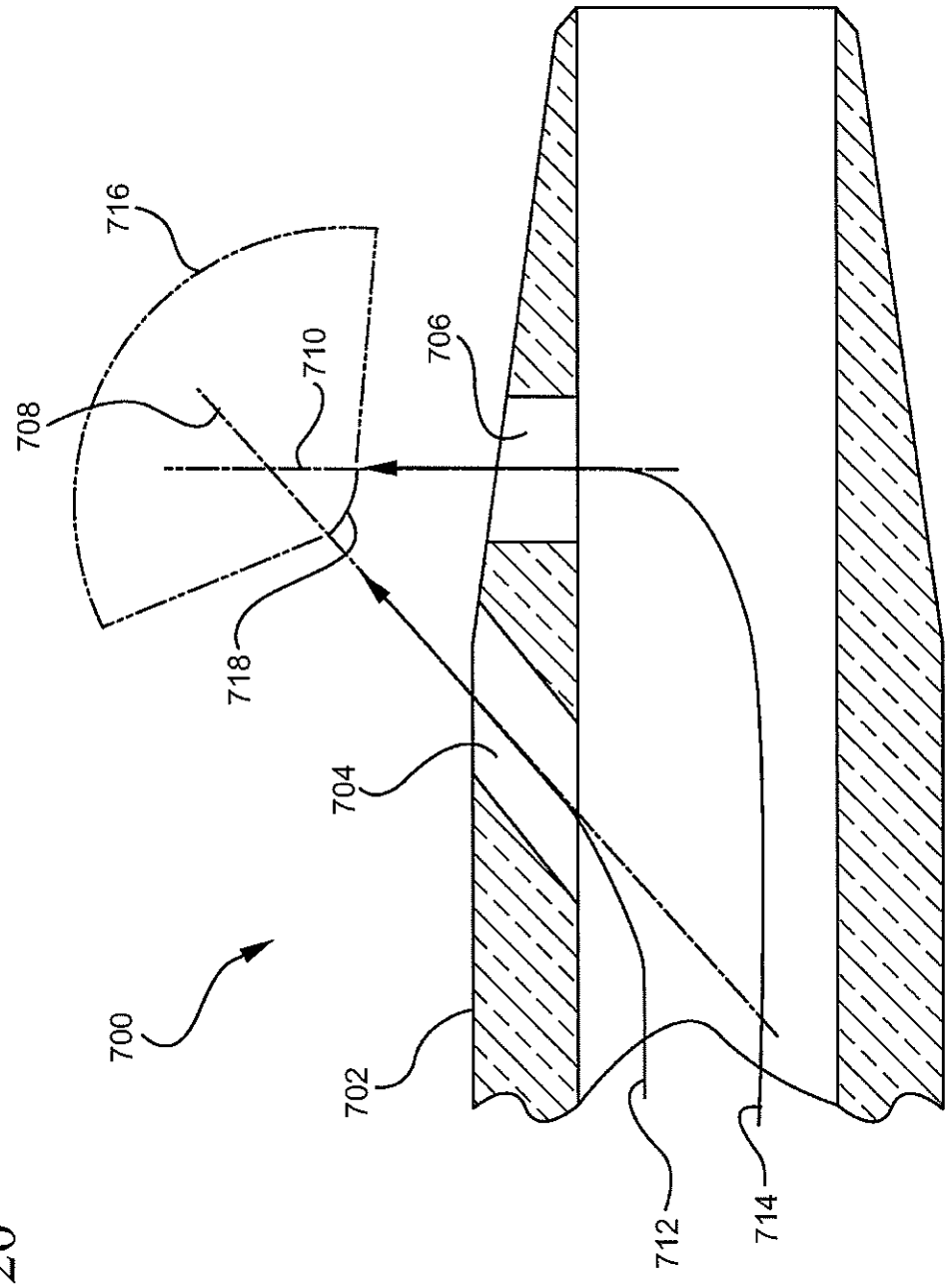


FIG. 20

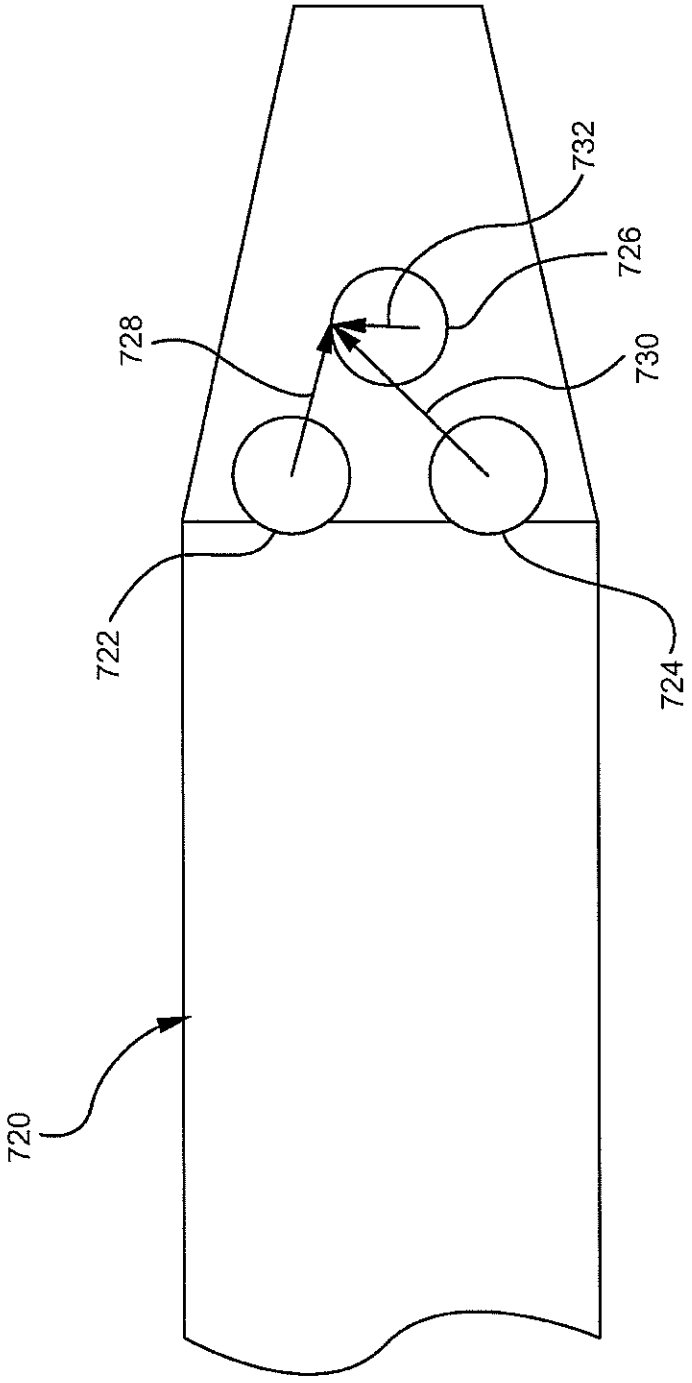


FIG. 21

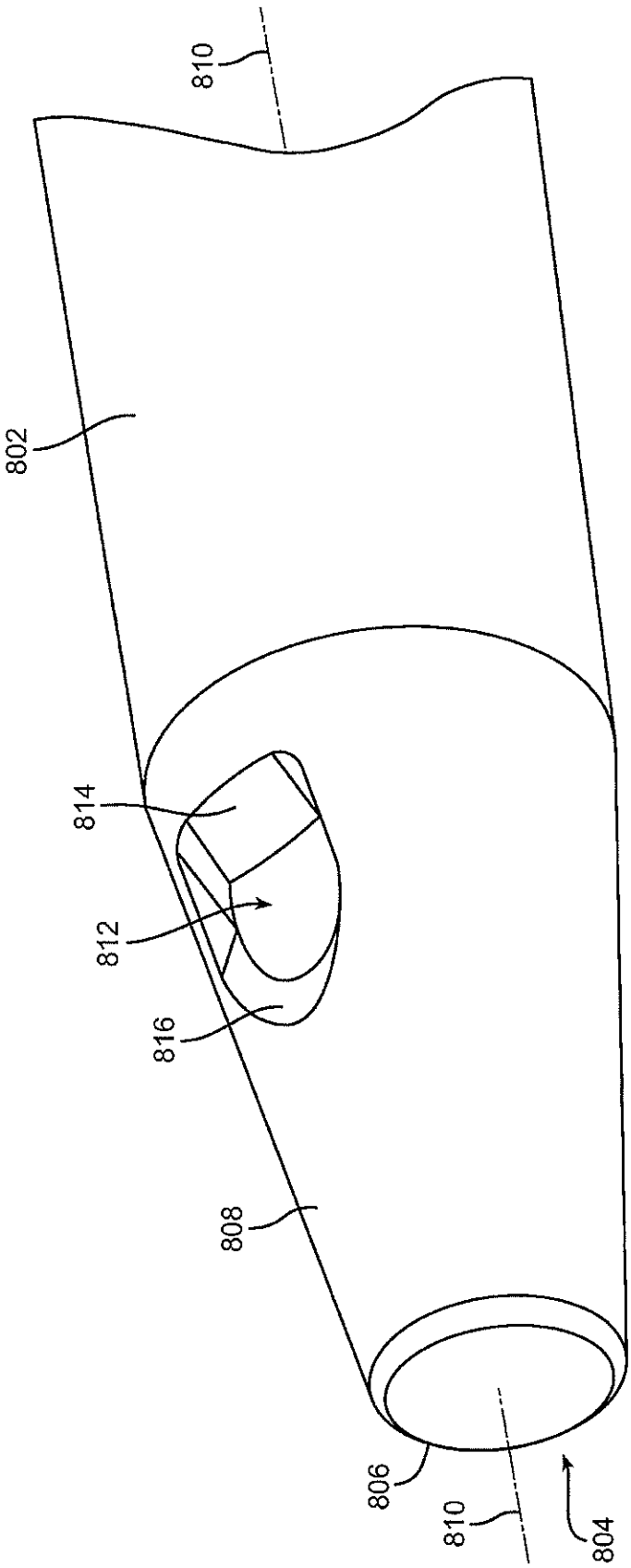


FIG. 22

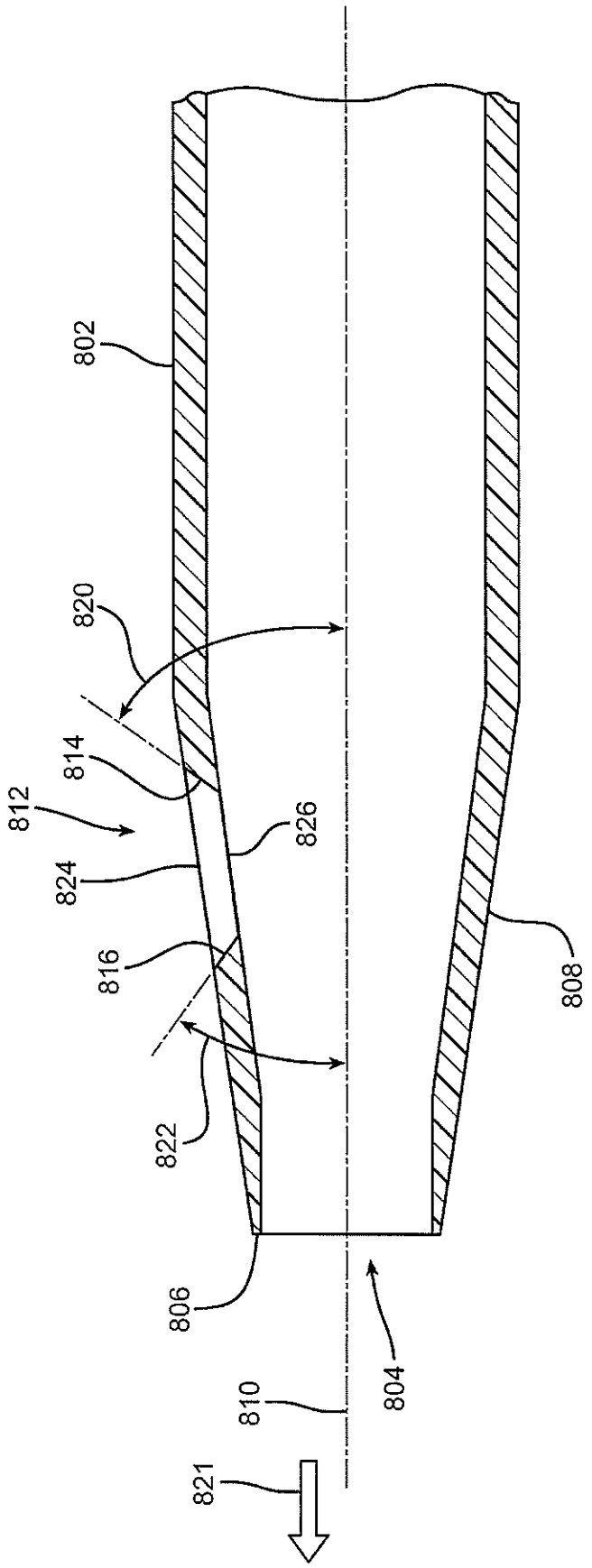


FIG. 23

FIG. 24A

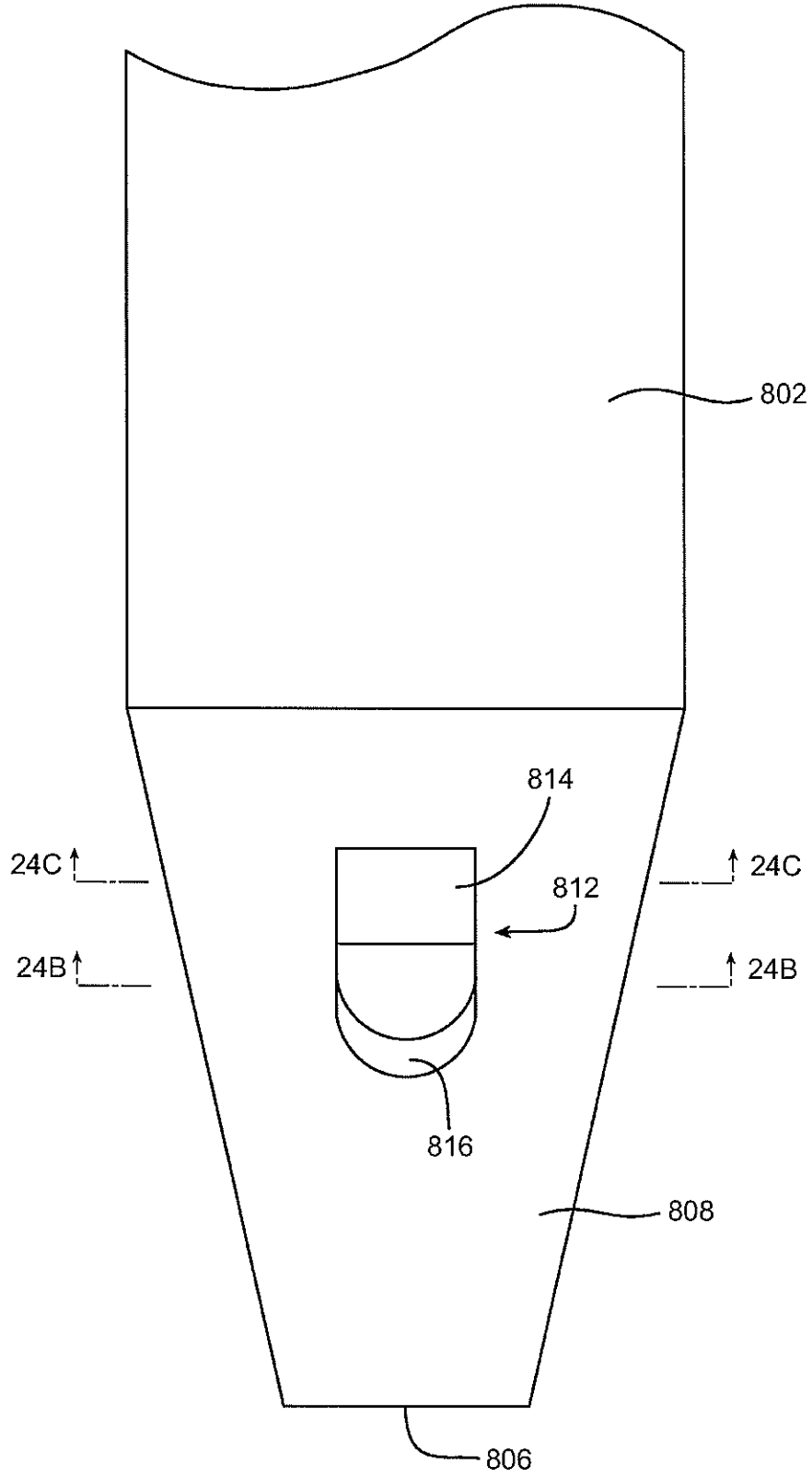


FIG. 24B

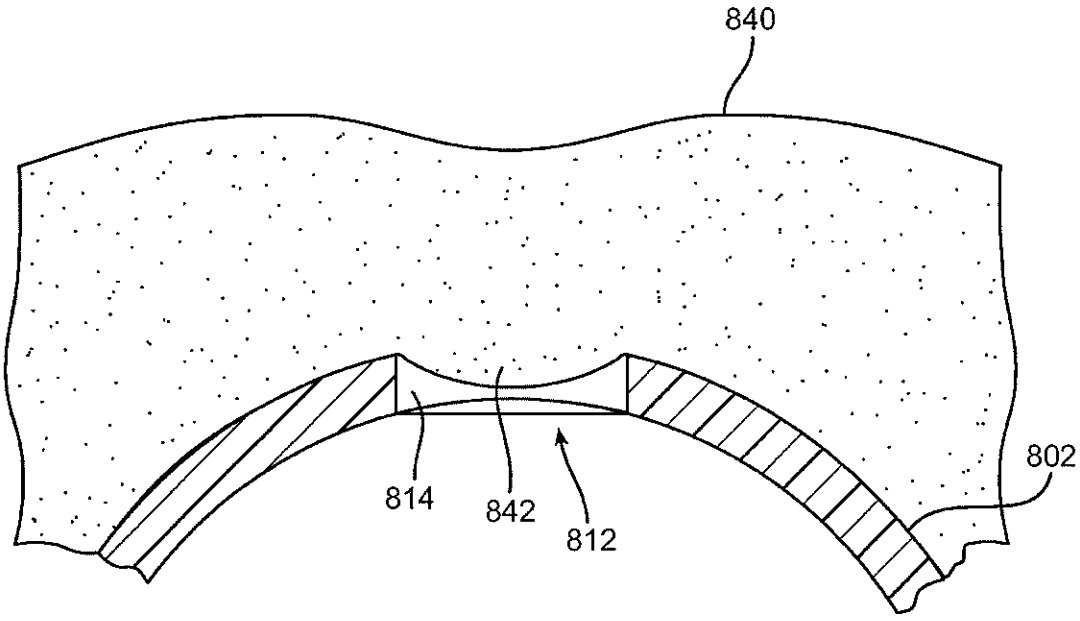
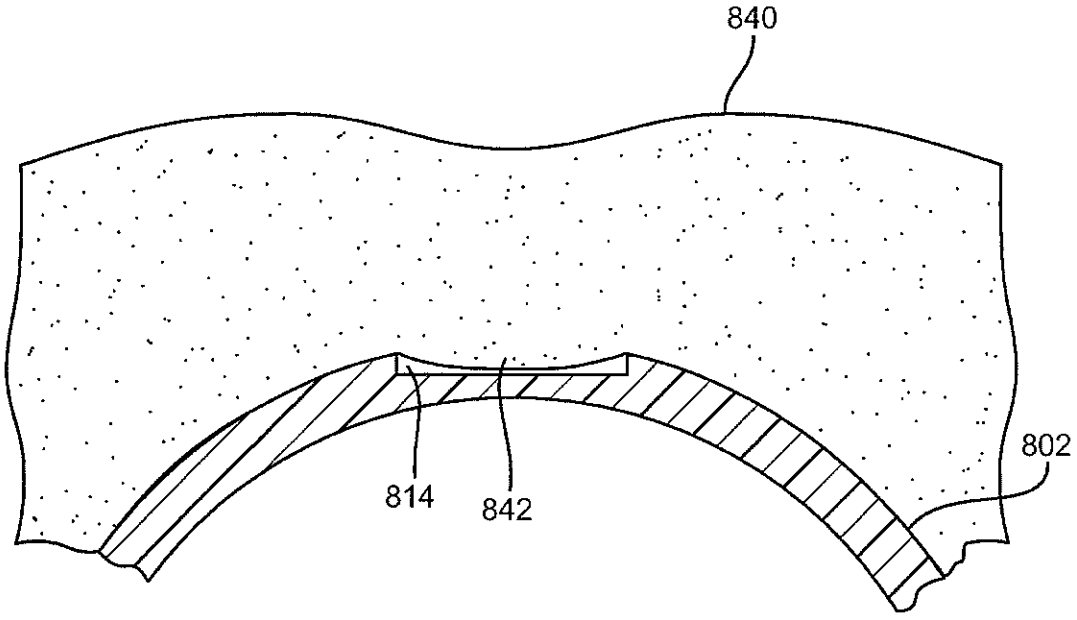


FIG. 24C



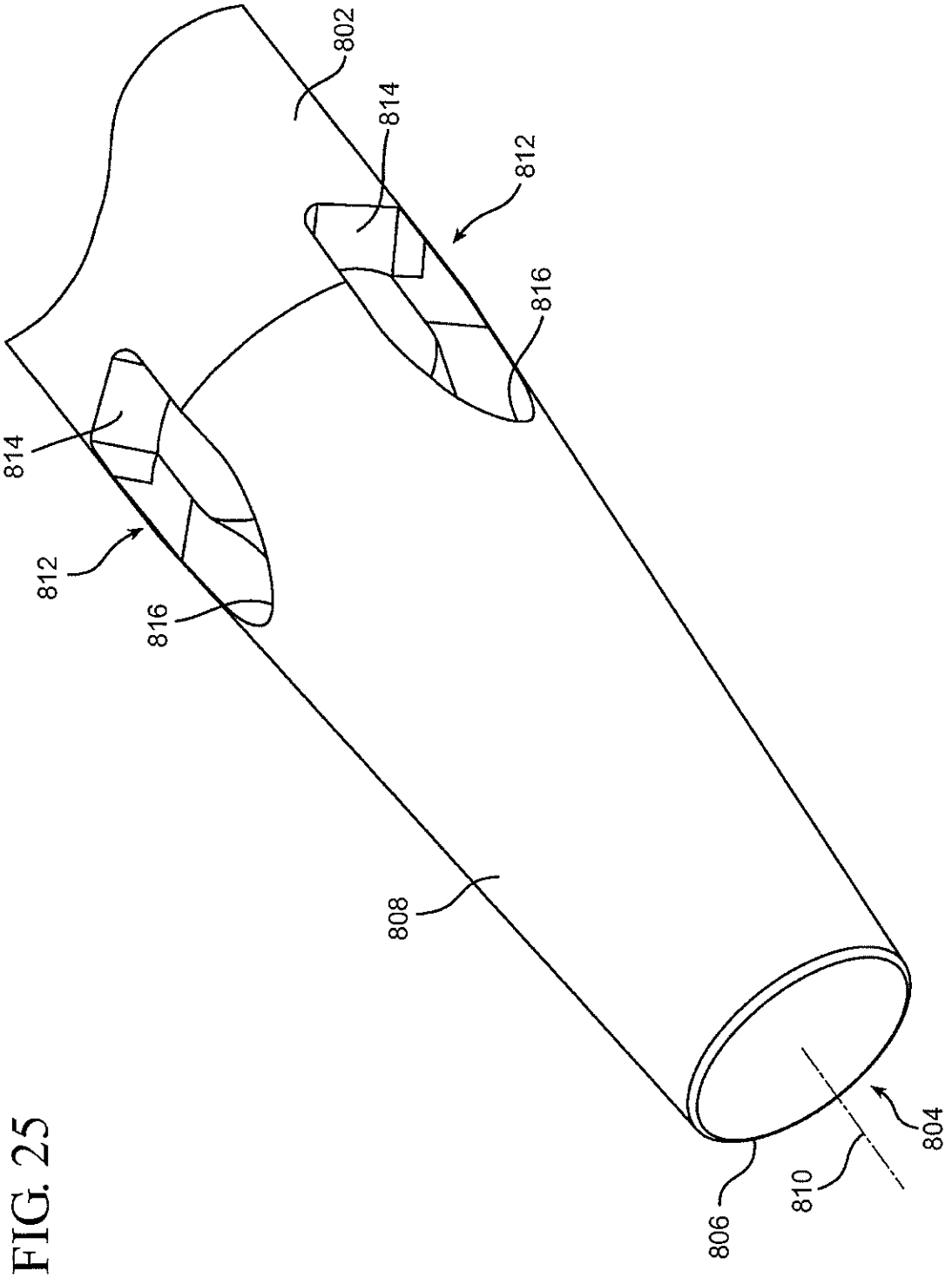


FIG. 25

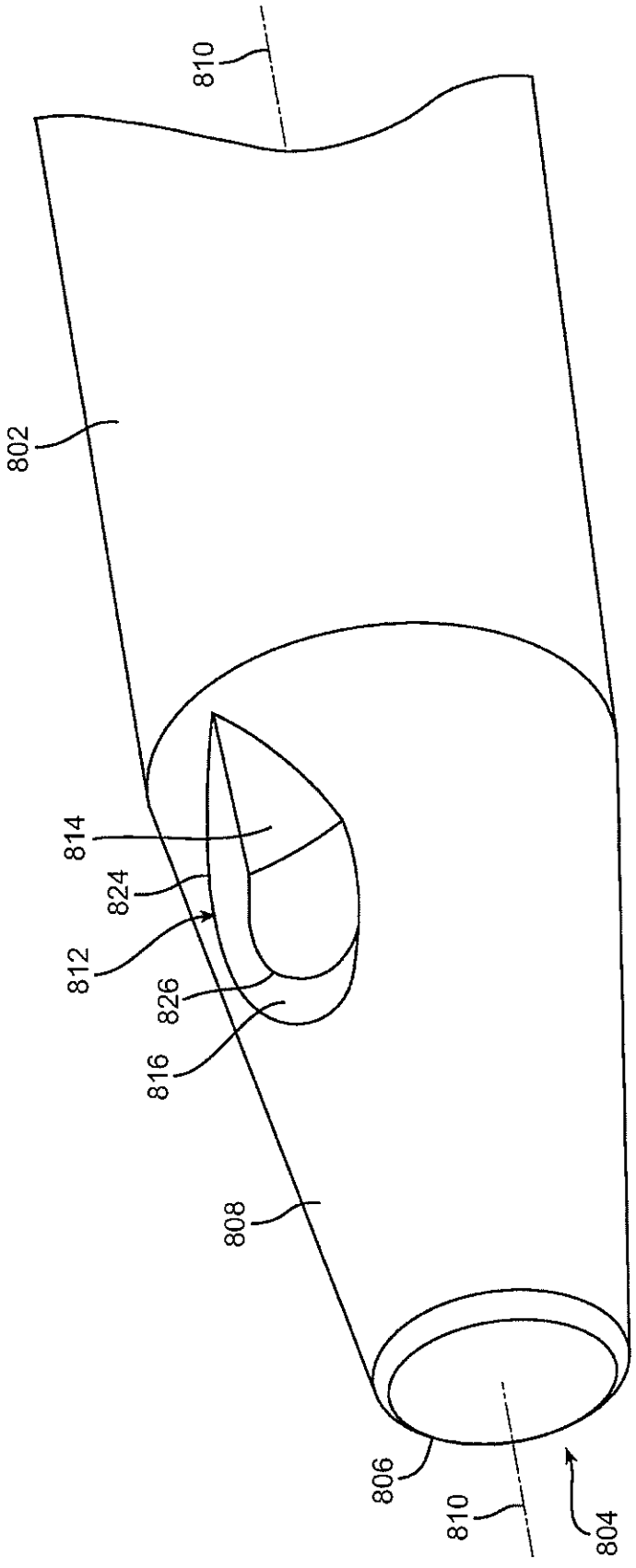


FIG. 26

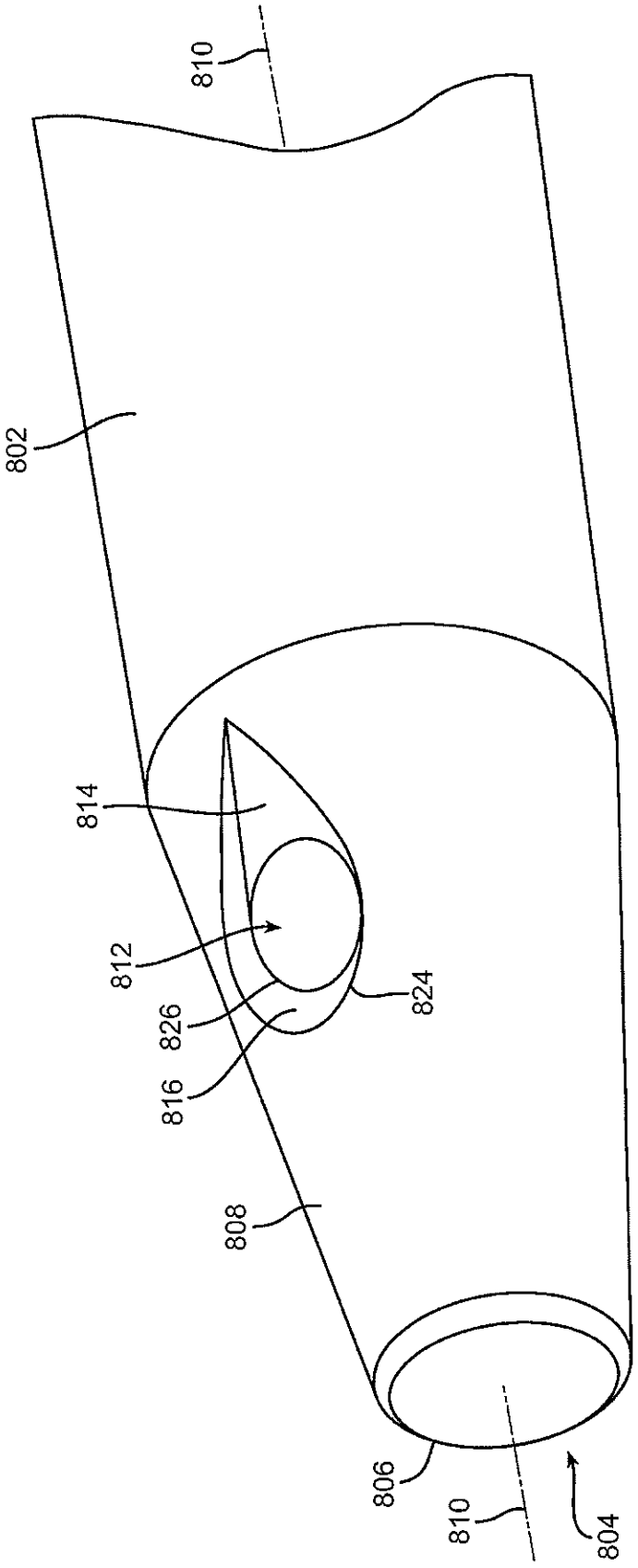


FIG. 27

FIG. 28A

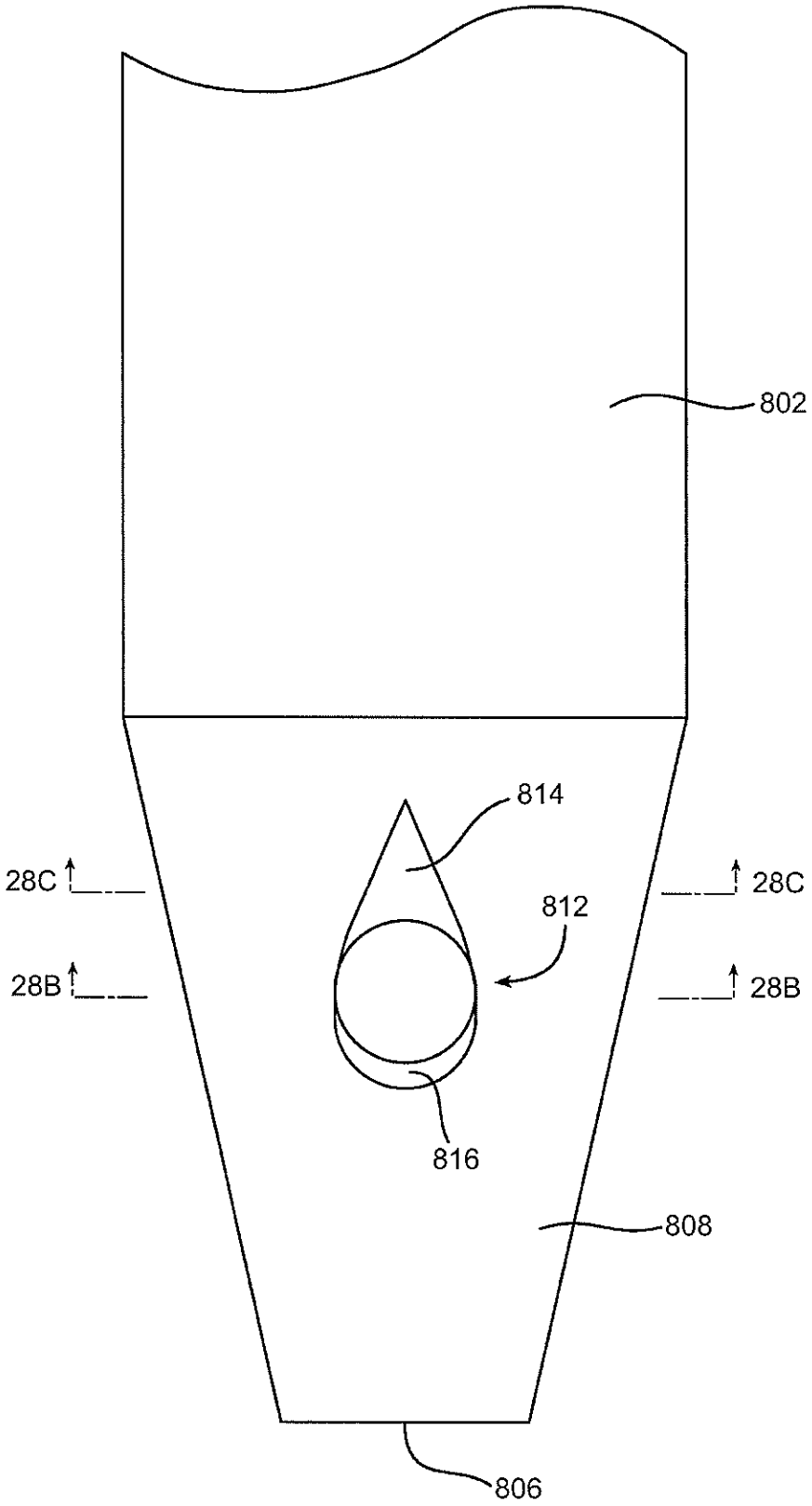


FIG. 28B

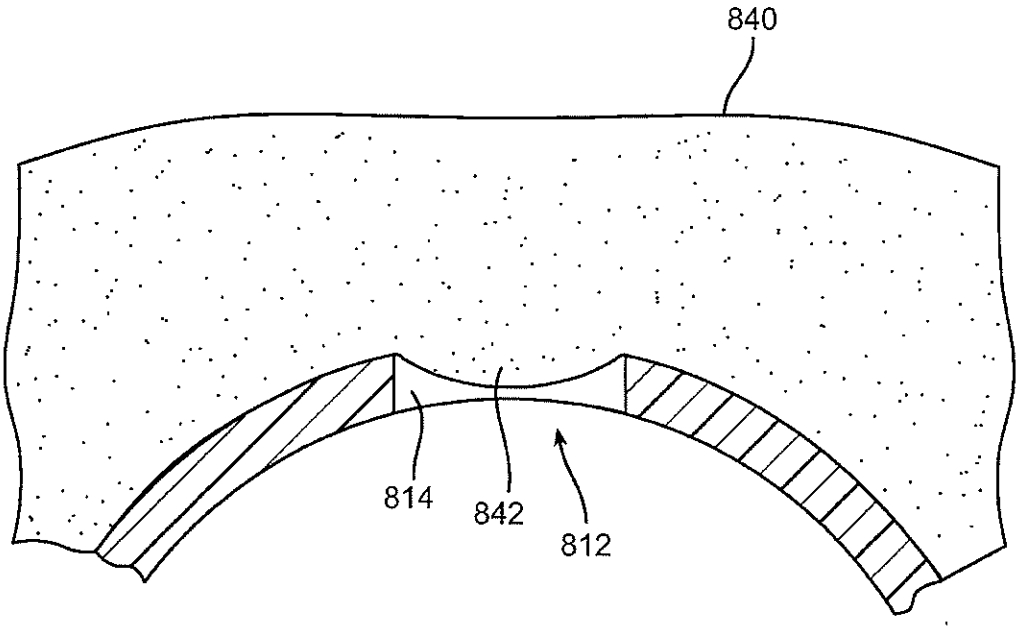
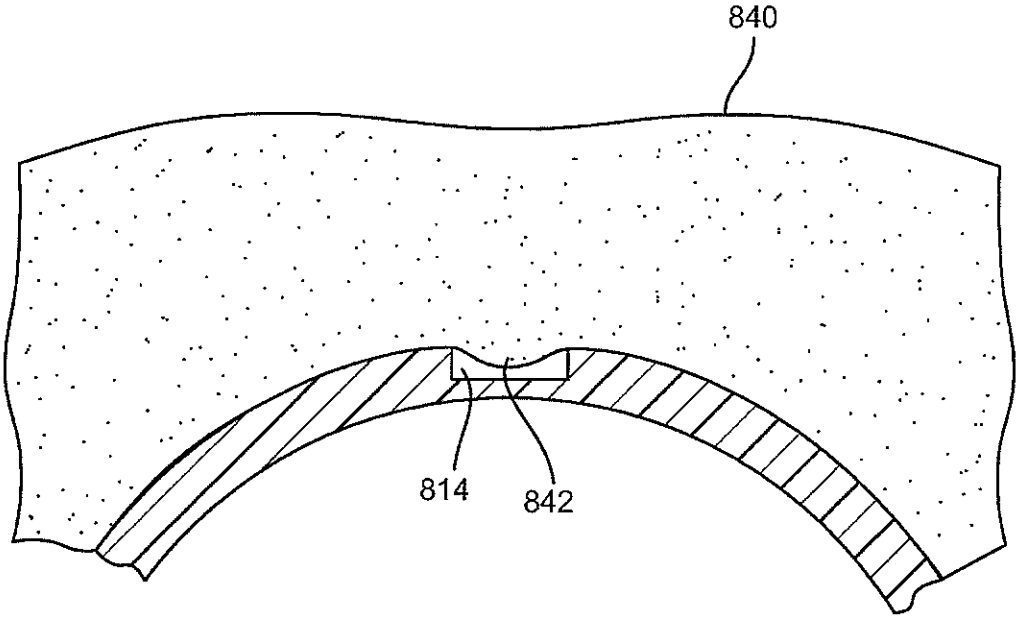


FIG. 28C



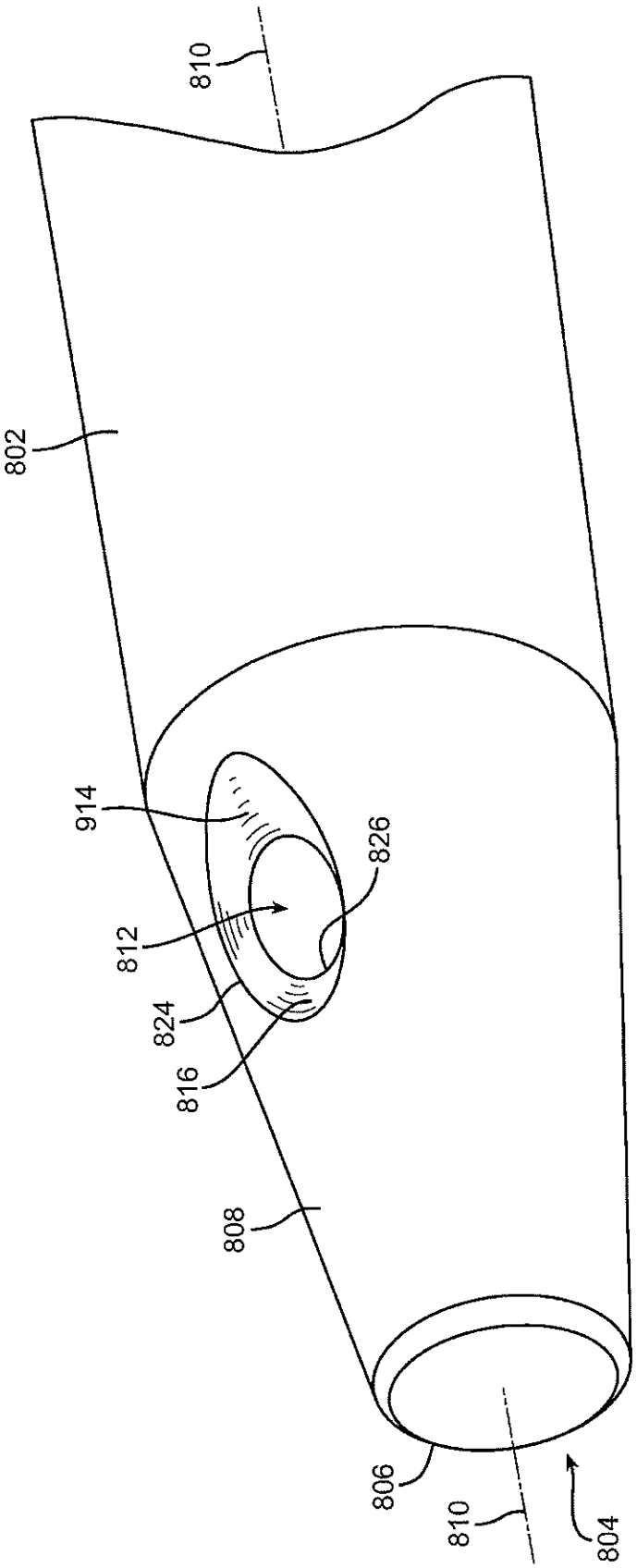


FIG. 29

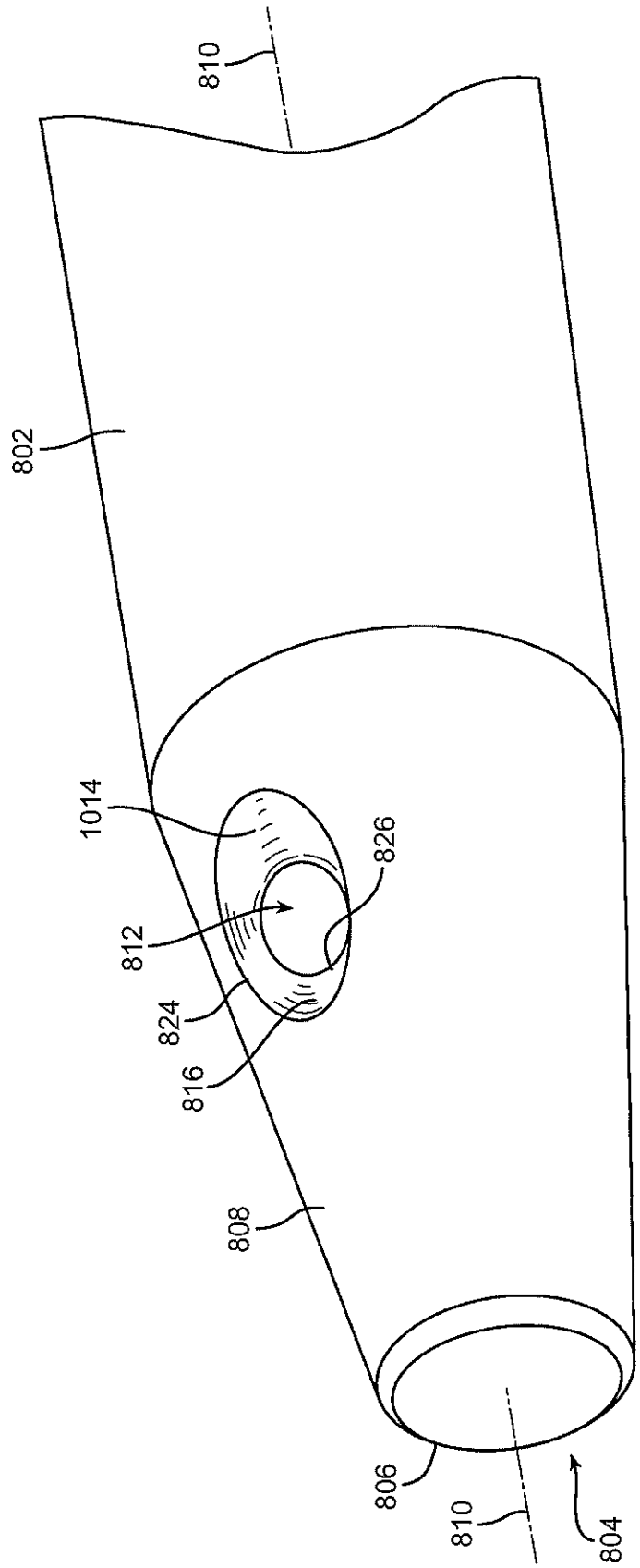
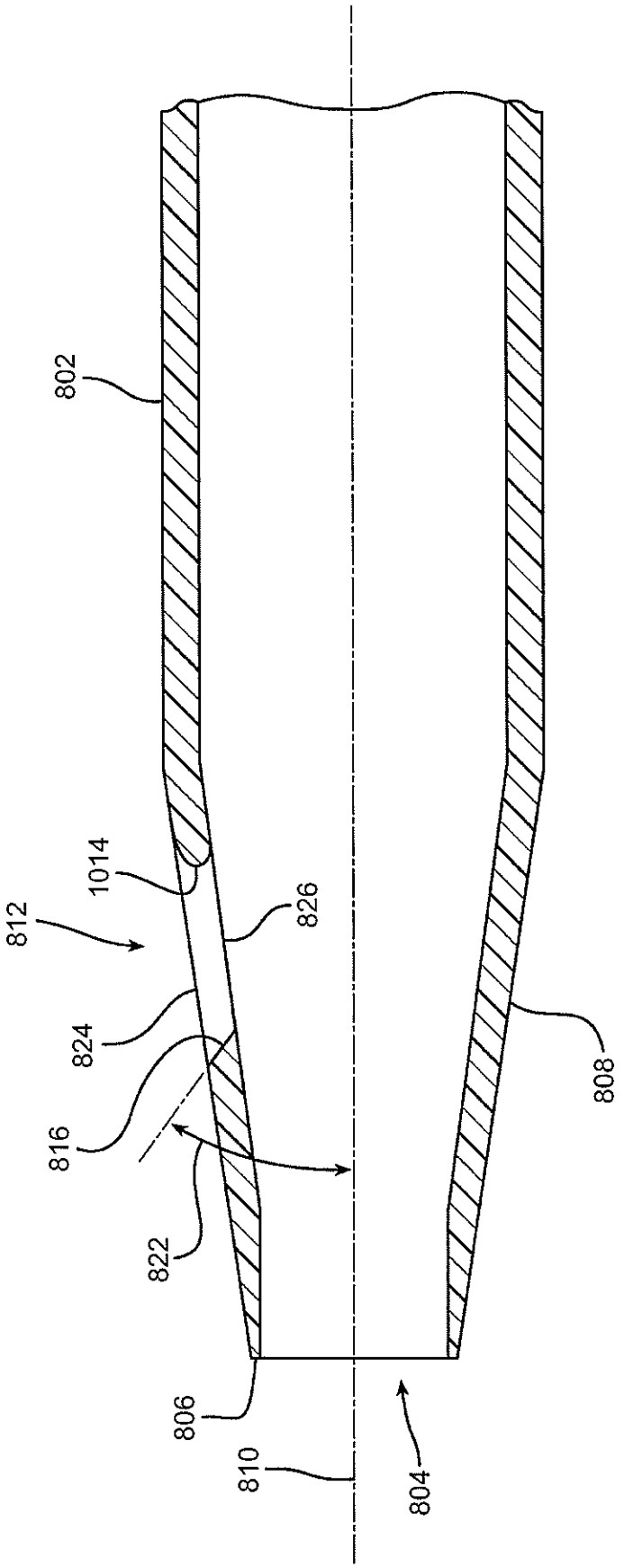


FIG. 30

FIG. 31



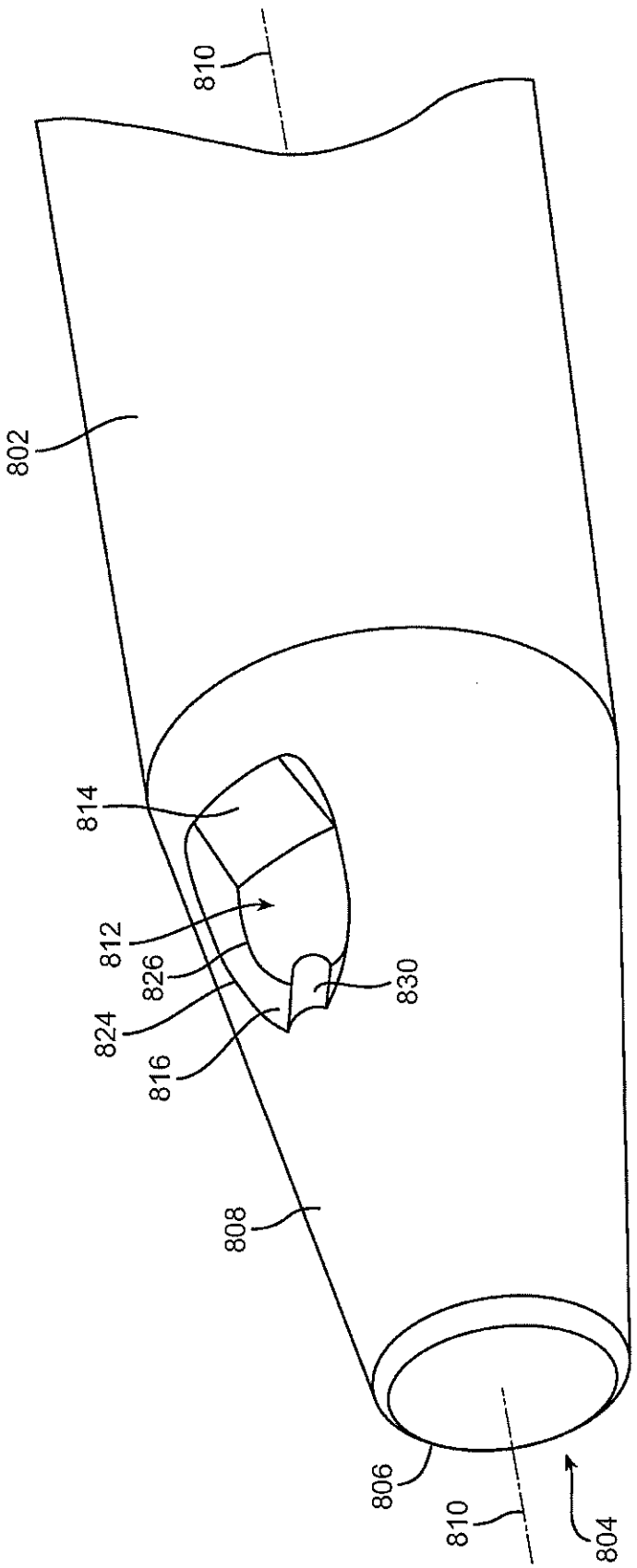


FIG. 32