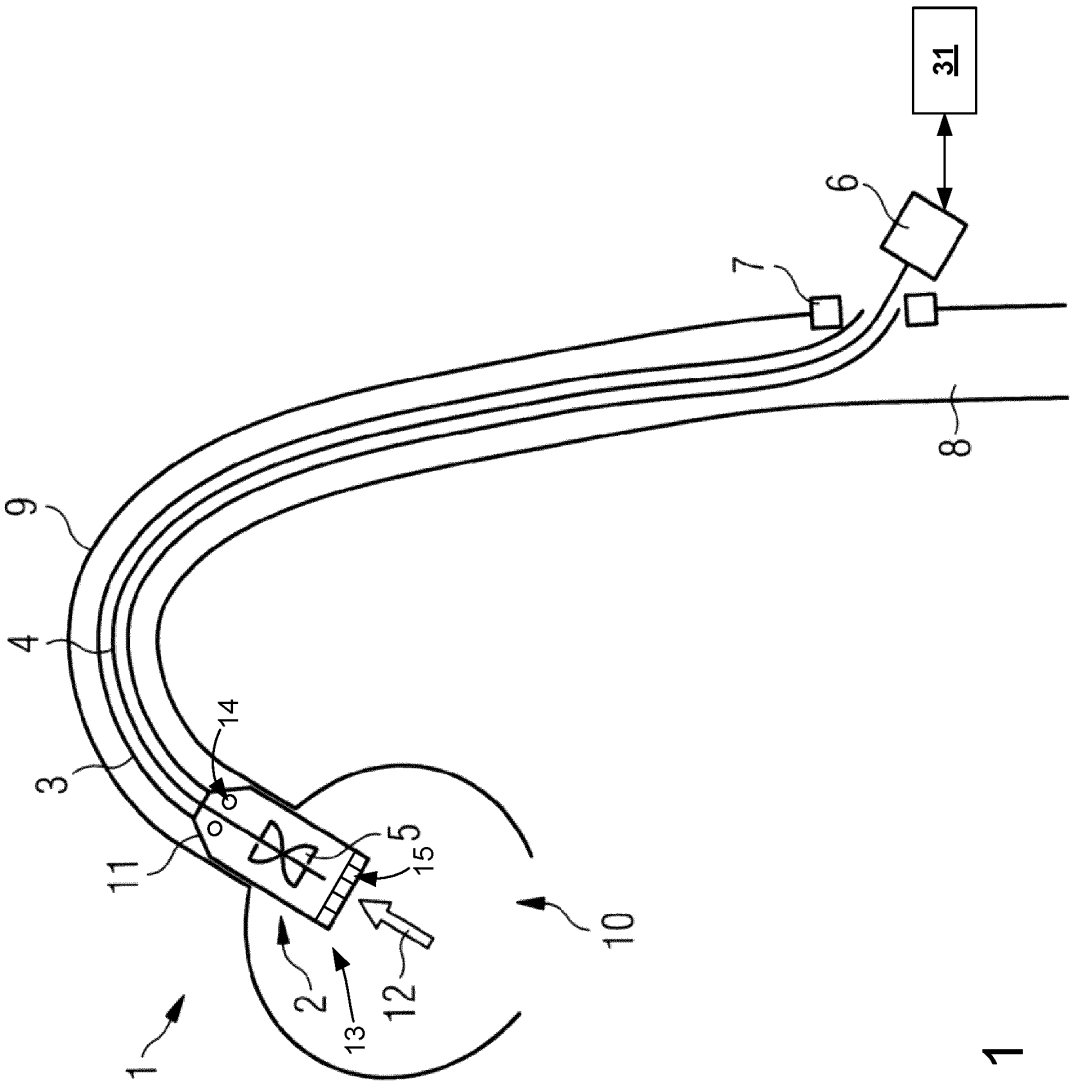


FIG. 1

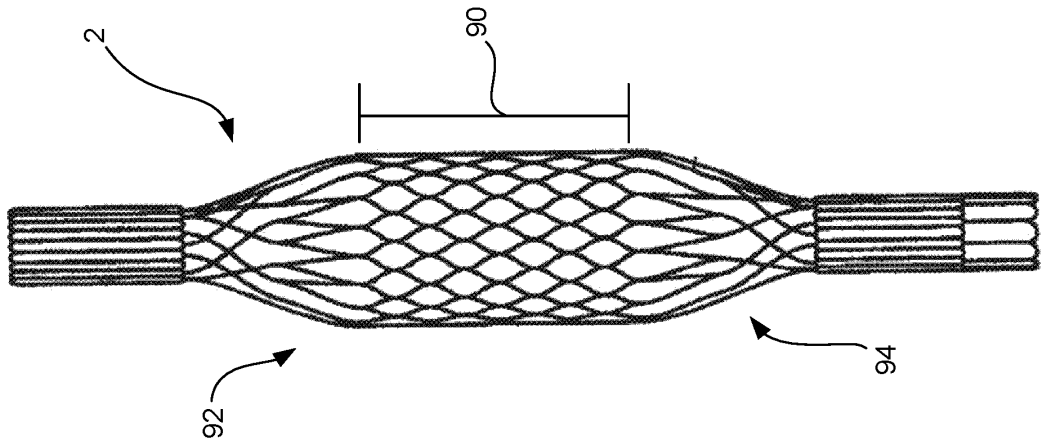


FIG. 2B

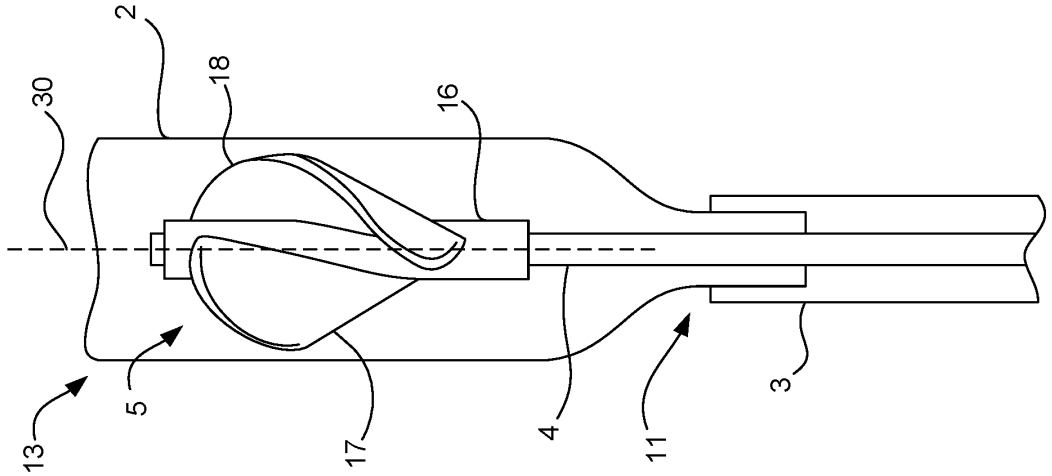


FIG. 2A

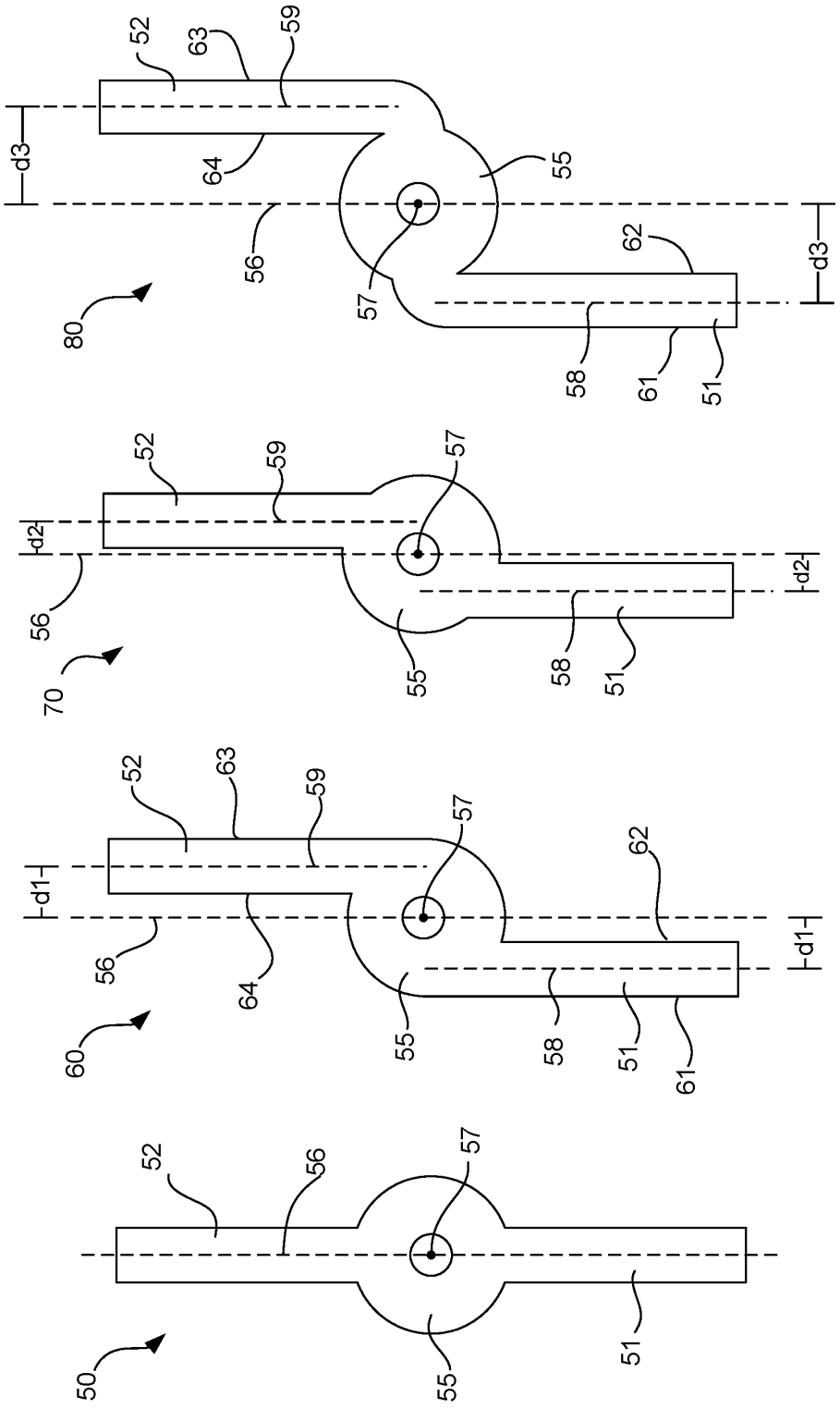


FIG. 3A
(Prior Art)

FIG. 3B

FIG. 3C

FIG. 3D

FIG. 4A

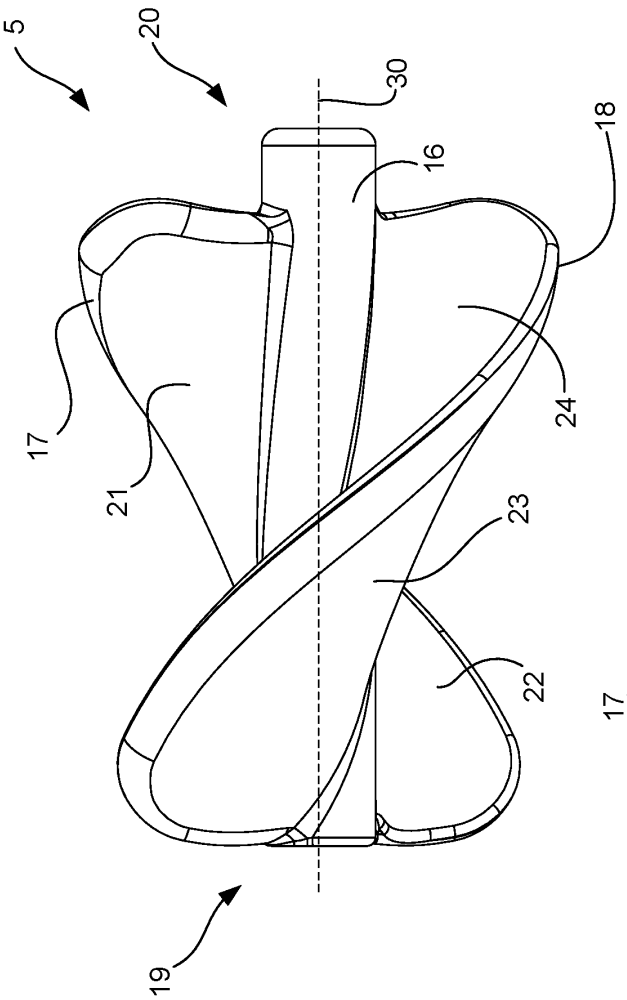
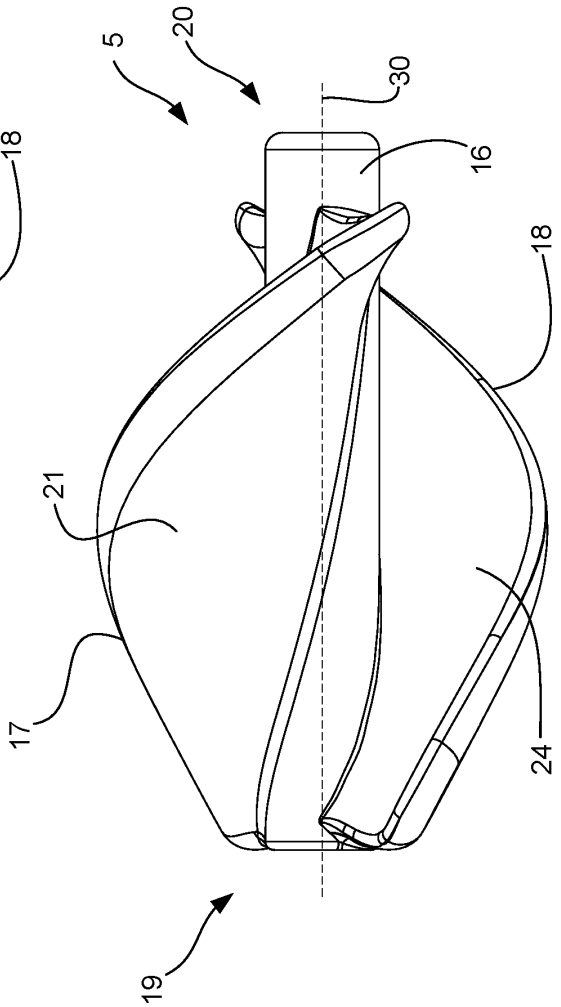


FIG. 4B



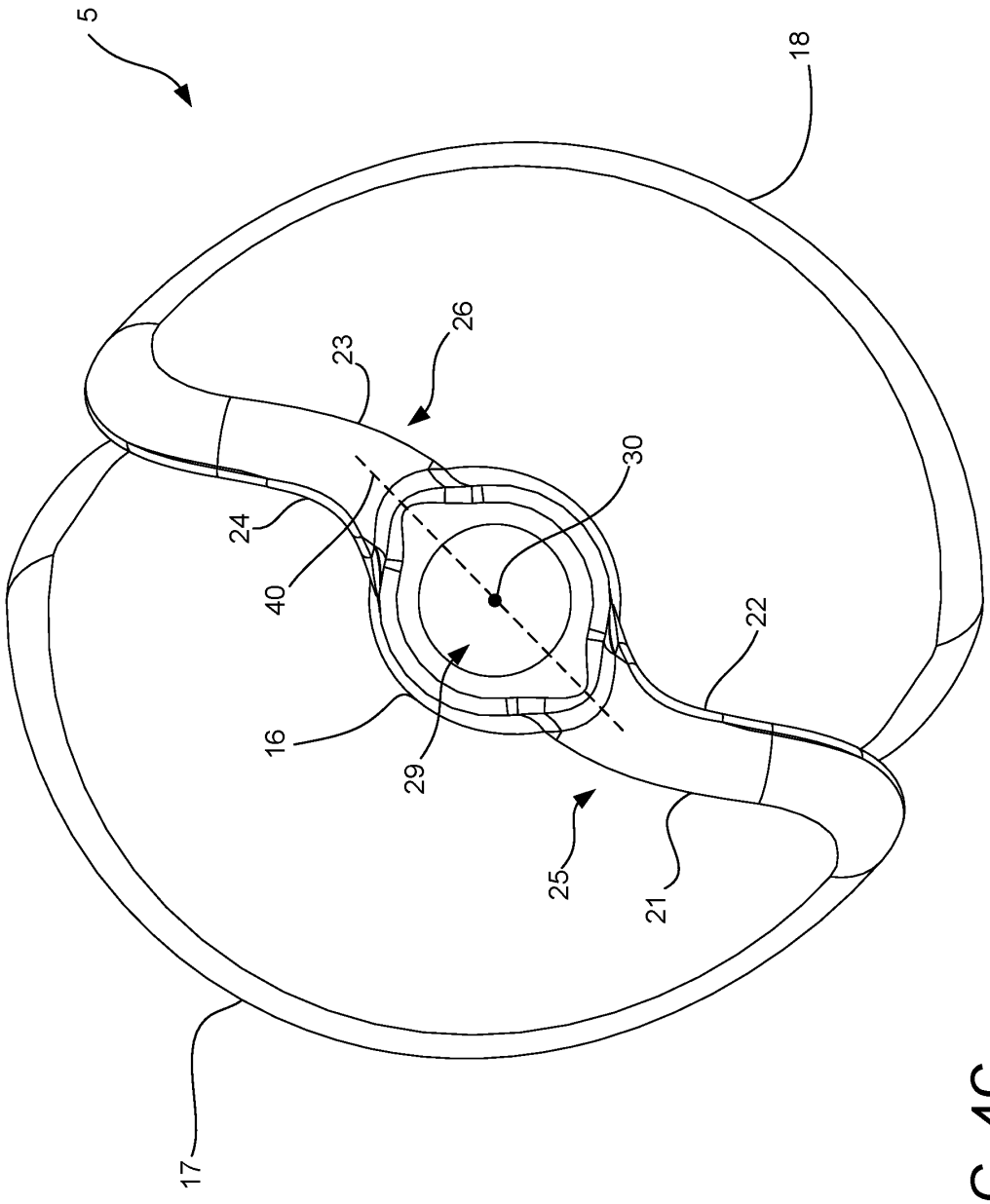


FIG. 4C

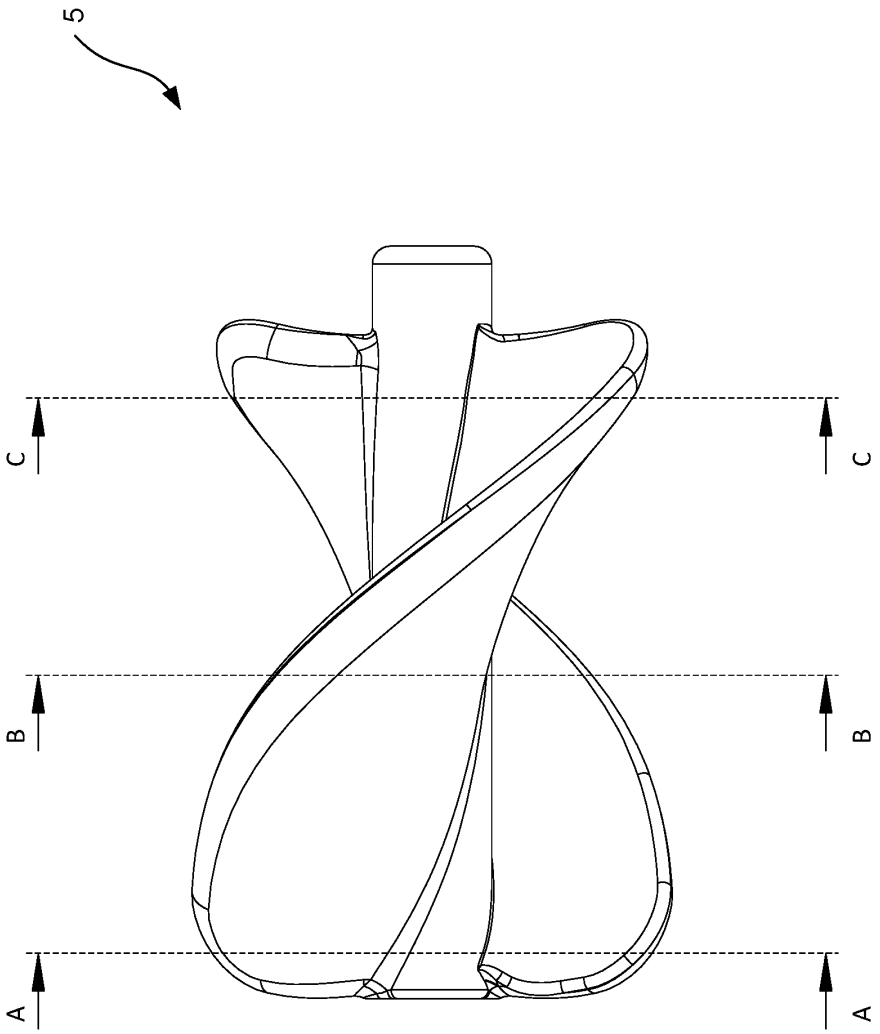


FIG. 4D

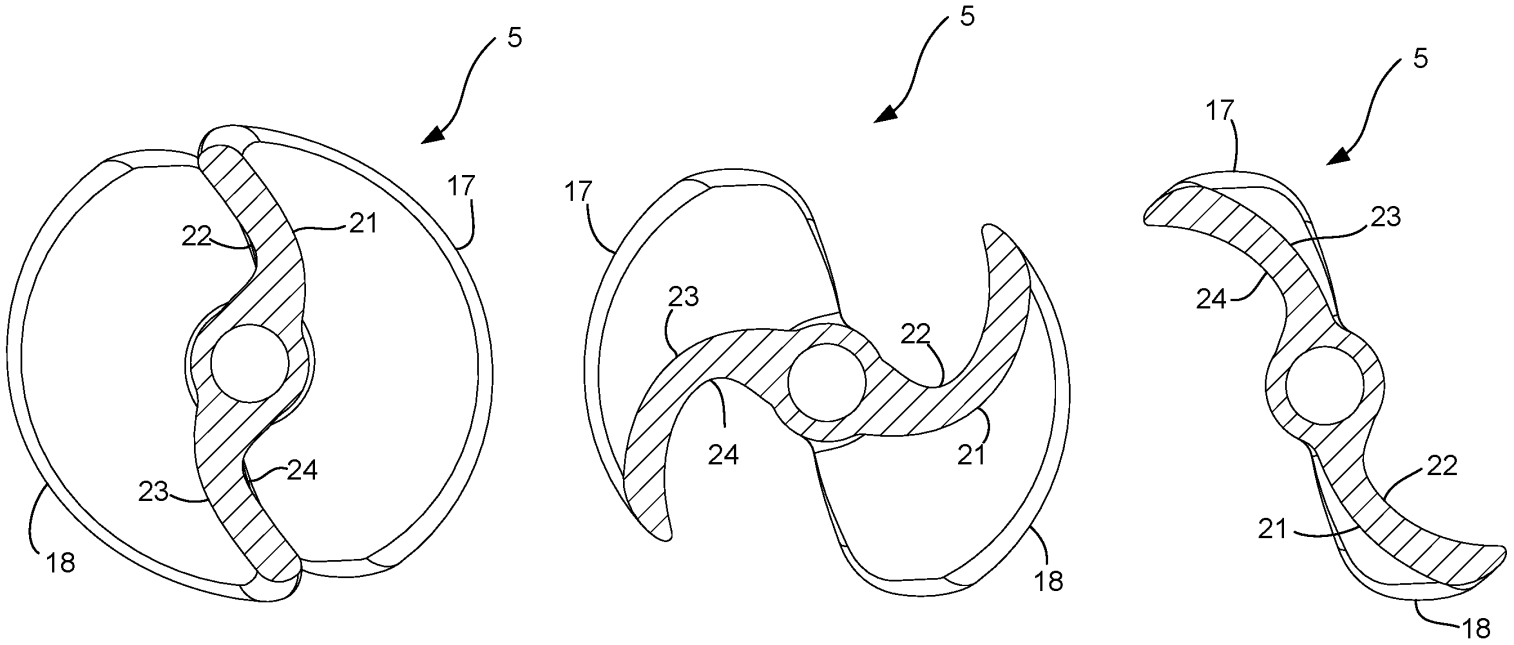

5
17
22
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23
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18
SECTION A-A
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17
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24
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18
SECTION B-B
5
17
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24
22
21
18
SECTION C-C

FIG. 4E

FIG. 5A

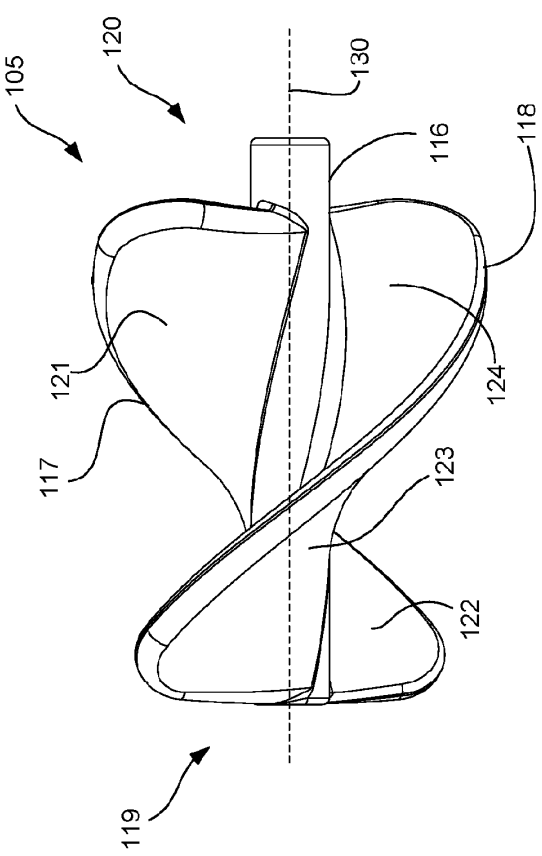
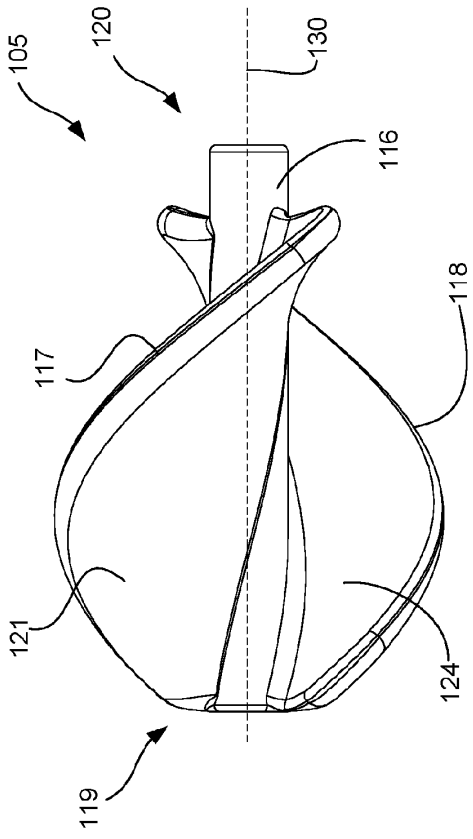

105
120
130
116
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124
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122
119

FIG. 5B


105
120
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124
119

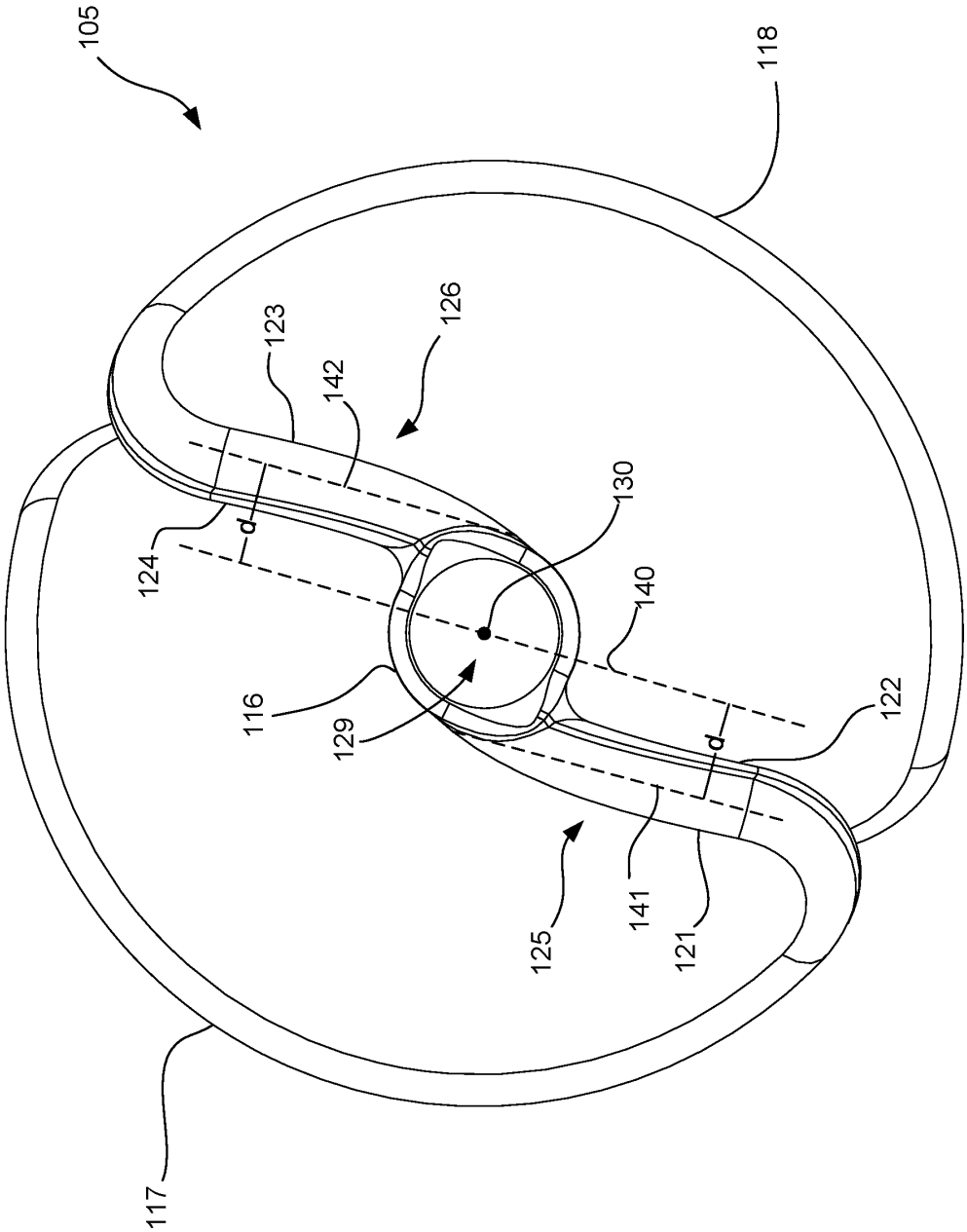


FIG. 5C

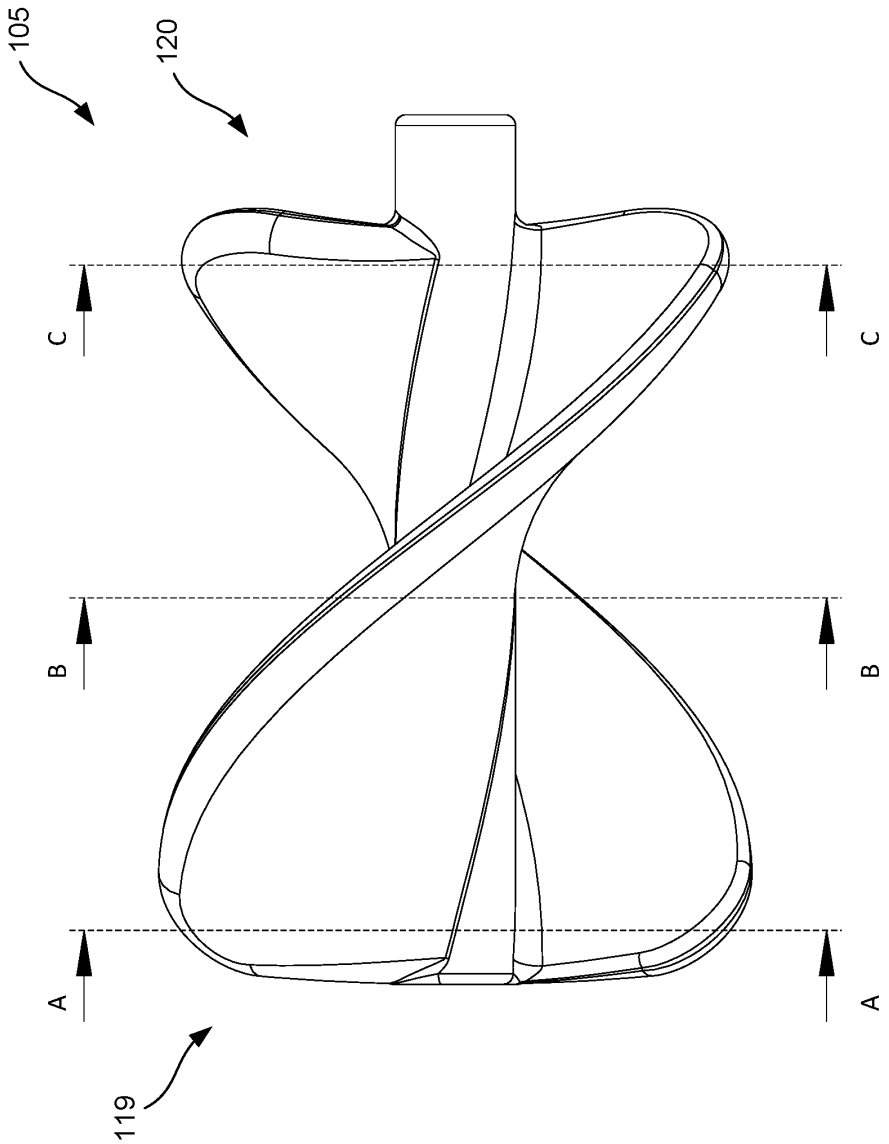


FIG. 5D

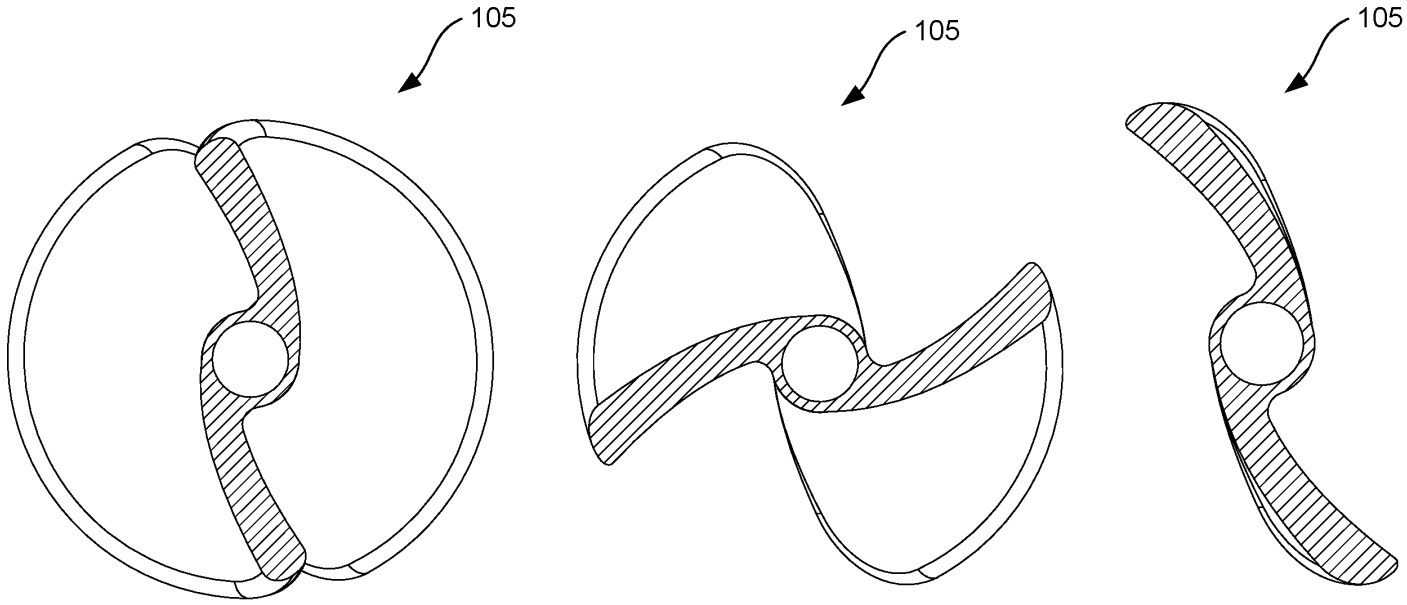


FIG. 5E

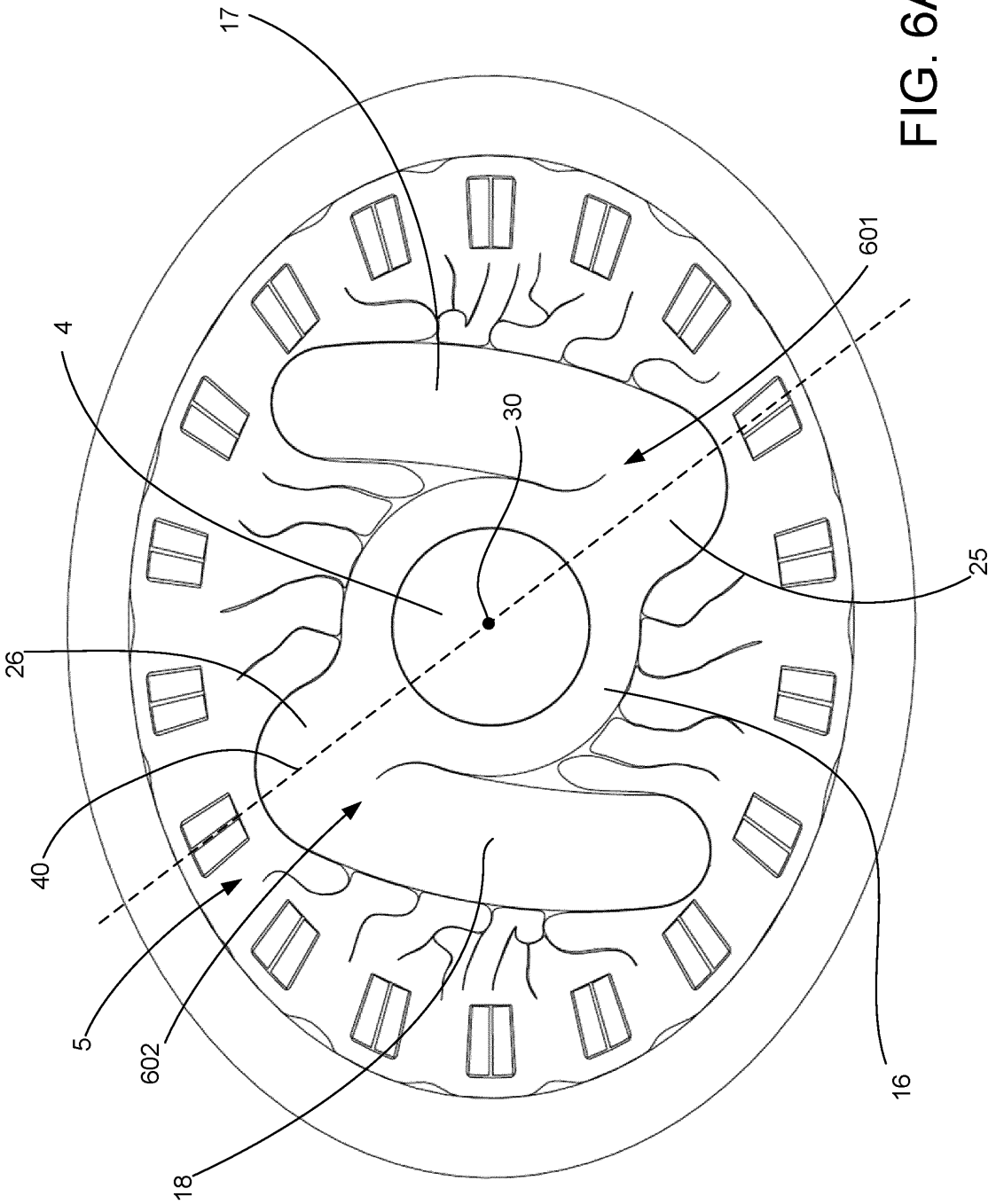


FIG. 6A

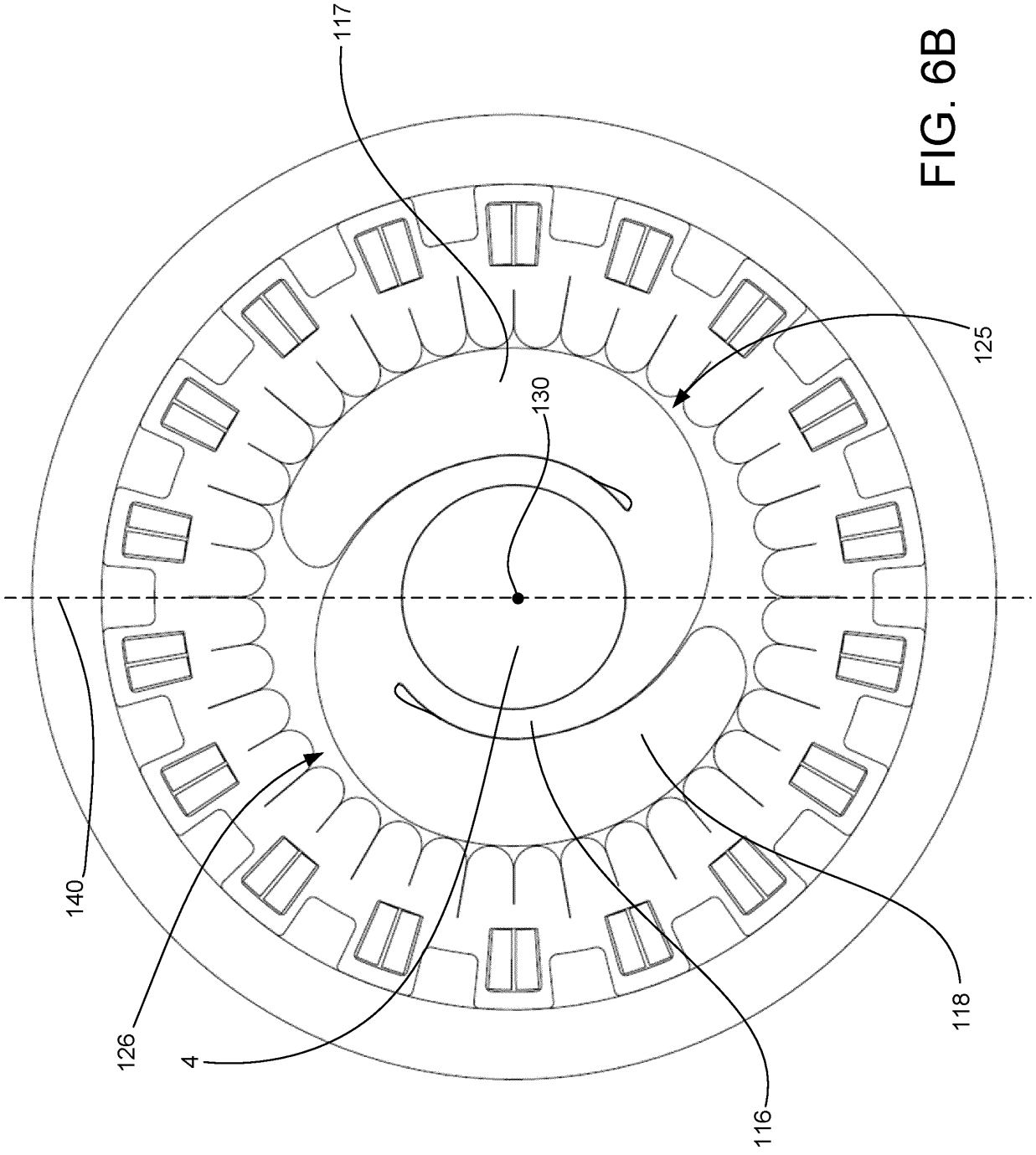


FIG. 6B

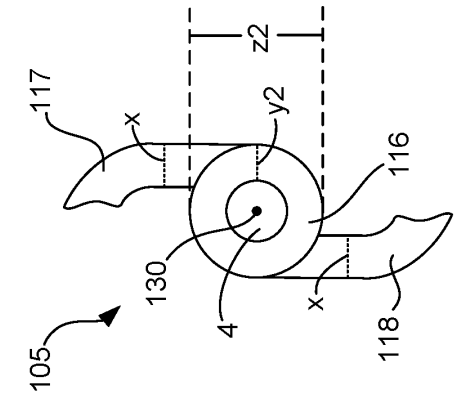


FIG. 7B

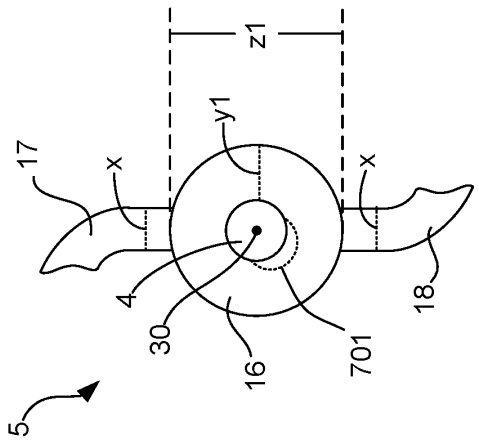


FIG. 7A

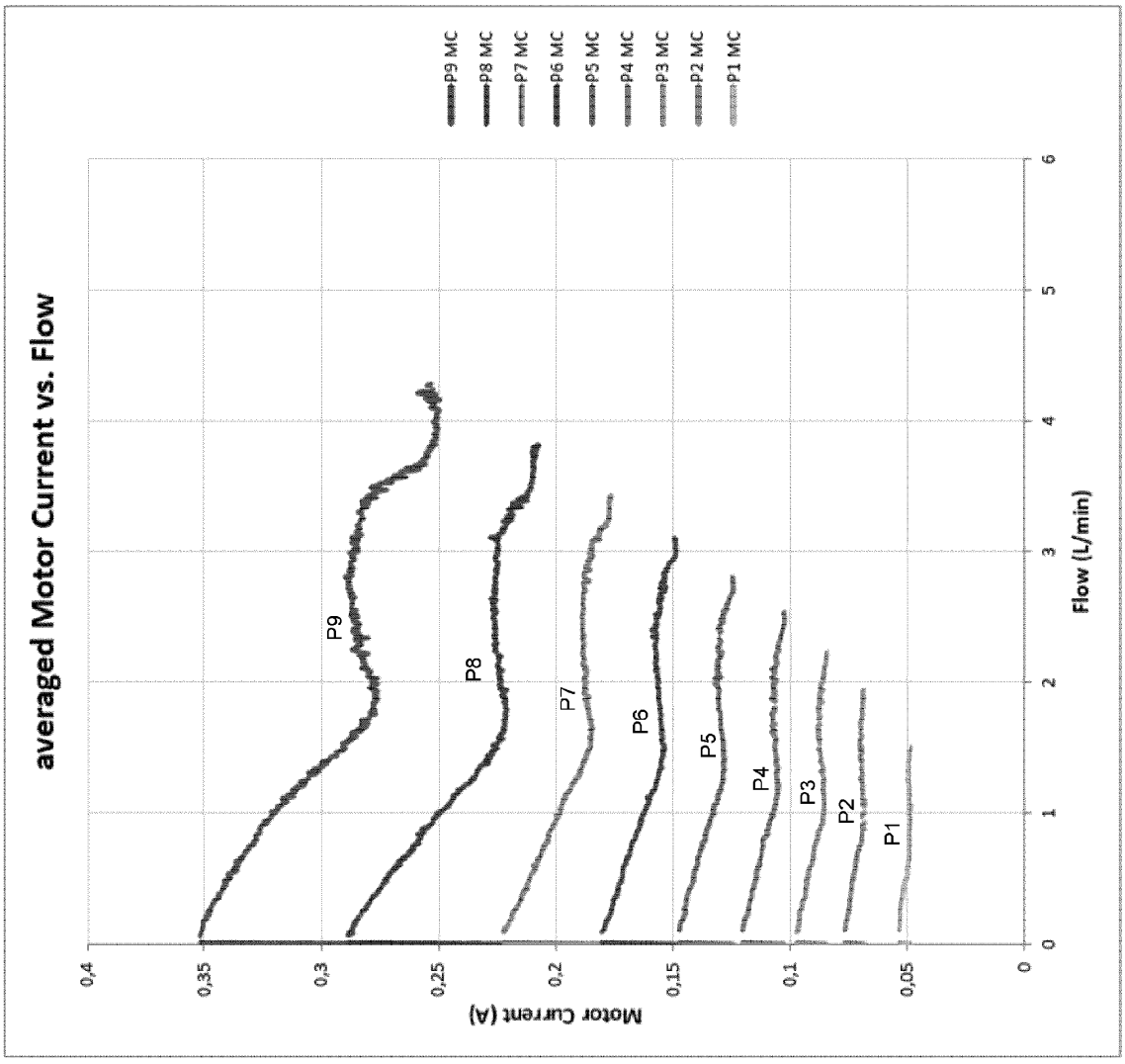

averaged Motor Current vs. Flow
P9 MC
P8 MC
P7 MC
P6 MC
P5 MC
P4 MC
P3 MC
P2 MC
P1 MC
P9
P8
P7
P6
P5
P4
P3
P2
P1
Motor Current (A)
0,4
0,35
0,3
0,25
0,2
0,15
0,1
0,05
0
Flow (L/min)
0
1
2
3
4
5
6

FIG. 8

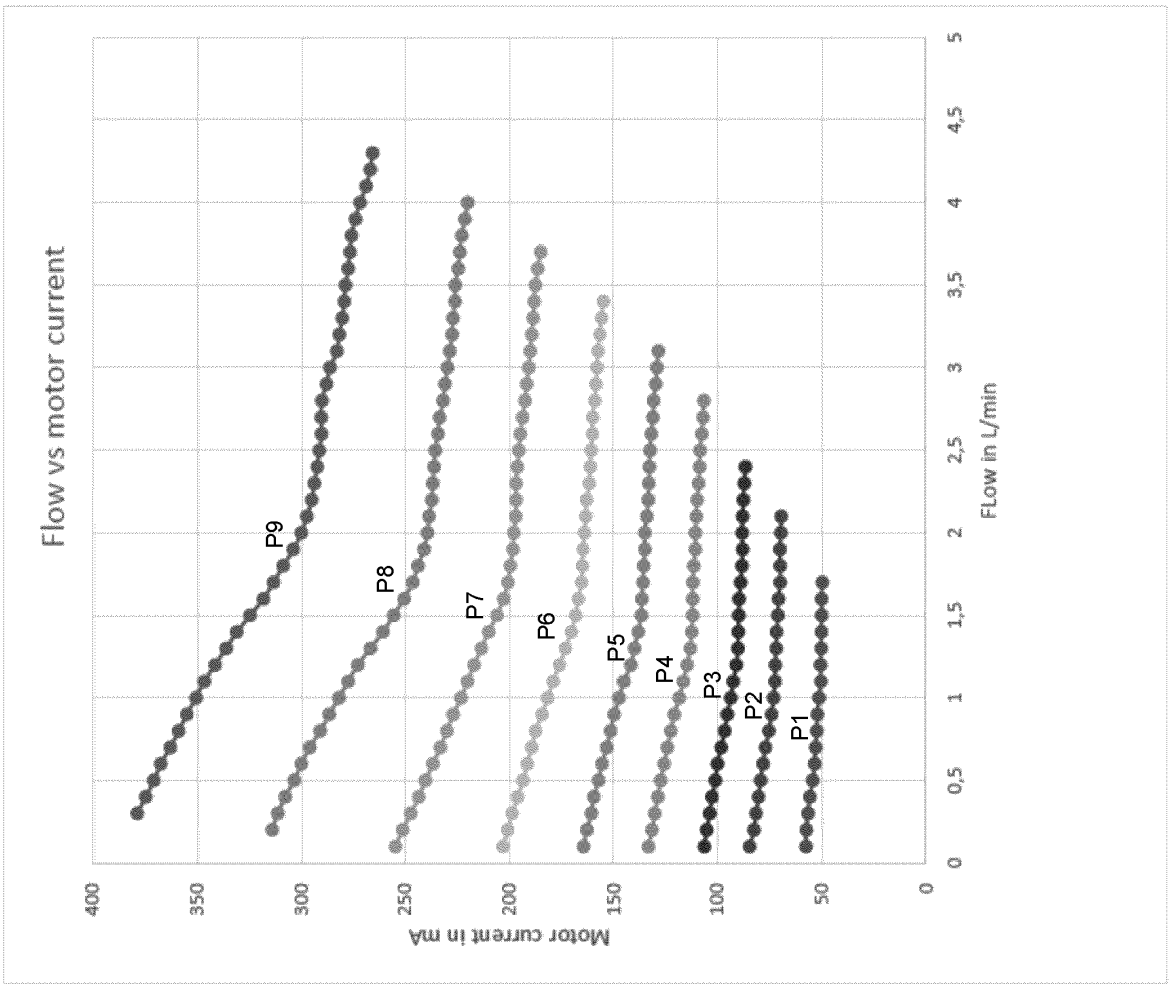

Flow vs motor current
Motor current in mA
Flow in L/min
P9
P8
P7
P6
P5
P4
P3
P2
P1
400
350
300
250
200
150
100
50
0
0
0,5
1
1,5
2
2,5
3
3,5
4
4,5
5

FIG. 9

FIG. 10

