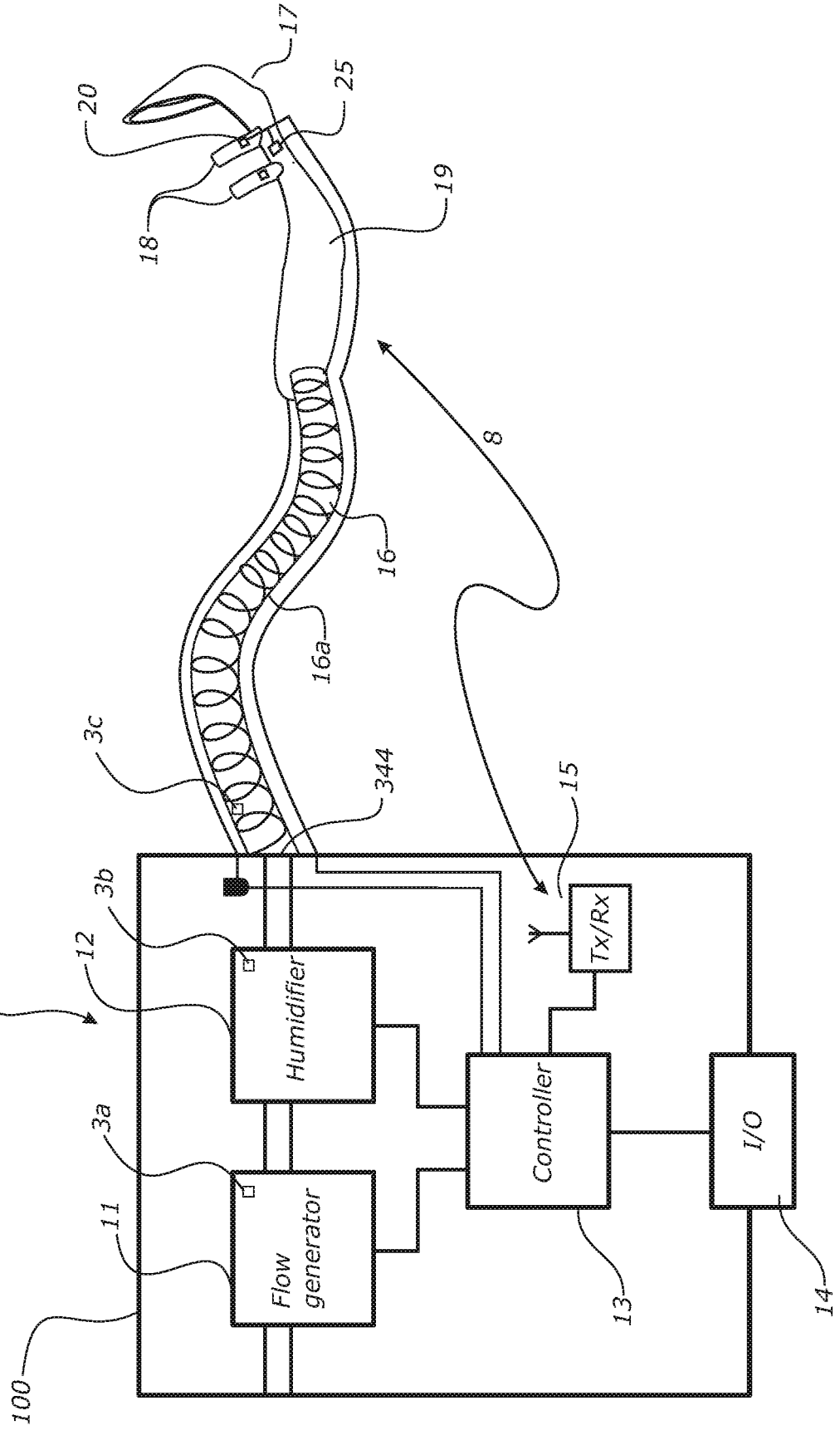

17
20
25
18
19
8
16
16a
3c
344
15
10
3b
12
Humidifier
Tx/Rx
3a
Controller
I/O
11
Flow generator
13
14
100

FIGURE 1

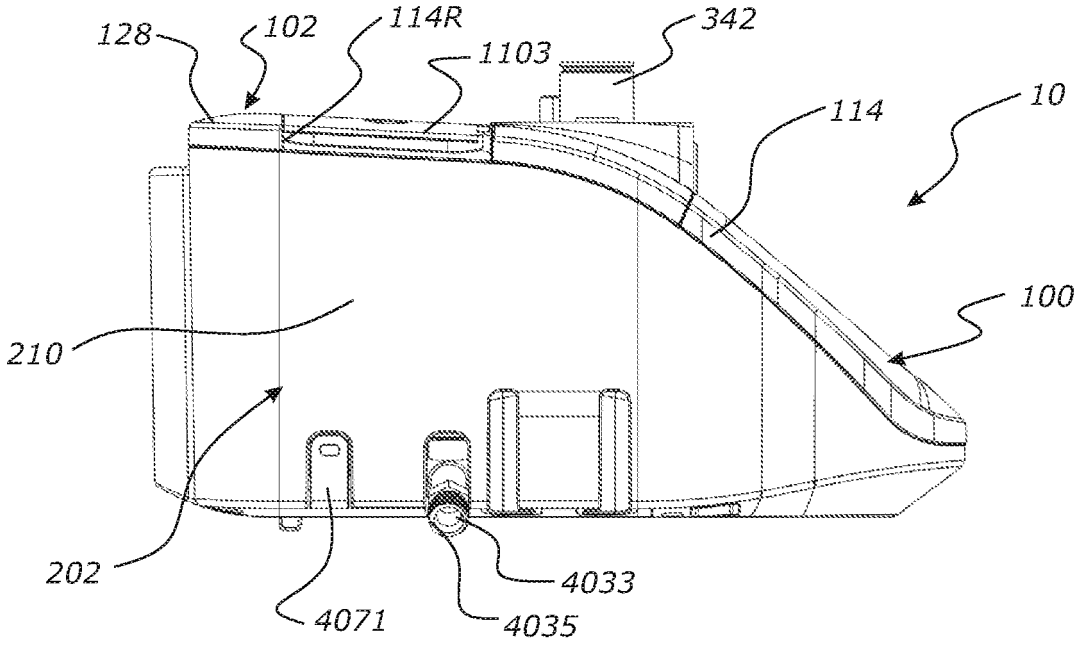


FIGURE 2A

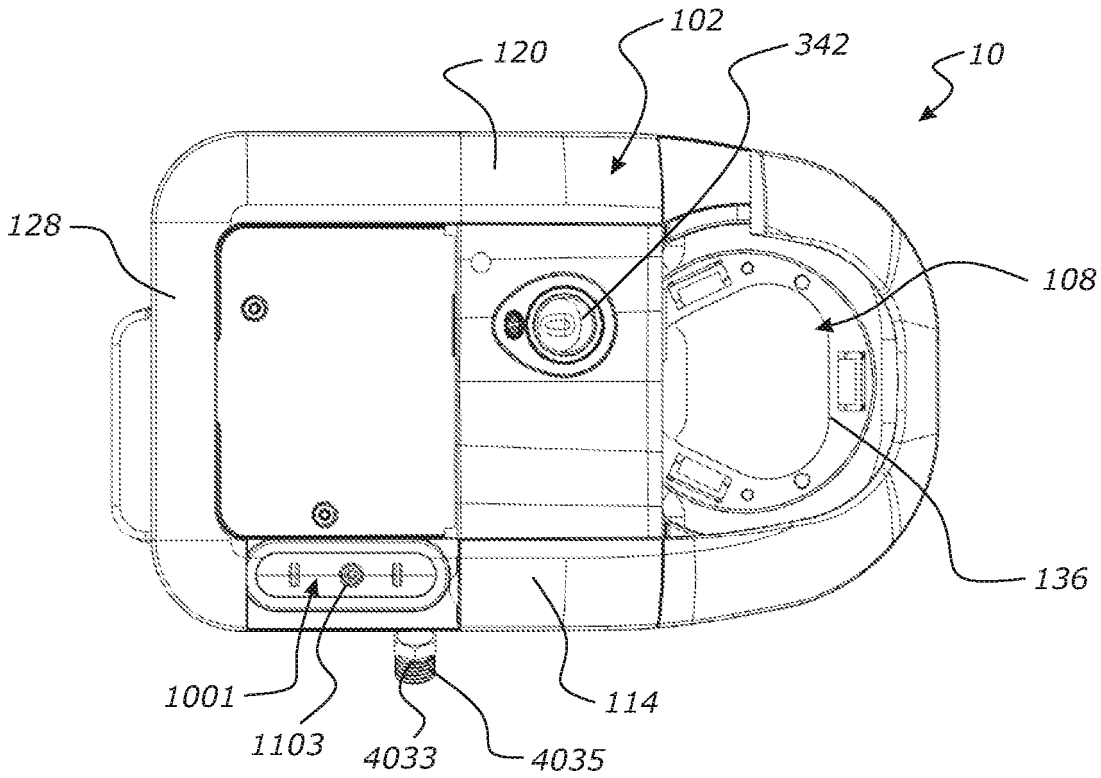


FIGURE 2B

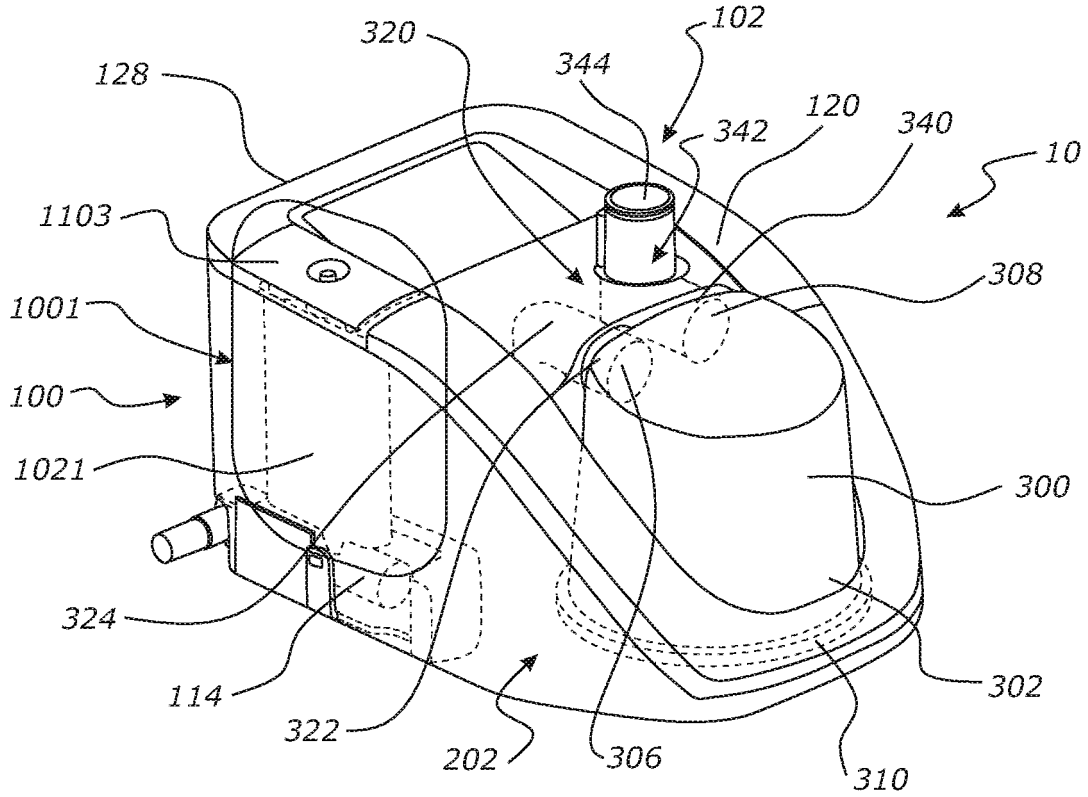


FIGURE 3A

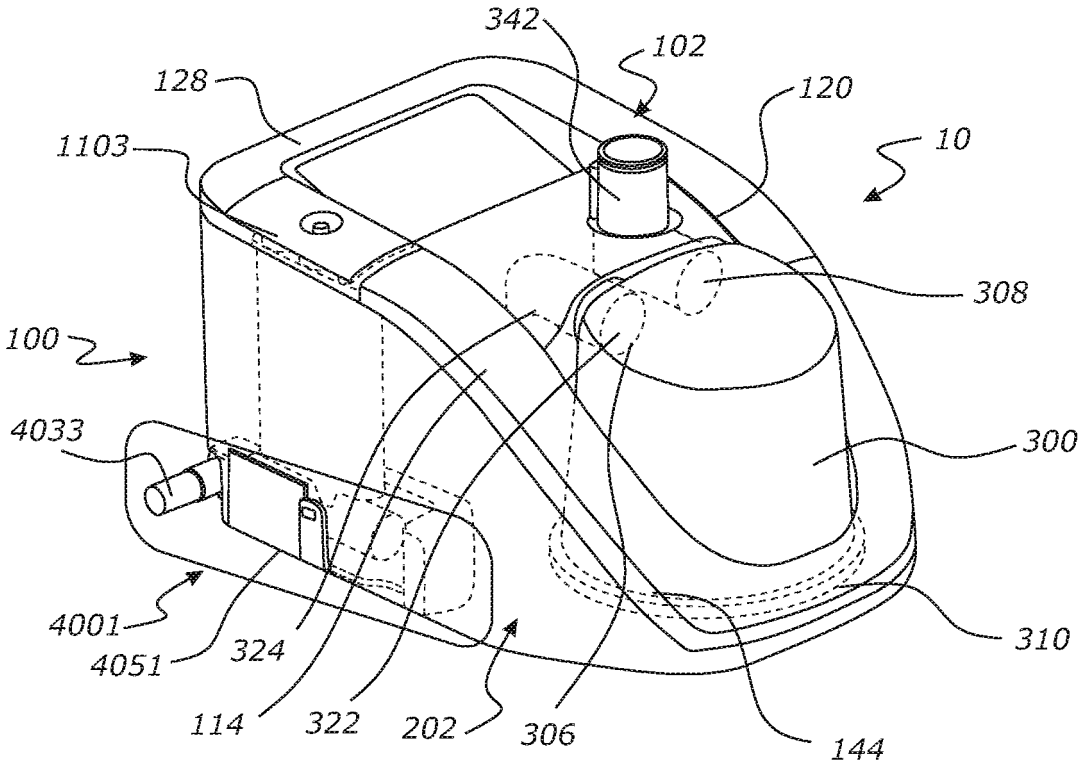


FIGURE 3B

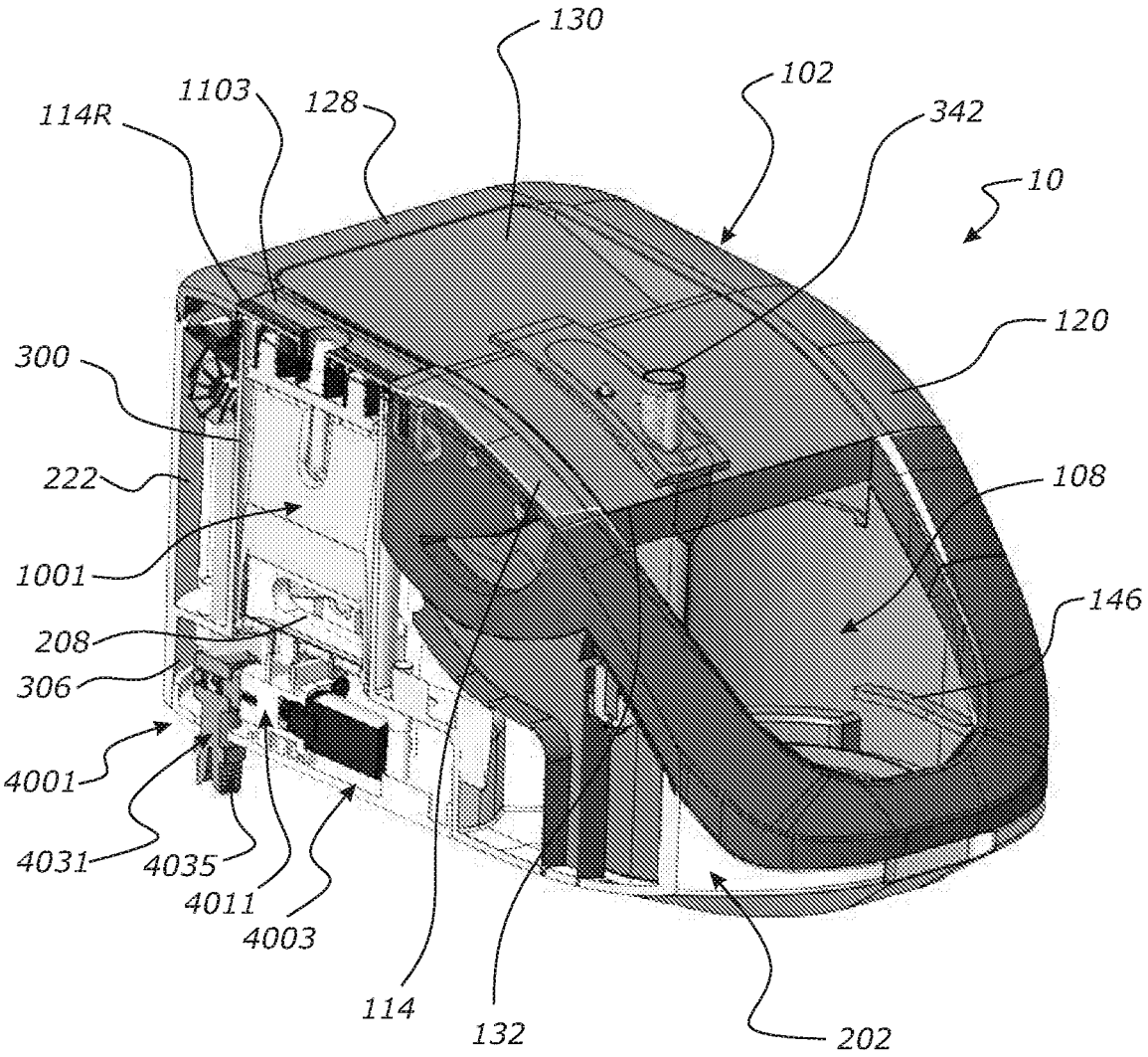

130
102
1103
128
342
114R
10
120
300
108
222
1001
146
208
306
4001
4031
4035
4011
4003
114
132
202

FIGURE 4

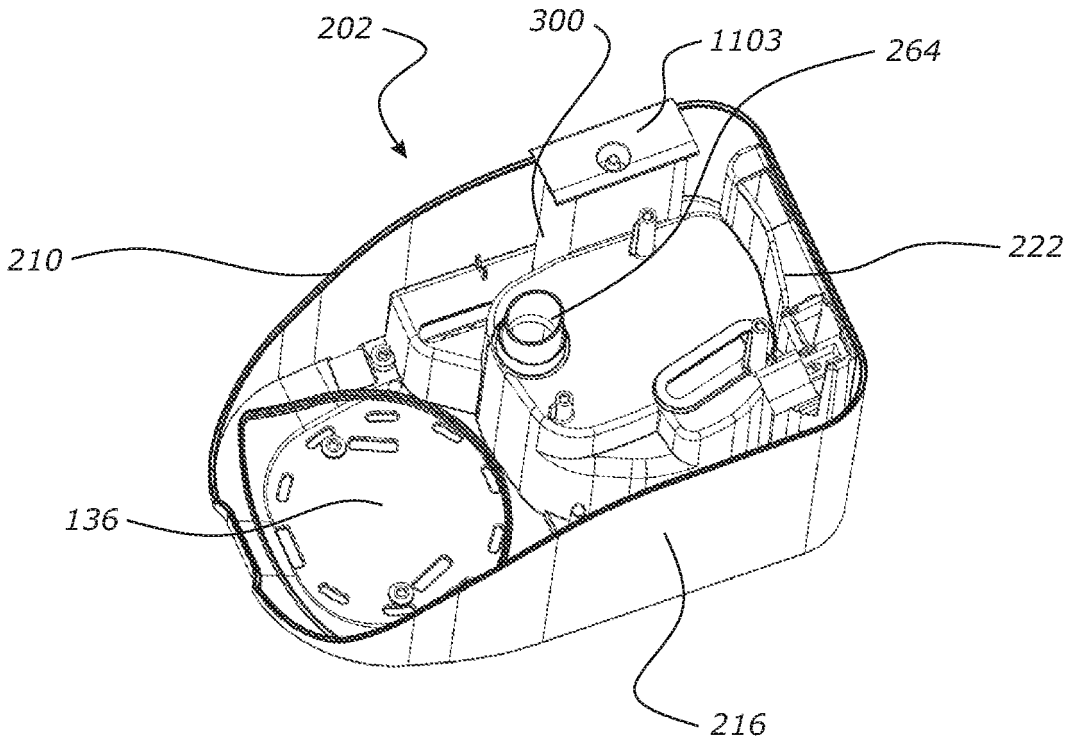


FIGURE 5

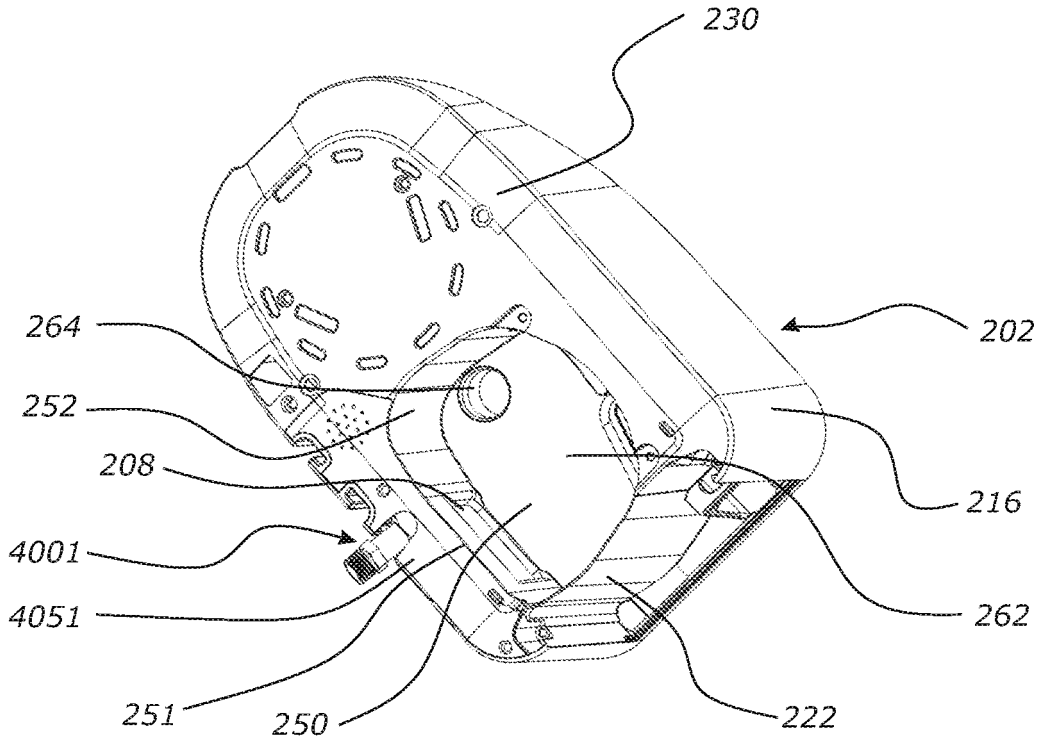


FIGURE 6

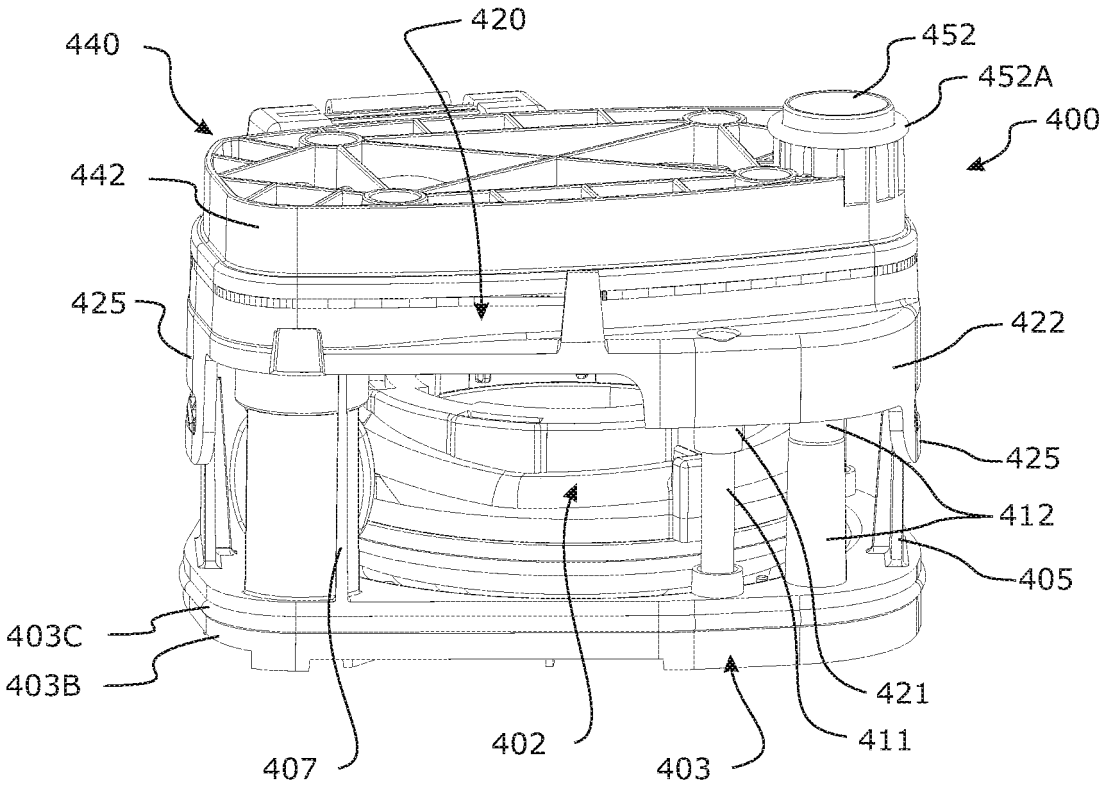


FIGURE 7

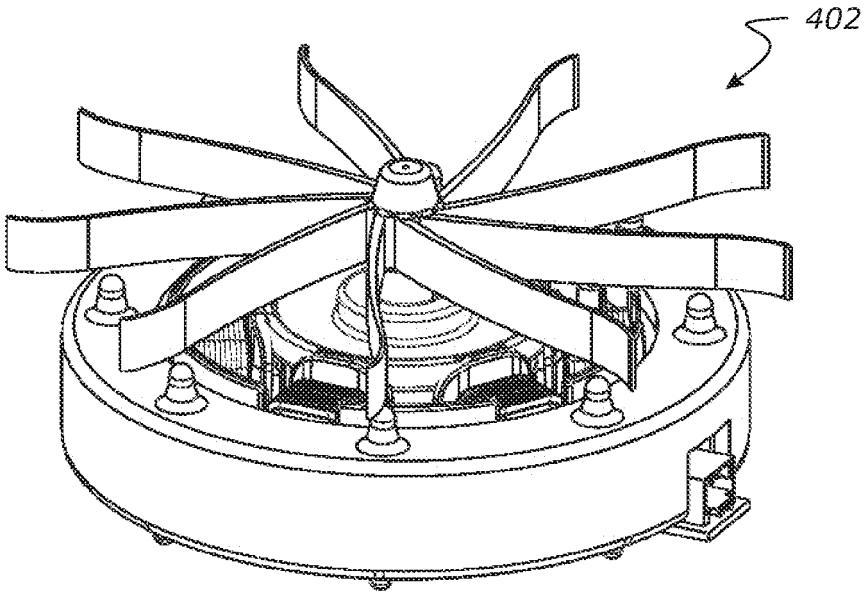


FIGURE 8

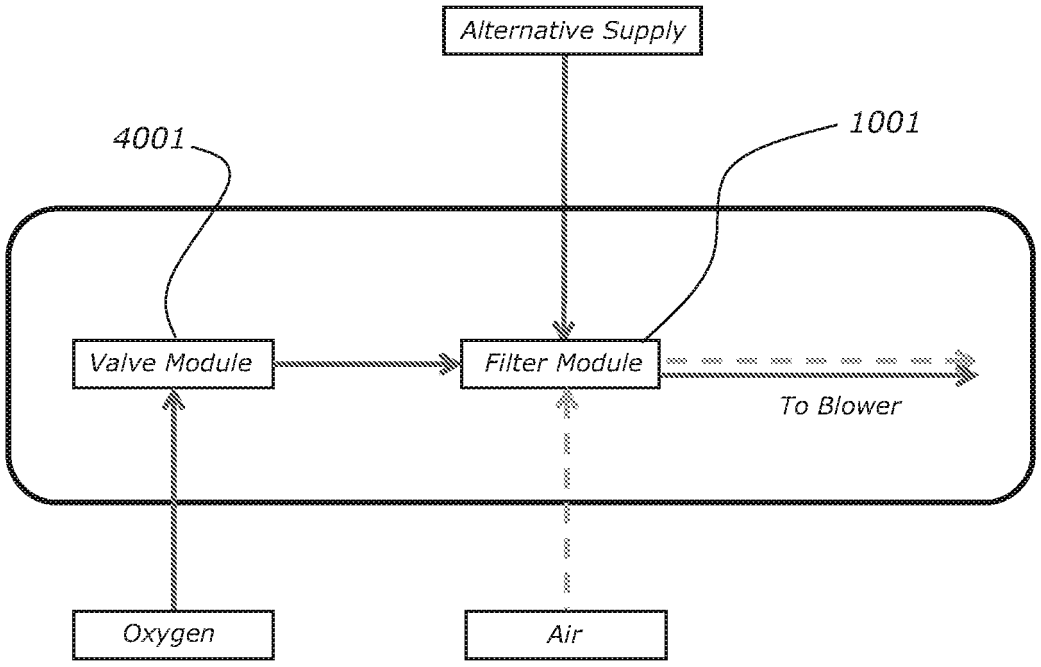

Alternative Supply
4001
1001
Valve Module
Filter Module
To Blower
Oxygen
Air

FIGURE 9

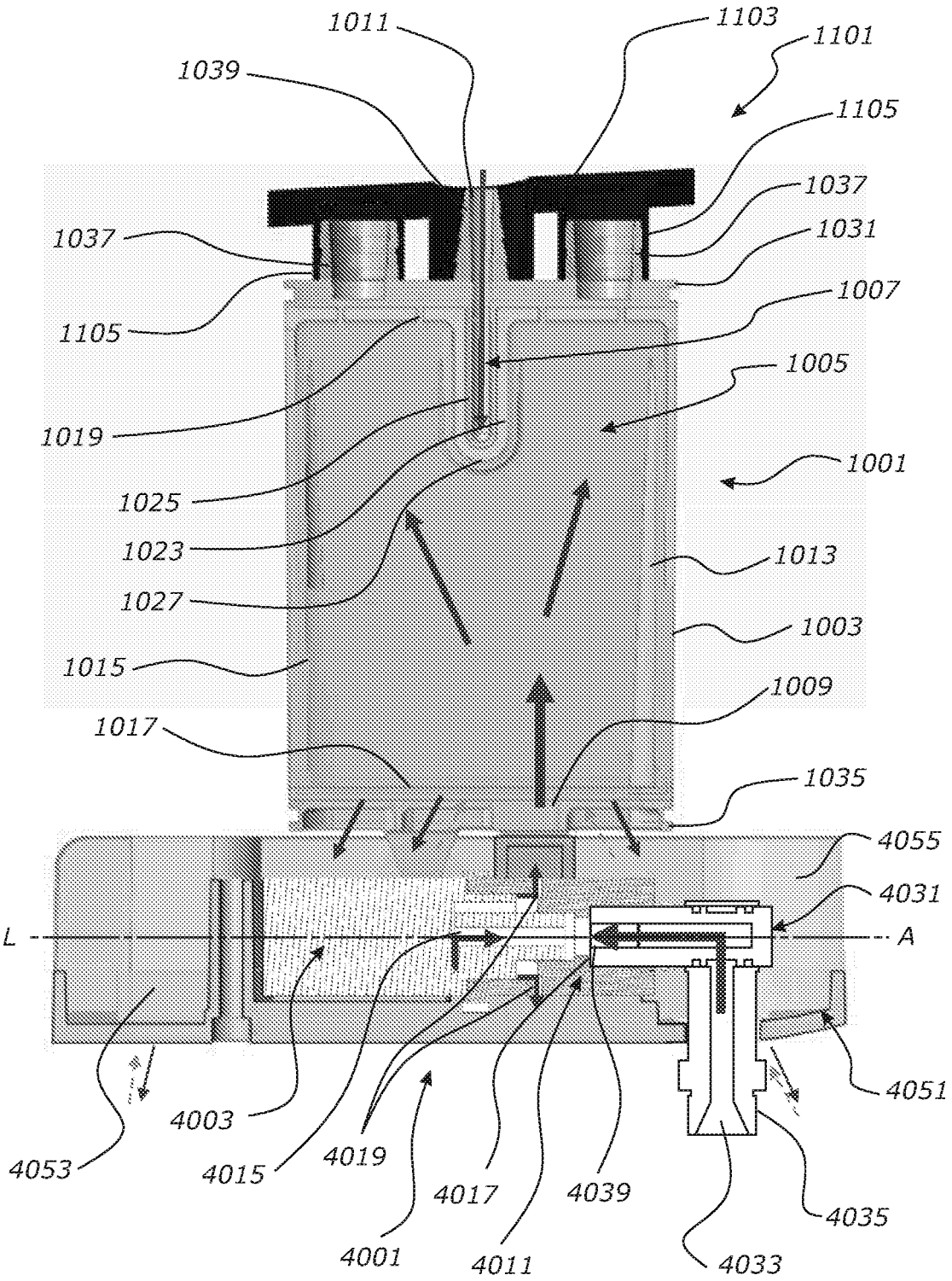

1011
1103
1101
1039
1105
1037
1037
1031
1105
1007
1019
1005
1001
1025
1023
1013
1027
1003
1015
1009
1017
1035
4055
4031
L
A
4051
4003
4053
4015
4019
4017
4039
4035
4001
4011
4033

FIGURE 10

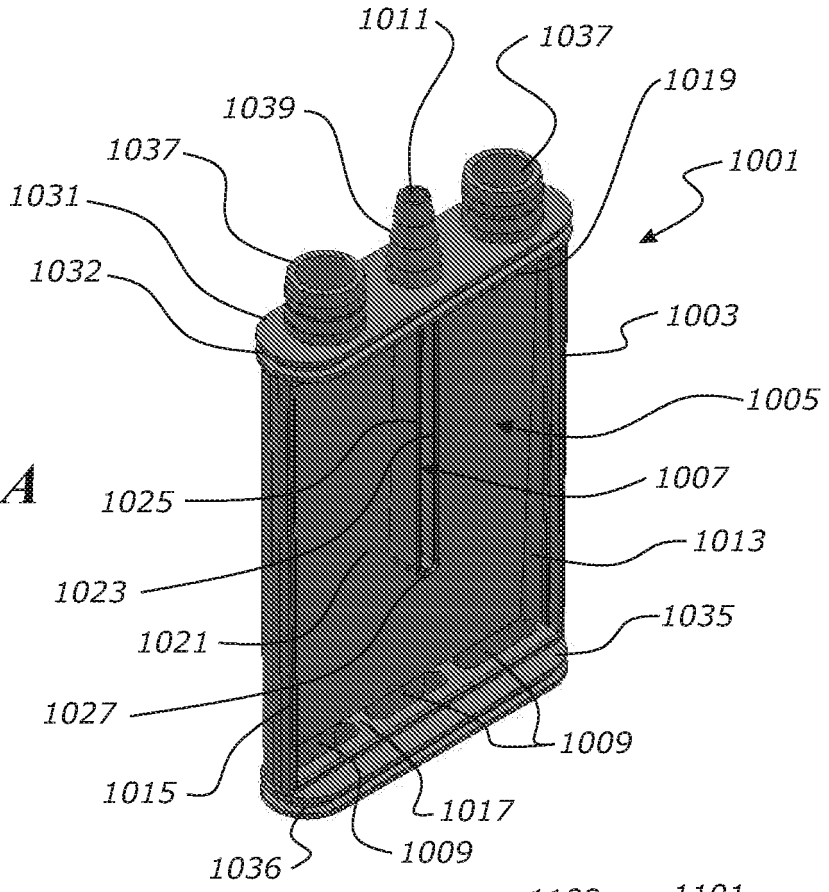


FIGURE 11A

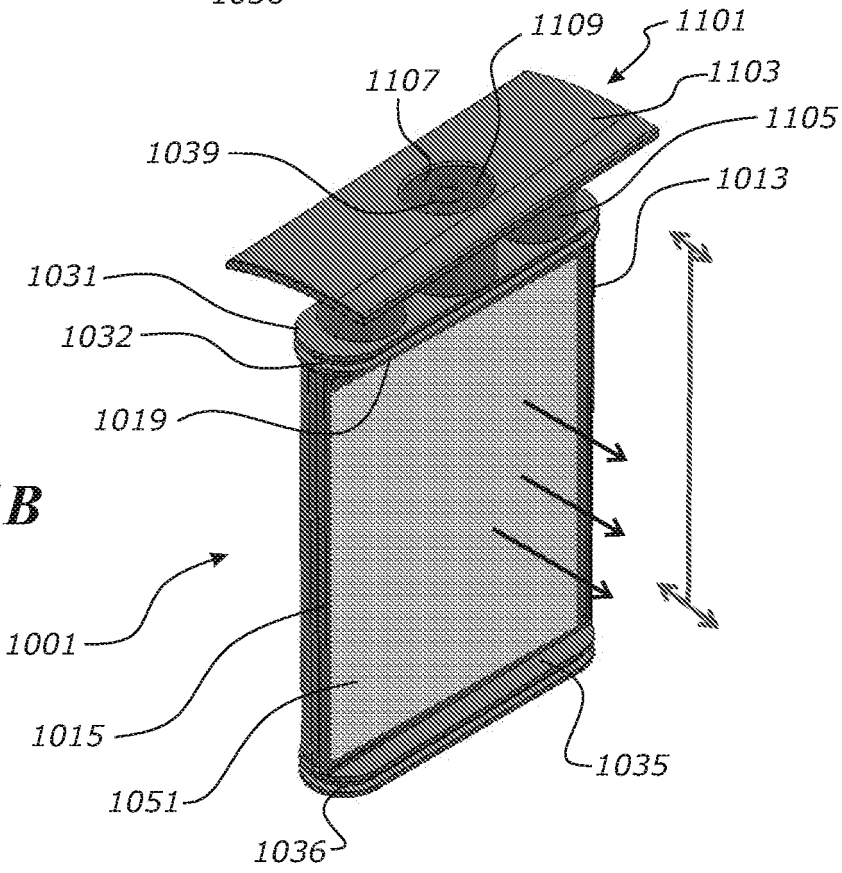


FIGURE 11B

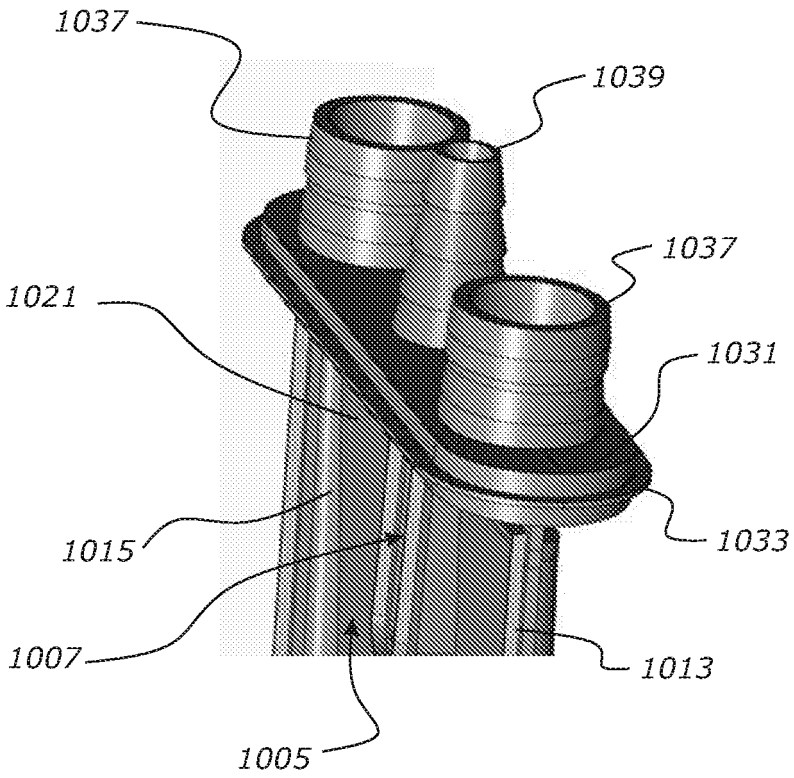


FIGURE 11C

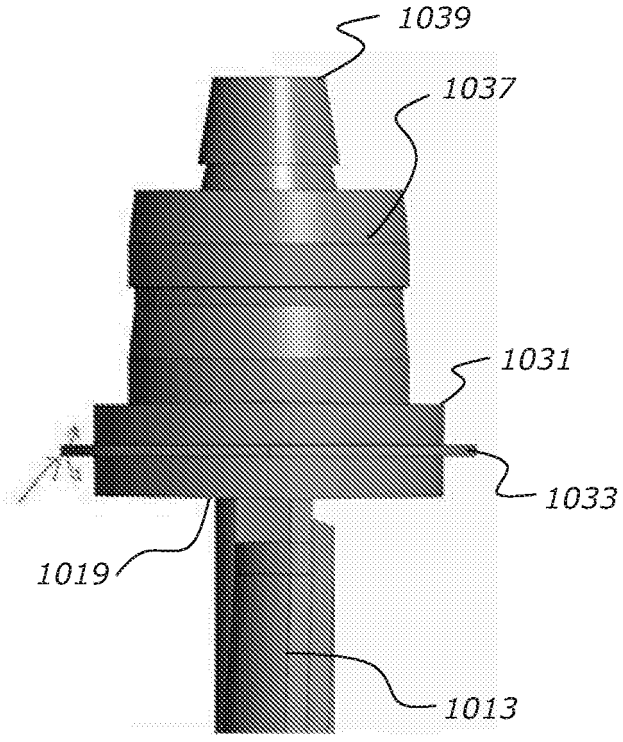


FIGURE 11D

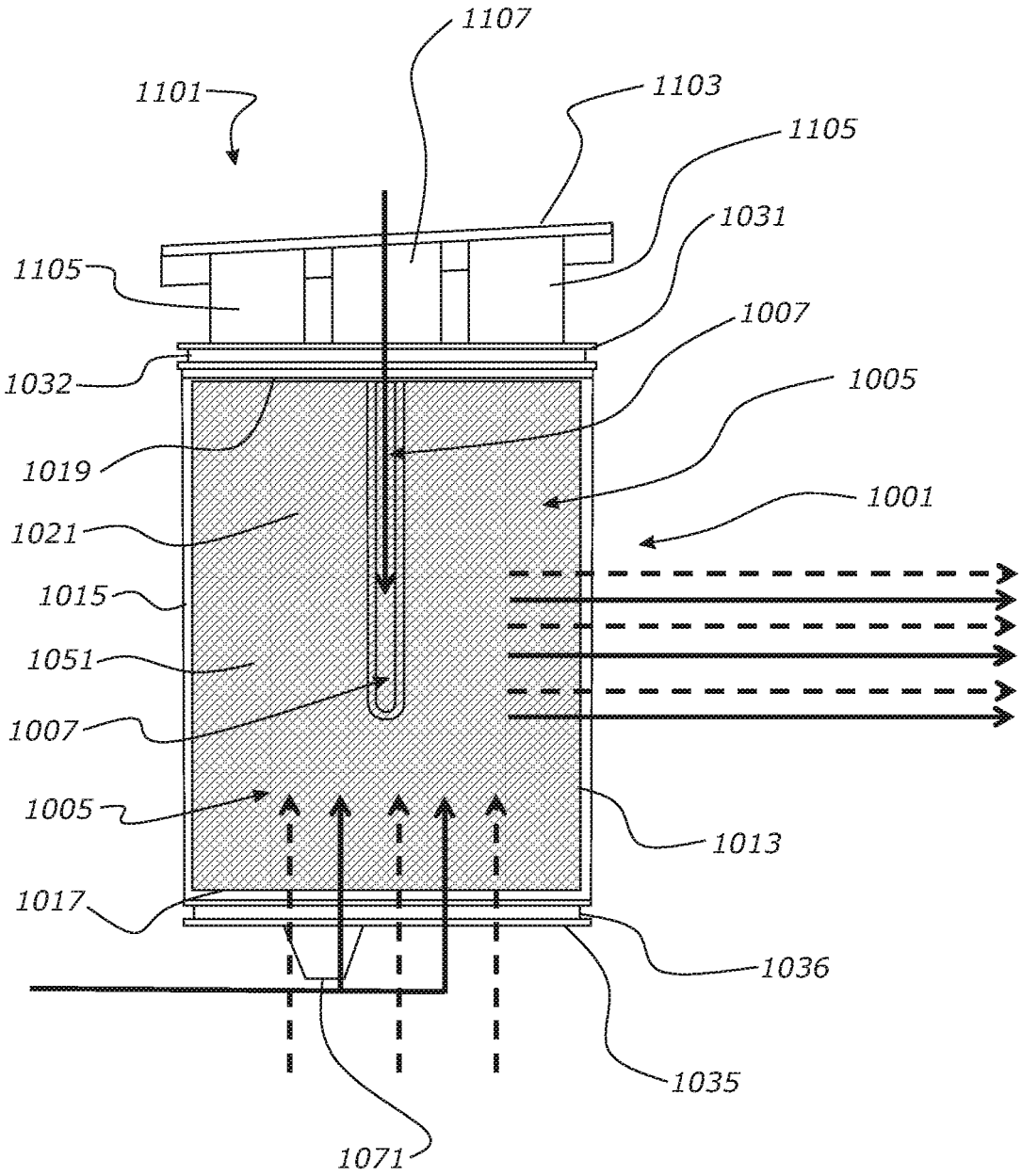

1107
1101
1103
1105
1105
1031
1007
1032
1005
1019
1001
1021
1015
1051
1007
1005
1013
1017
1036
1035
1071

FIGURE 12A

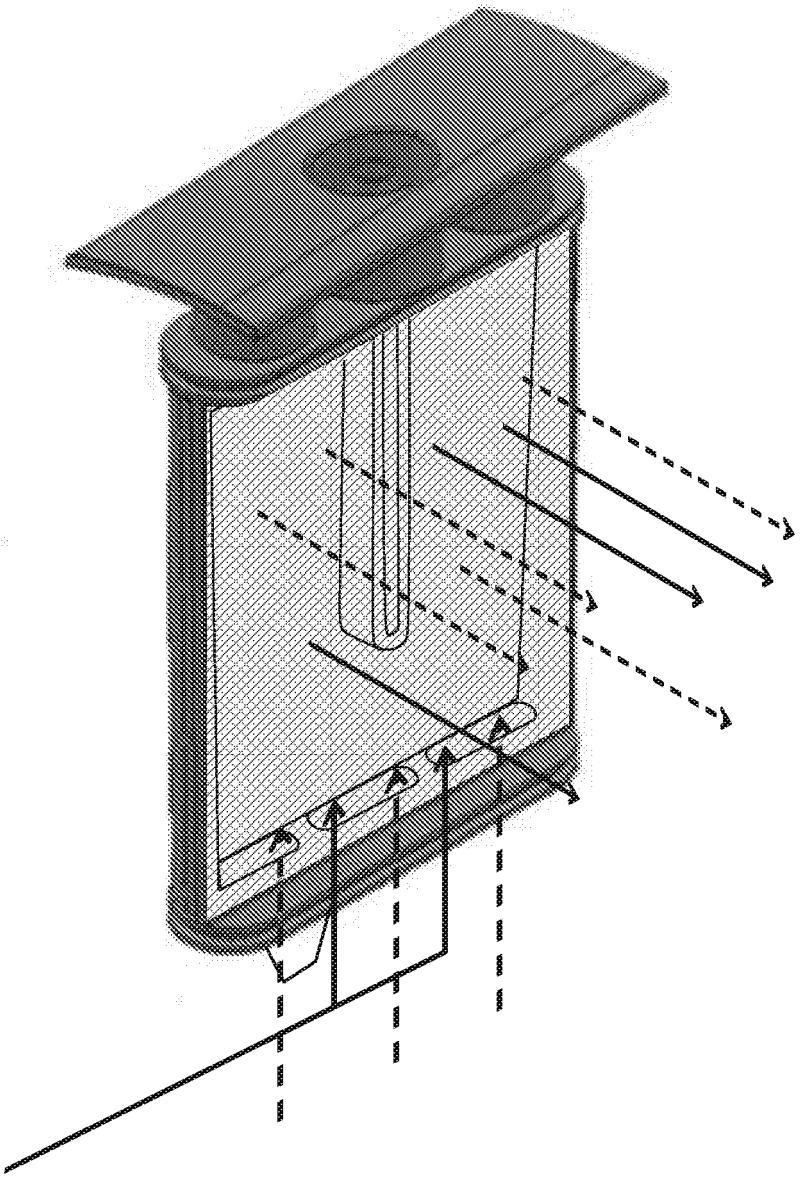


FIGURE 12

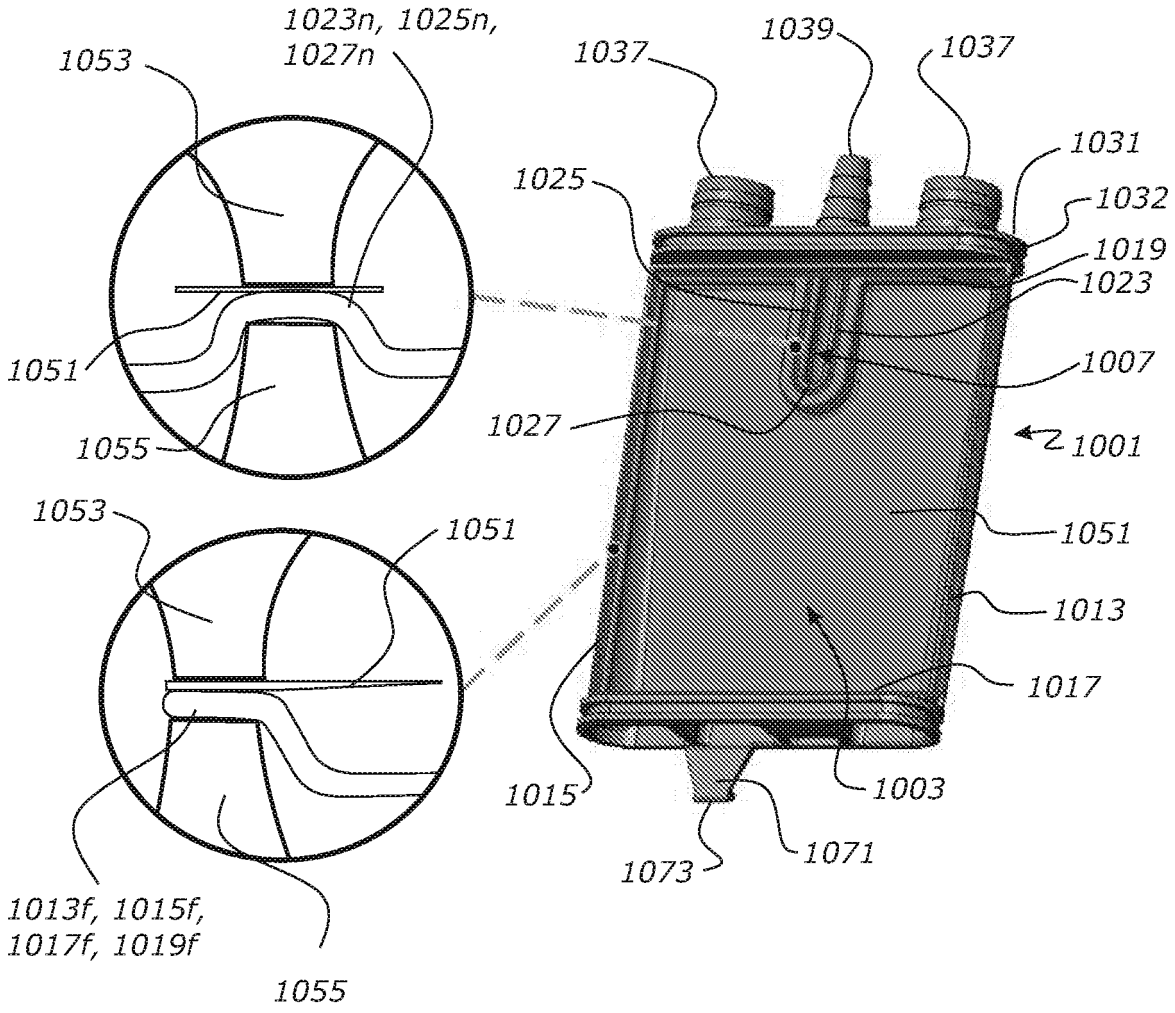

1023n, 1025n,
1027n
1053
1037
1039
1037
1031
1025
1032
1019
1023
1007
1051
1027
1001
1055
1053
1051
1051
1013
1017
1015
1003
1073
1071
1013f, 1015f,
1017f, 1019f
1055

FIGURE 13

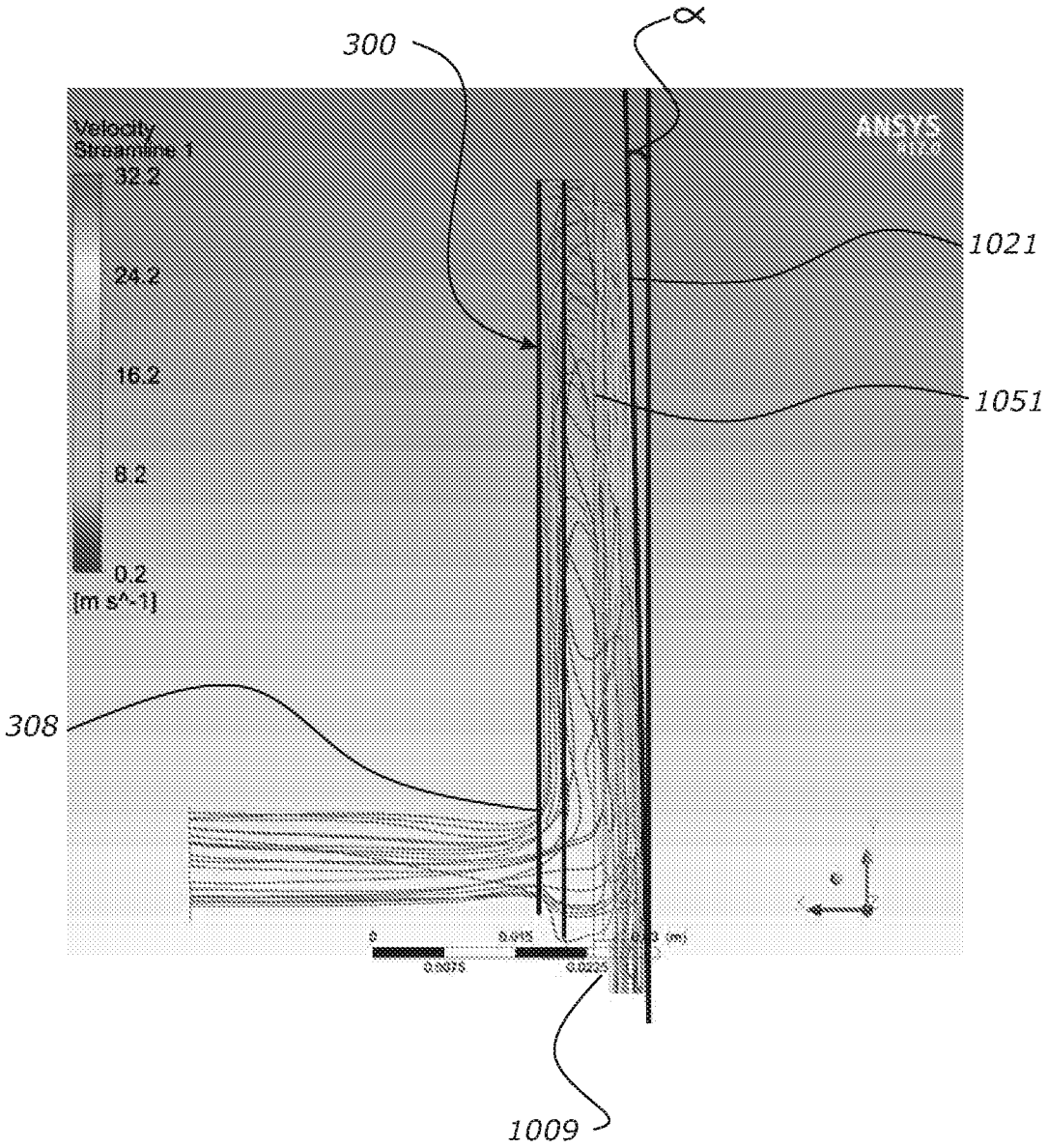

300
α
Velocity
Streamline 1
32.2
24.2
16.2
8.2
0.2
[m s^-1]
ANSYS
1021
1051
308
1009

FIGURE 14

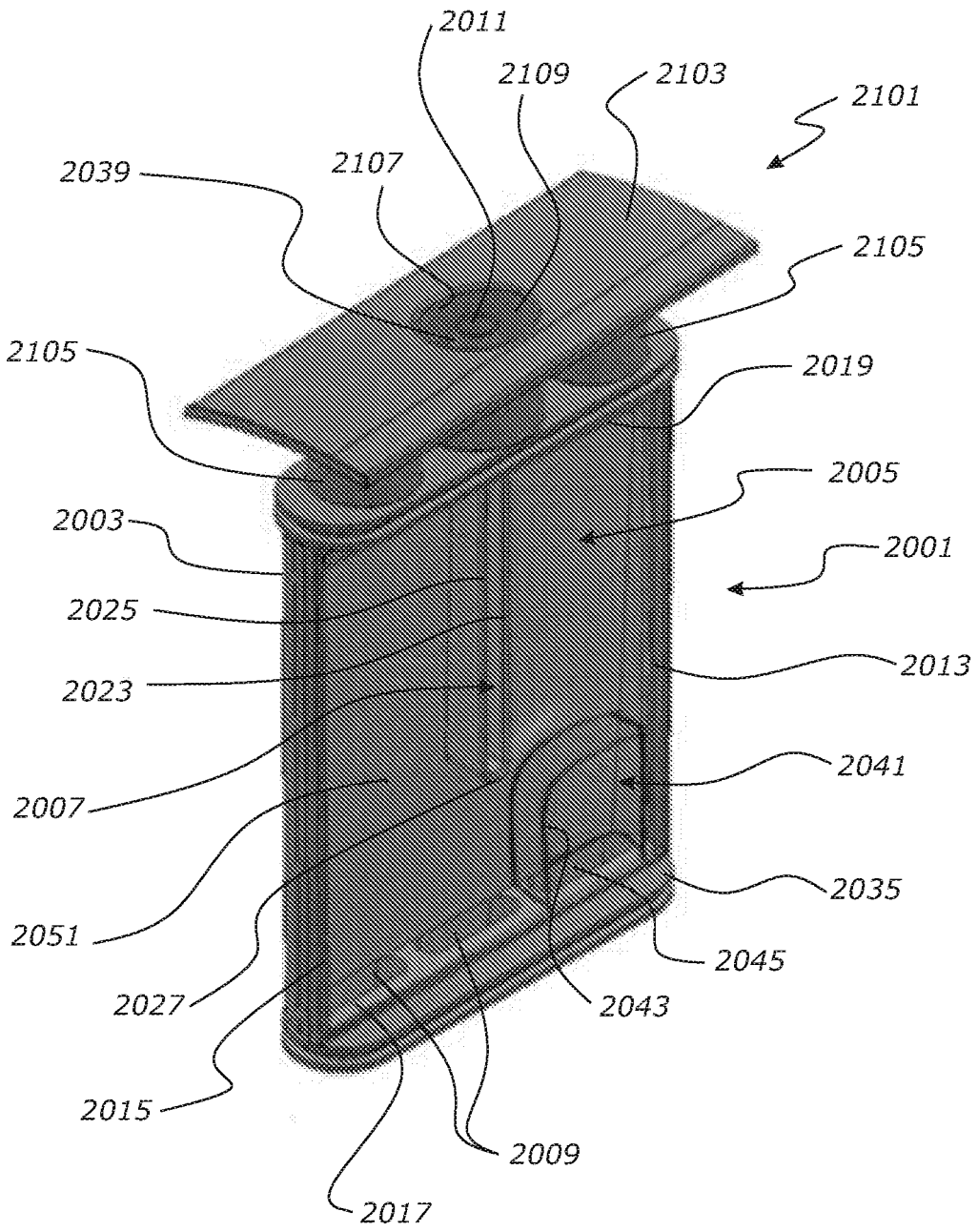

2011
2109
2103
2101
2039
2107
2105
2105
2019
2005
2003
2001
2025
2013
2023
2041
2007
2035
2051
2045
2027
2043
2015
2009
2017

FIGURE 15

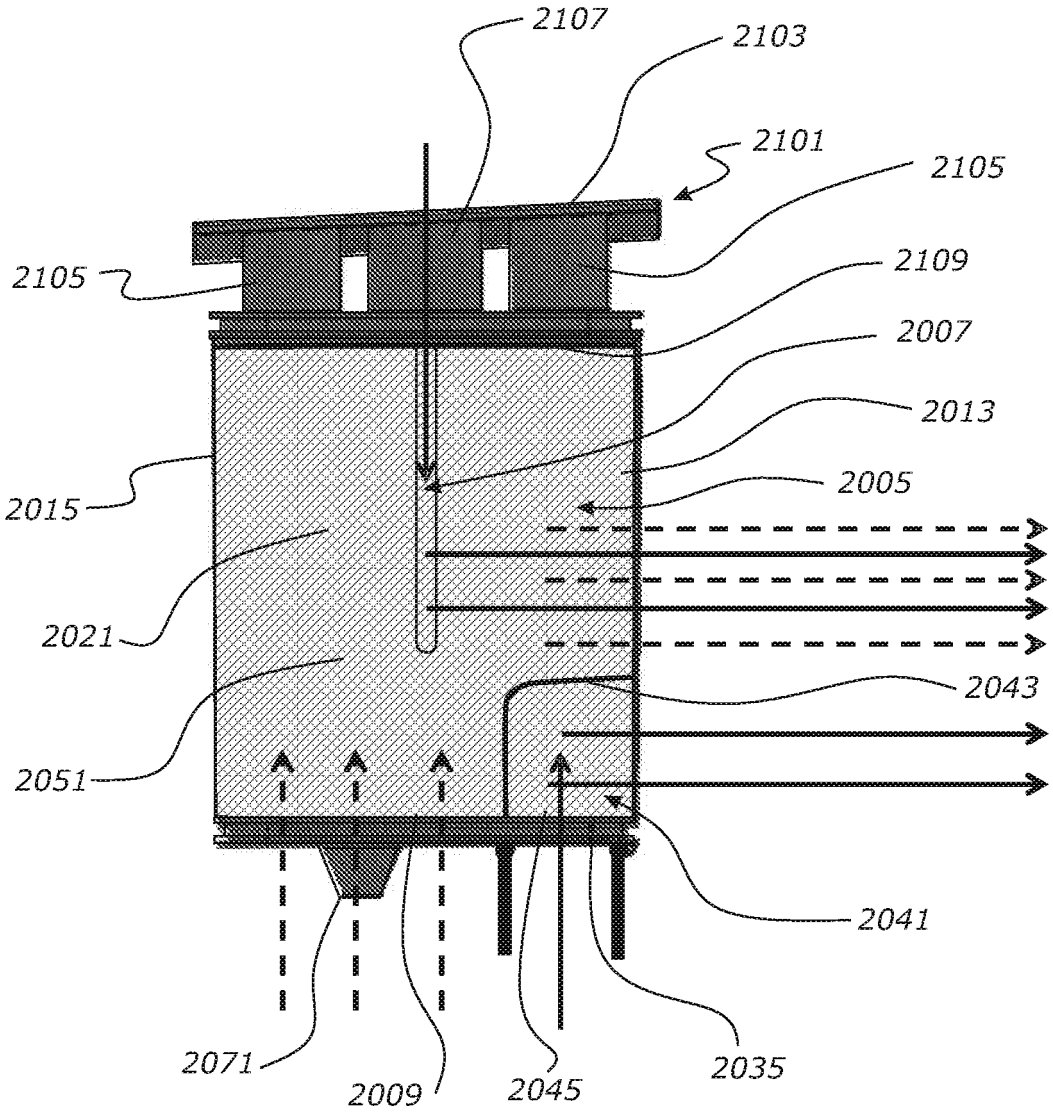

2107
2103
2101
2105
2105
2109
2007
2013
2015
2005
2021
2043
2051
2041
2071
2009
2045
2035

FIGURE 16

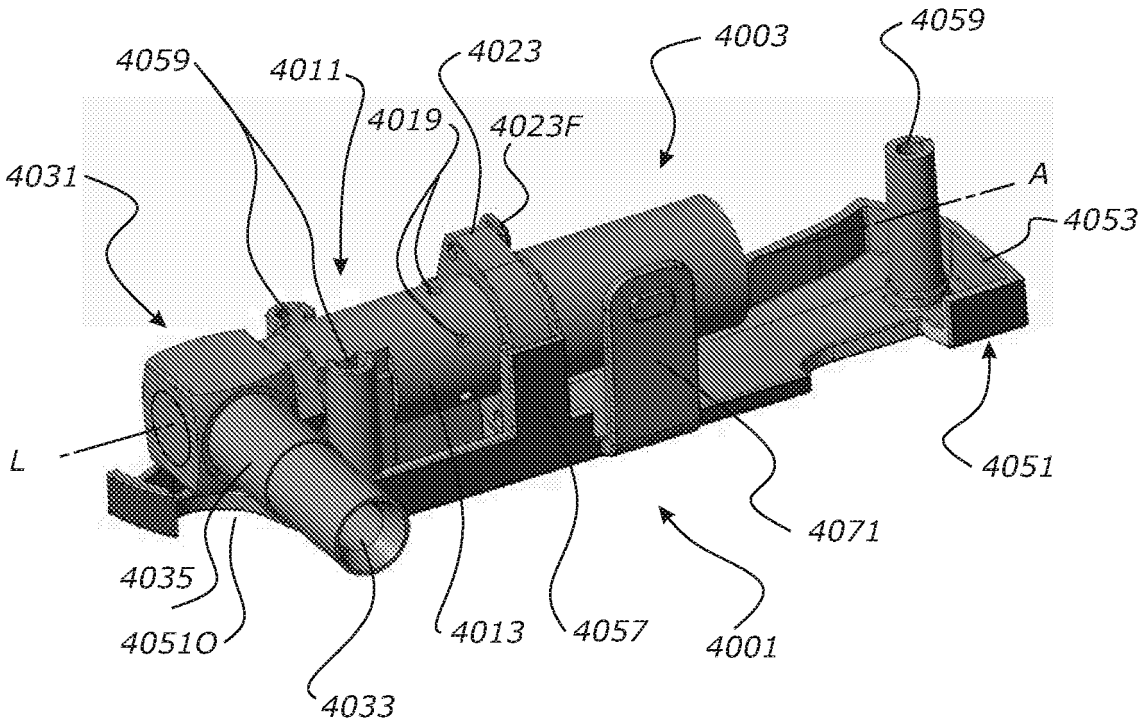

4059
4011
4023
4003
4059
4019
4023F
4031
A
4053
L
4051
4071
4035
4051O
4013
4057
4001
4033

FIGURE 17

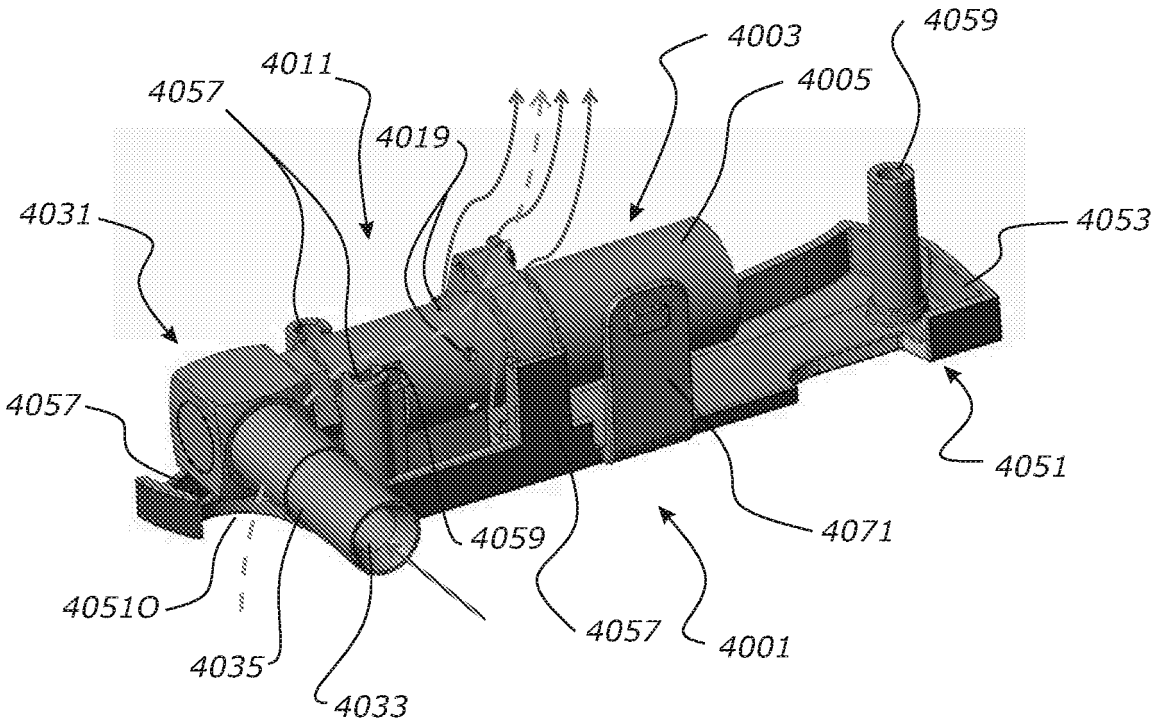

4059
4003
4011
4005
4057
4019
4031
4053
4057
4051
4071
4059
40510
4057
4001
4035
4033

FIGURE 18

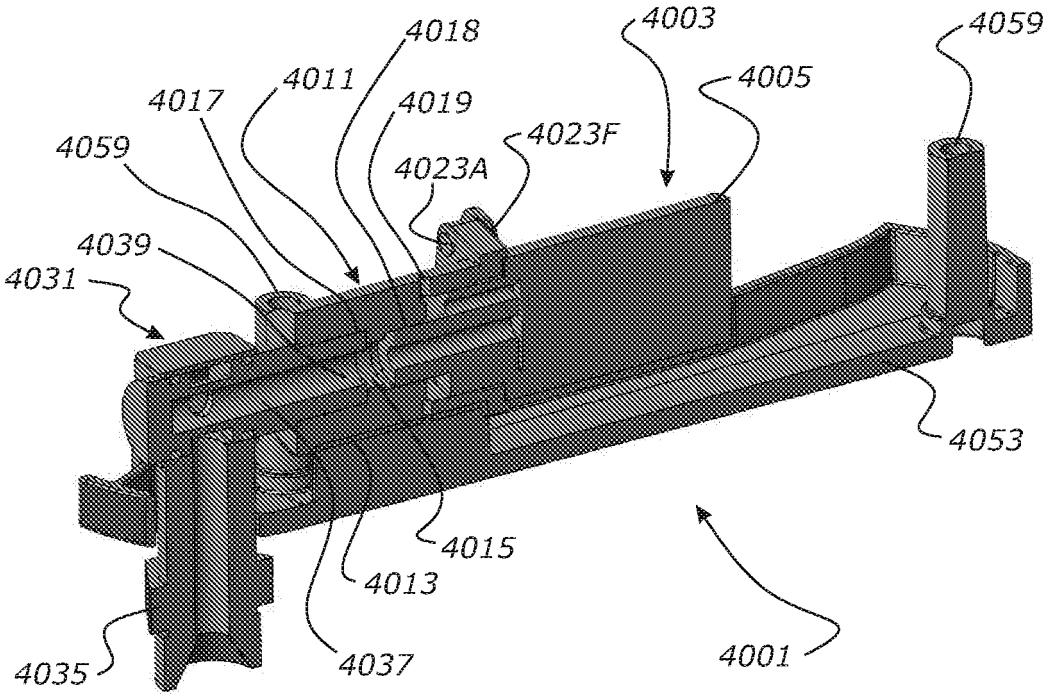

4018
4003
4059
4011
4005
4017
4019
4023F
4059
4023A
4039
4031
4053
4015
4013
4035
4037
4001

FIGURE 19

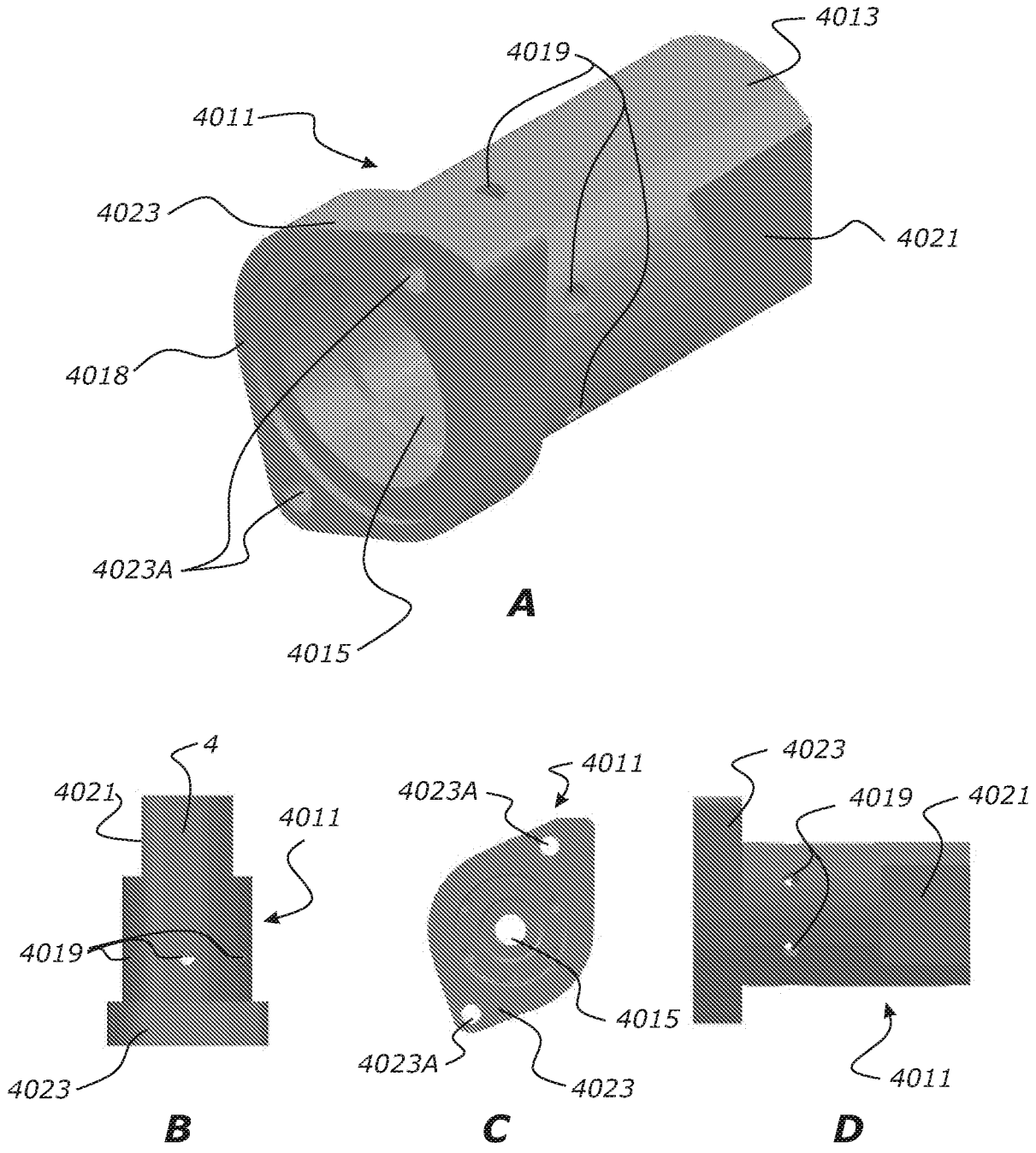

4013
4019
4011
4023
4021
4018
4023A
4015
A
4
4021
4011
4019
4023
B
4011
4023A
4015
4023A
4023
C
4023
4019
4021
4011
D

FIGURE 20

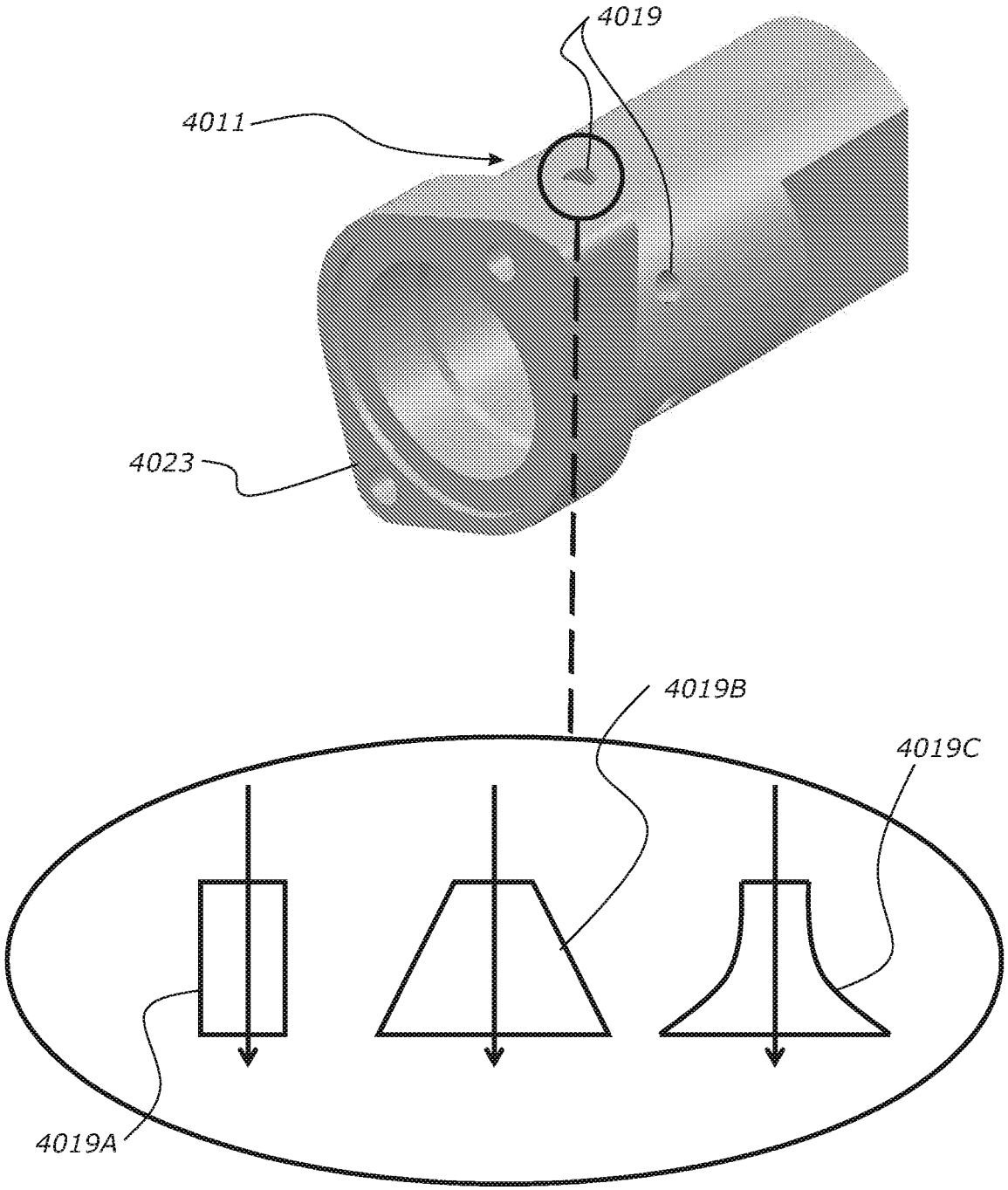


FIGURE 21

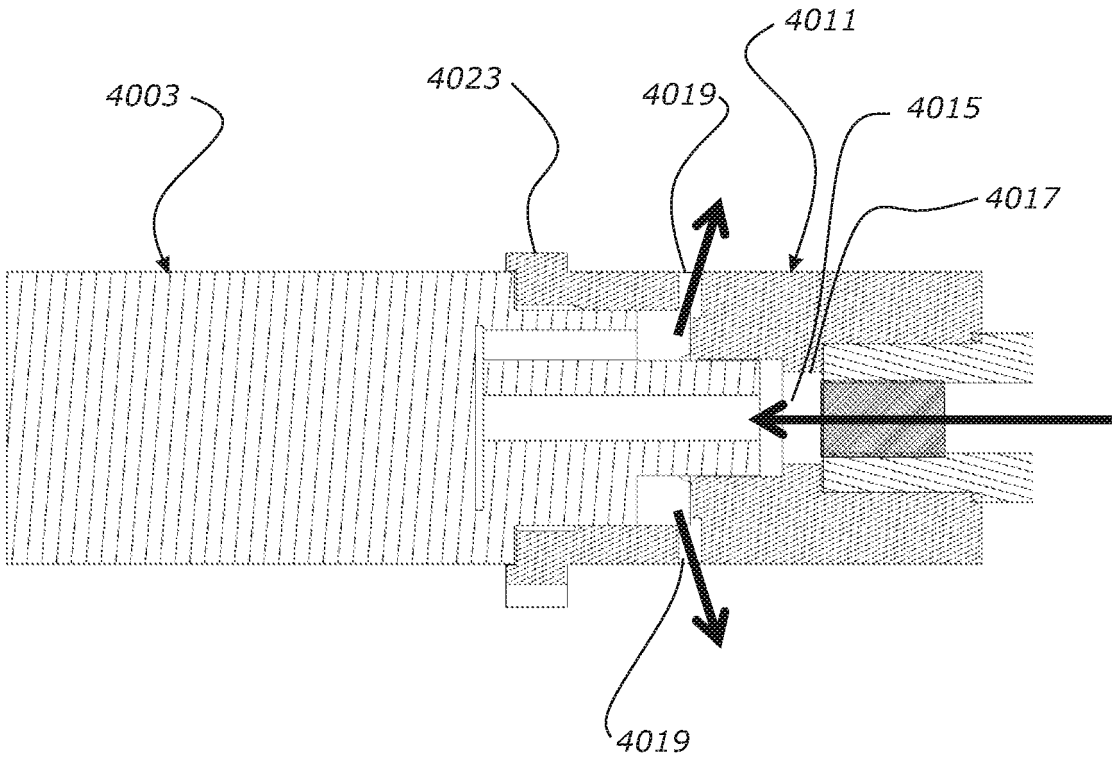


FIGURE 22

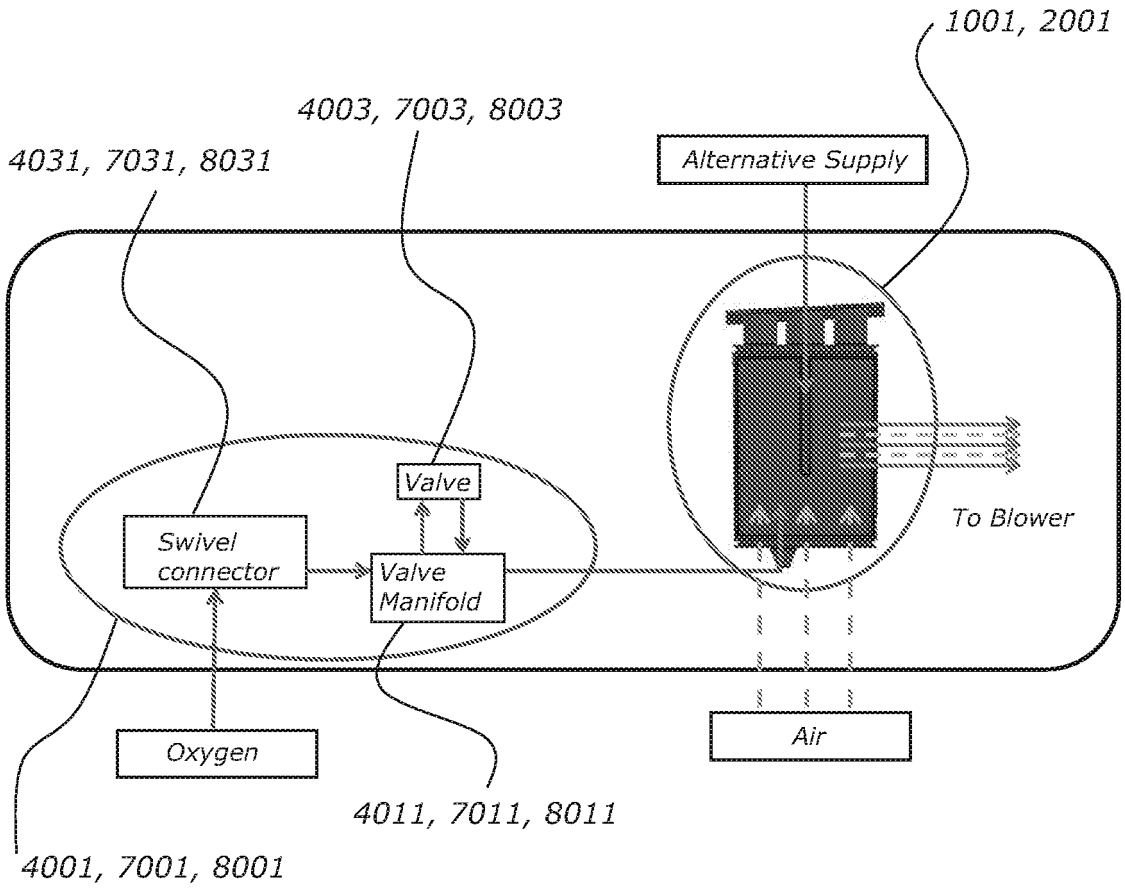

1001, 2001
4003, 7003, 8003
4031, 7031, 8031
Alternative Supply
Valve
Swivel connector
Valve Manifold
To Blower
Oxygen
Air
4011, 7011, 8011
4001, 7001, 8001

FIGURE 23

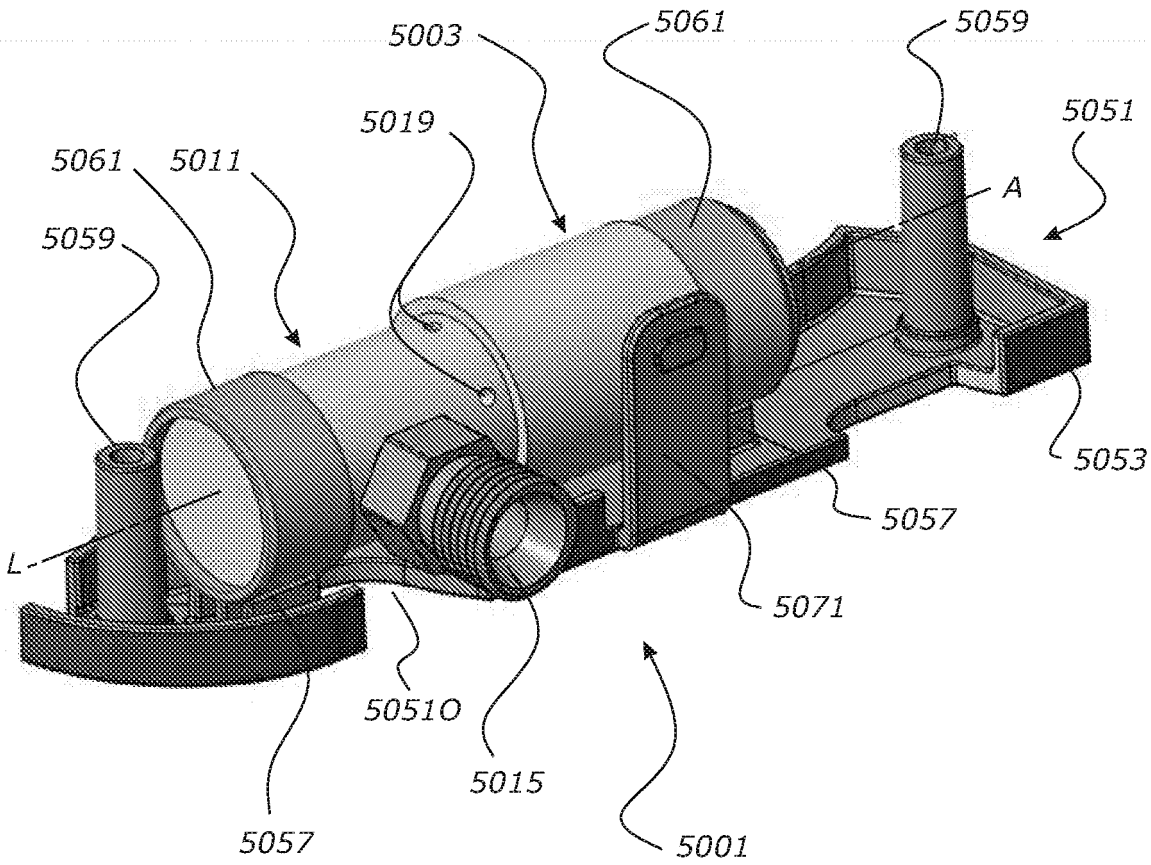

5003
5061
5059
5019
5051
5061
5011
A
5059
5053
5057
L
5071
5051O
5015
5057
5001

FIGURE 24

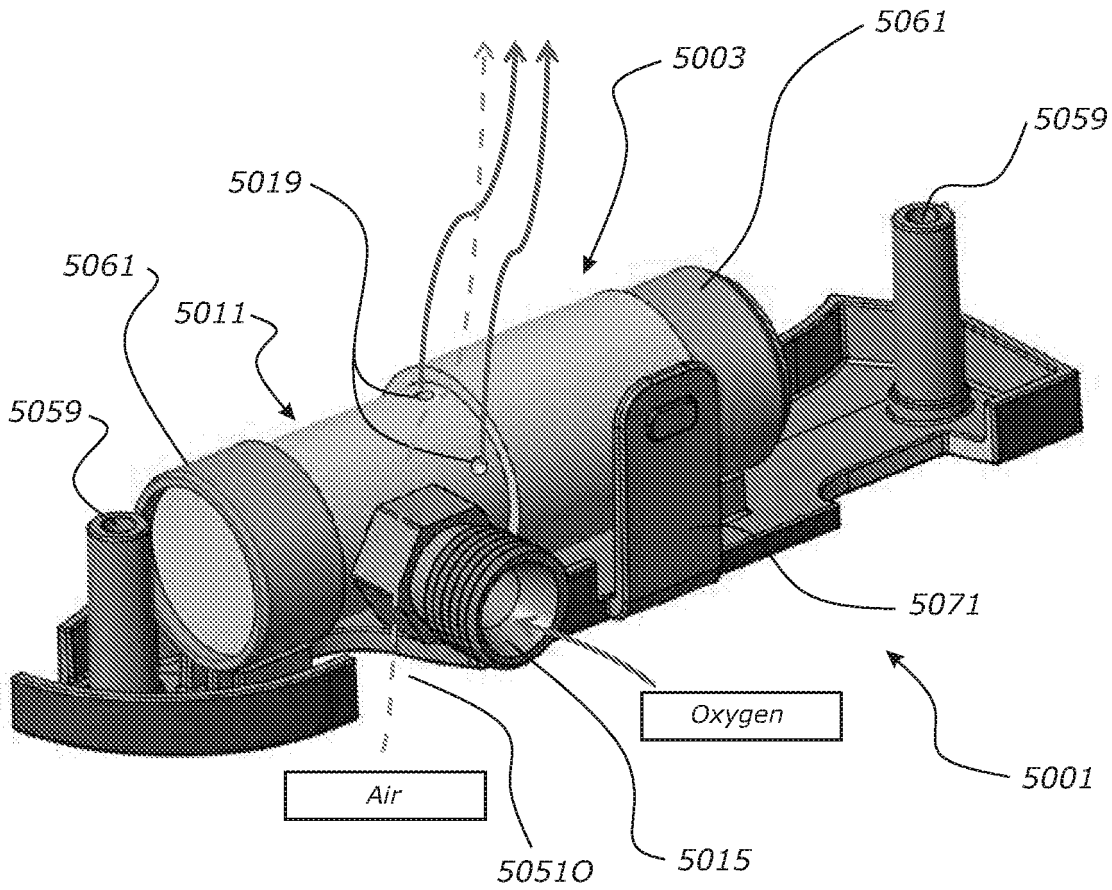

5061
5003
5059
5019
5061
5011
5059
5071
Oxygen
5001
Air
5051O
5015

FIGURE 25

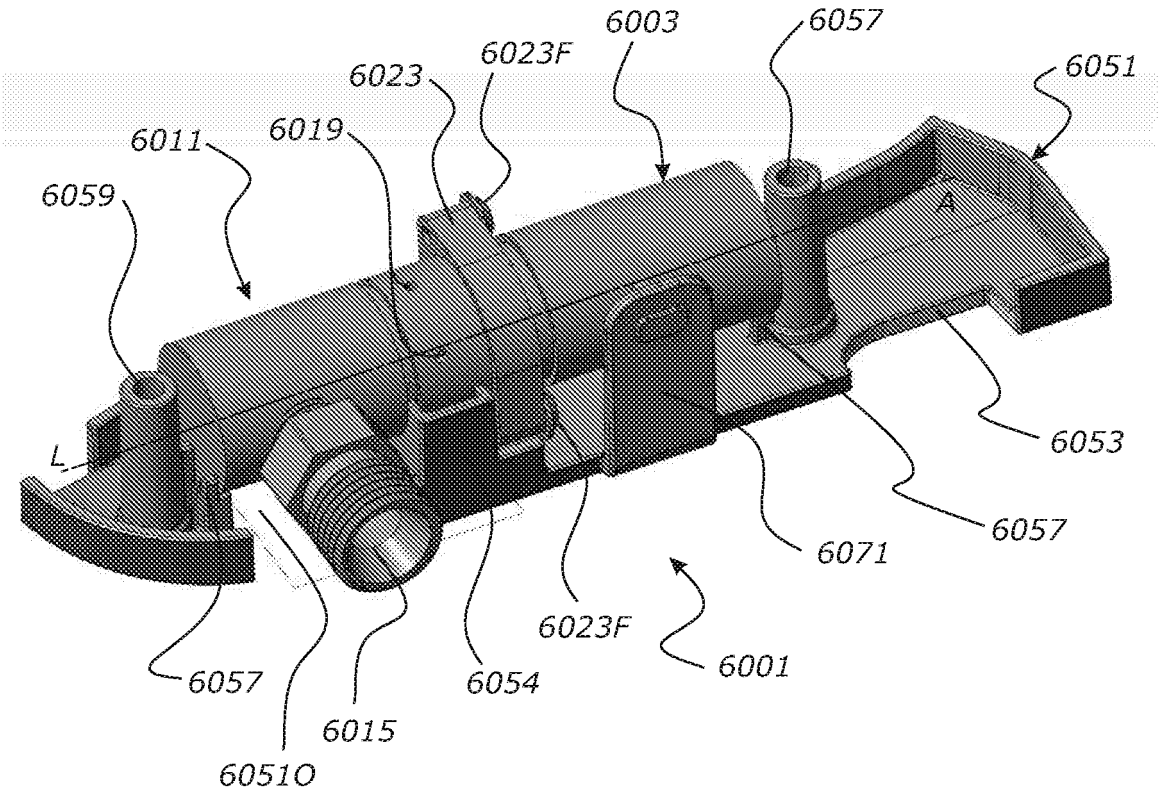

6003
6057
6023F
6023
6051
6011
6019
6059
A
6053
L
6057
6071
6023F
6001
6057
6054
6015
60510

FIGURE 26

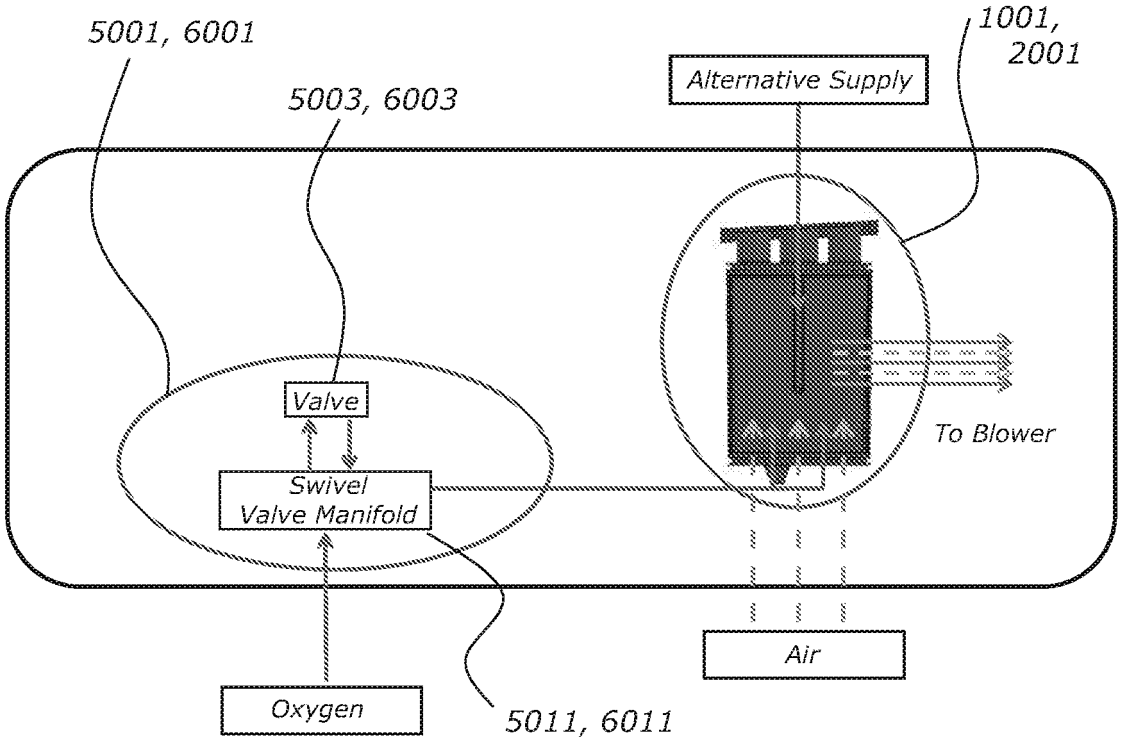

5001, 6001
5003, 6003
Alternative Supply
1001,
2001
Valve
Swivel
Valve Manifold
To Blower
Air
Oxygen
5011, 6011

FIGURE 27

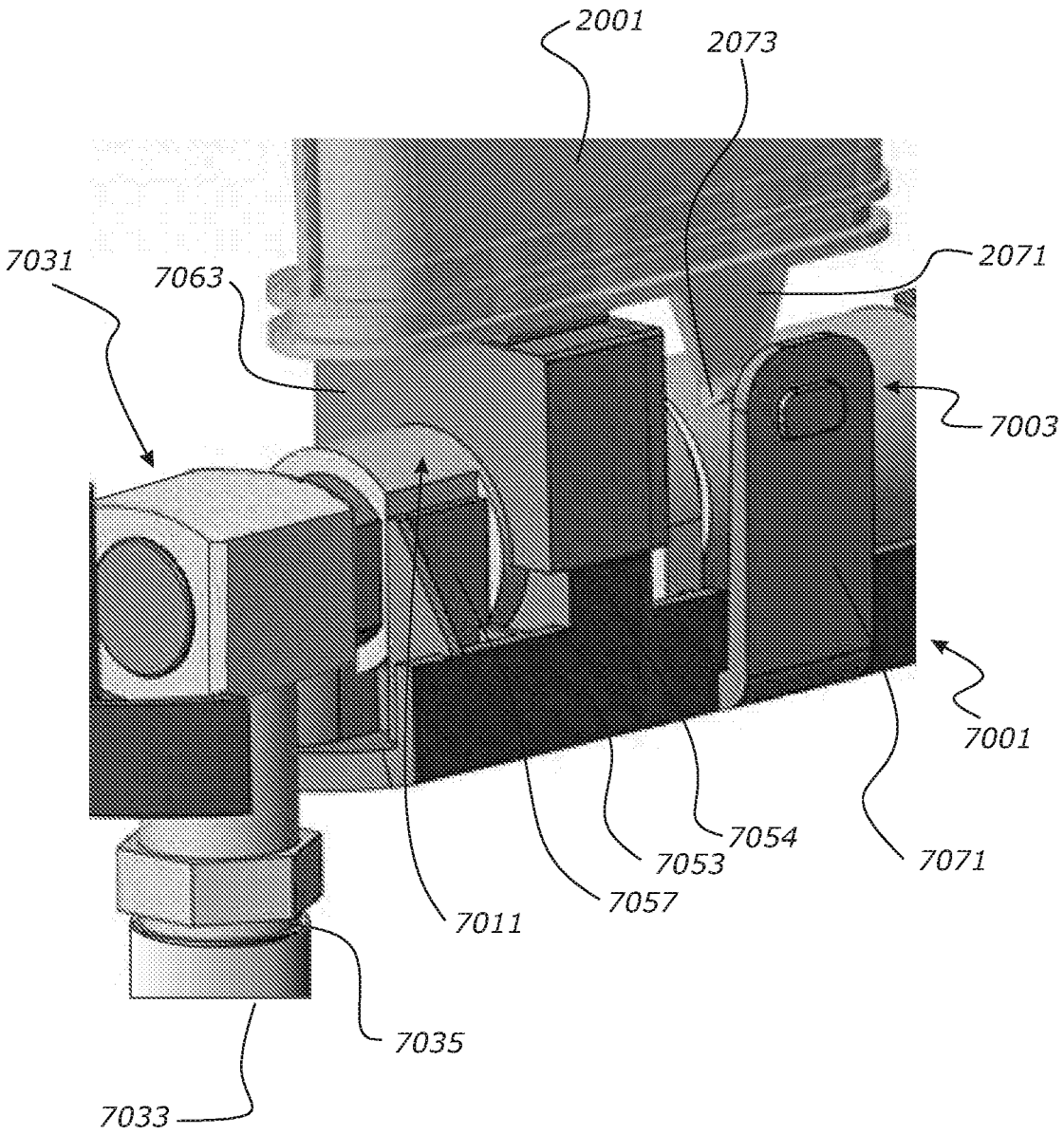

2001
2073
7031
7063
2071
7003
7001
7054
7053
7071
7057
7011
7035
7033

FIGURE 28

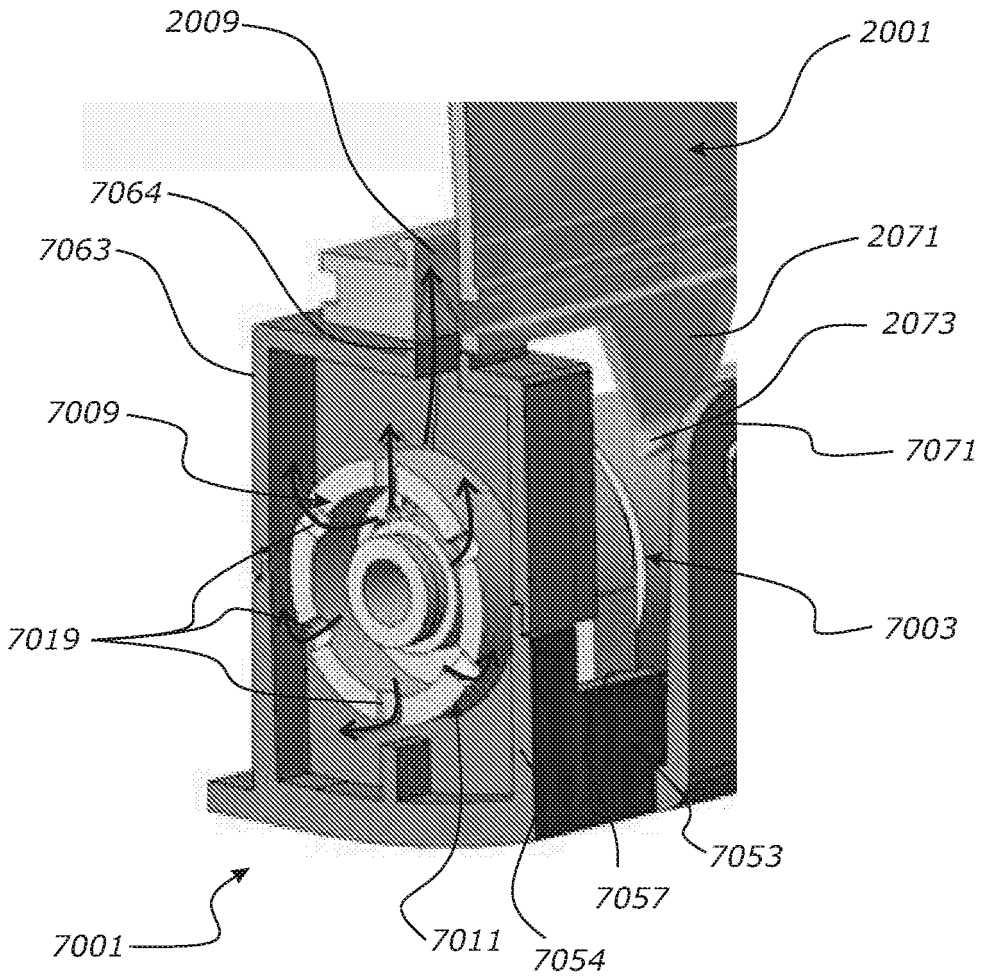

2009
2001
7064
7063
2071
2073
7009
7071
7019
7003
7053
7057
7001
7011
7054

FIGURE 29

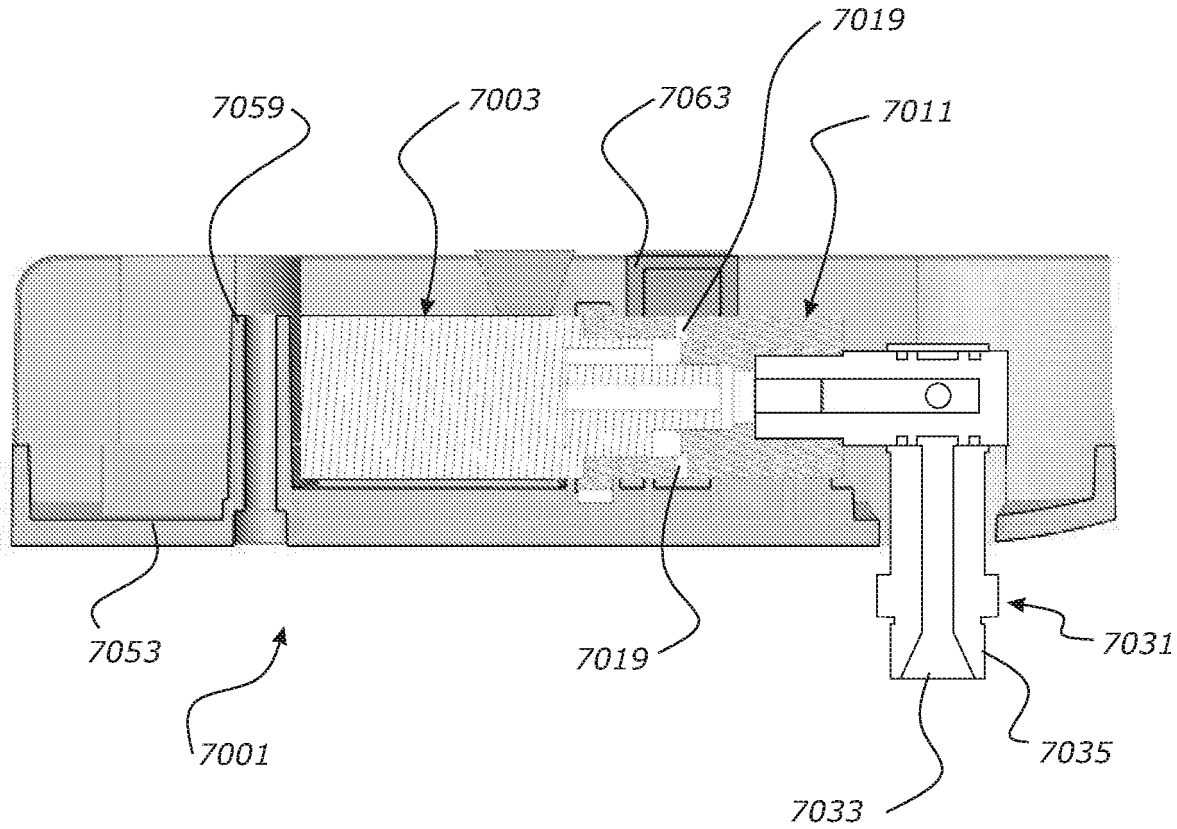


FIGURE 30

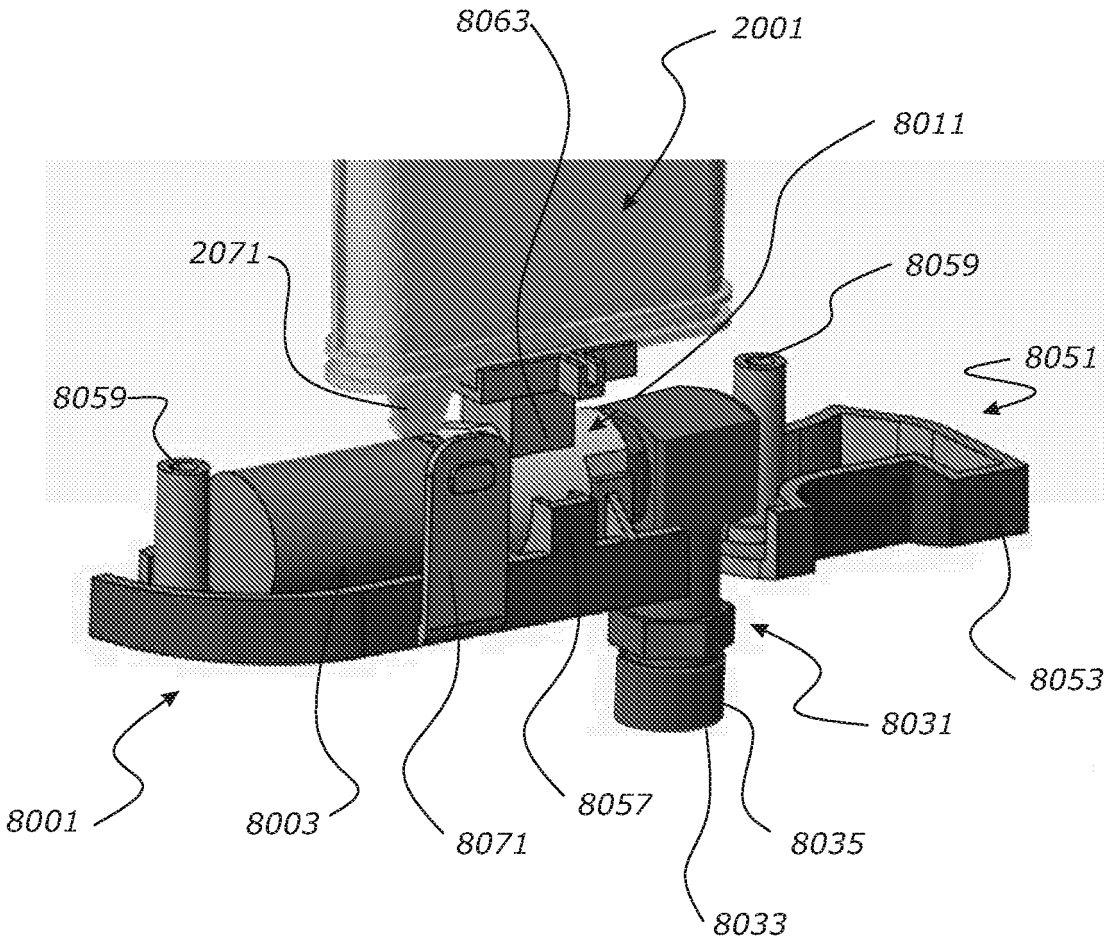

8063
2001
8011
2071
8059
8051
8059
8053
8031
8001
8003
8071
8057
8035
8033

FIGURE 31

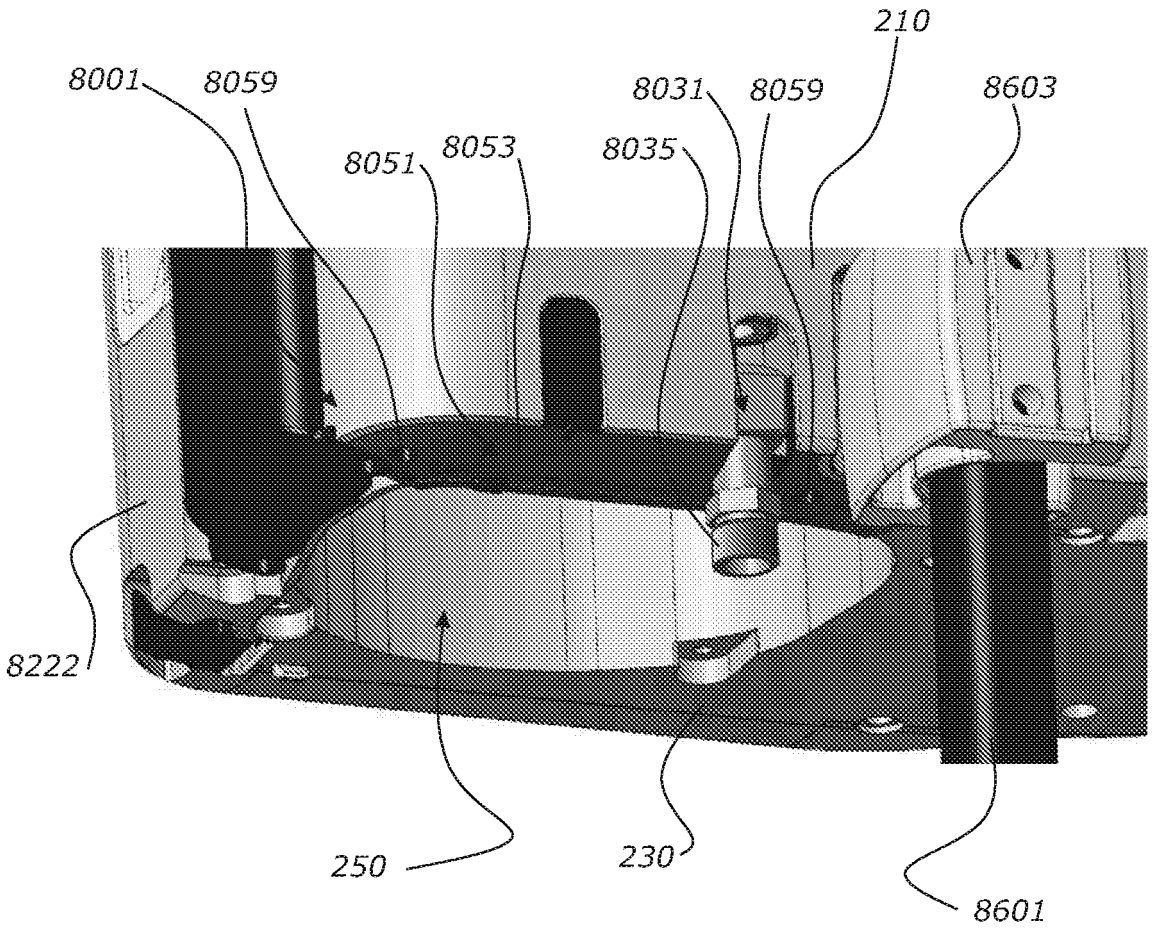


FIGURE 32

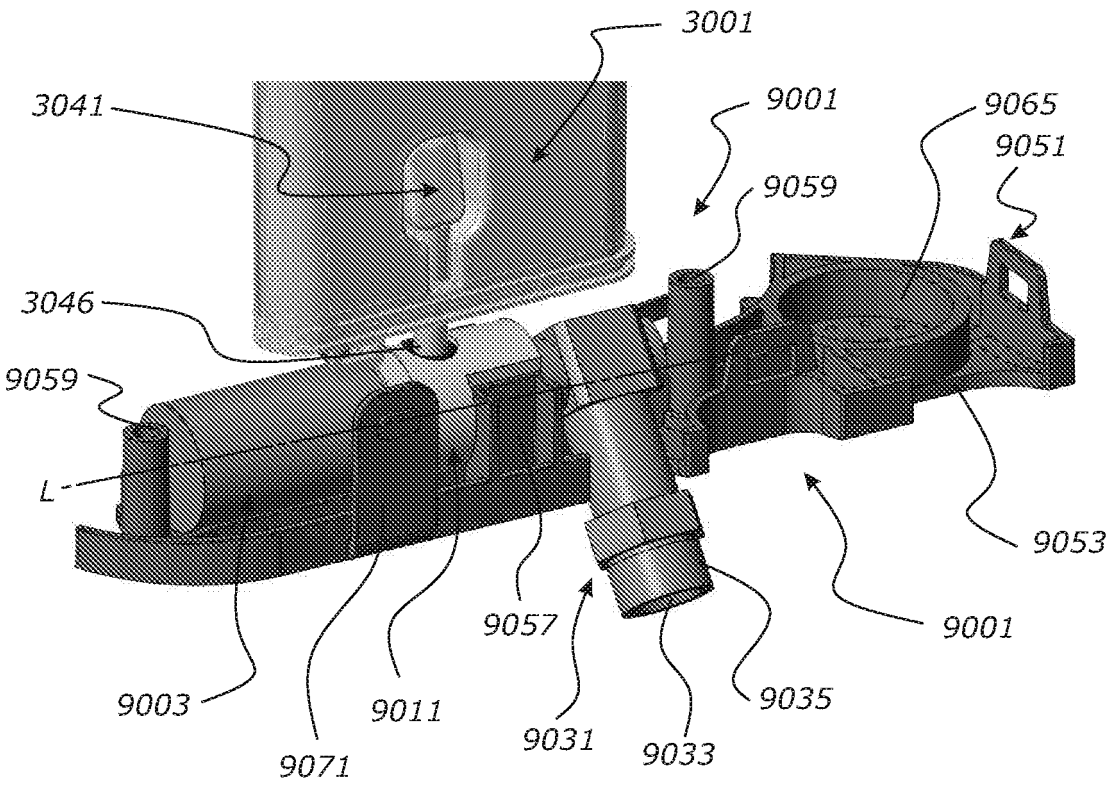

3001
3041
9001
9065
9051
9059
3046
9059
L
9053
9001
9057
9003
9011
9035
9031
9033
9071

FIGURE 33

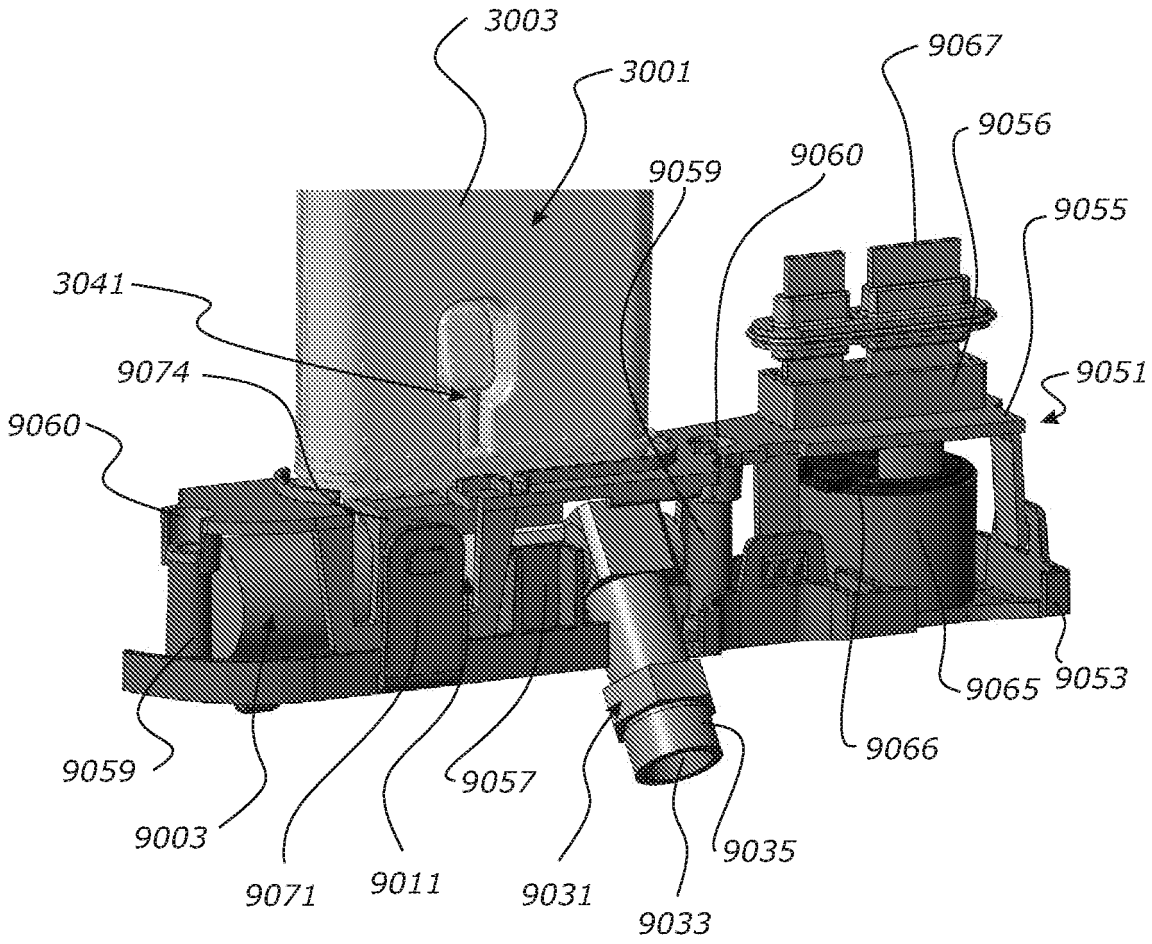

3003
3001
9067
9056
9059
9060
9055
3041
9074
9051
9060
9065
9053
9059
9066
9057
9003
9035
9071
9011
9031
9033

FIGURE 34

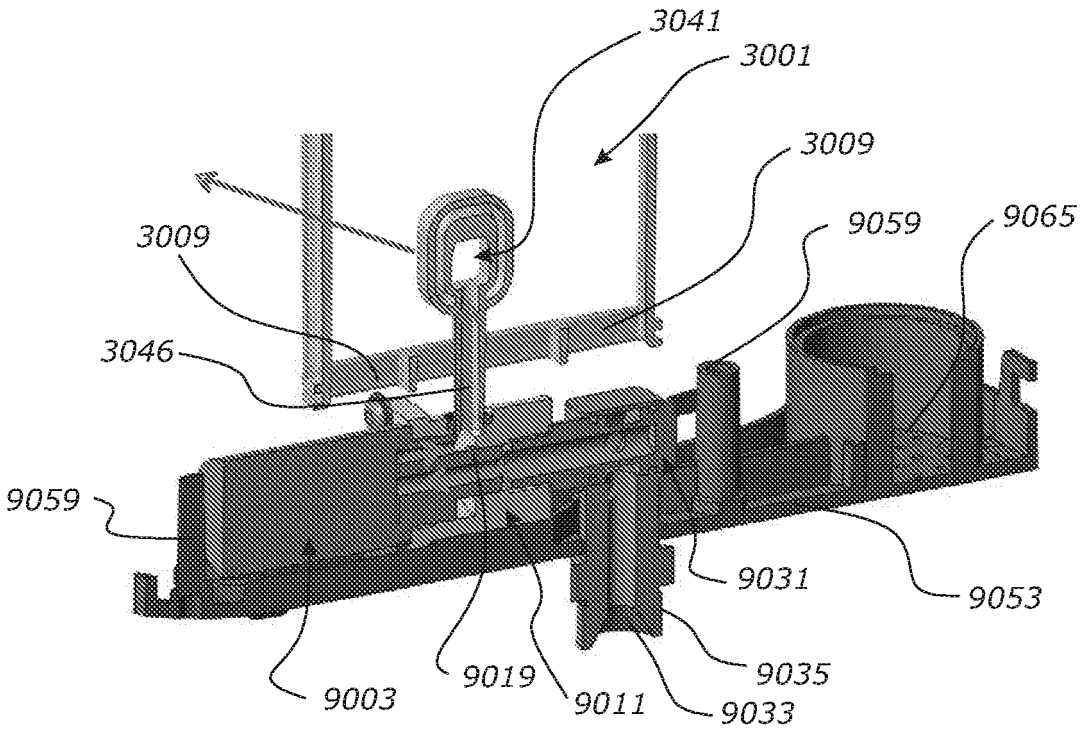

3041
3001
3009
3009
9059
9065
3046
9059
9031
9053
9035
9003
9019
9011
9033

FIGURE 35

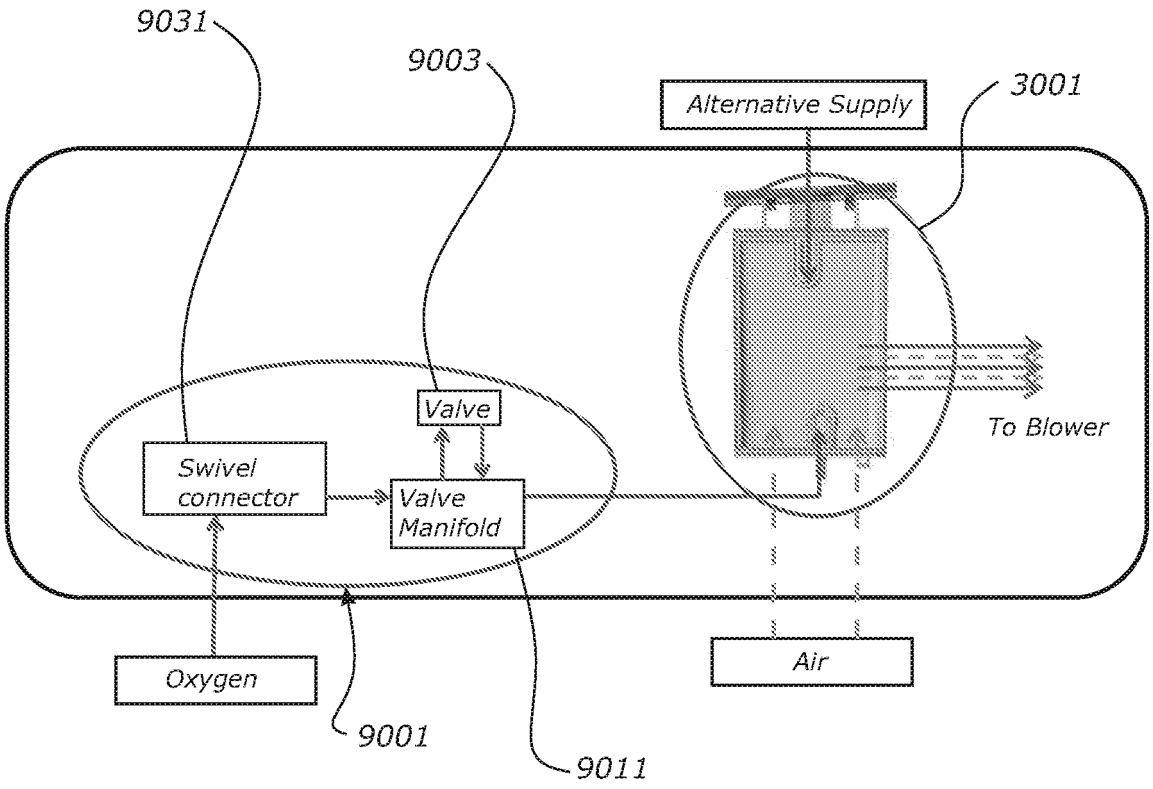

9031
9003
Alternative Supply
3001
Valve
Swivel connector
Valve Manifold
To Blower
Oxygen
Air
9001
9011

FIGURE 36

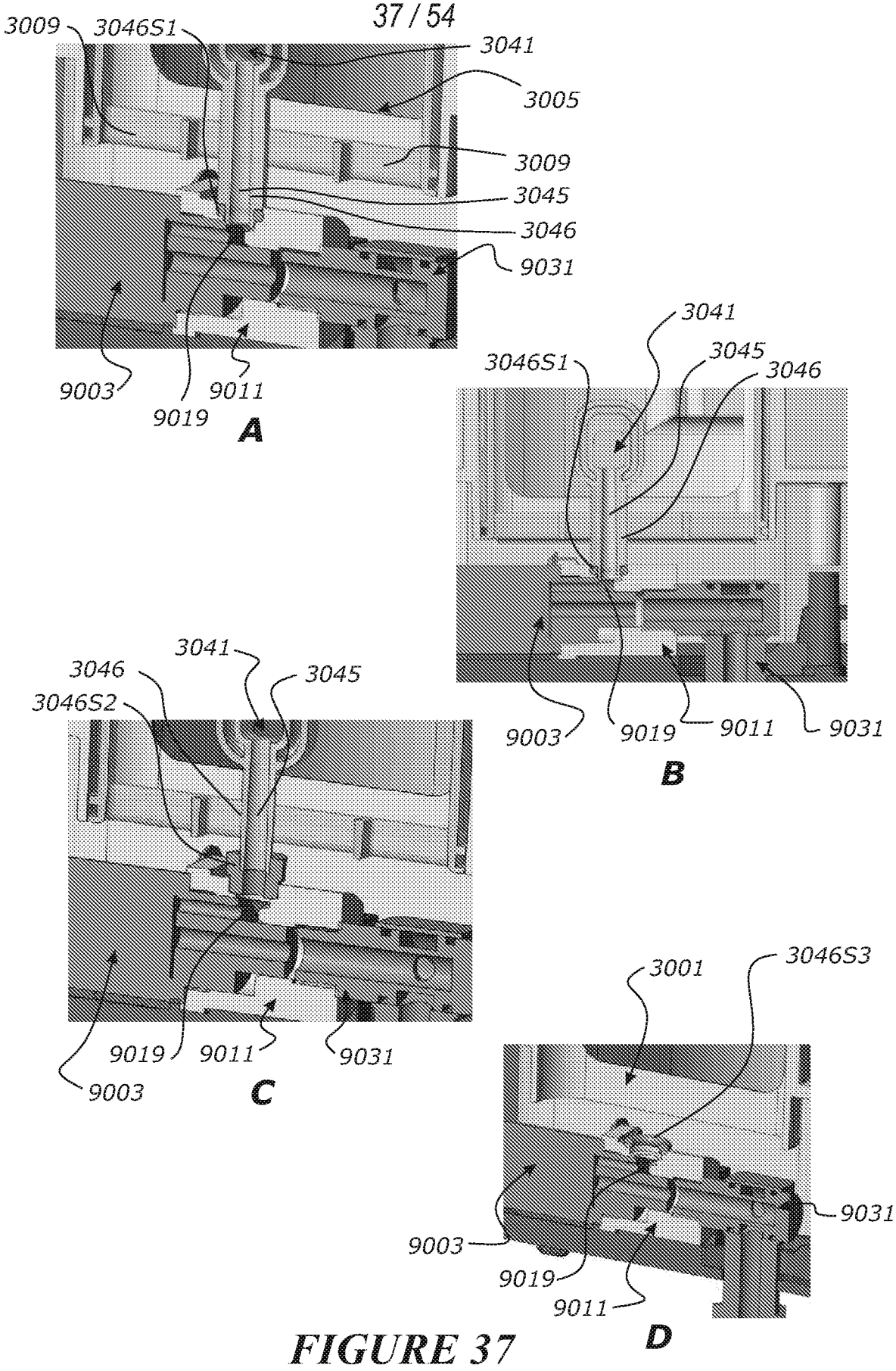

3009
3046S1
3041
3005
3009
3045
3046
9031
9003
9019
9011
A
3041
3045
3046S1
3046
9003
9019
9011
9031
B
3041
3046
3045
3046S2
9019
9011
9031
9003
C
3001
3046S3
9031
9003
9019
9011
D

FIGURE 37

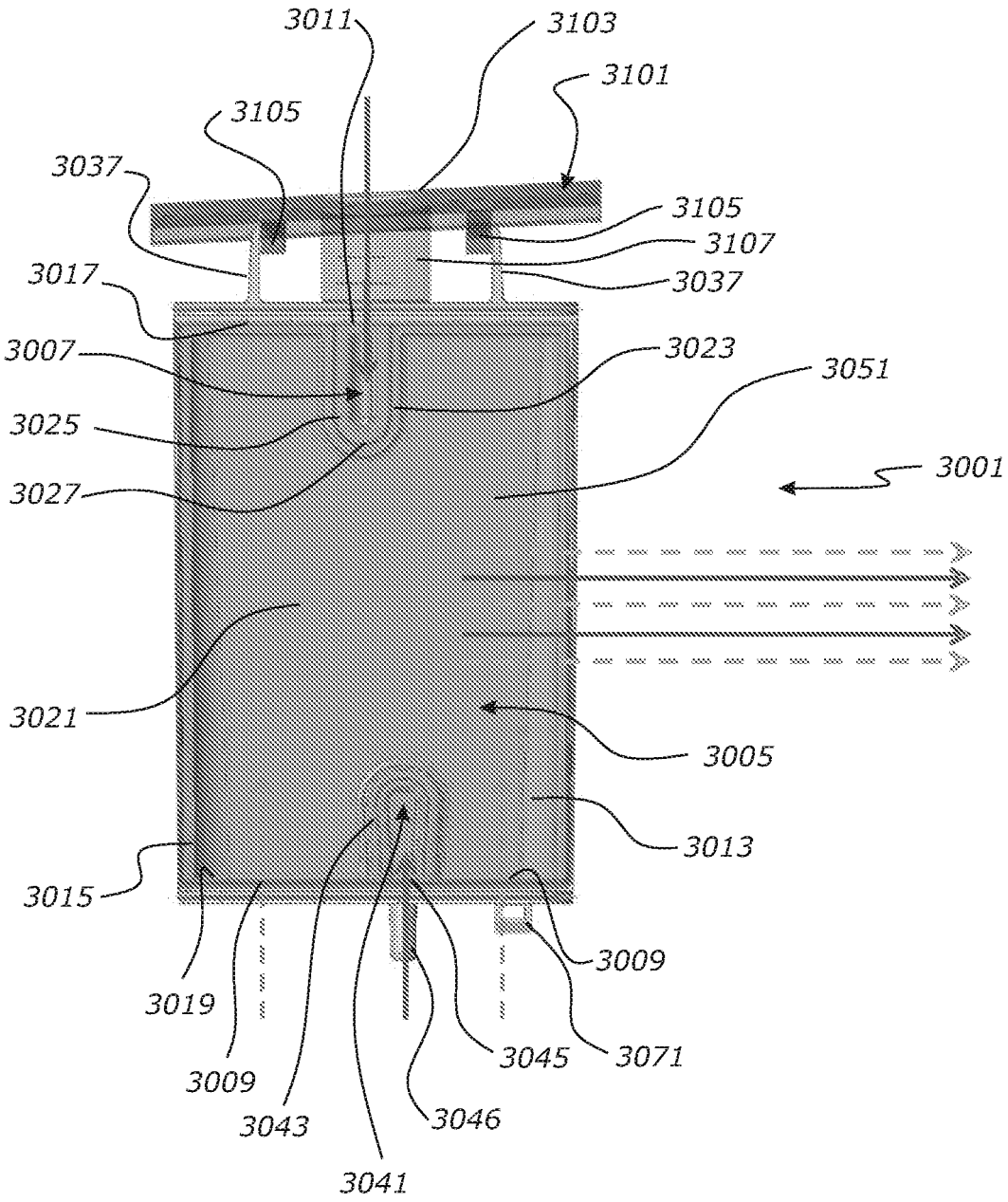

3011
3103
3101
3105
3037
3105
3107
3017
3037
3007
3023
3051
3025
3001
3027
3021
3005
3013
3015
3009
3019
3009
3045
3071
3043
3046
3041

FIGURE 38

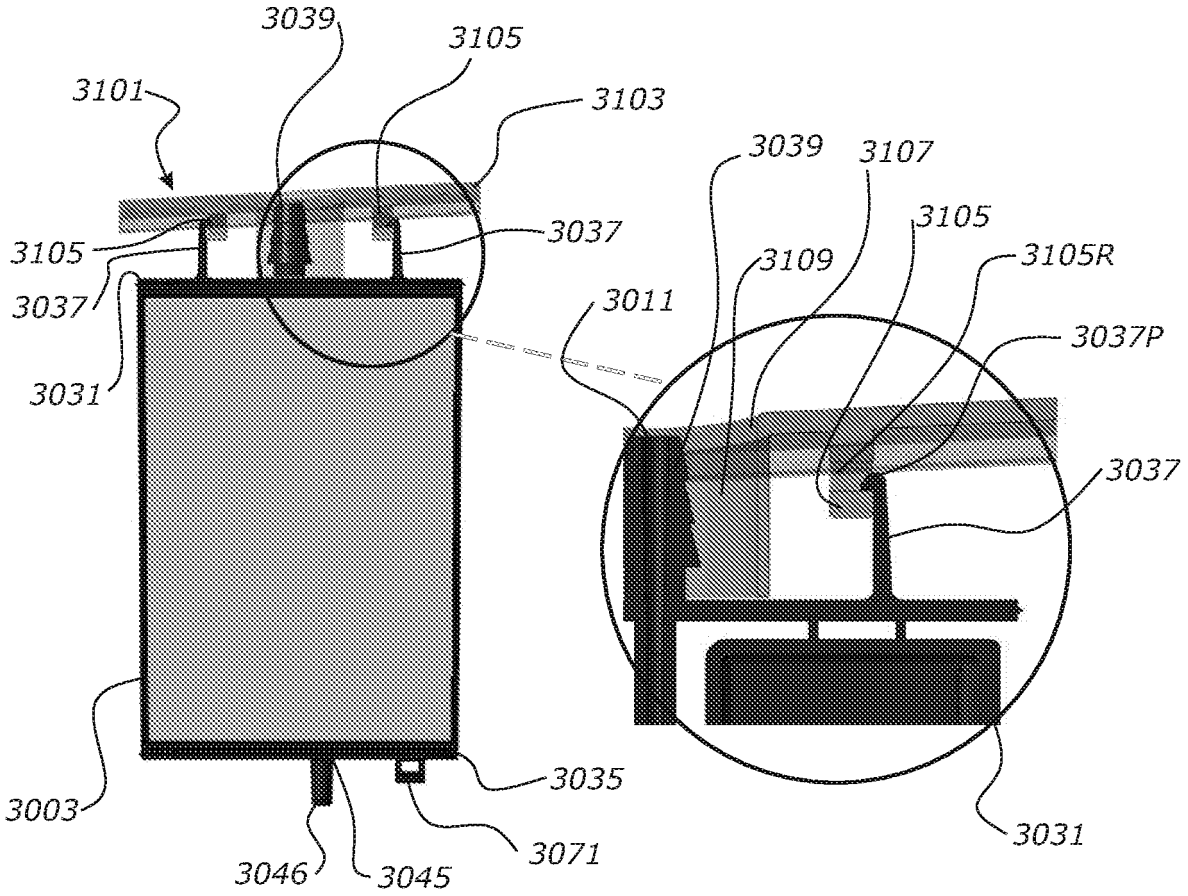

3039
3105
3101
3103
3039
3107
3105
3105
3037
3109
3105R
3037
3011
3037P
3031
3037
3003
3035
3071
3031
3046
3045

FIGURE 39

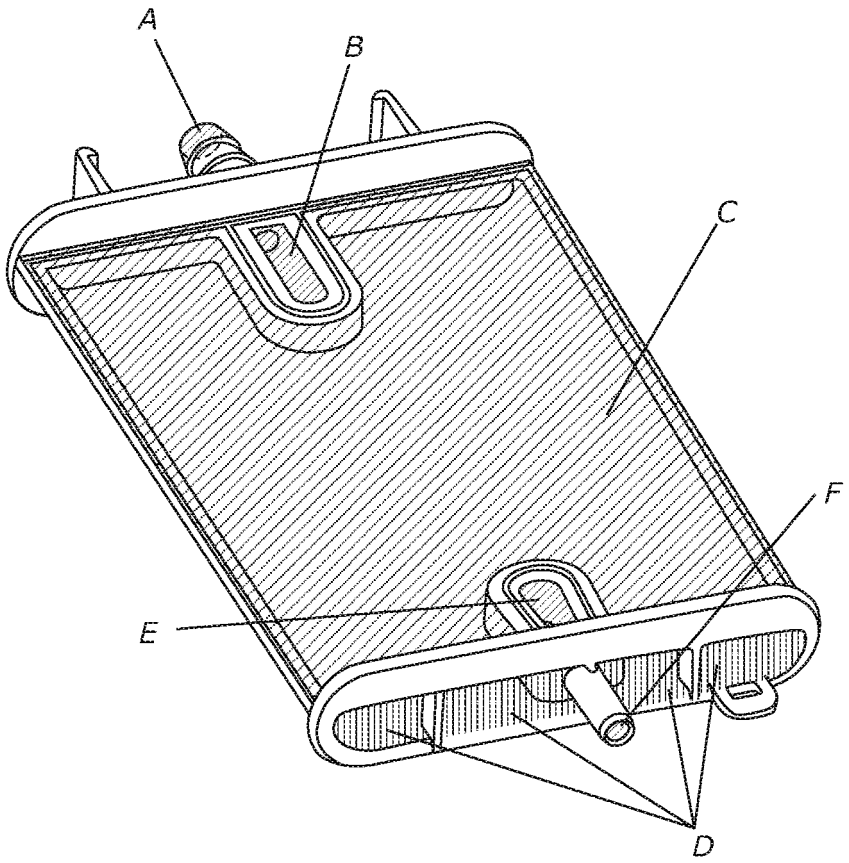


FIGURE 40

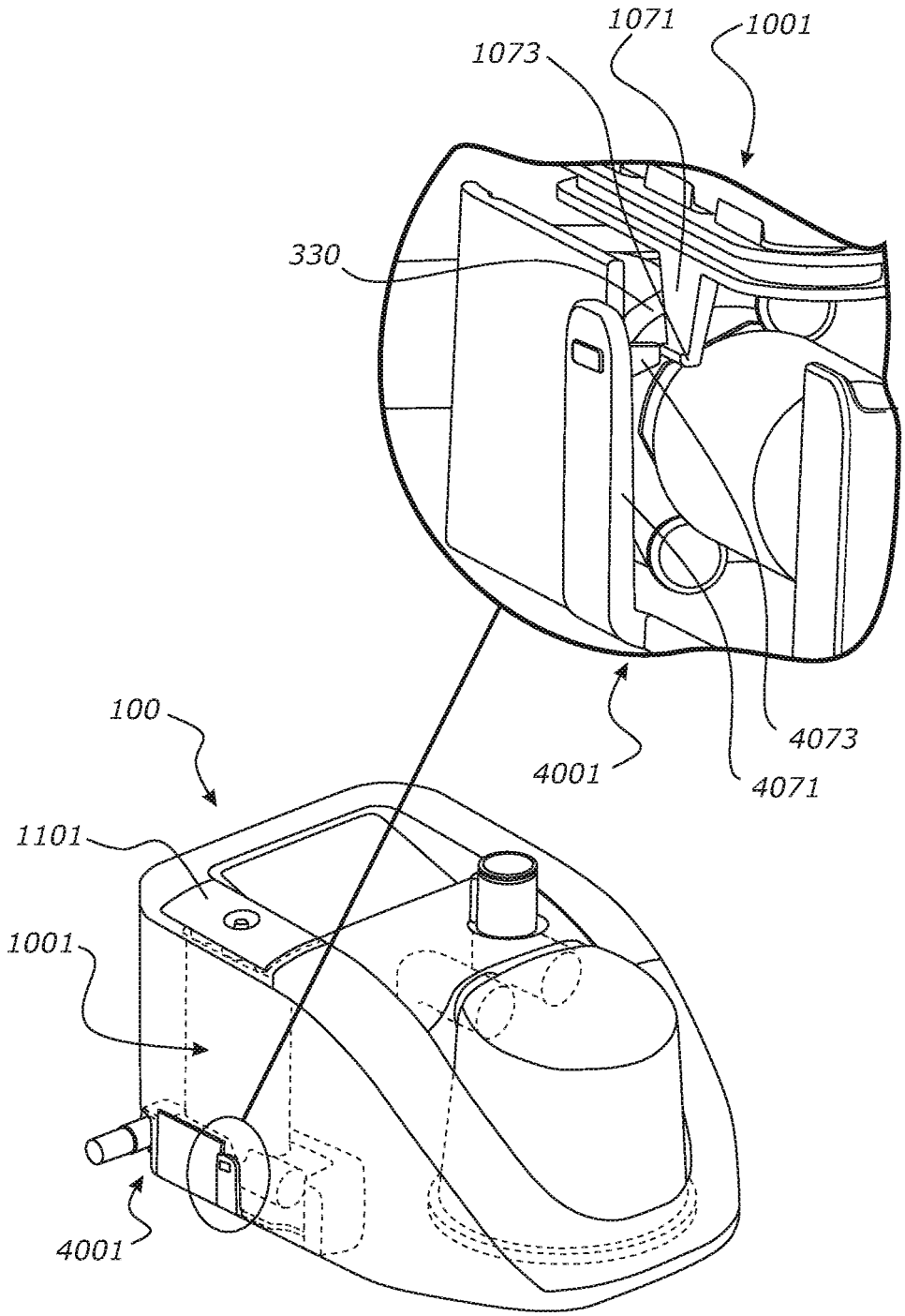


FIGURE 41

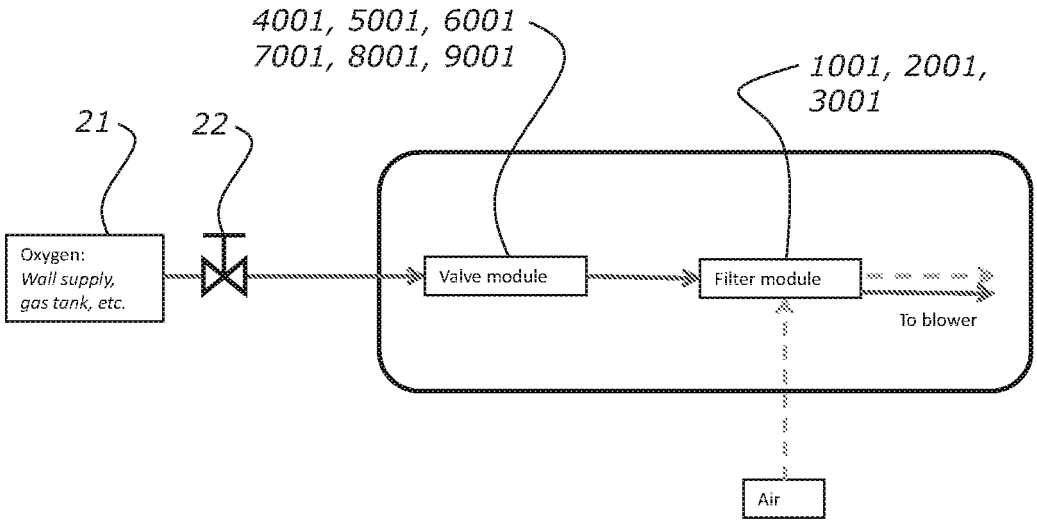

4001, 5001, 6001
7001, 8001, 9001
1001, 2001,
3001
21
22
Oxygen:
Wall supply,
gas tank, etc.
Valve module
Filter module
To blower
Air

FIGURE 42

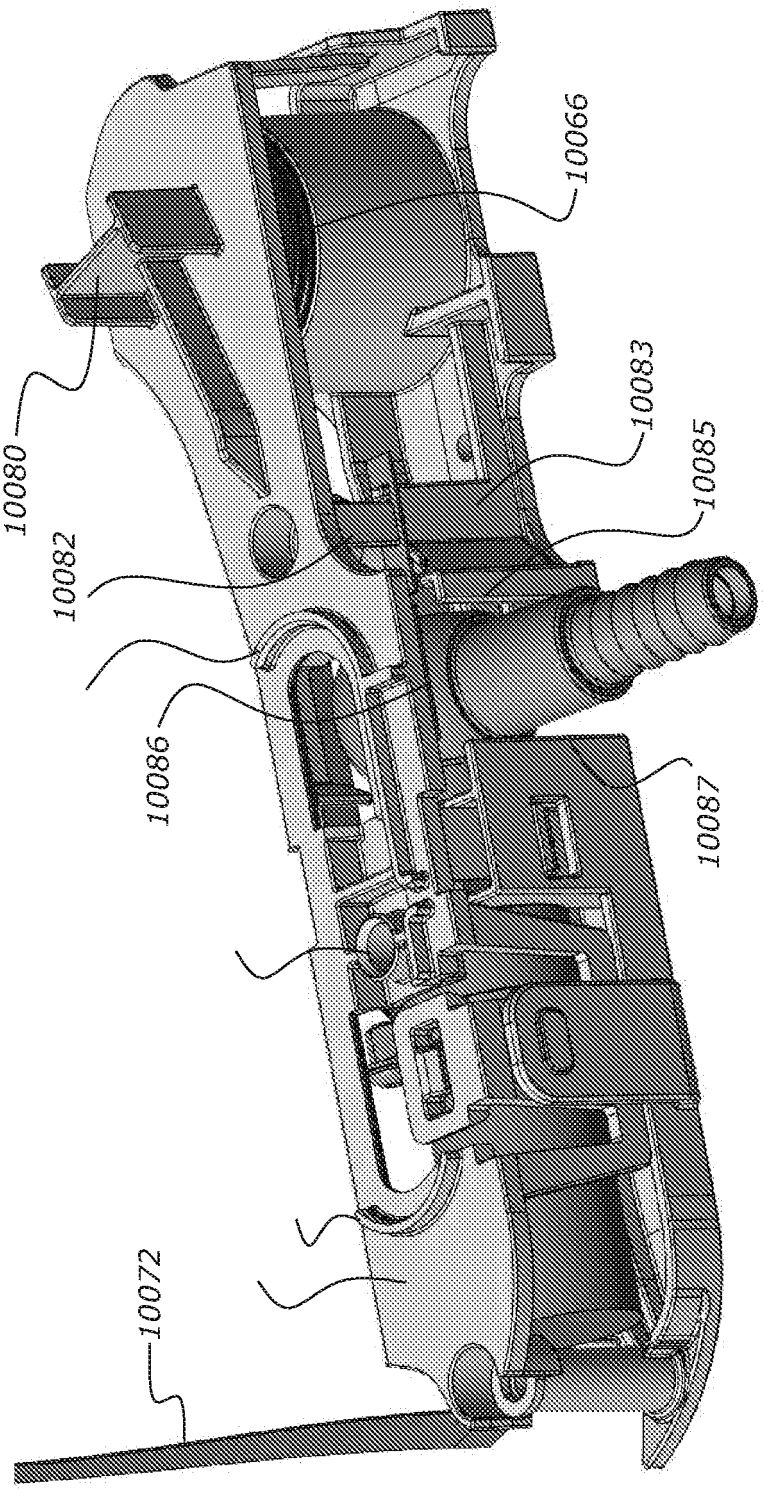


FIGURE 43

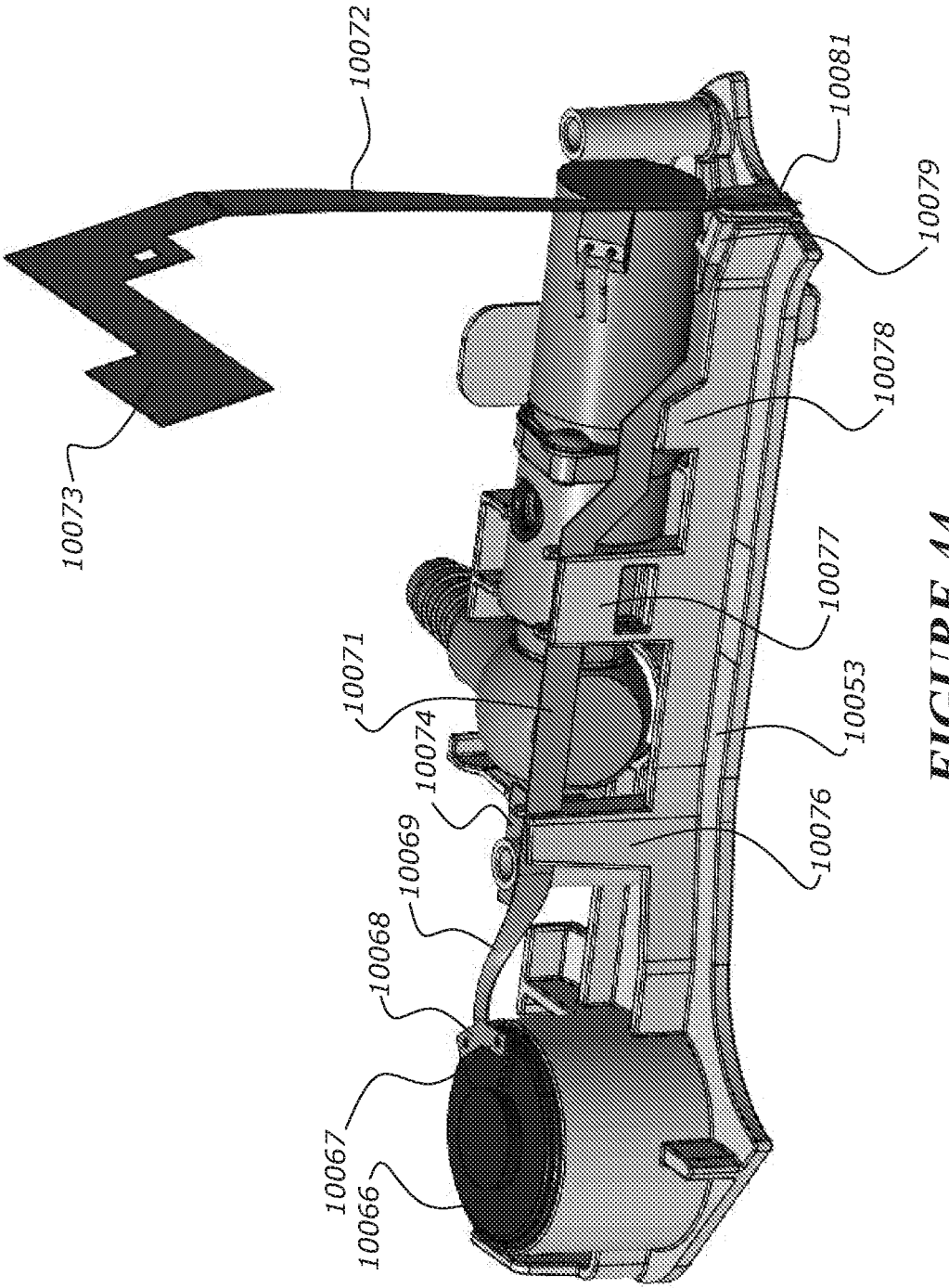

10072
10081
10079
10078
10077
10053
10076
10073
10071
10074
10069
10068
10067
10066

FIGURE 44

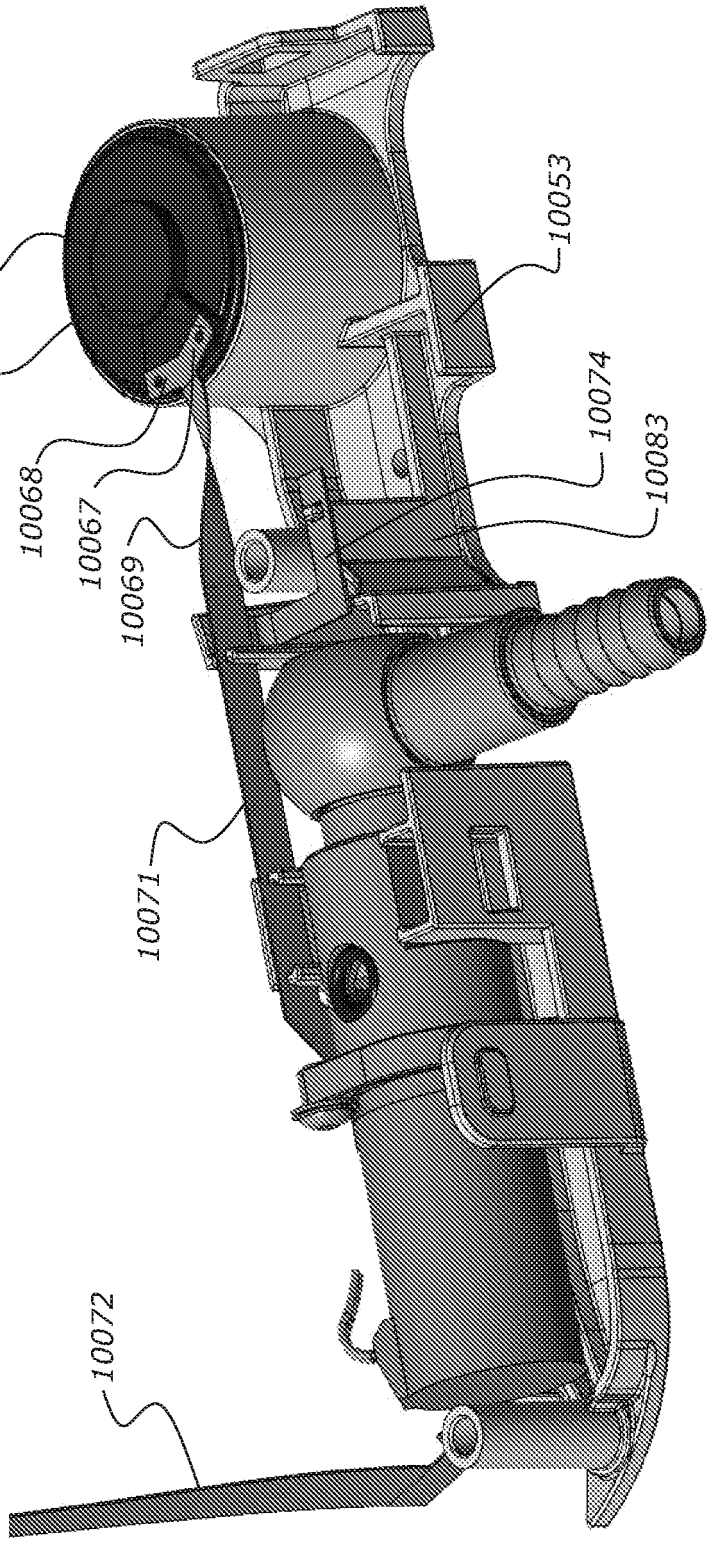

10066
10068
10068
10067
10069
10071
10072
10053
10074
10083

FIGURE 45

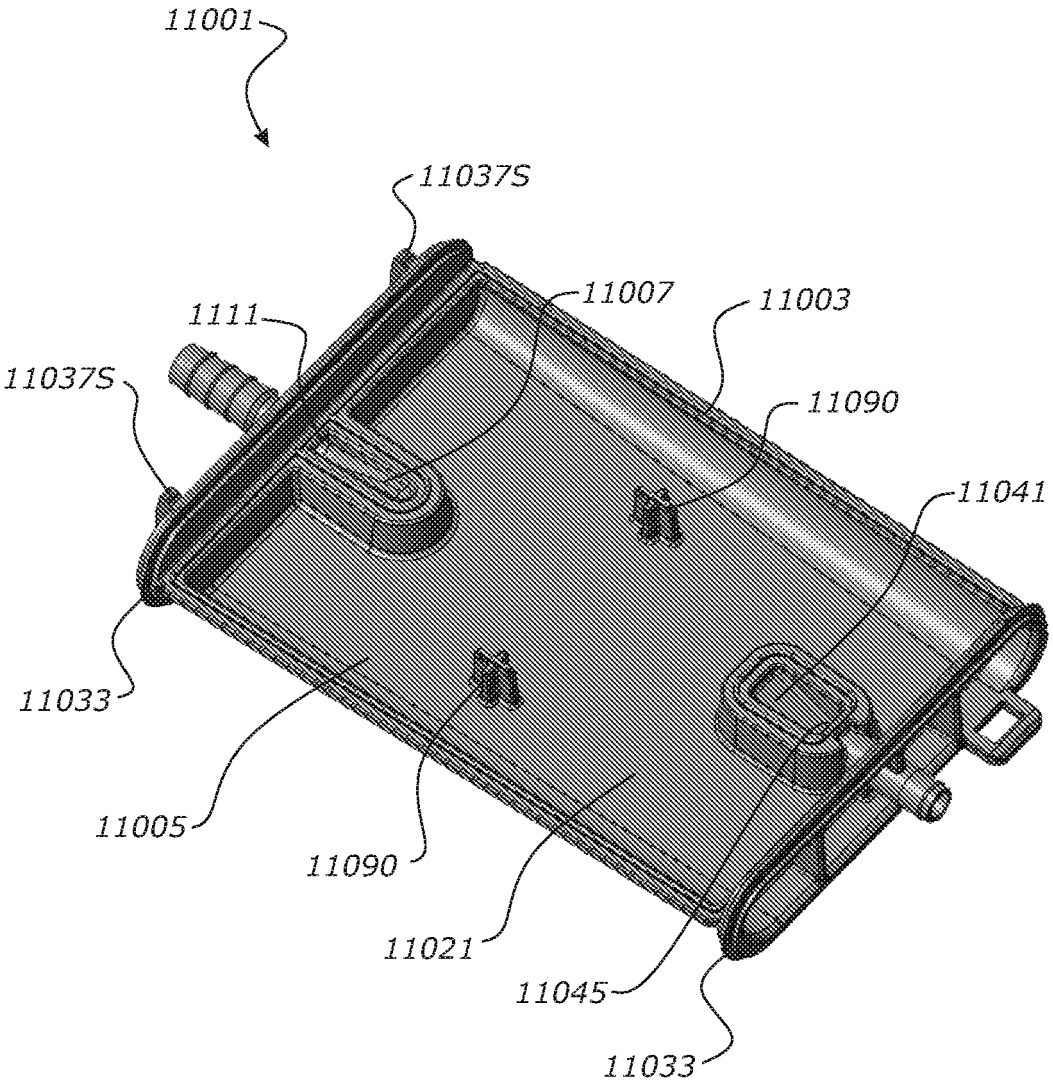

11001
11037S
11007
11003
1111
11037S
11090
11041
11033
11005
11090
11021
11045
11033

FIGURE 46

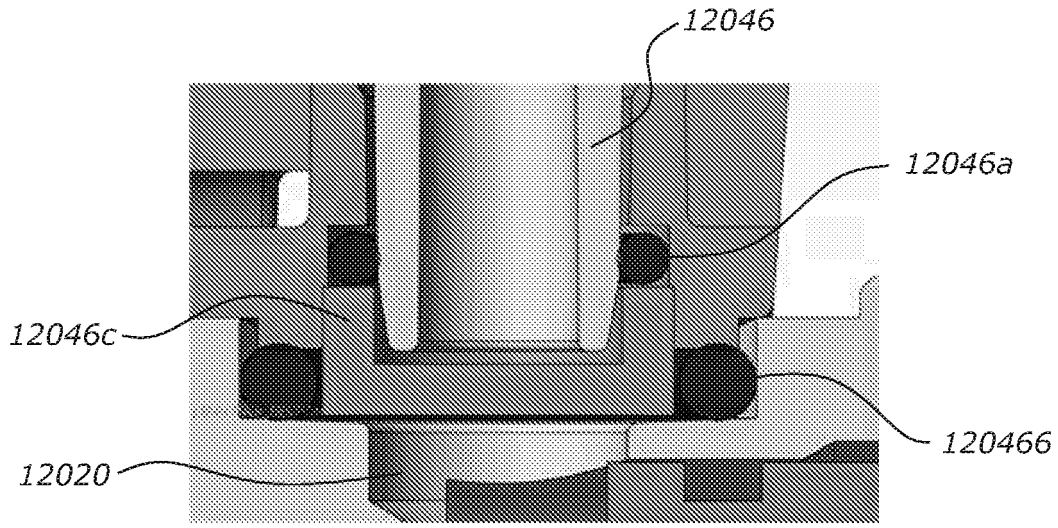


FIGURE 47

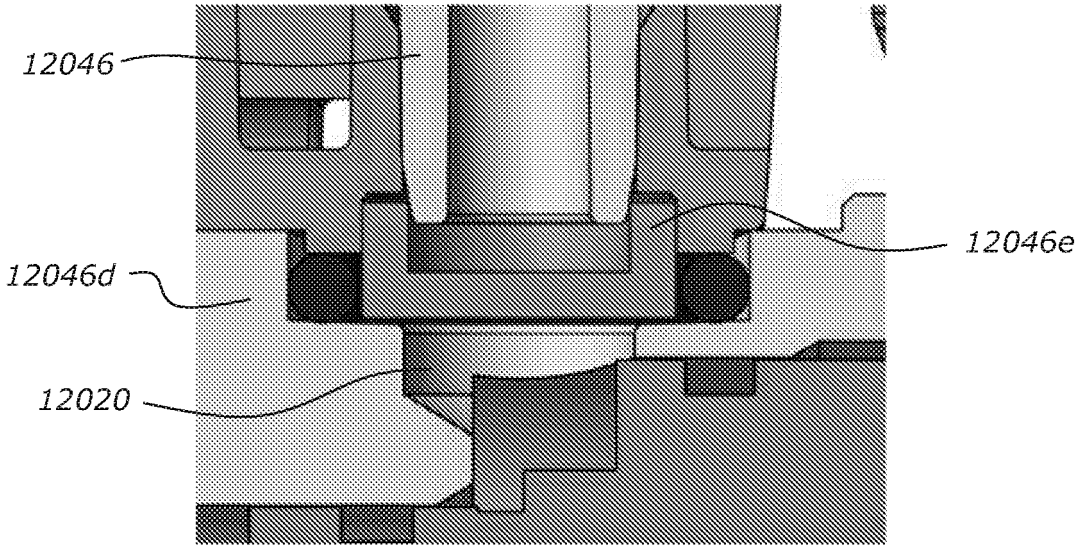


FIGURE 48

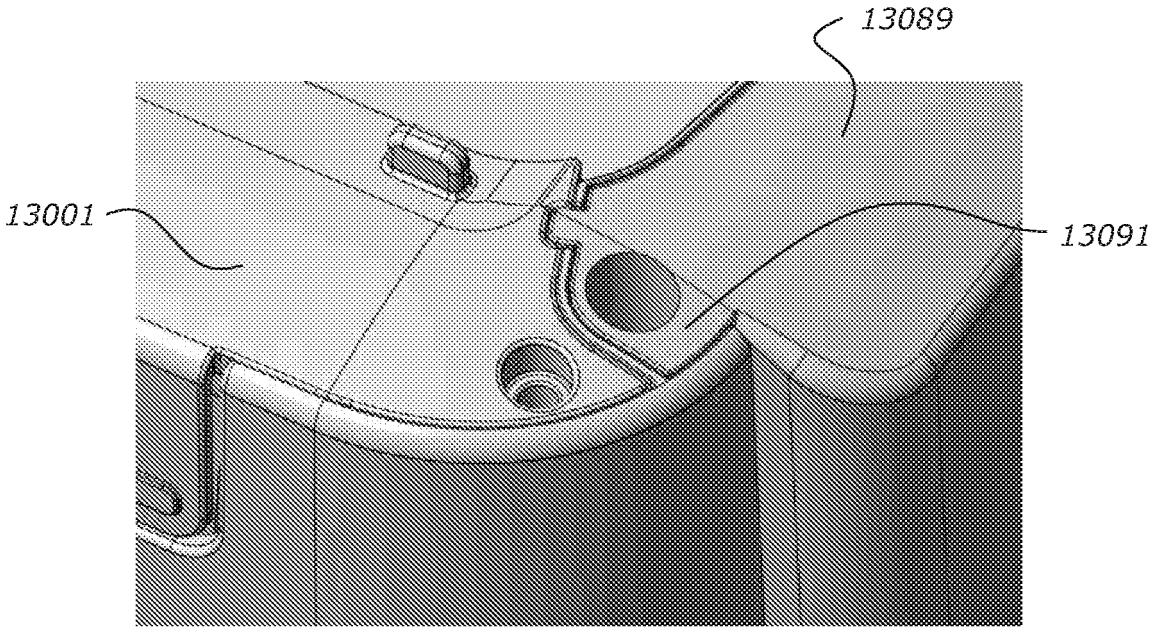


FIGURE 49

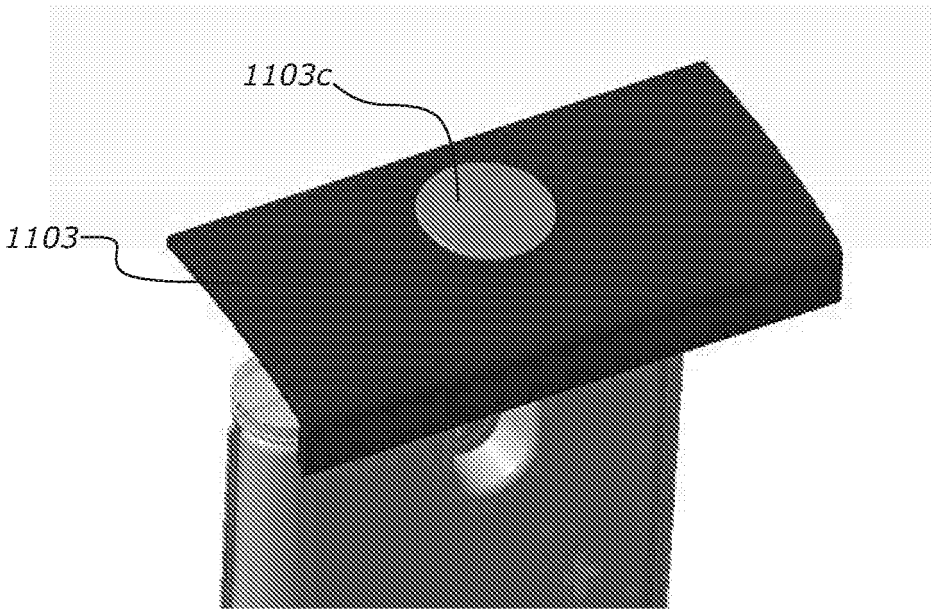


FIGURE 50

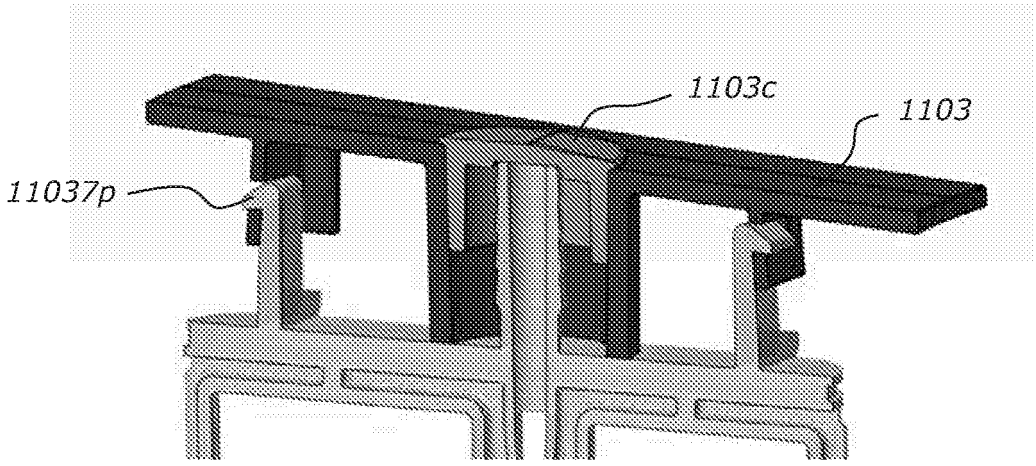


FIGURE 51

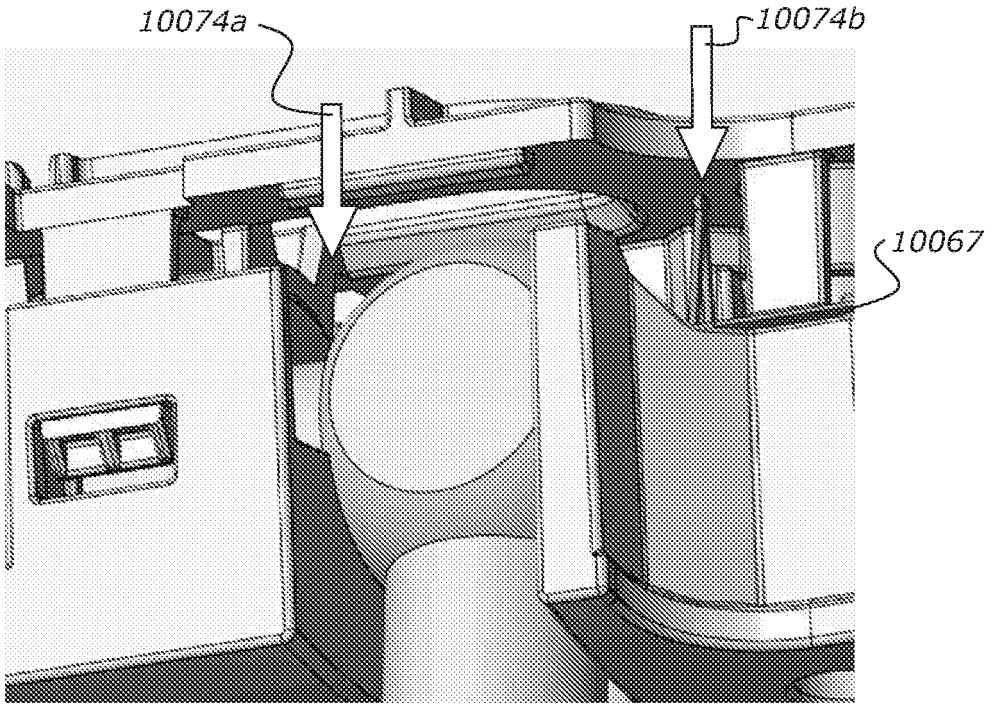


FIGURE 52

FIGURE 53

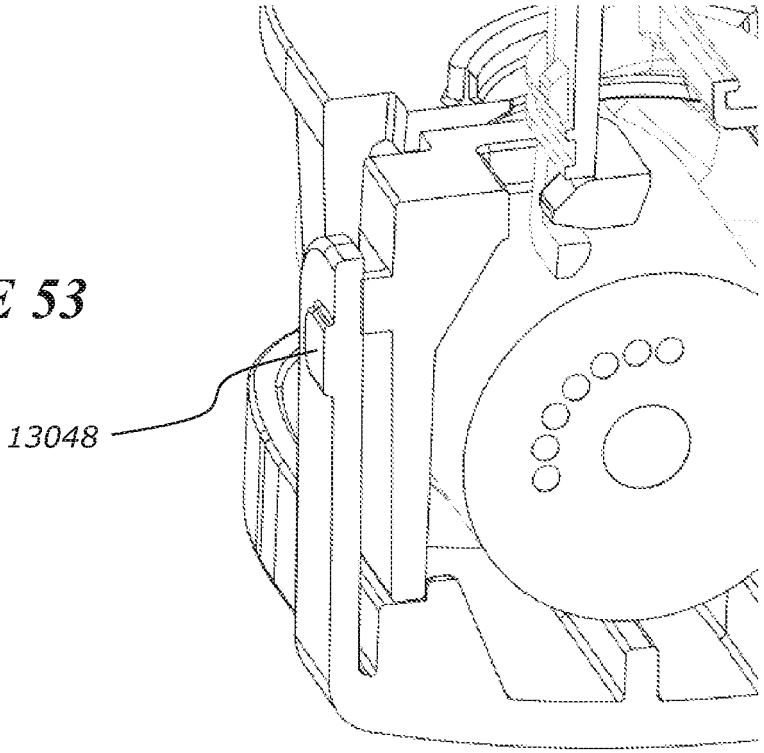
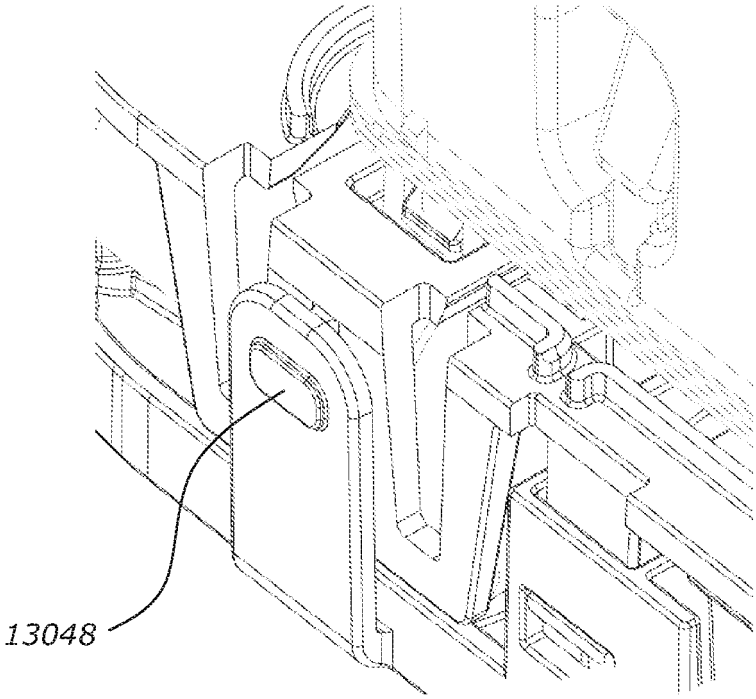


FIGURE 54



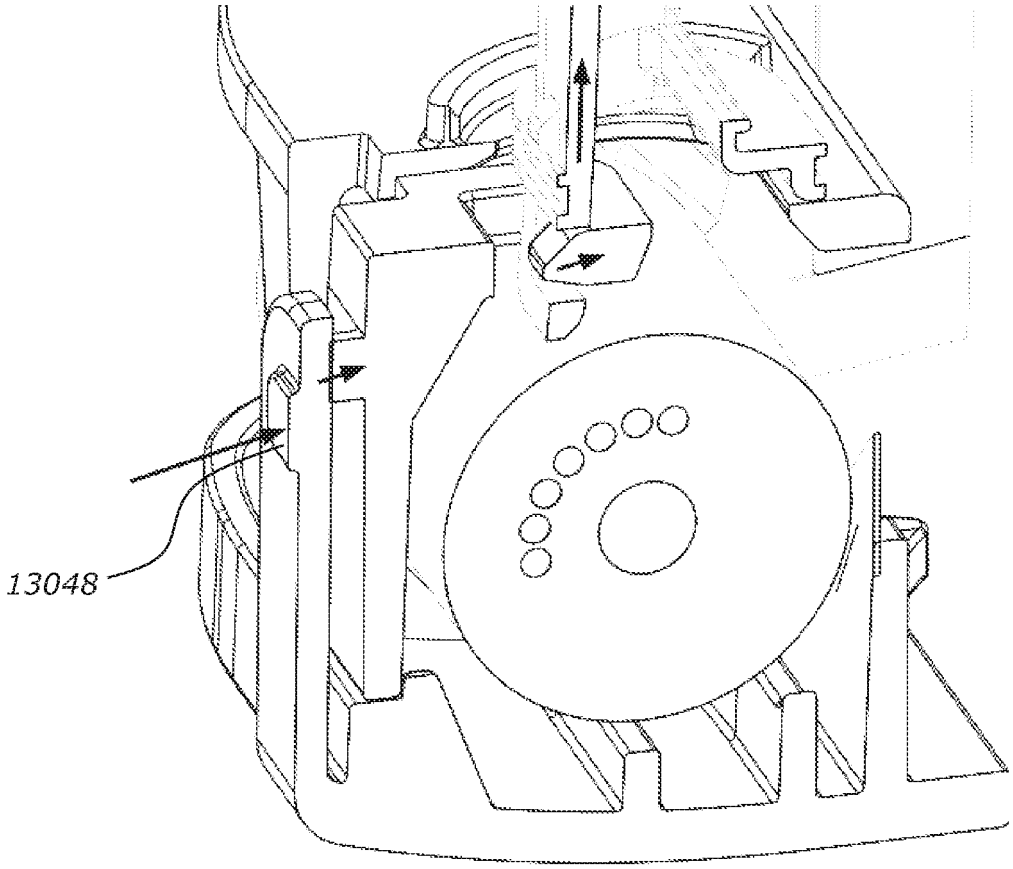


FIGURE 55

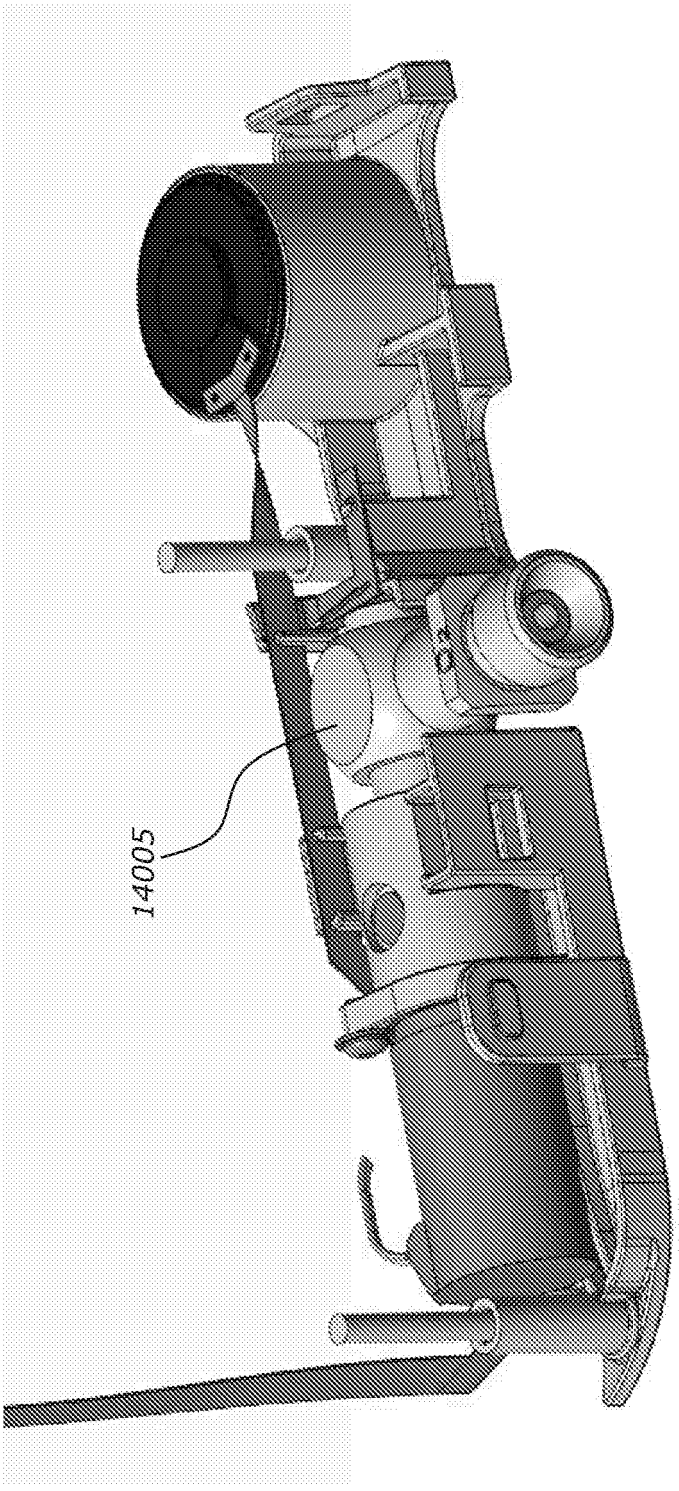


FIGURE 56

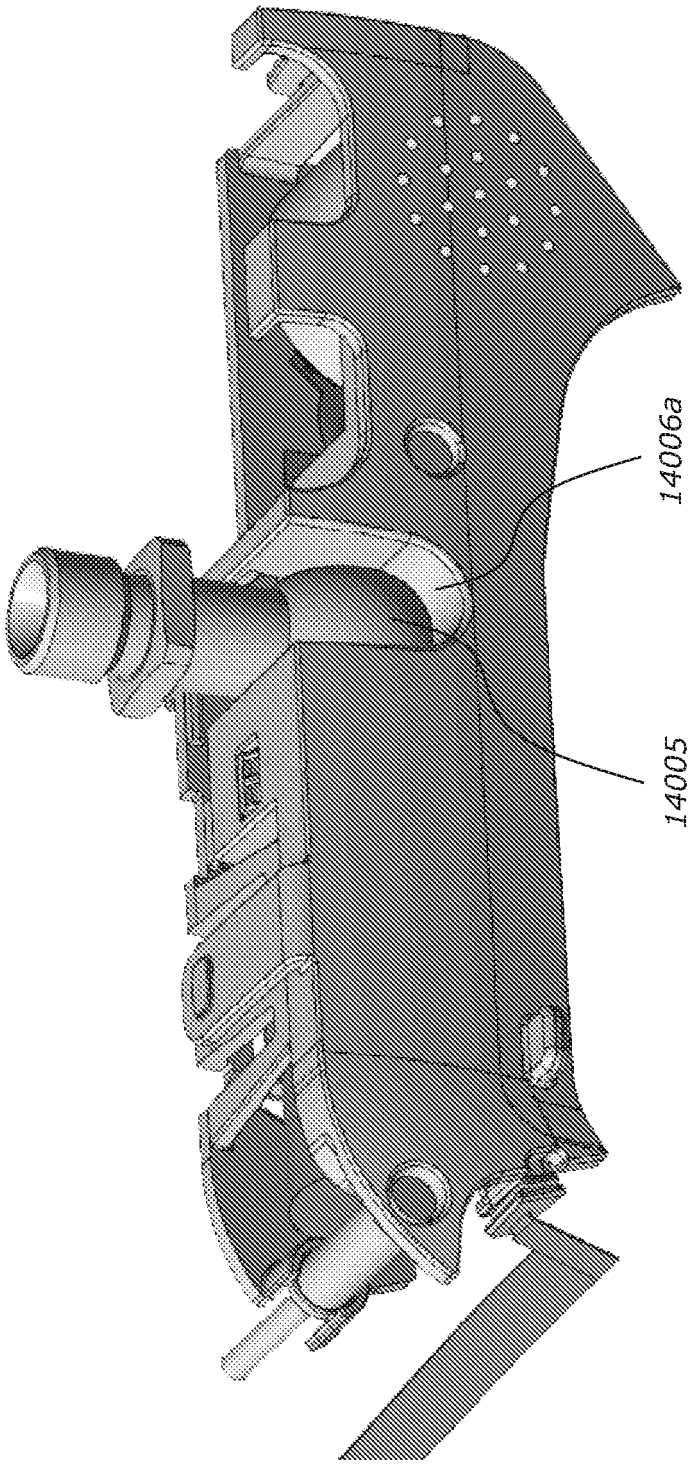


FIGURE 57

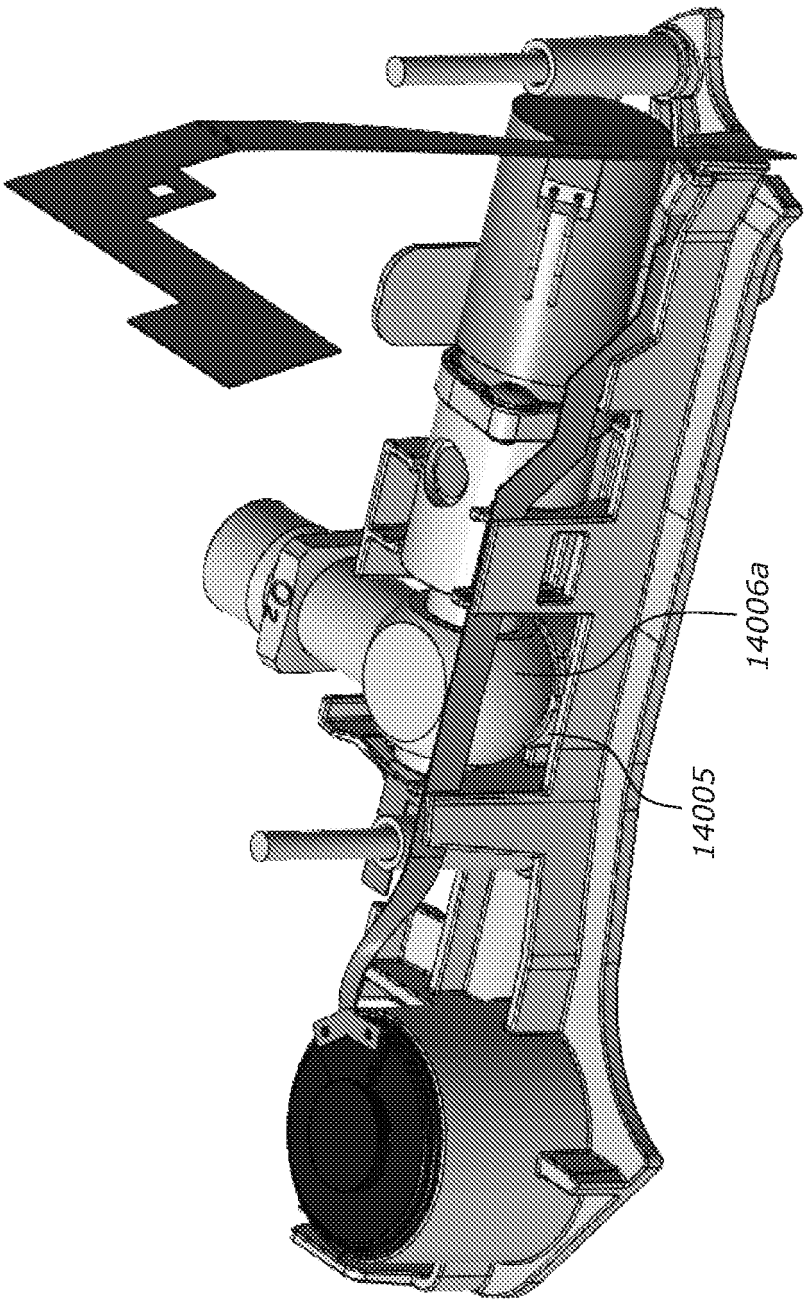


FIGURE 58