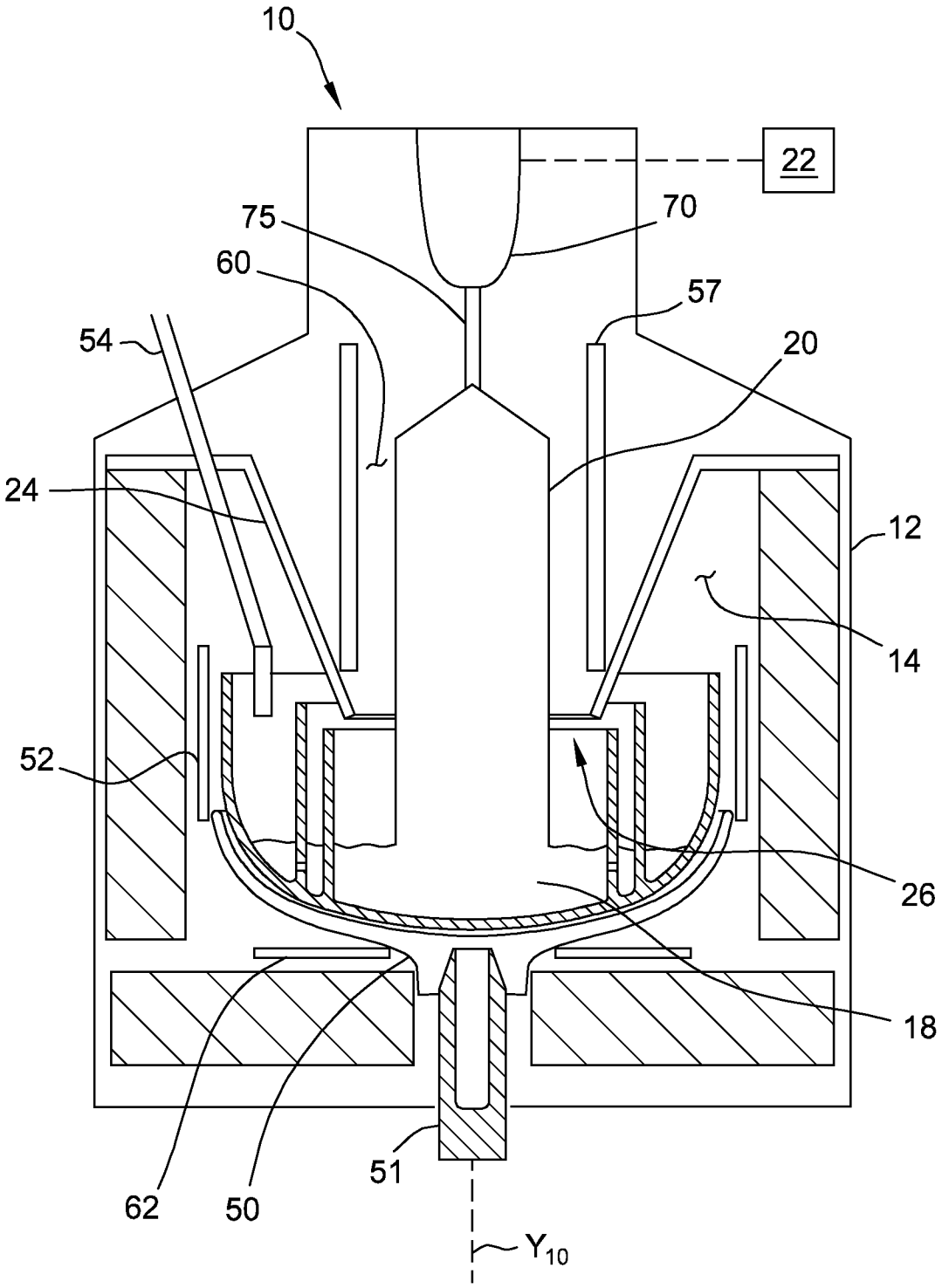


FIG. 1

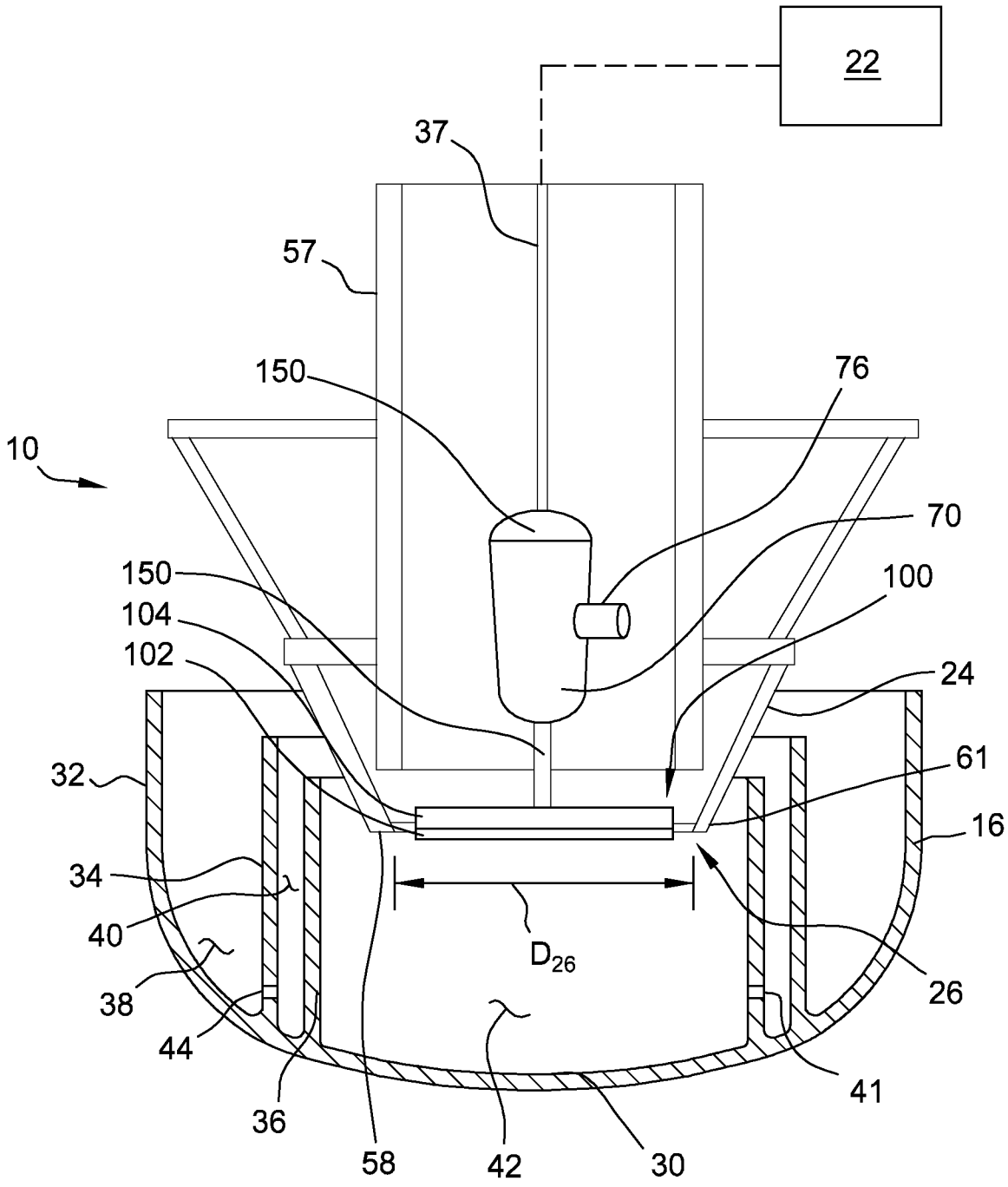

22
37
57
150
76
10
70
150
100
104
102
24
32
61
16
34
40
D_{26}
26
38
44
41
36
58
42
30

FIG. 2

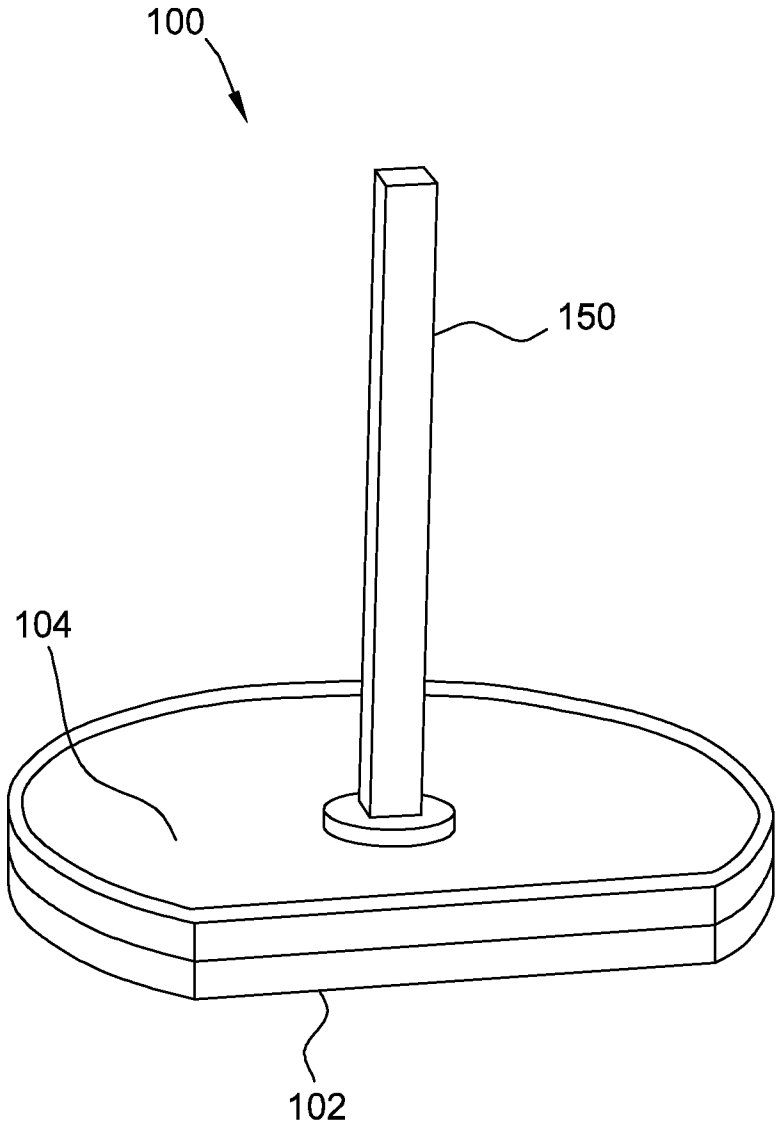


FIG. 3

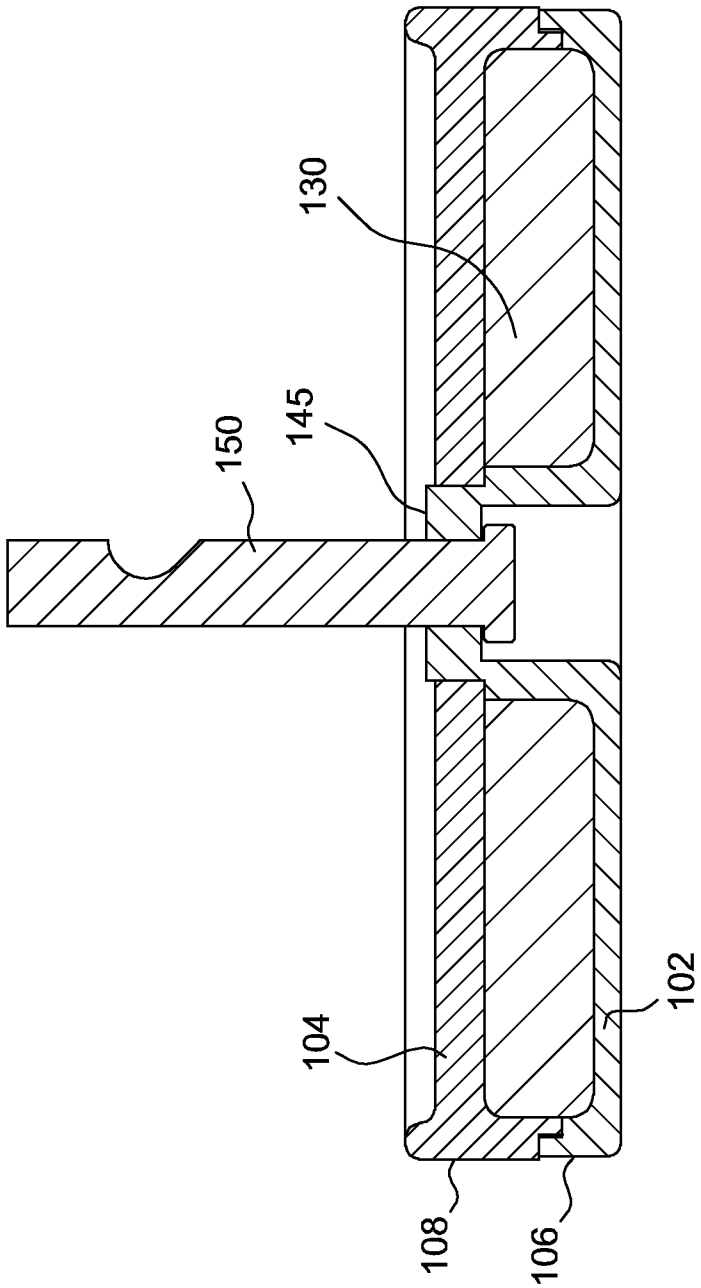


FIG. 4

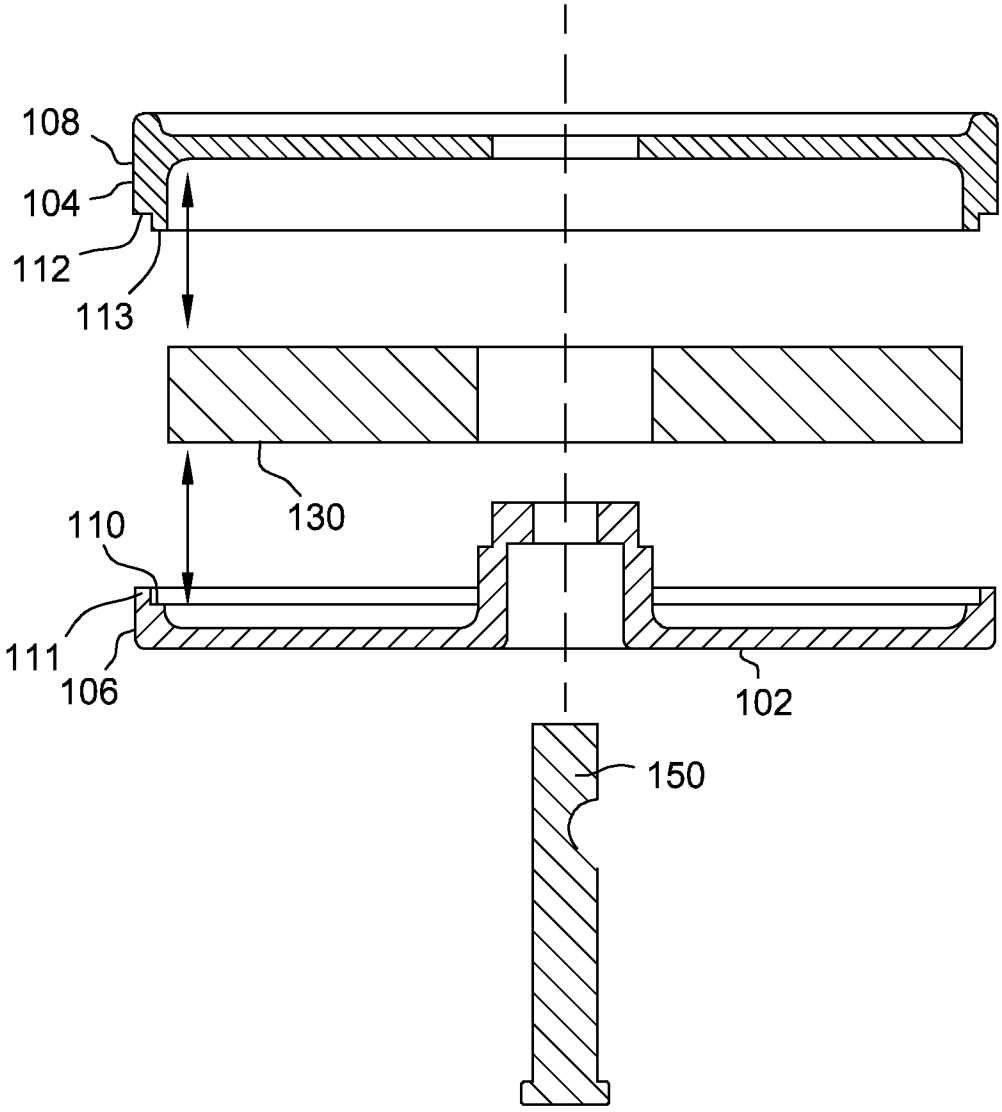


FIG. 5

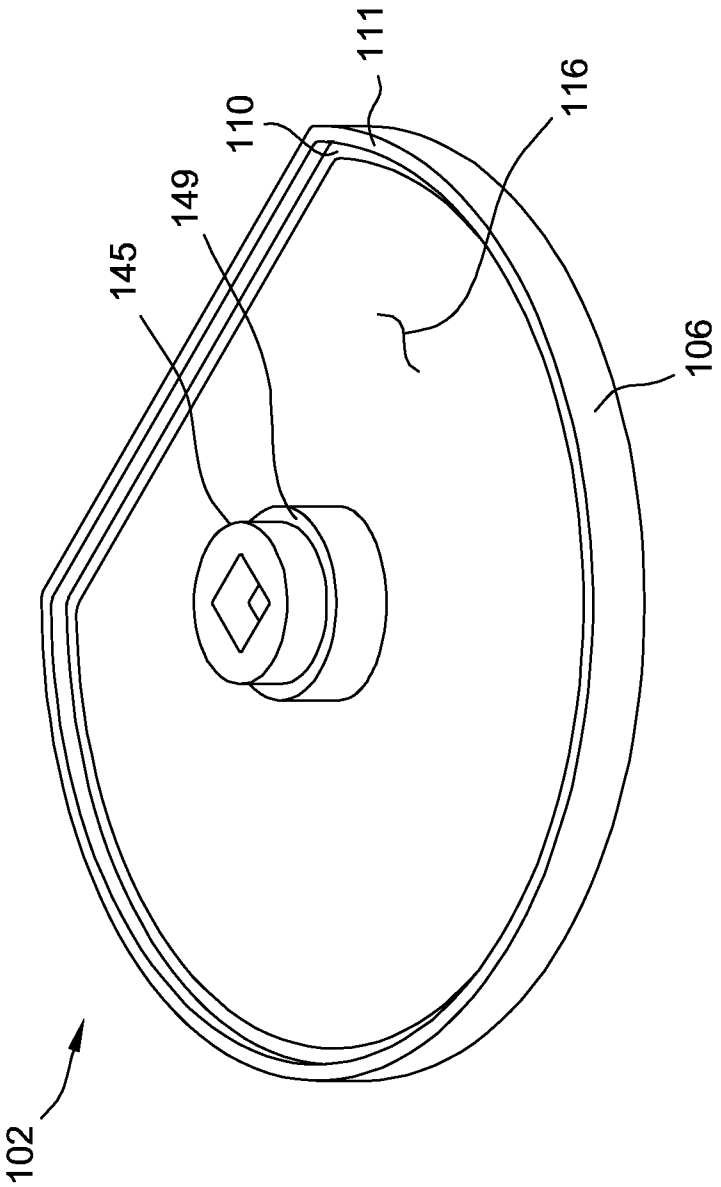


FIG. 6

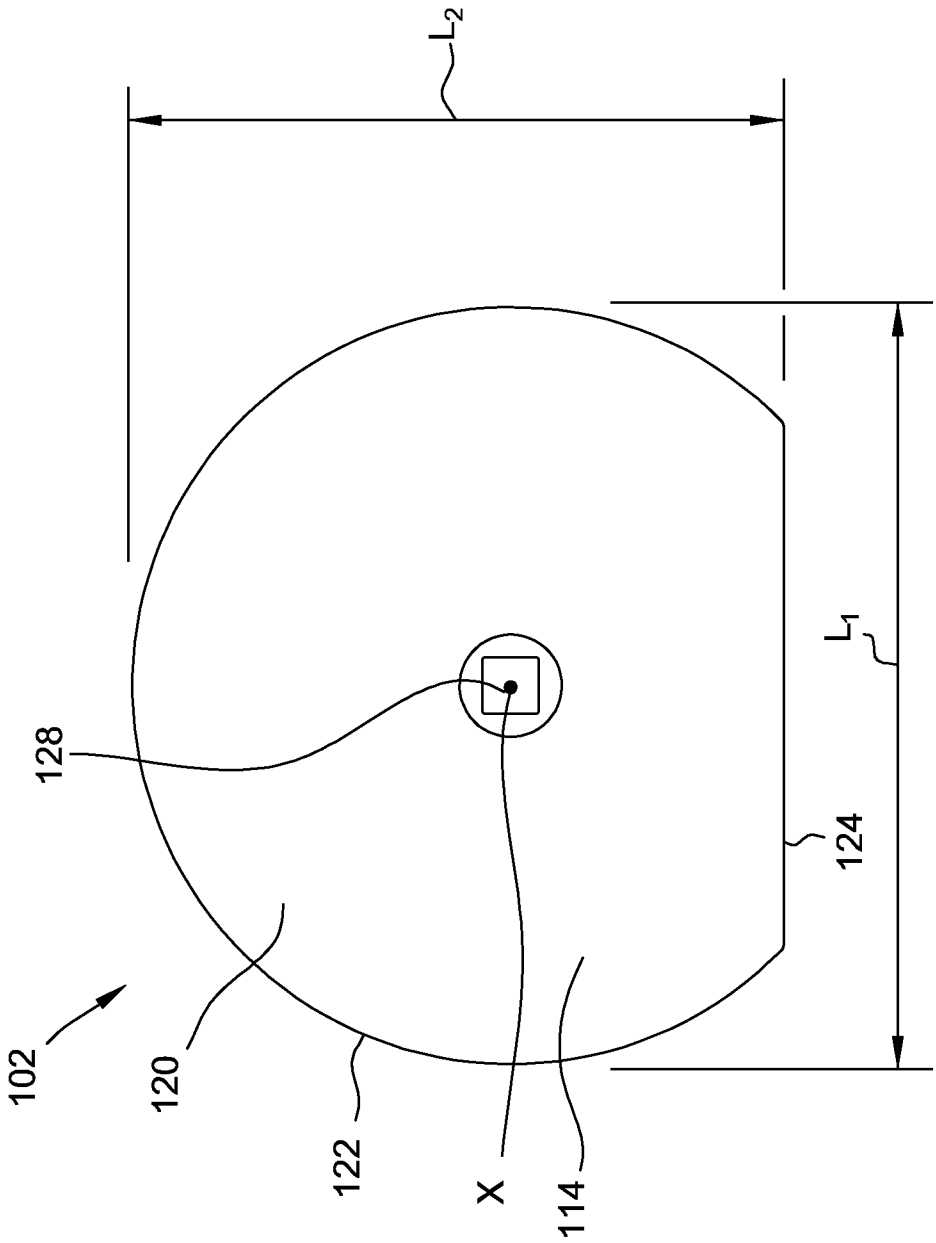


FIG. 7

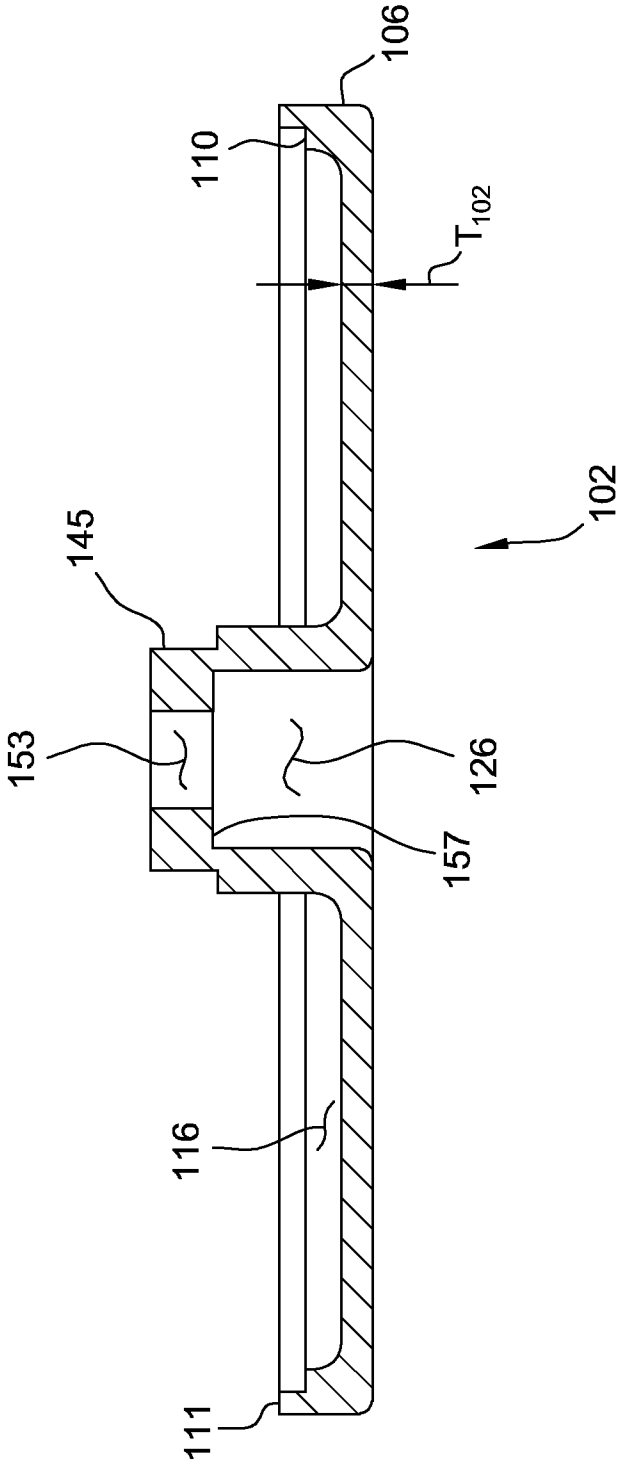


FIG. 8

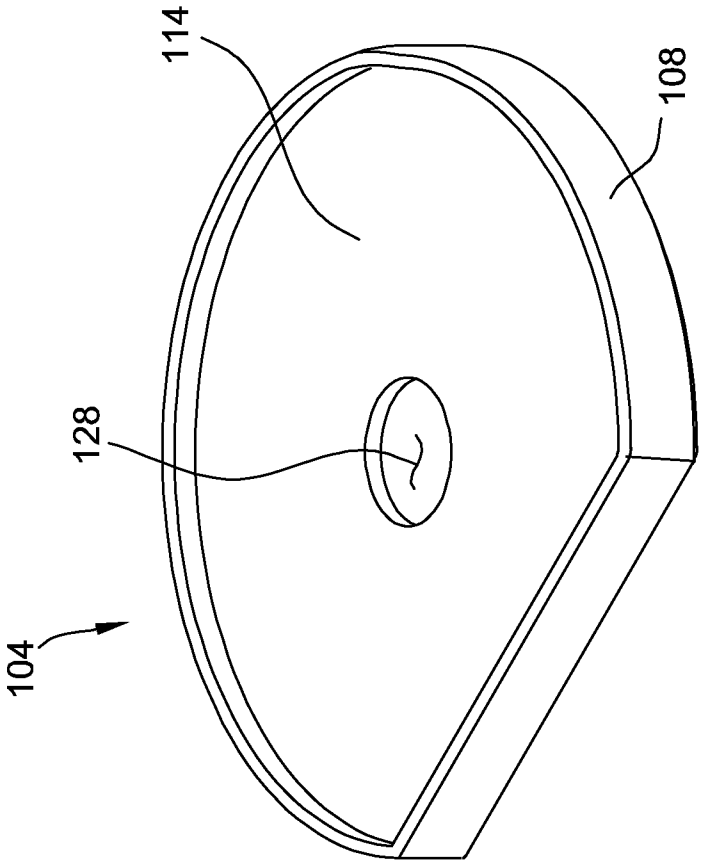


FIG. 9

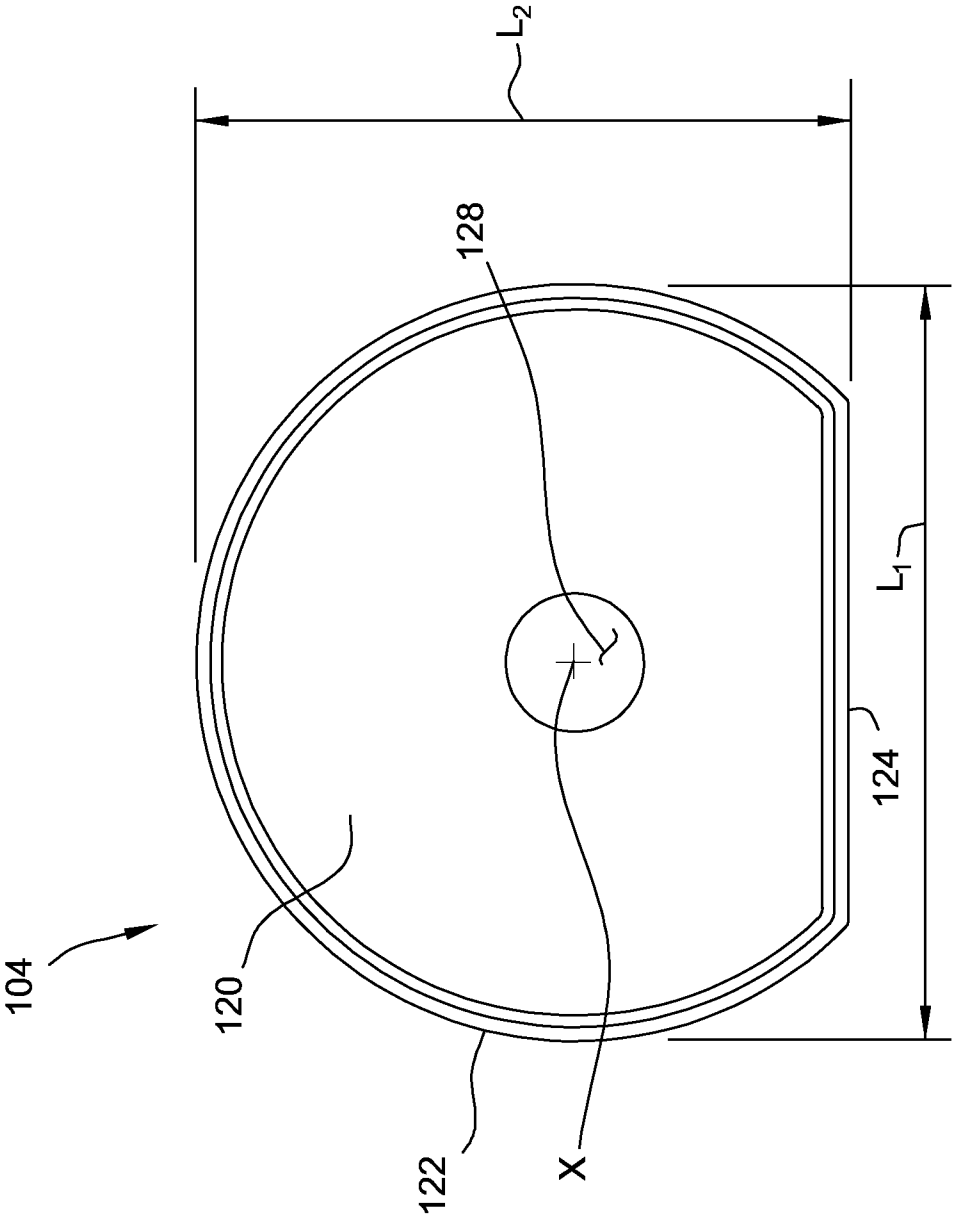


FIG. 10

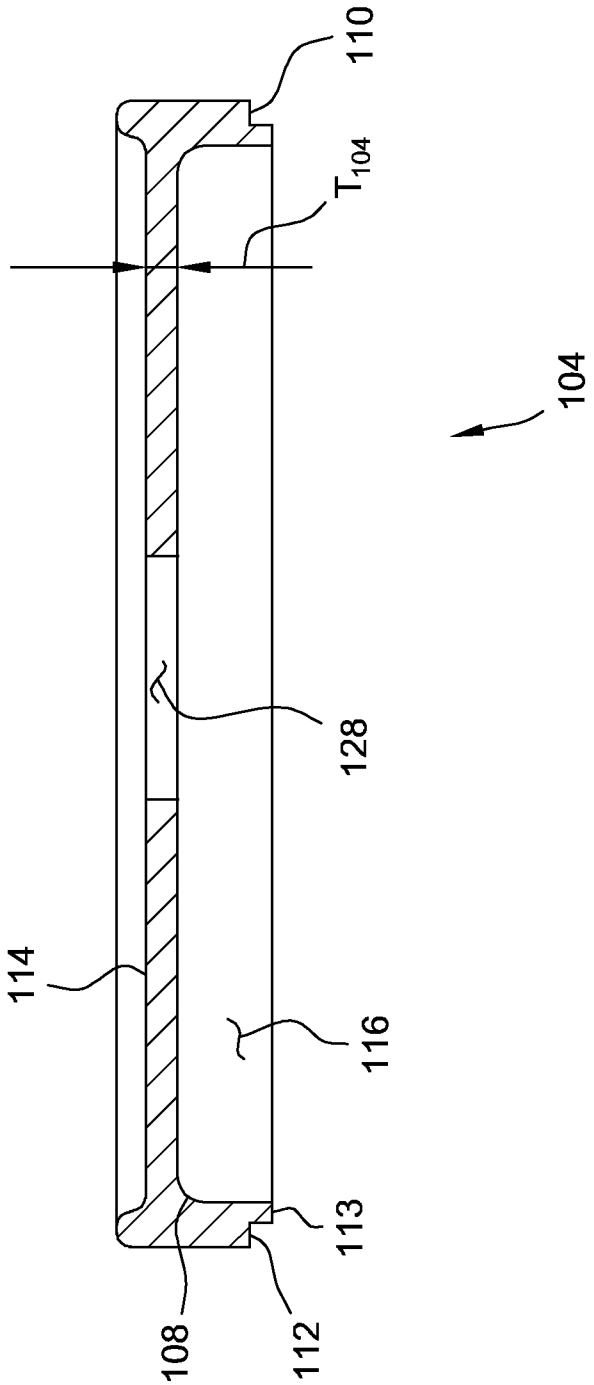


FIG. 11

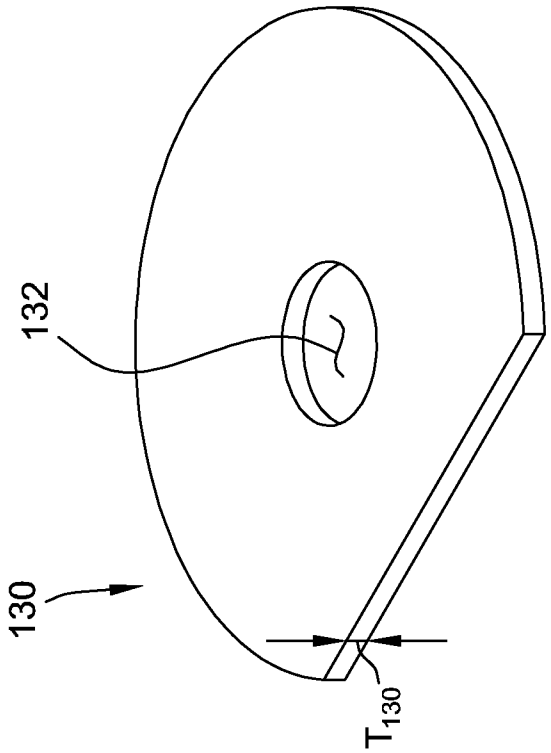


FIG. 12

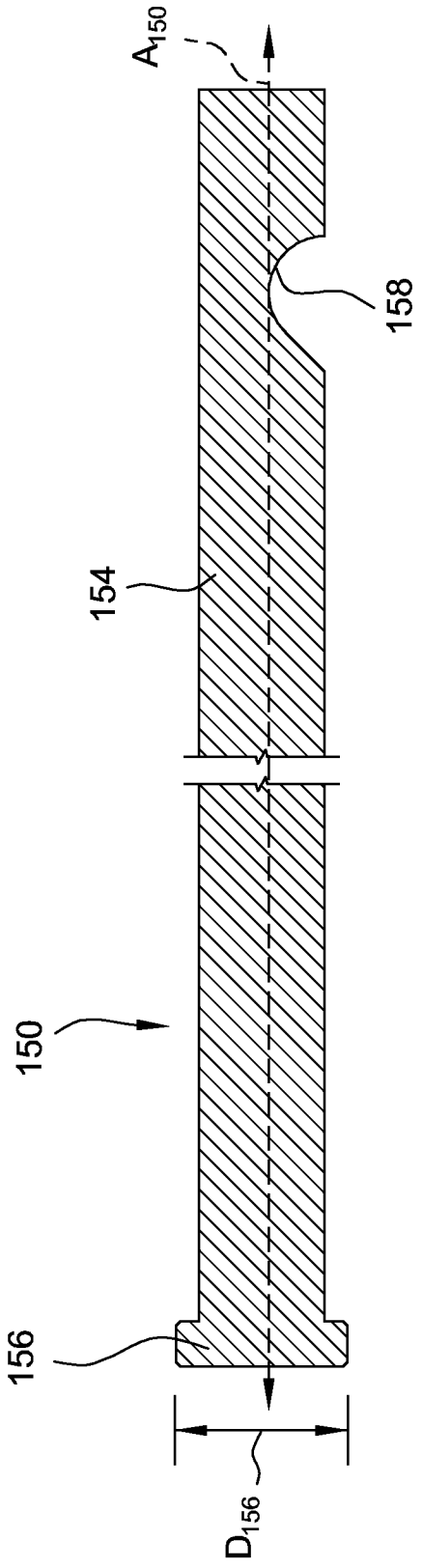


FIG. 13

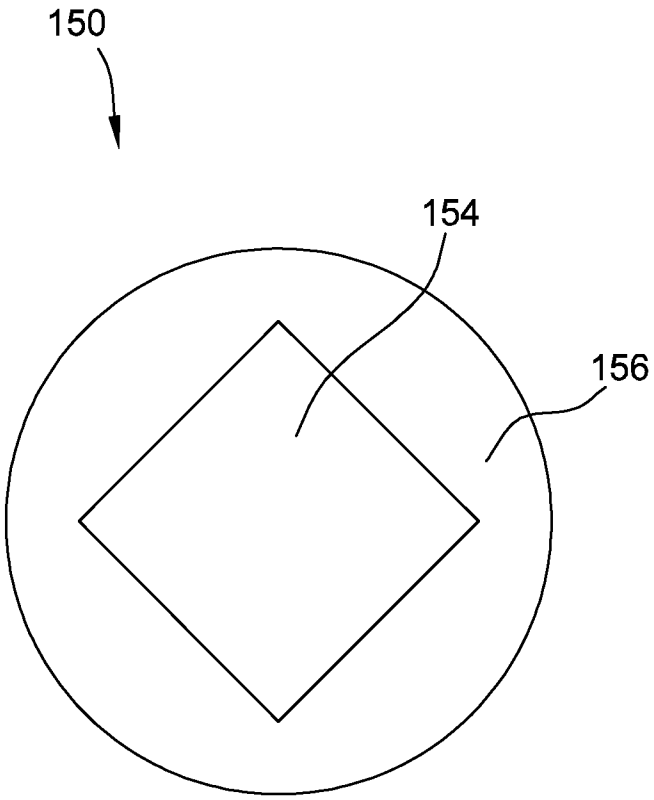


FIG. 14

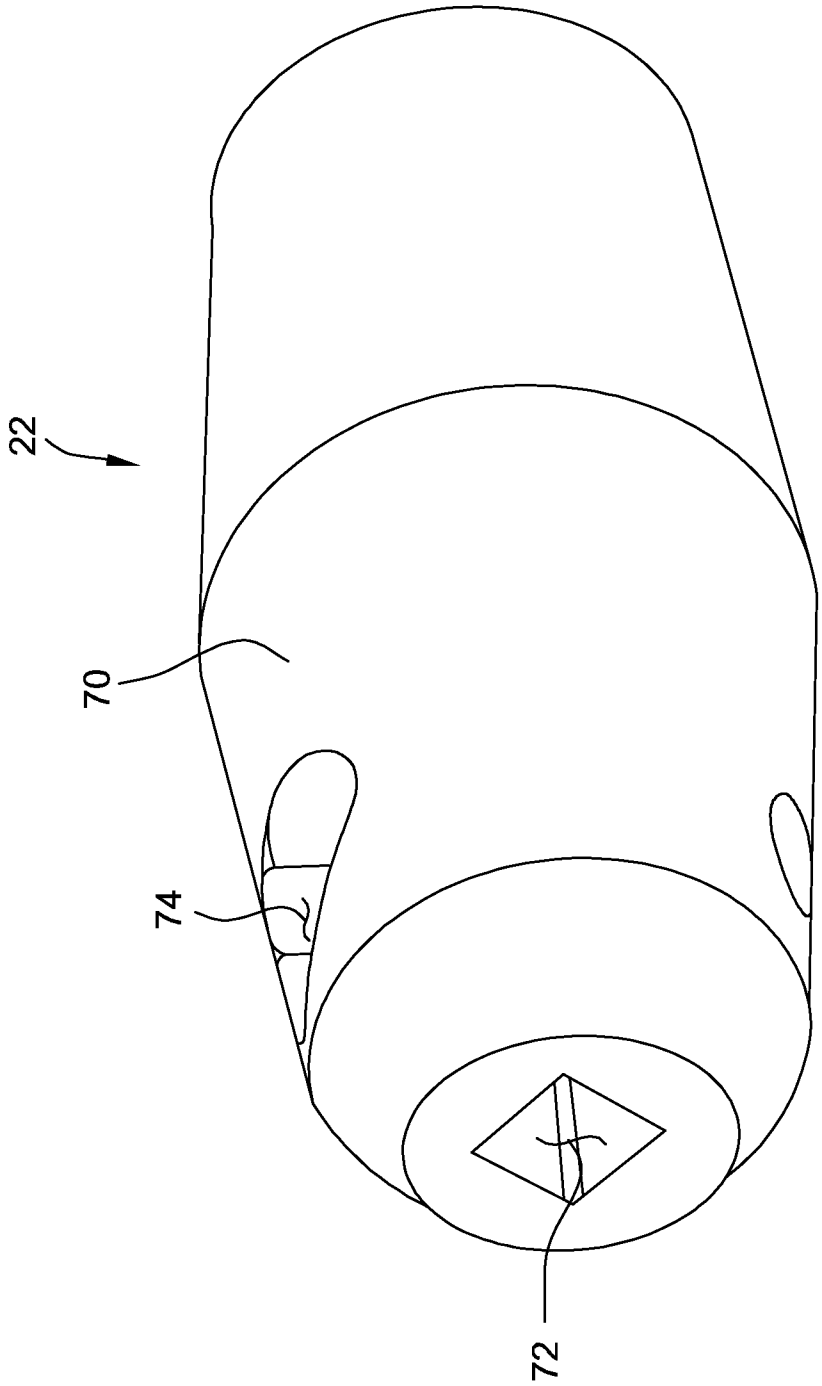


FIG. 15

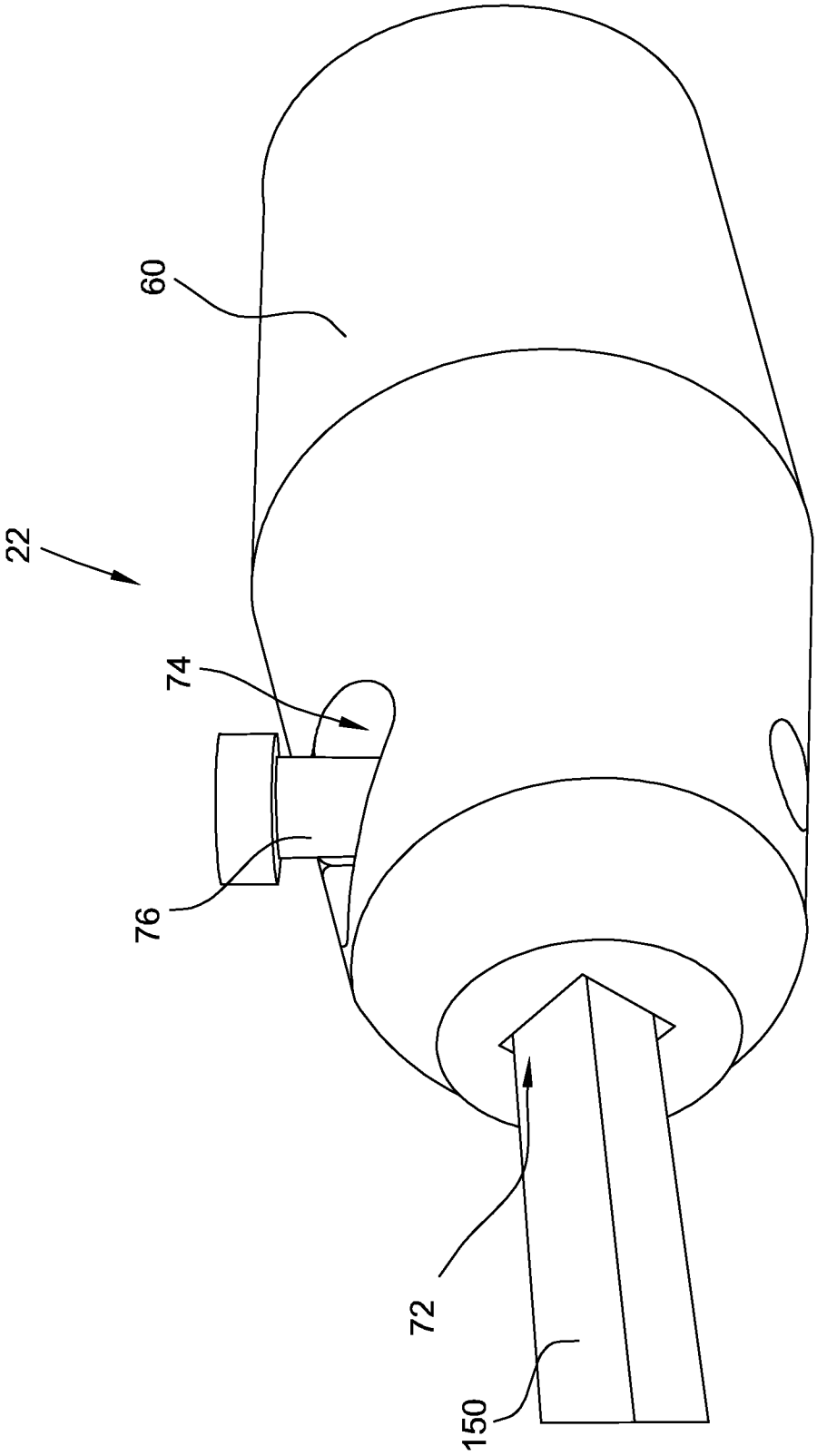


FIG. 16

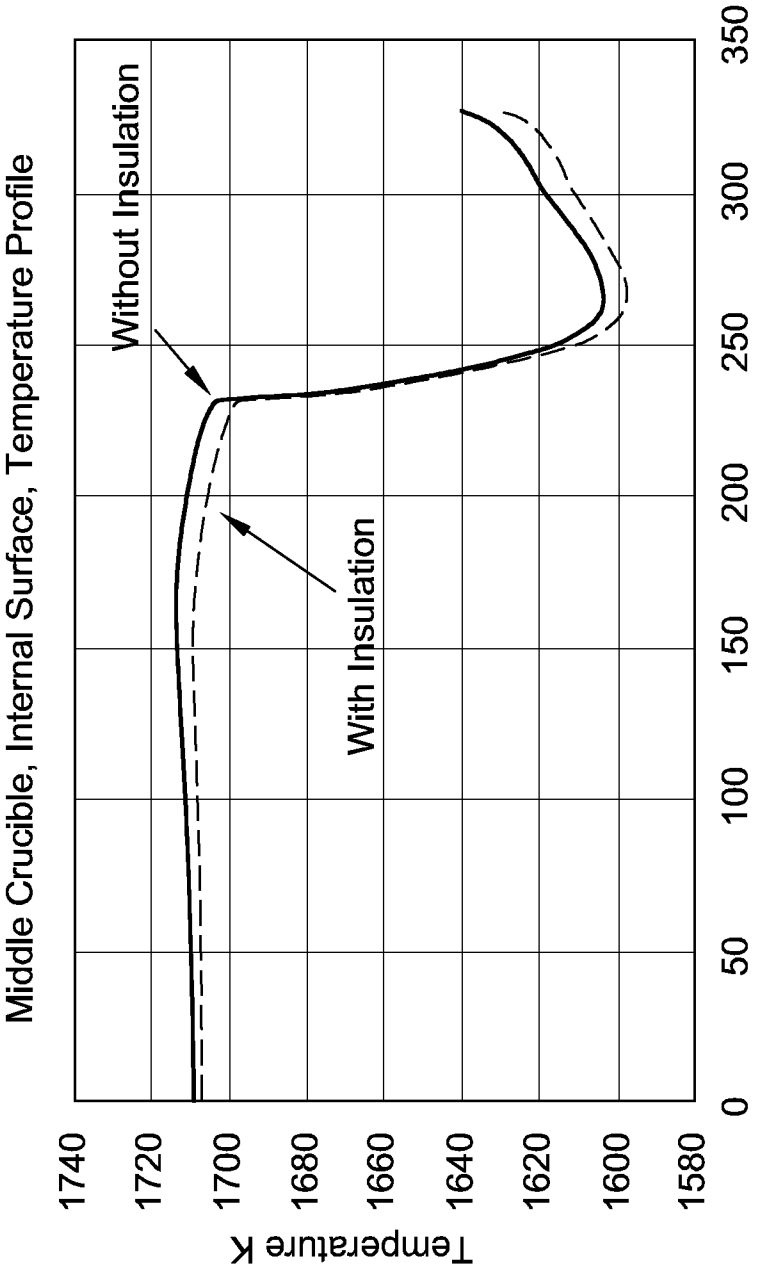

Middle Crucible, Internal Surface, Temperature Profile
Without Insulation
With Insulation
Temperature K
1740
1720
1700
1680
1660
1640
1620
1600
1580
0
50
100
150
200
250
300
350
Distance mm

FIG. 17

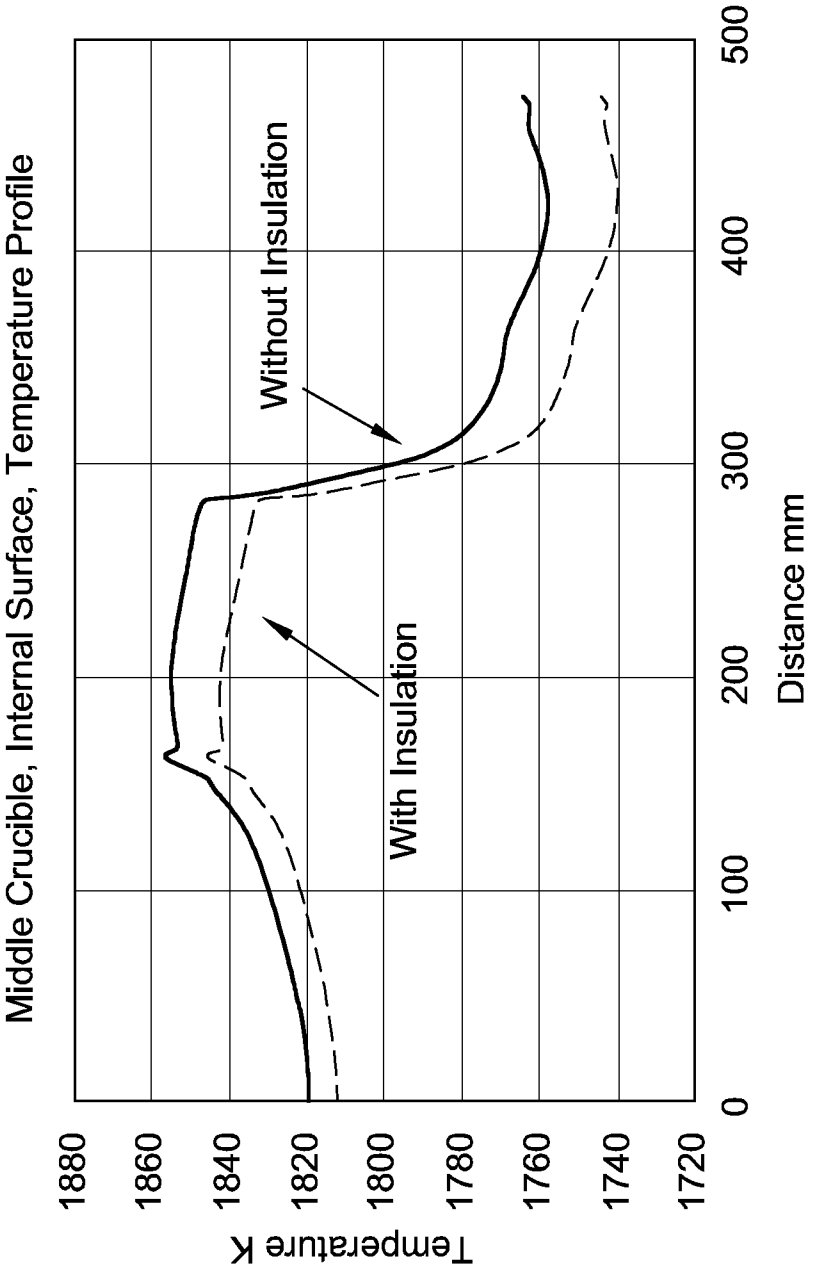

Middle Crucible, Internal Surface, Temperature Profile
Without Insulation
With Insulation
Temperature K
1880
1860
1840
1820
1800
1780
1760
1740
1720
0
100
200
300
400
500
Distance mm

FIG. 18

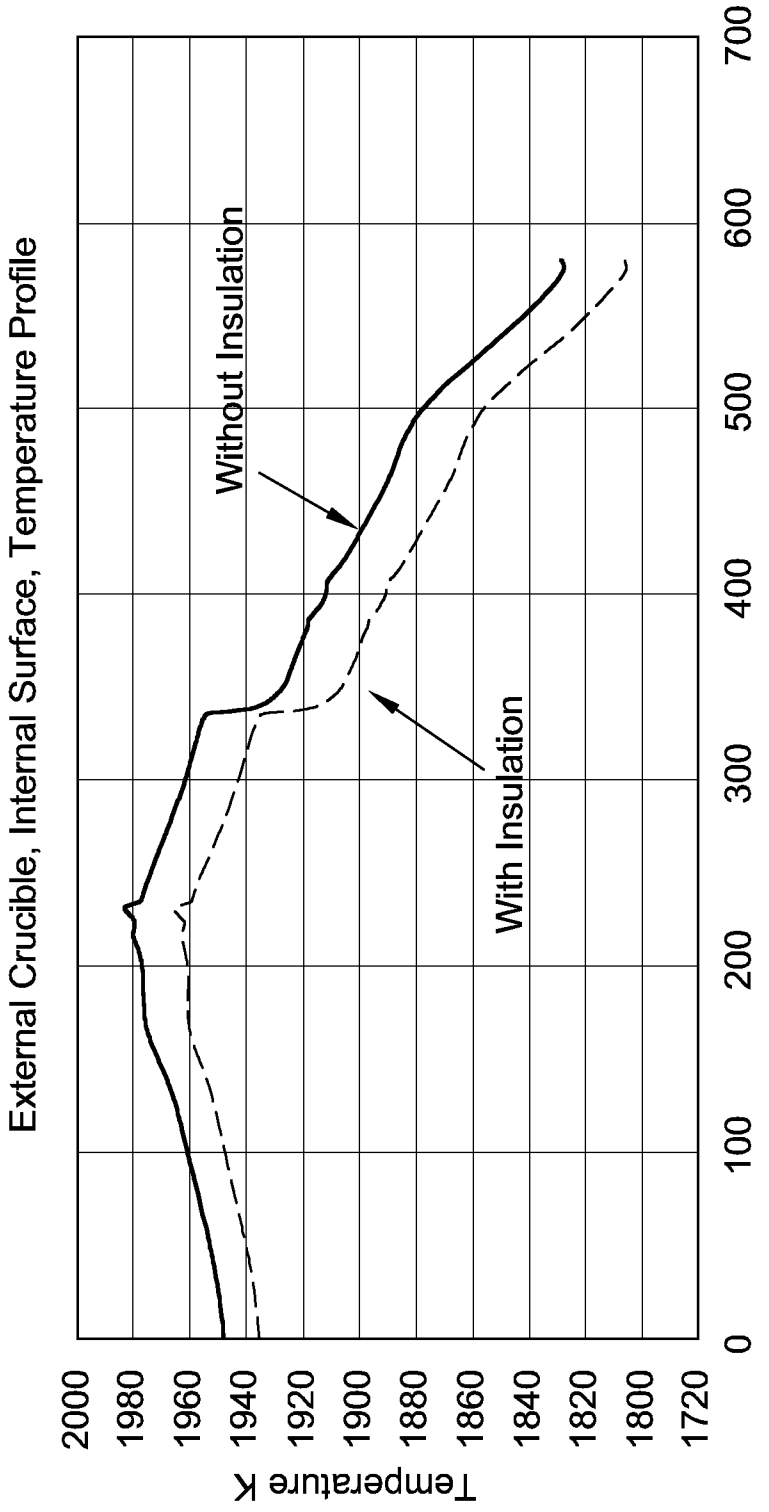

External Crucible, Internal Surface, Temperature Profile
Without Insulation
With Insulation
Temperature K
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1720
0
100
200
300
400
500
600
700
Distance mm

FIG. 19

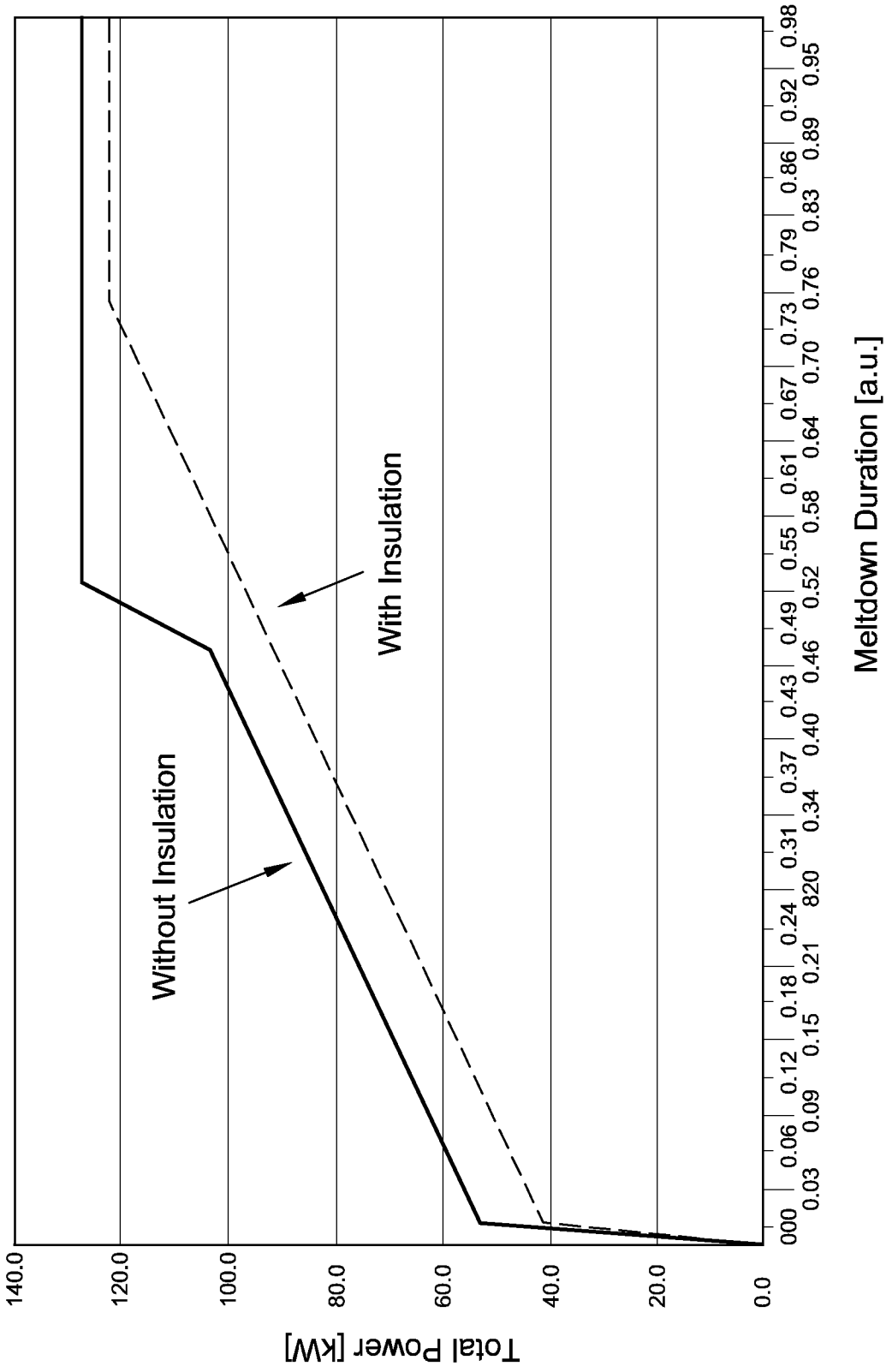

Total Power [kW]
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
000
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
820
0.31
0.34
0.37
0.40
0.43
0.46
0.49
0.52
0.55
0.58
0.61
0.64
0.67
0.70
0.73
0.76
0.79
0.83
0.86
0.89
0.92
0.95
0.98
Meltdown Duration [a.u.]
With Insulation
Without Insulation

FIG. 20