FIG. 1

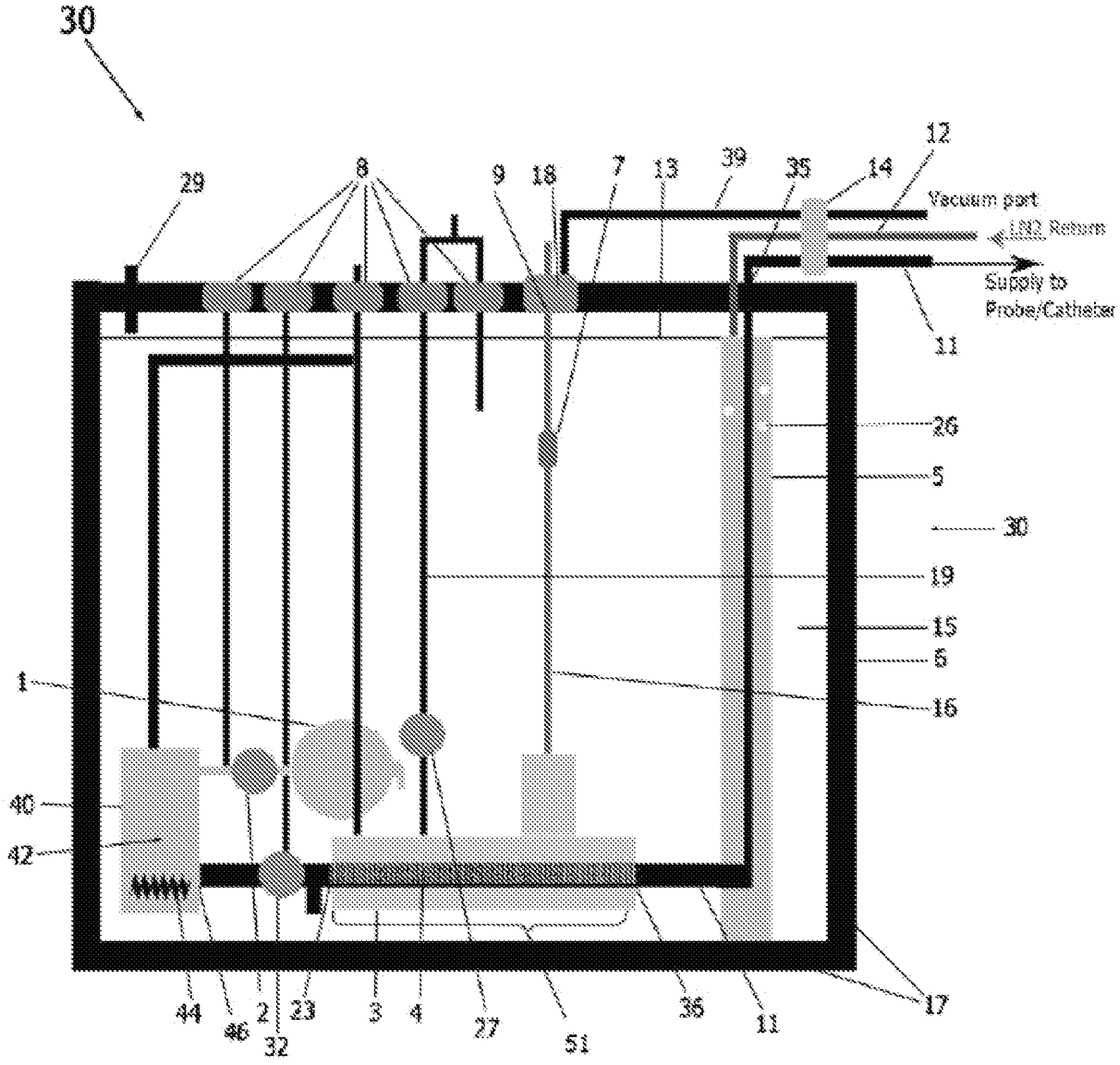

30
29
8
9
18
7
13
39
35
14
12
Vacuum port
LN2 Return
Supply to
Probe/Catheter
11
26
5
30
19
15
6
16
1
40
42
44
46
2
32
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3
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51
36
11
17

FIG. 2

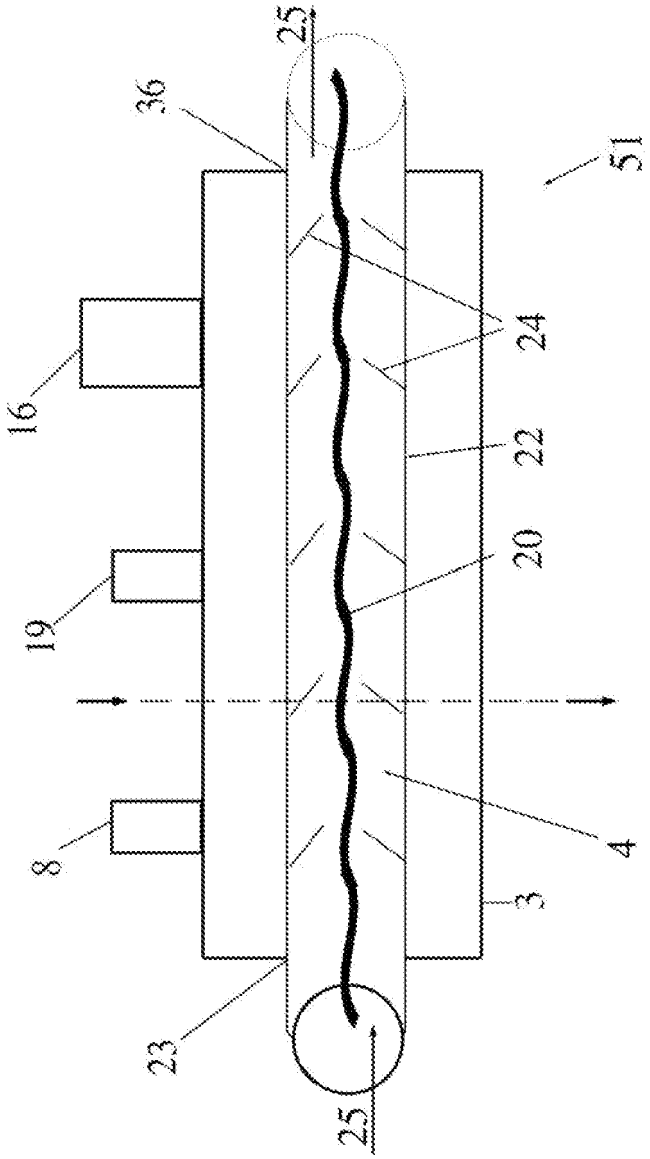


FIG. 3

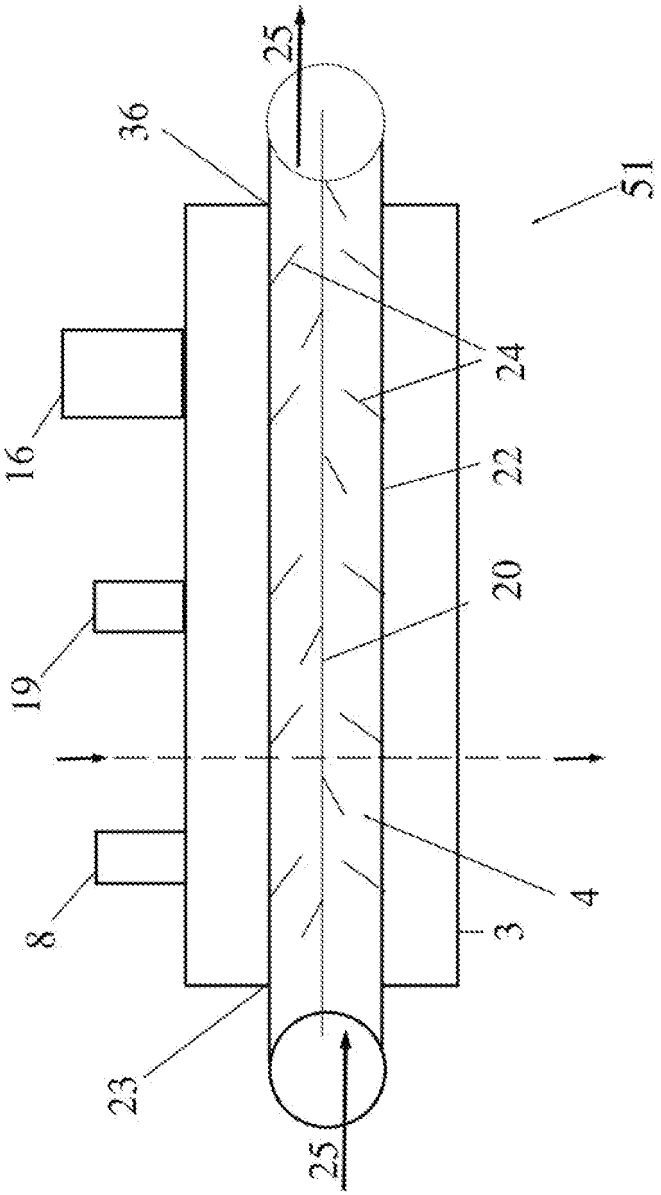


FIG. 4

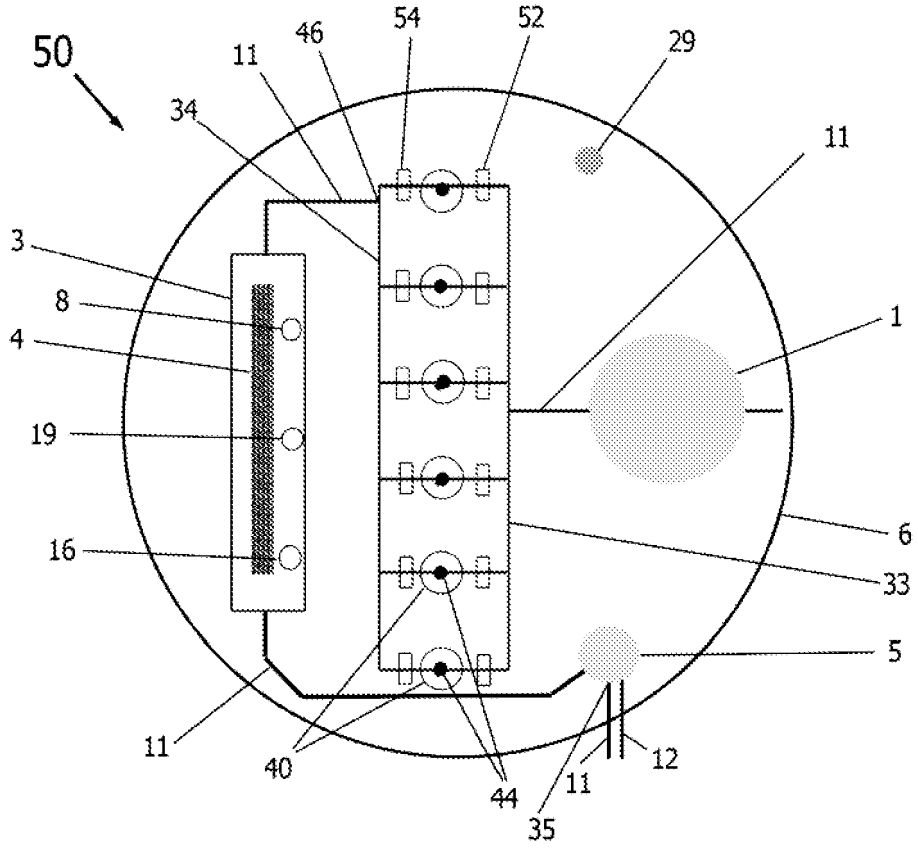


FIG. 5

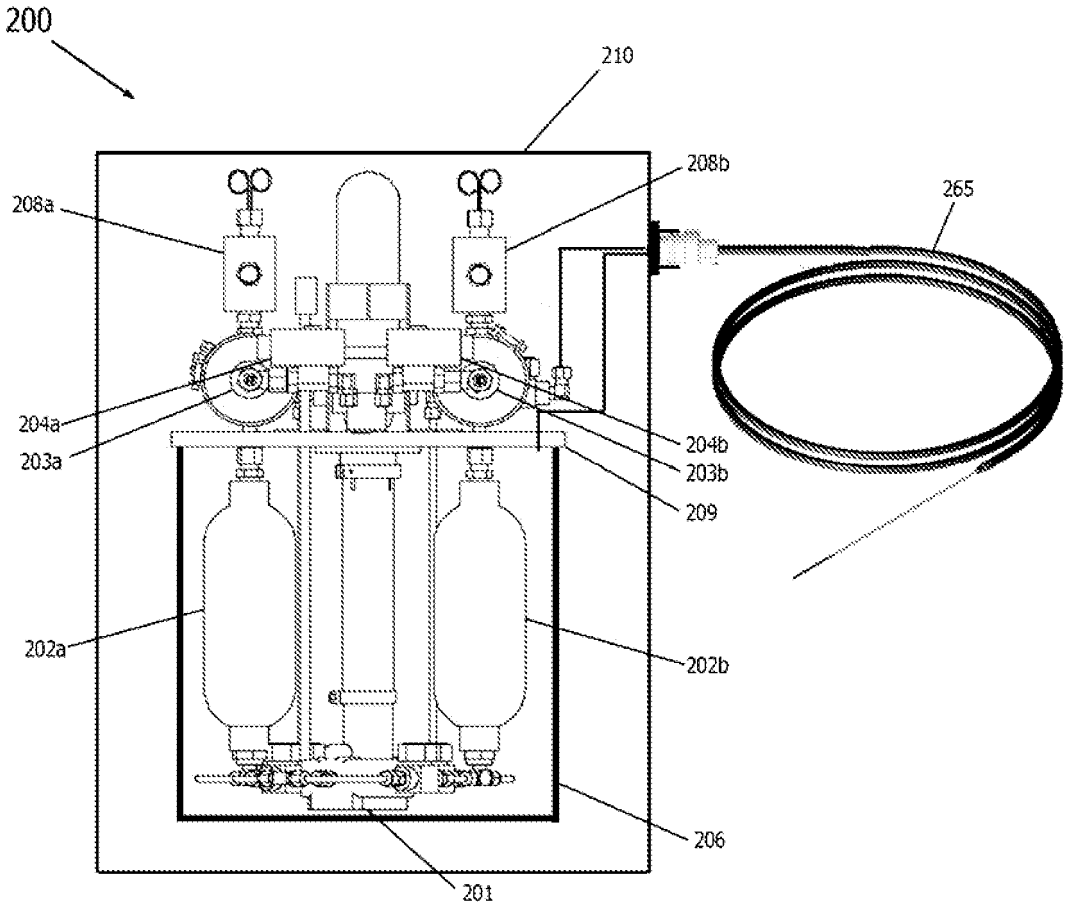

200
210
208b
265
208a
204a
203a
204b
203b
209
202a
202b
206
201

FIG. 6

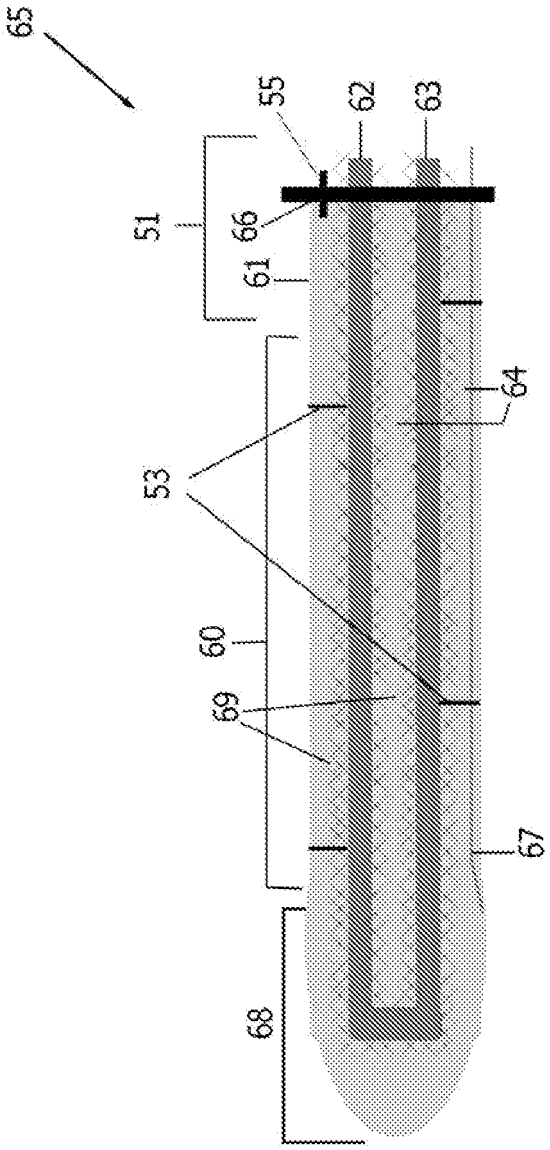


FIG. 7

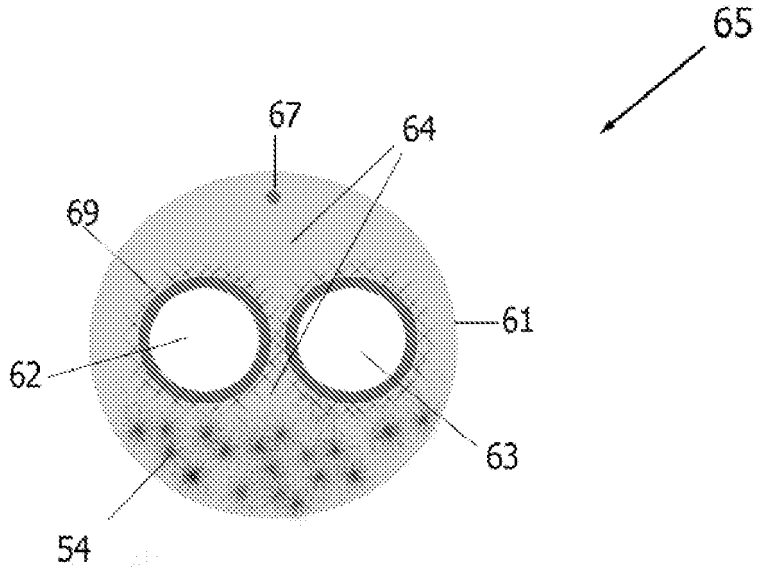


FIG. 8

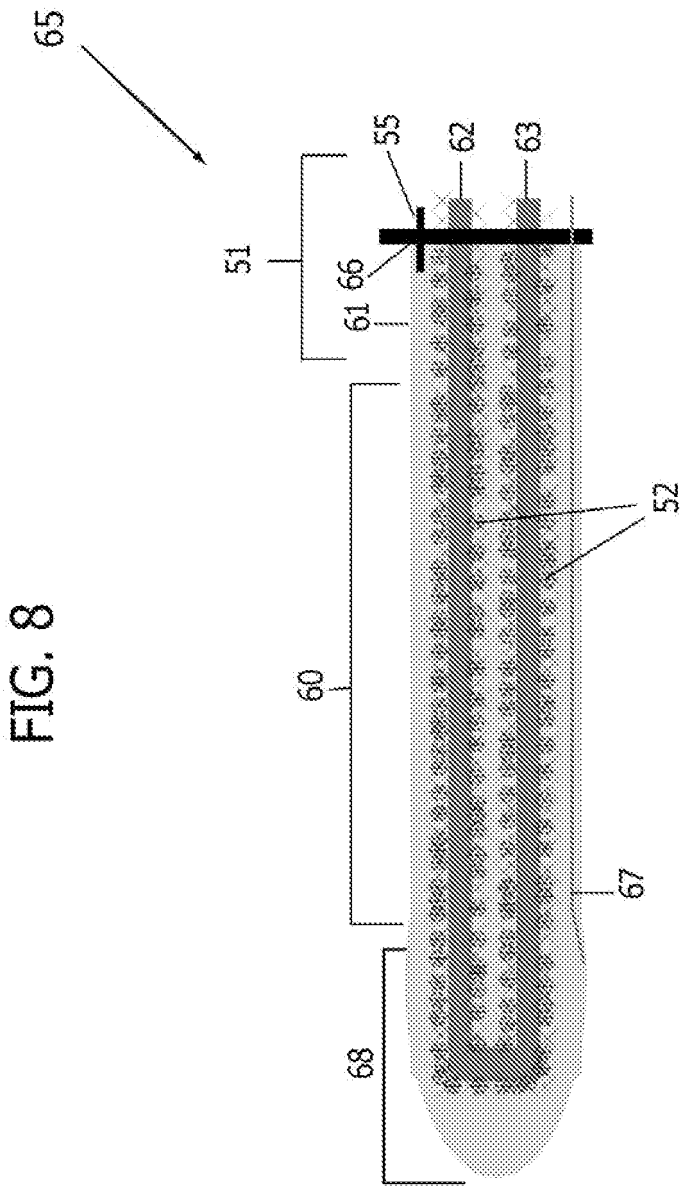
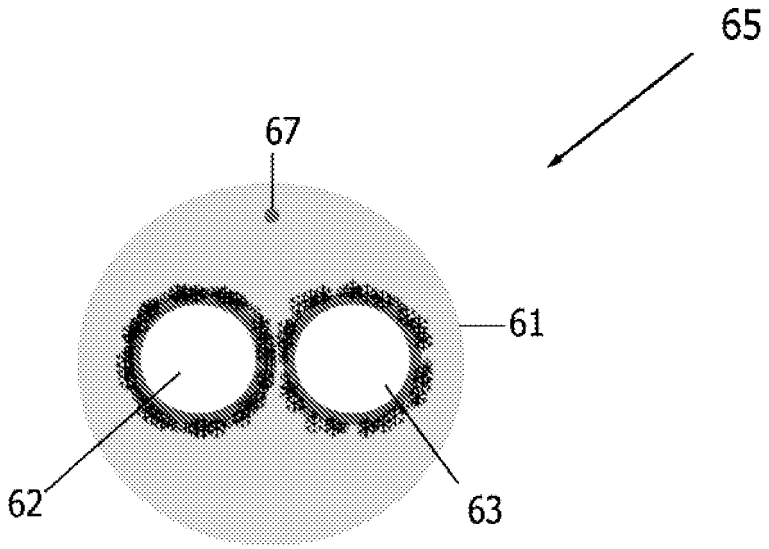


FIG. 9



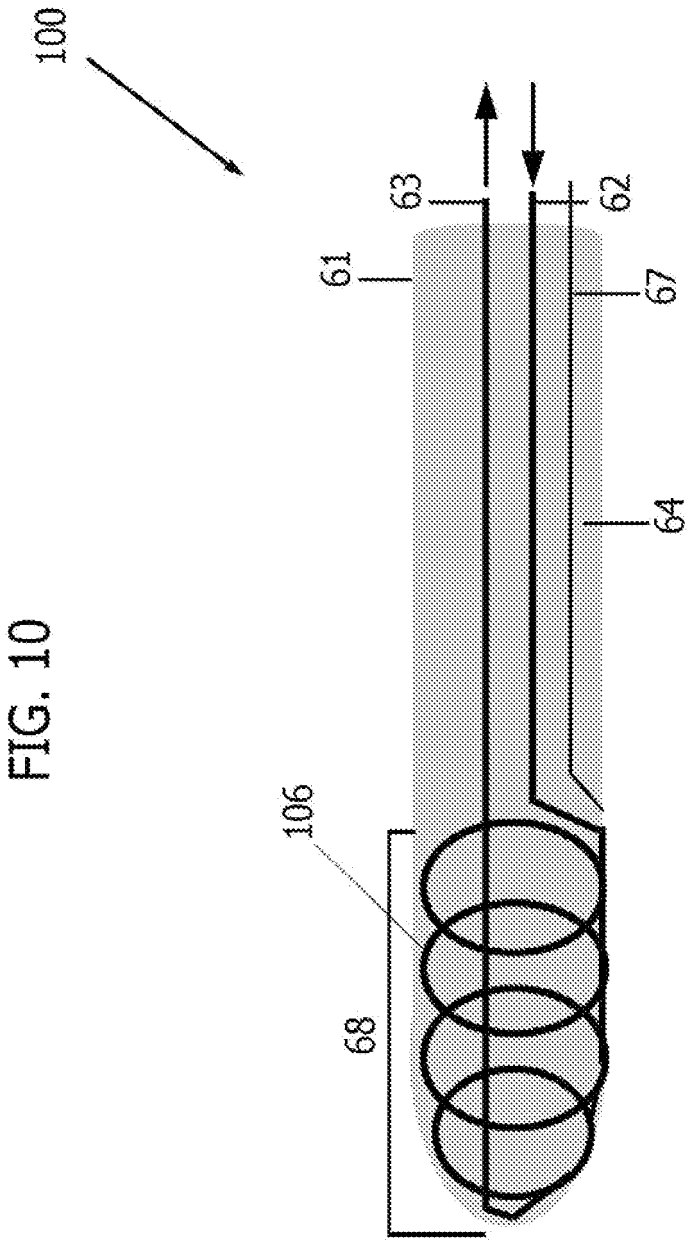
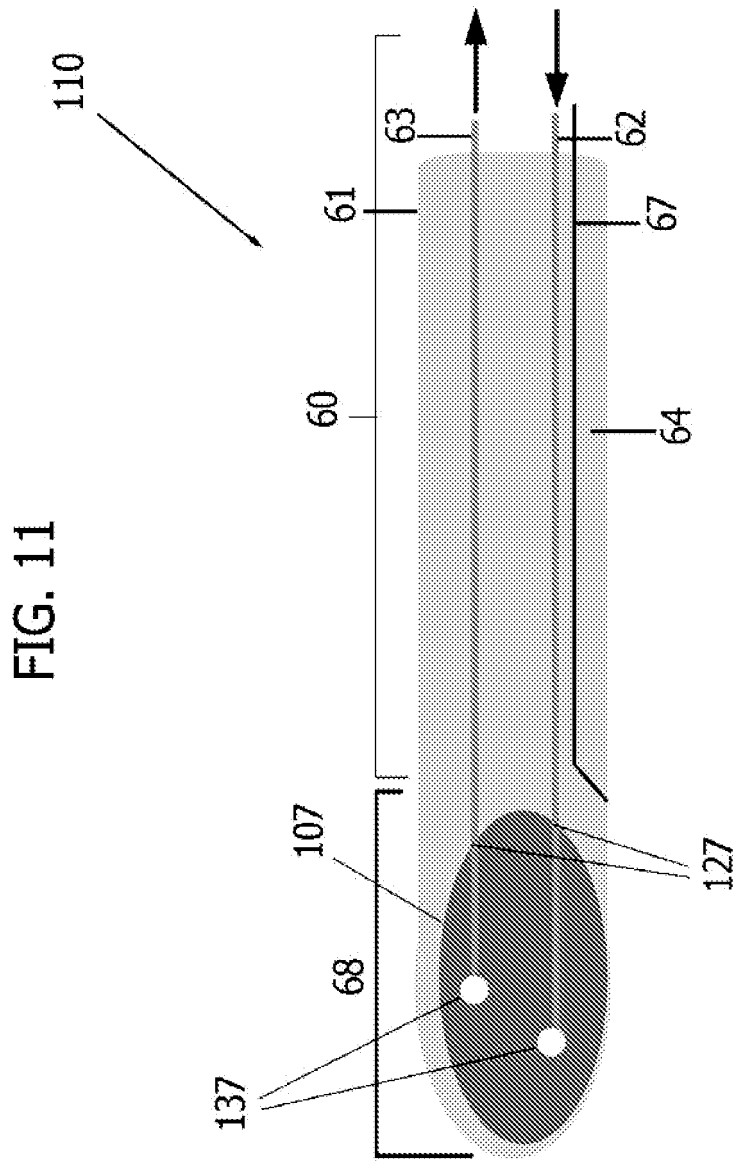


FIG. 10

FIG. 11



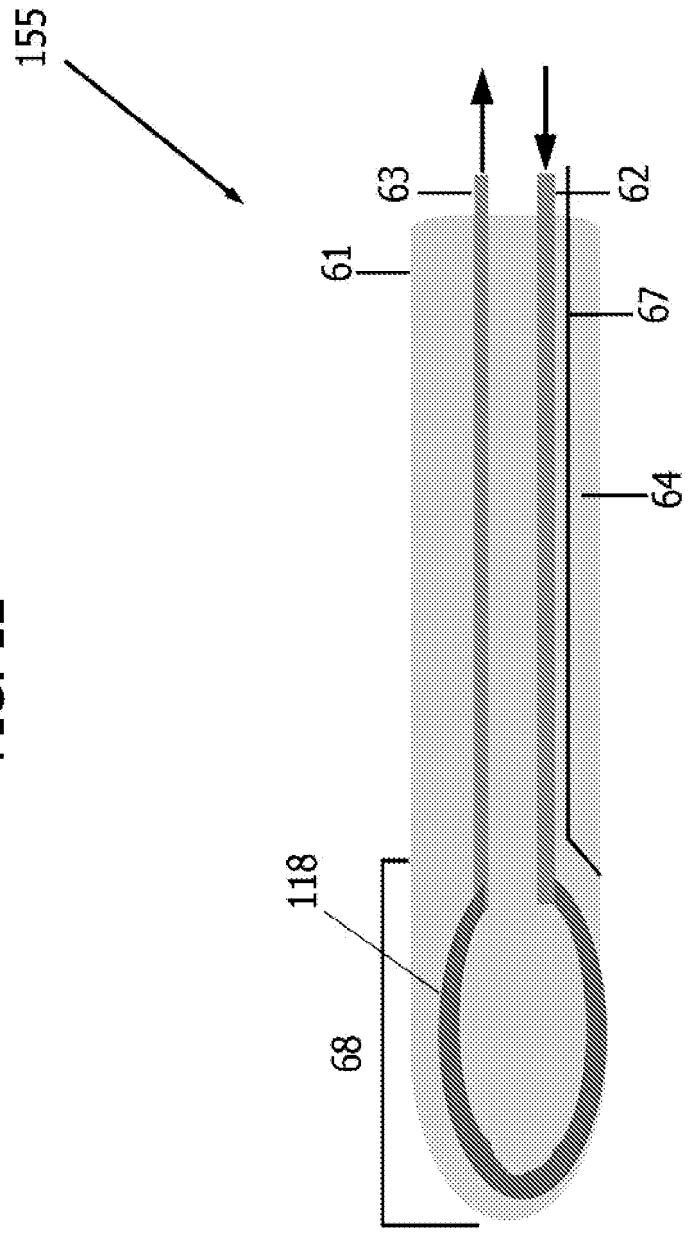


FIG. 12

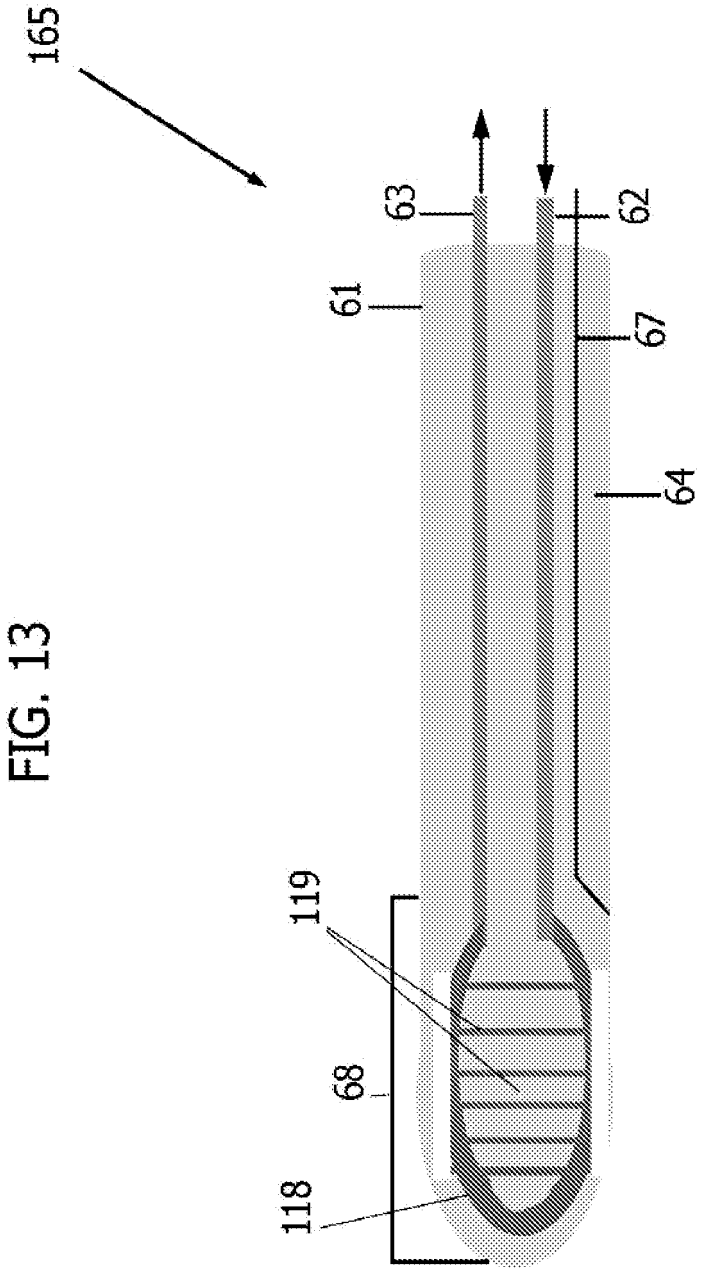


FIG. 13

FIG. 14

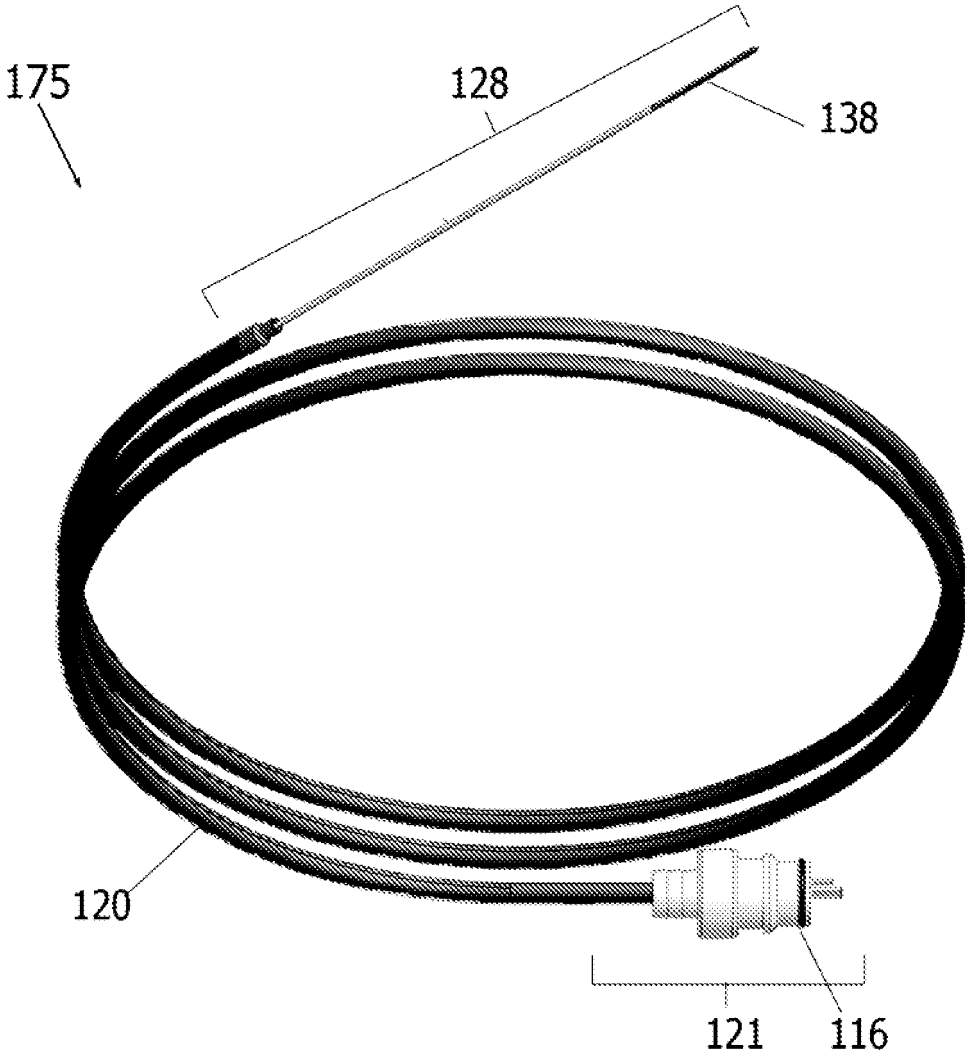


FIG. 15

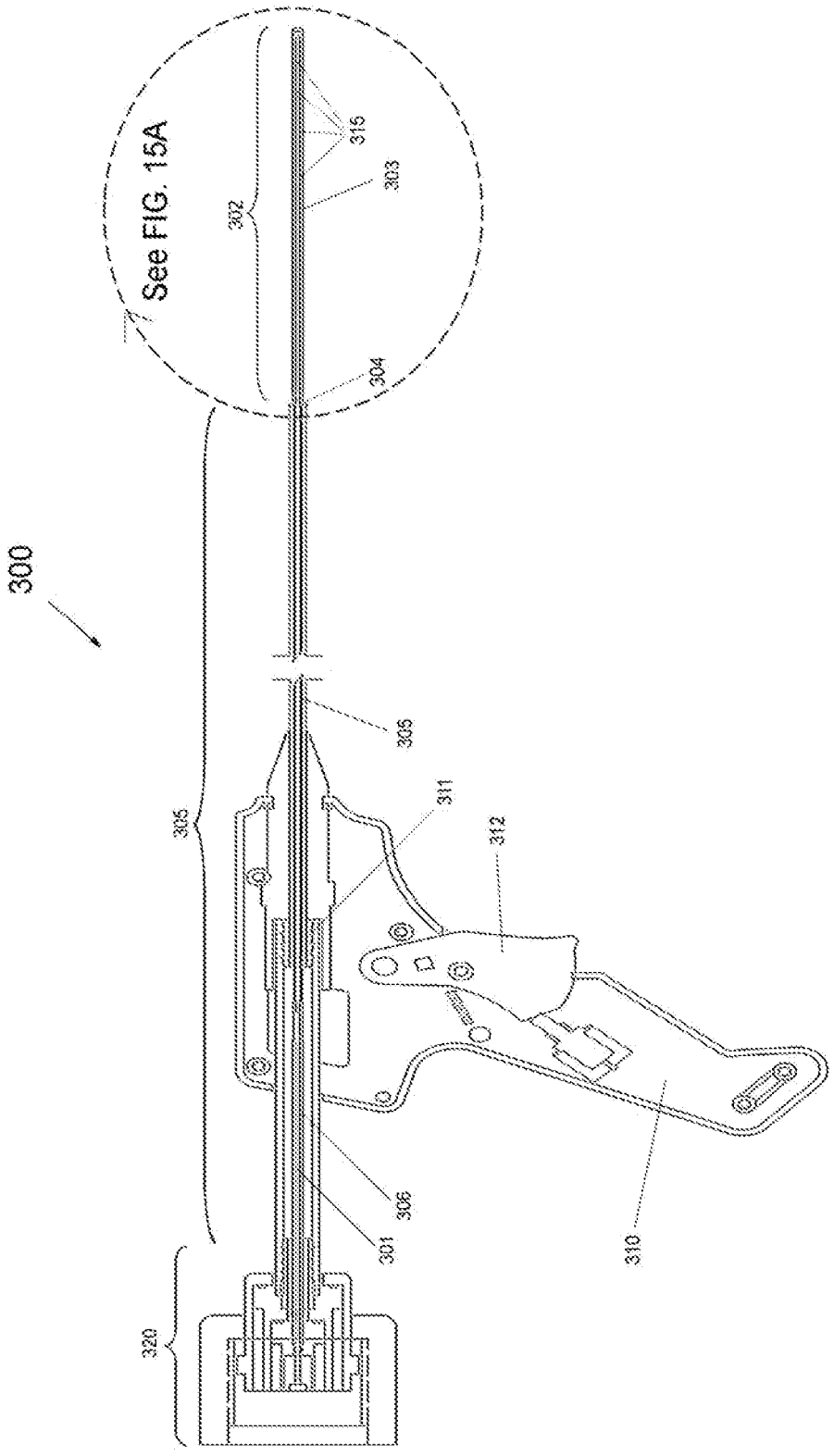


FIG. 15A

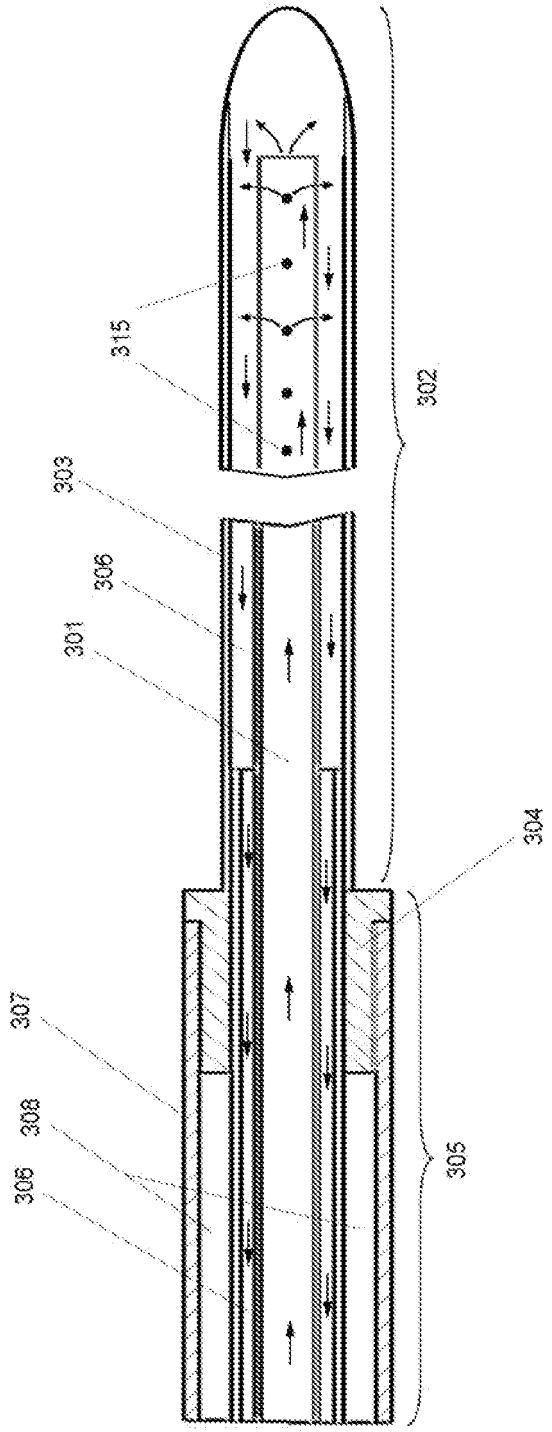


FIG. 16

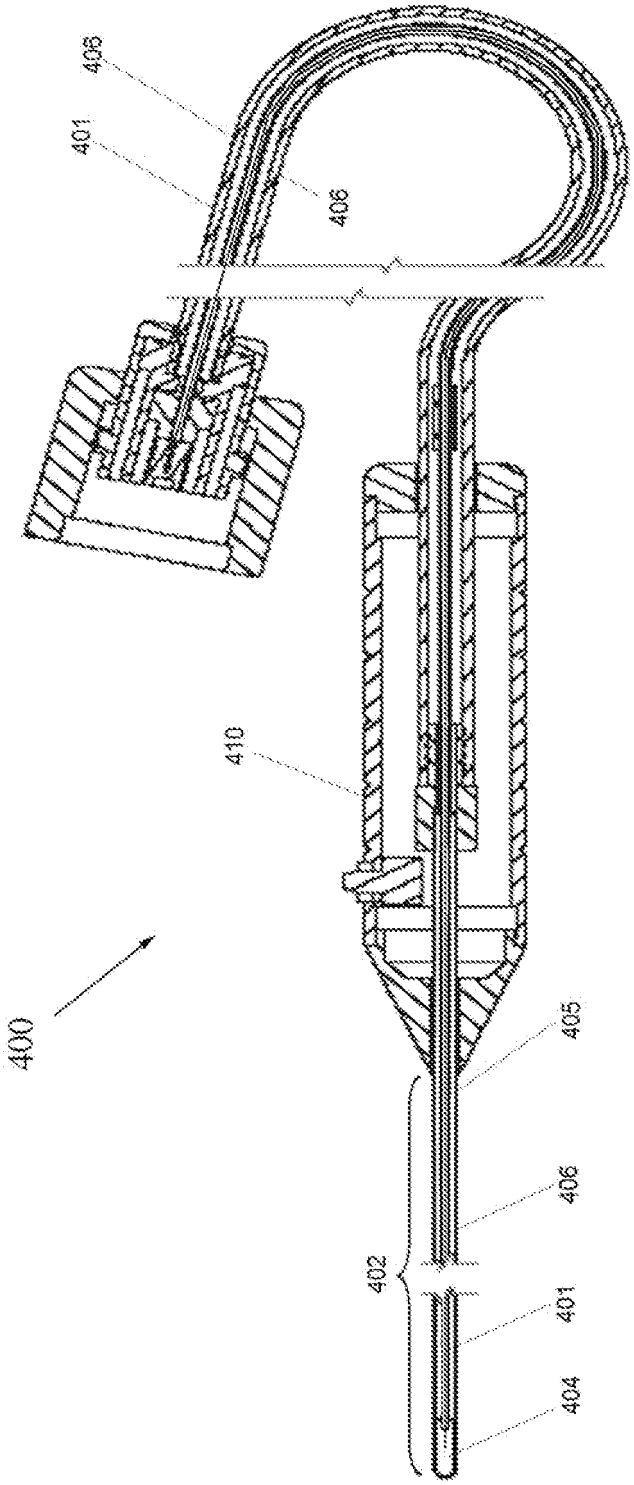


FIG. 17

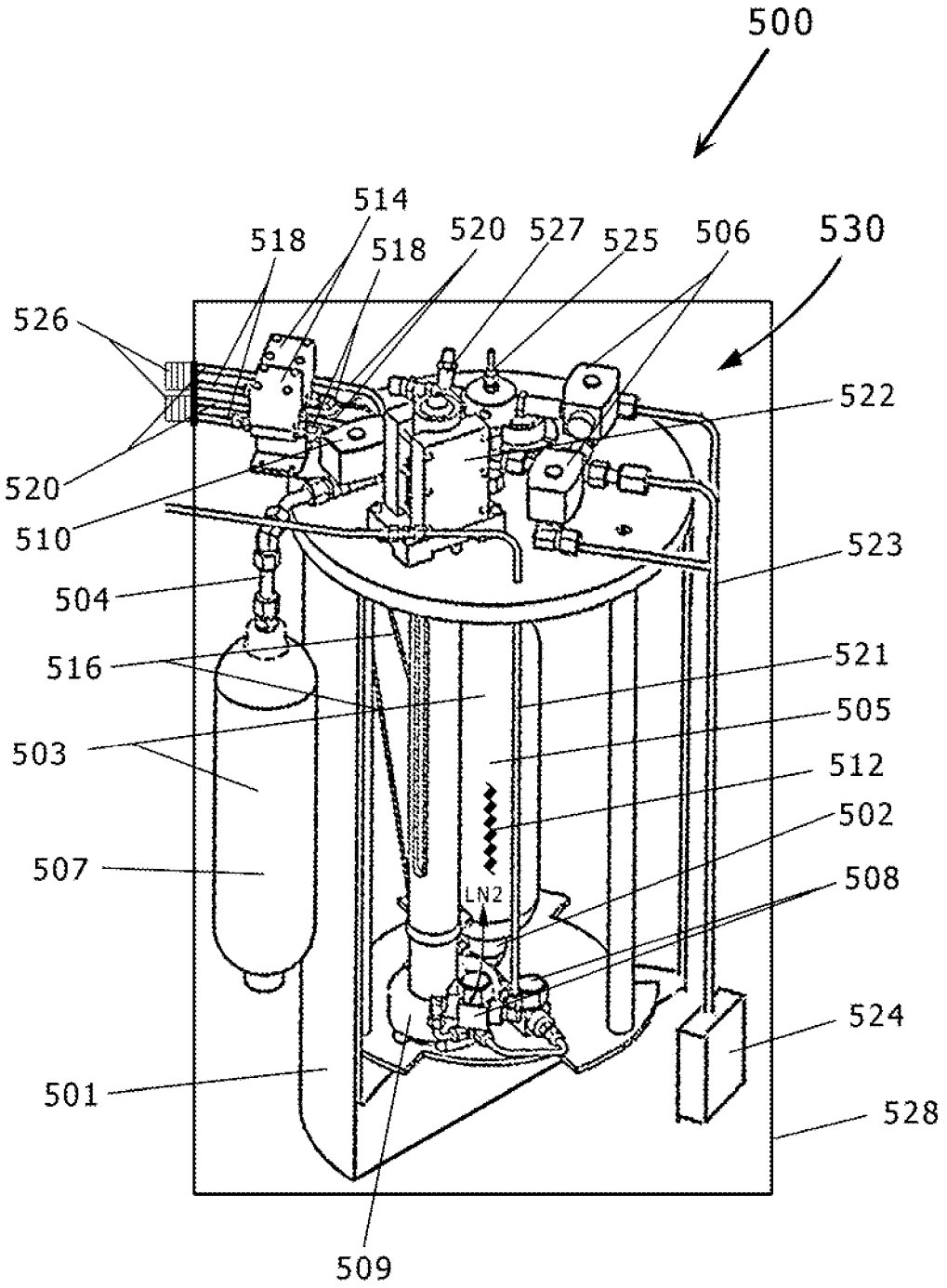
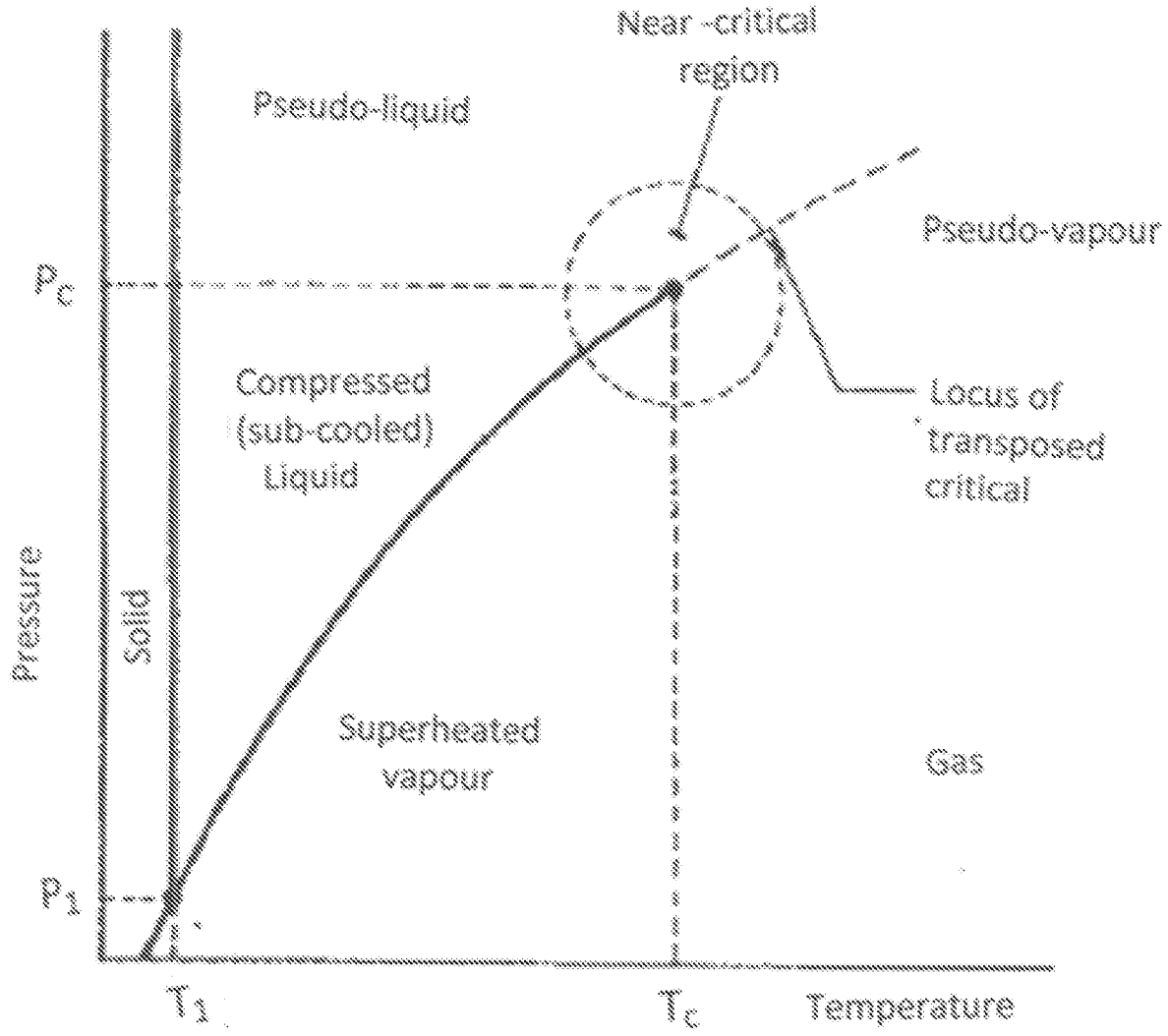

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LN2
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524
501
528
509

FIG. 18


Near -critical region
Pseudo-liquid
Pseudo-vapour
P_c
Compressed (sub-cooled) Liquid
Locus of transposed critical
Pressure
Solid
Superheated vapour
Gas
P_1
T_1
T_c
Temperature