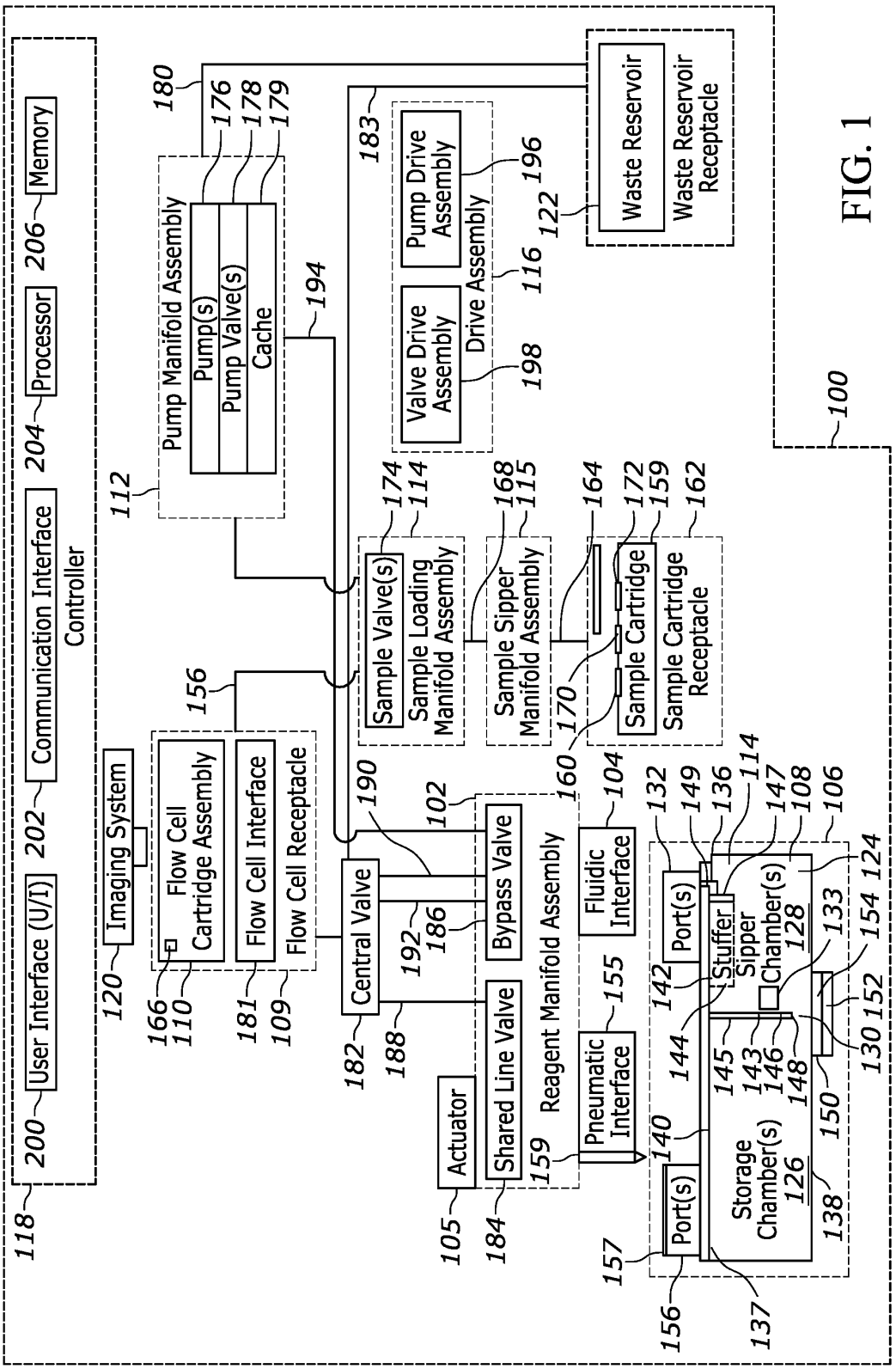

Controller
User Interface (U/I)
Communication Interface
Processor
Memory
Imaging System
Flow Cell Cartridge Assembly
Flow Cell Interface
Flow Cell Receptacle
Pump Manifold Assembly
Pump(s)
Pump Valve(s)
Cache
Sample Valve(s)
Sample Loading Manifold Assembly
Sample Sipper Manifold Assembly
Sample Cartridge
Sample Cartridge Receptacle
Pump Drive Assembly
Valve Drive Assembly
Drive Assembly
Waste Reservoir
Waste Reservoir Receptacle
Central Valve
Bypass Valve
Shared Line Valve
Actuator
Reagent Manifold Assembly
Fluidic Interface
Pneumatic Interface
Port(s)
Stuffer
Sipper
Chamber(s)
Storage Chamber(s)
Port(s)
100
105
109
110
112
114
116
118
120
122
124
126
128
130
132
133
136
137
138
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142
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206

FIG. 1

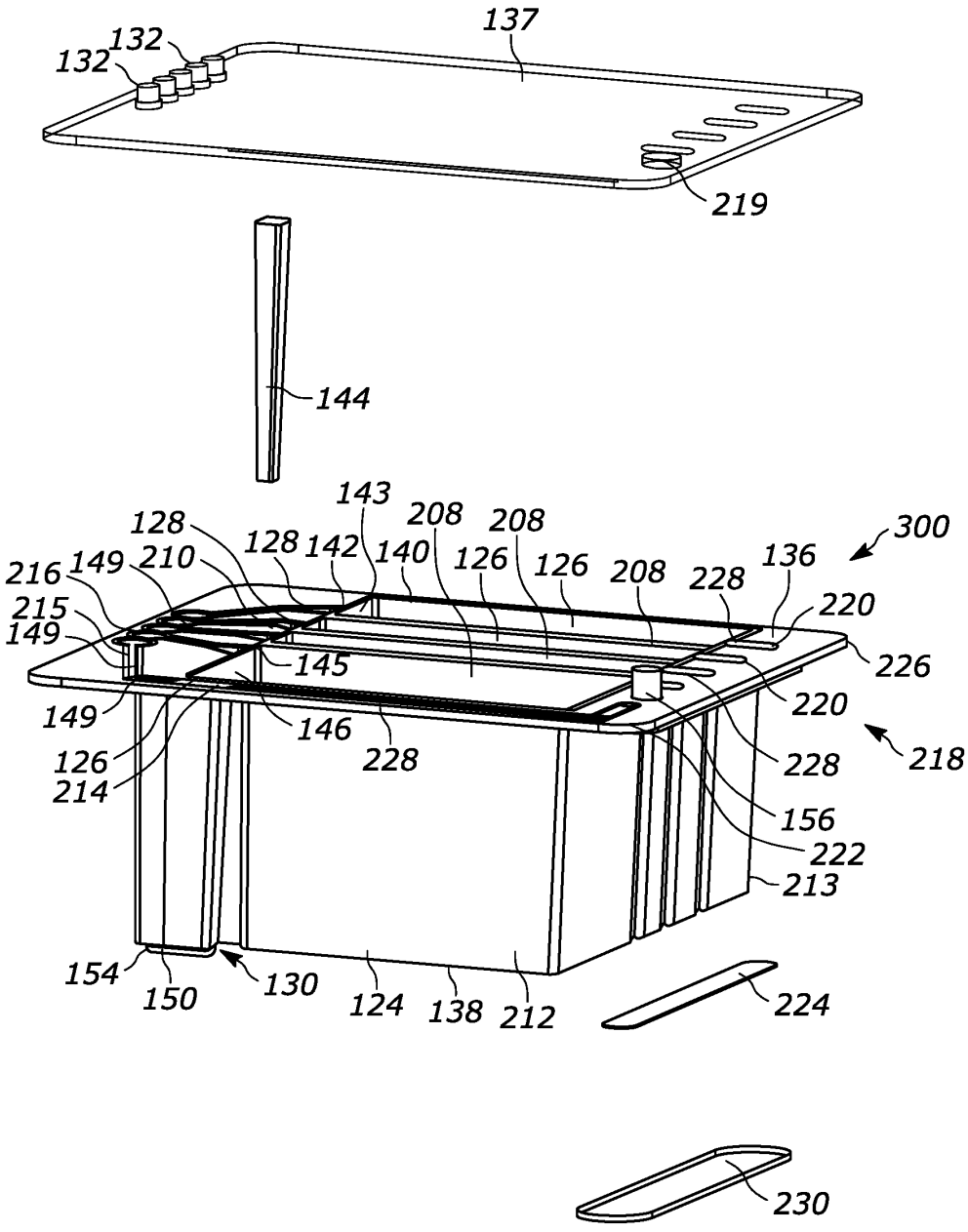

137
132
132
219
144
143
208
208
128
128
142
140
126
126
208
228
136
300
216
149
210
220
215
149
145
226
149
220
146
228
218
126
214
228
156
222
213
154
150
130
124
138
212
224
230

FIG. 2

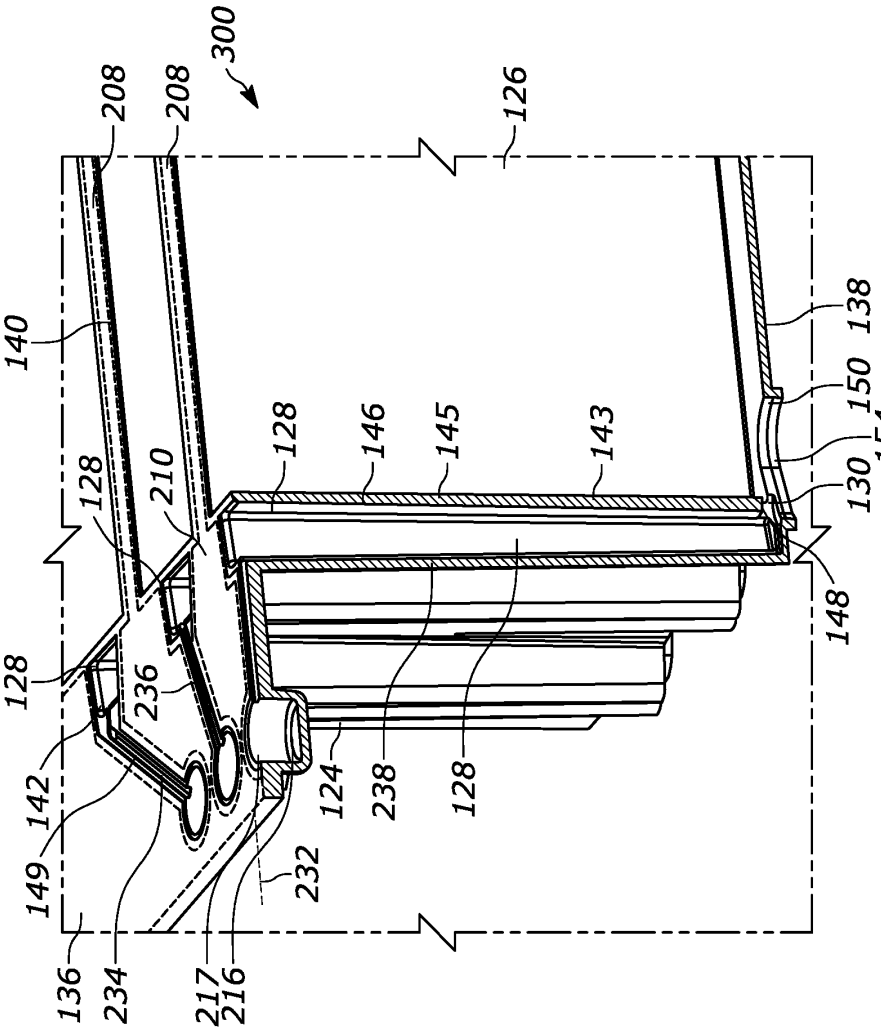

300
208
208
126
140
138
150
154
130
148
128
146
145
143
128
210
128
236
142
149
124
238
128
232
136
234
217
216

FIG. 3

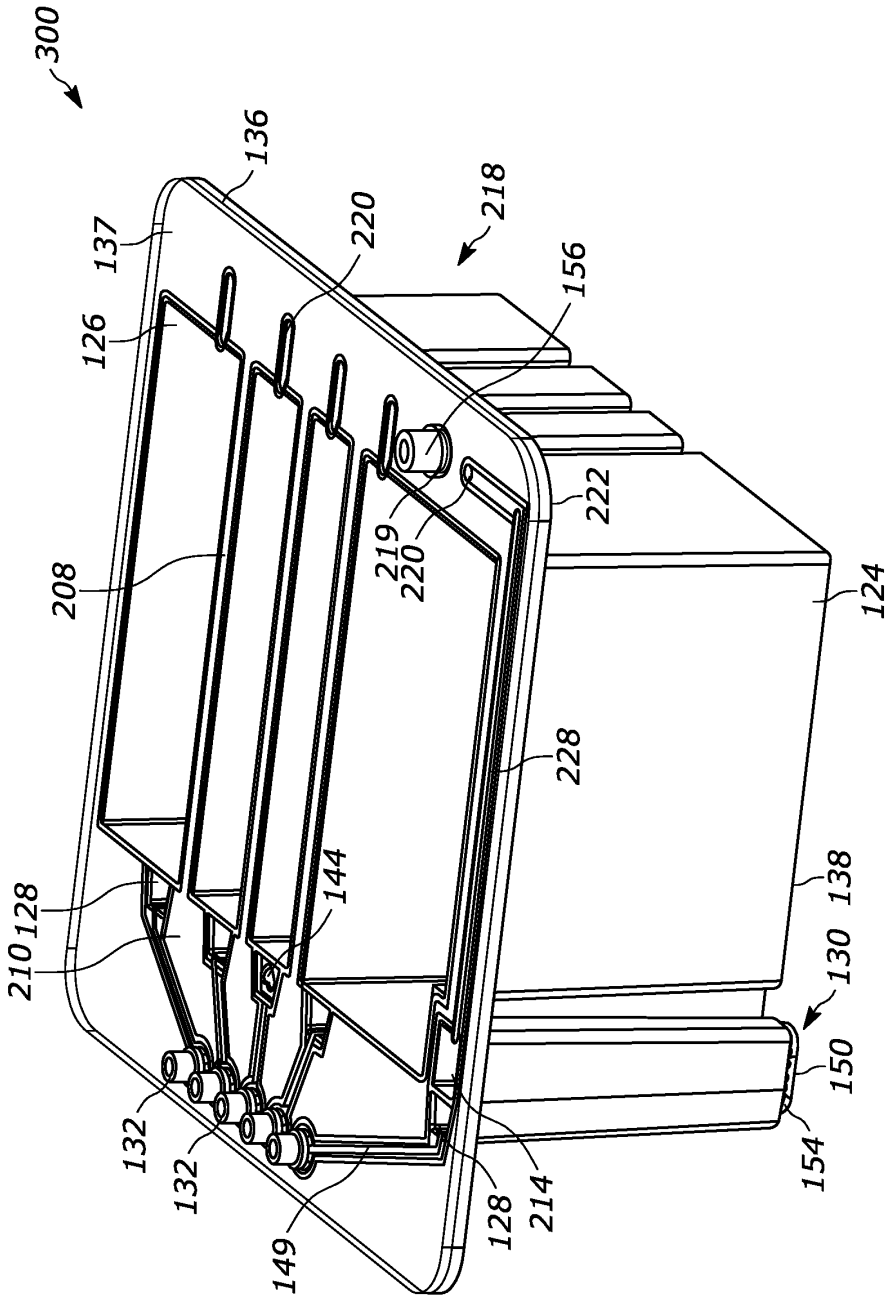

300
136
137
126
220
218
156
208
219
220
222
124
228
138
130
150
154
144
128
210
132
132
149
128
214

FIG. 4

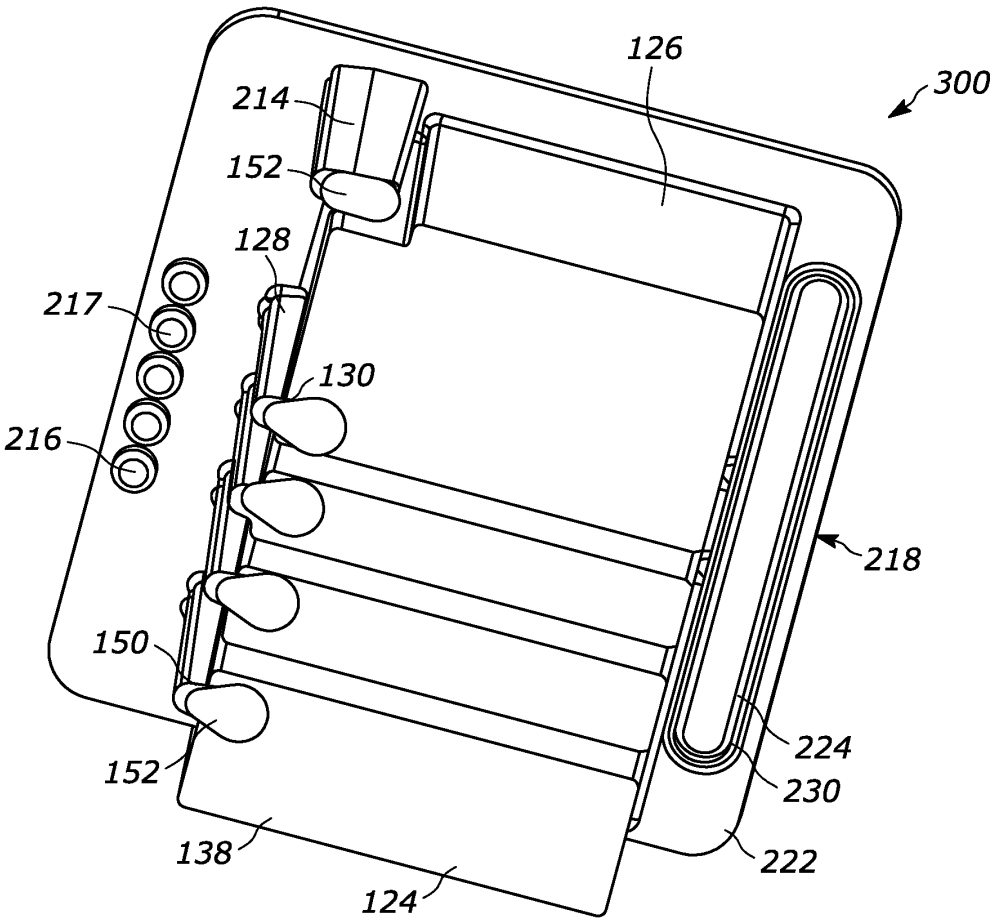


FIG. 5

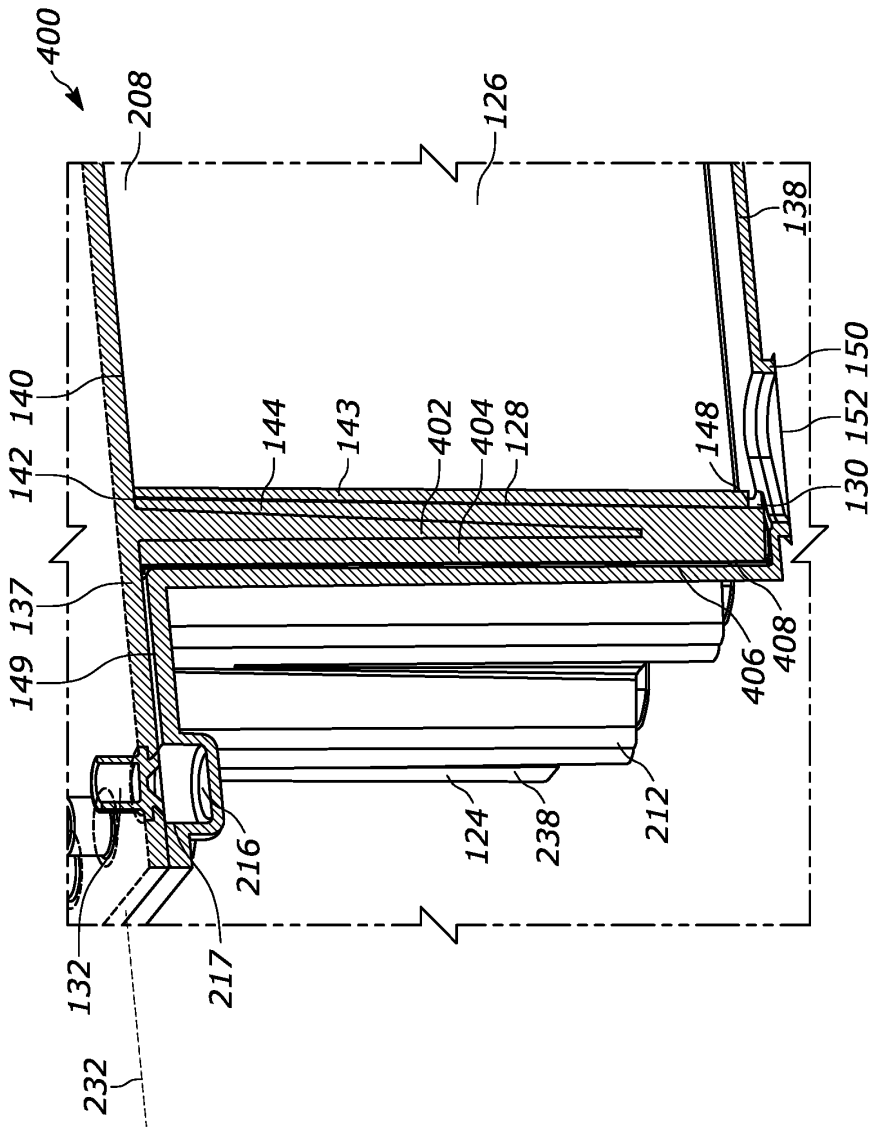

400
208
126
138
140
142
144
143
402
404
128
148
150
152
130
137
149
406
408
212
124
238
216
217
132
232

FIG. 6

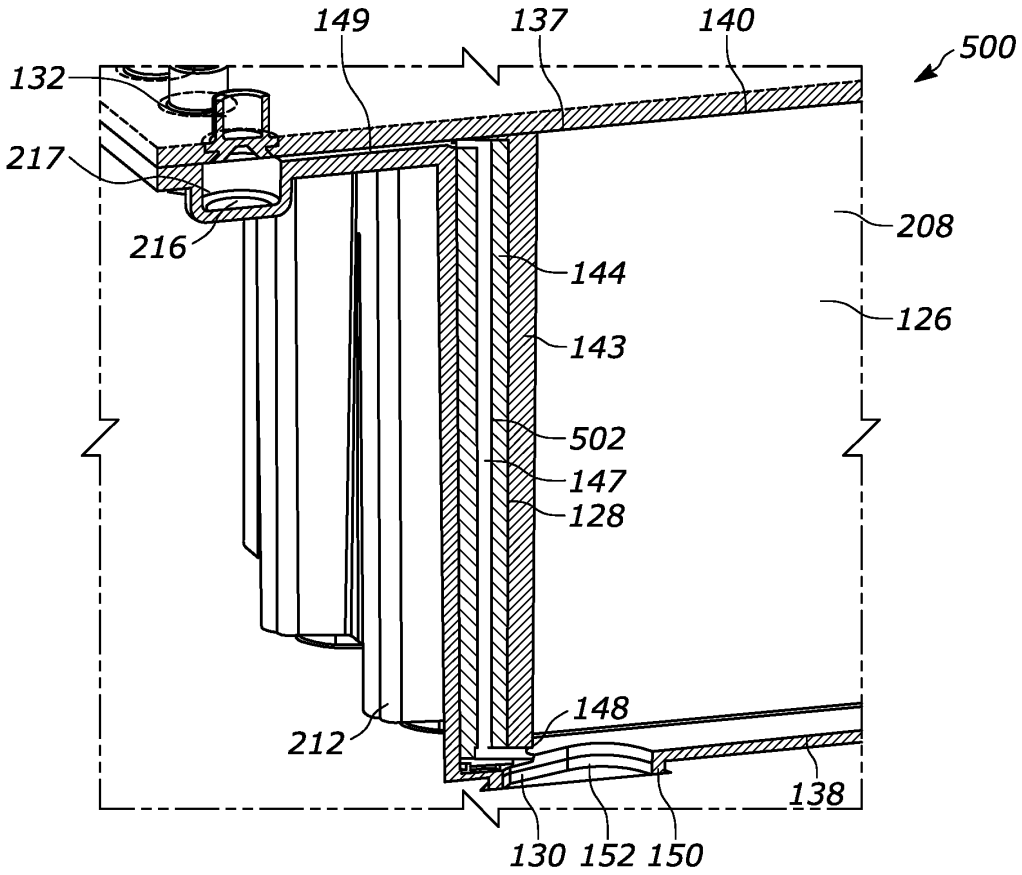

149
137
140
500
132
217
216
208
144
126
143
502
147
128
148
212
138
130
152
150

FIG. 7

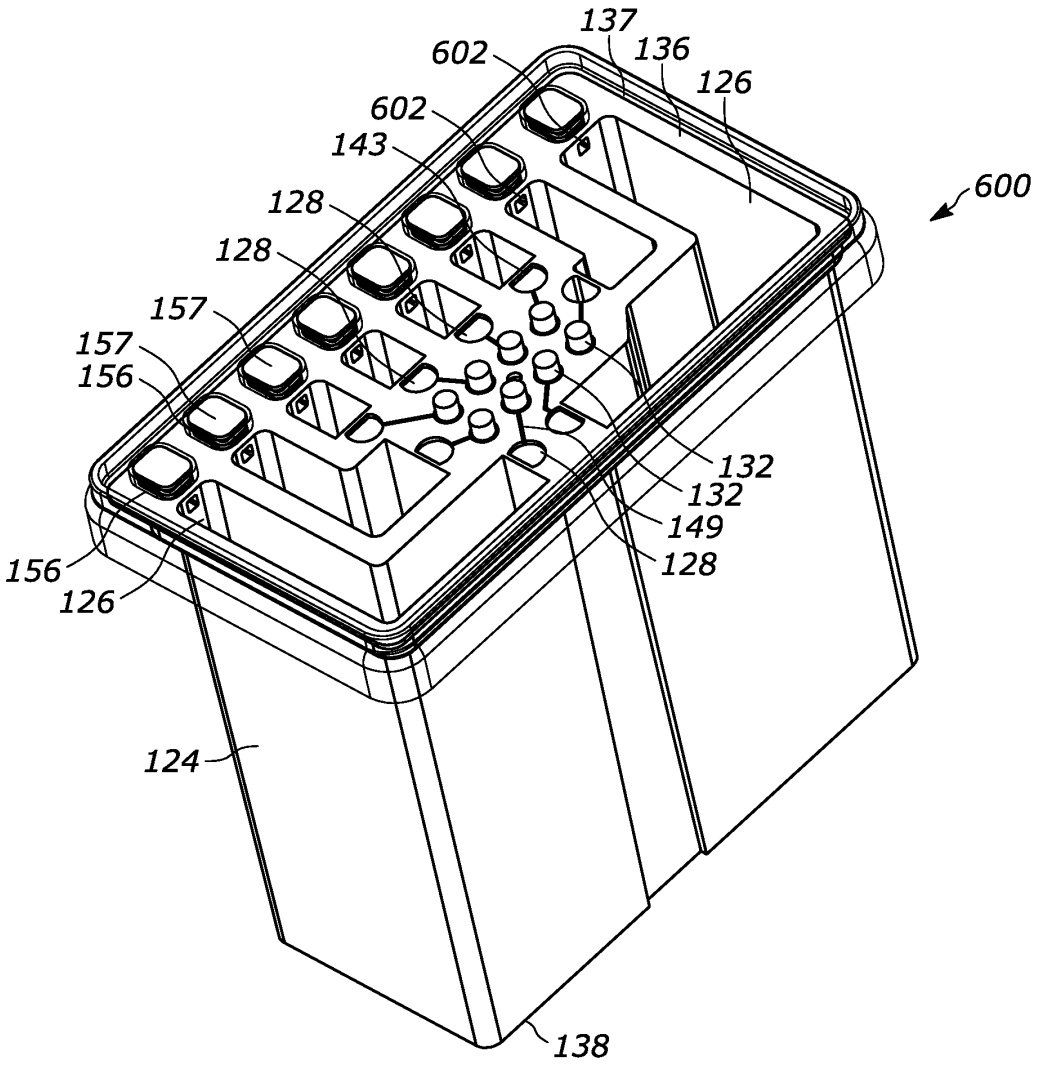

137
602
136
126
602
143
600
128
128
157
157
156
132
132
149
128
156
126
124
138

FIG. 8

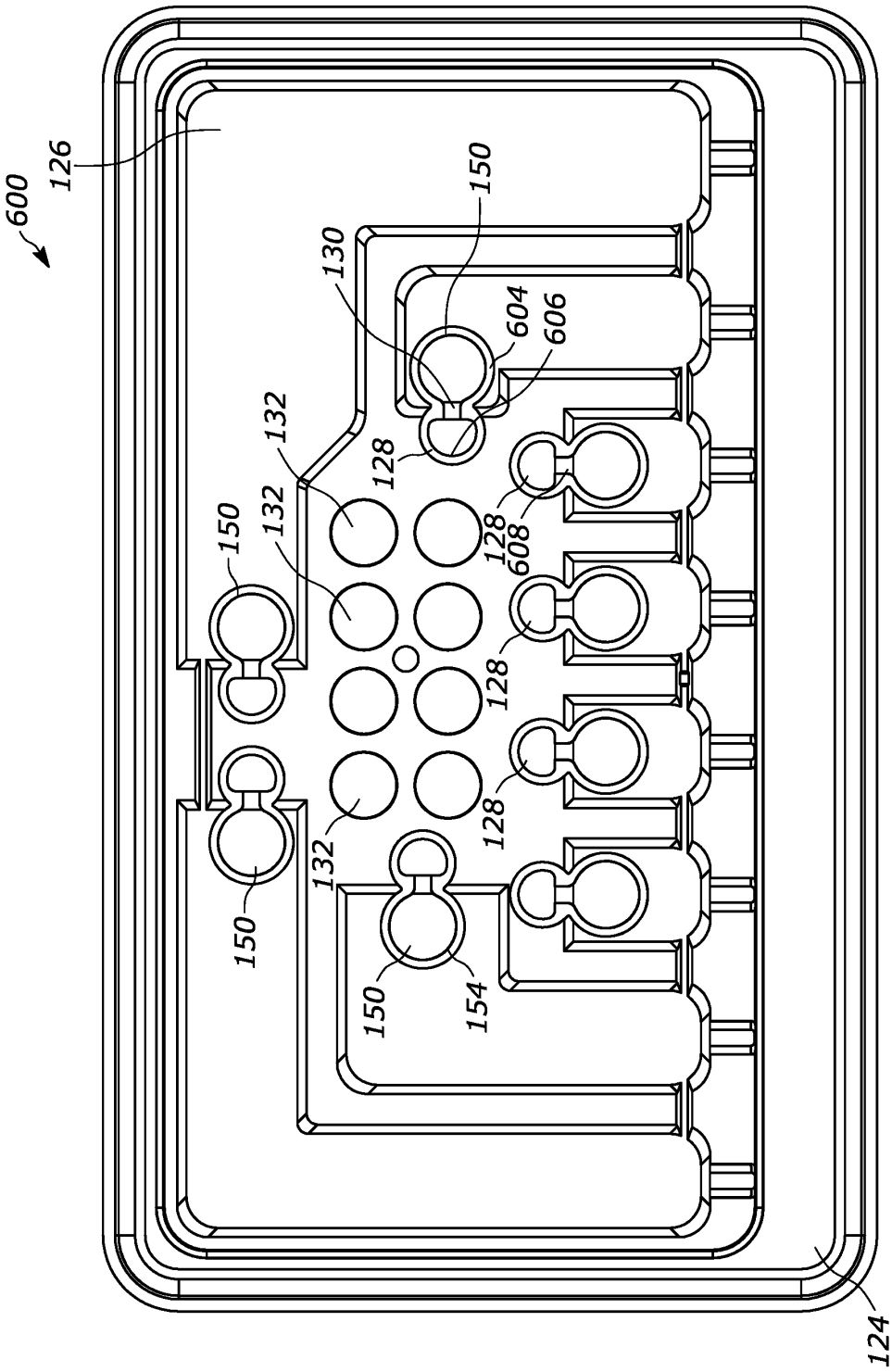

600
126
150
130
604
606
132
128
132
150
128
608
128
128
132
150
150
154
124

FIG. 9

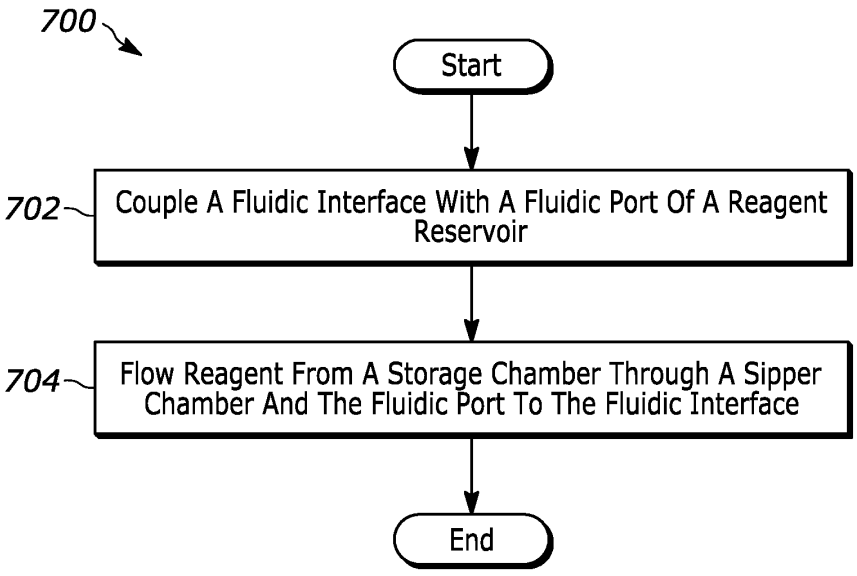

700
Start
702
Couple A Fluidic Interface With A Fluidic Port Of A Reagent Reservoir
704
Flow Reagent From A Storage Chamber Through A Sipper Chamber And The Fluidic Port To The Fluidic Interface
End

FIG. 10

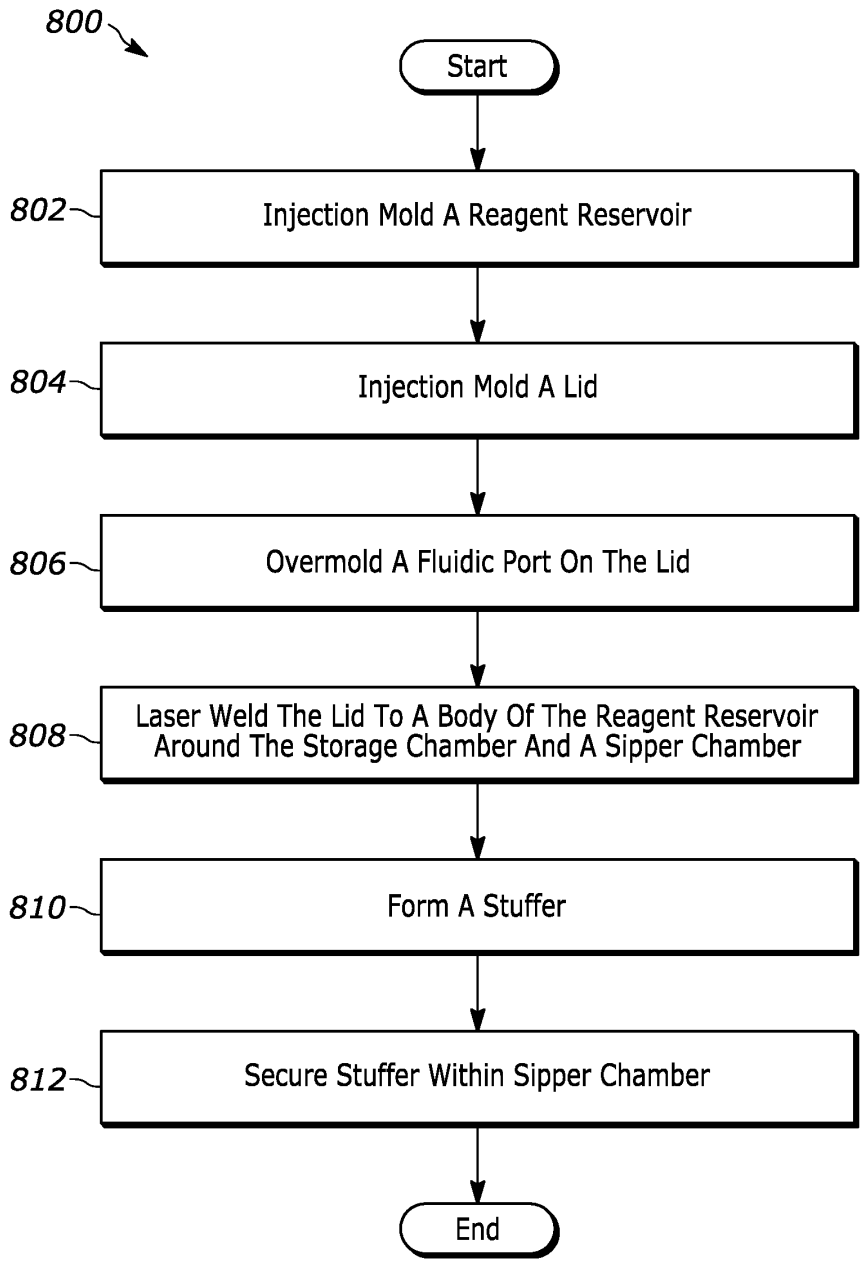

800
Start
802
Injection Mold A Reagent Reservoir
804
Injection Mold A Lid
806
Overmold A Fluidic Port On The Lid
808
Laser Weld The Lid To A Body Of The Reagent Reservoir Around The Storage Chamber And A Sipper Chamber
810
Form A Stuffer
812
Secure Stuffer Within Sipper Chamber
End

FIG. 11

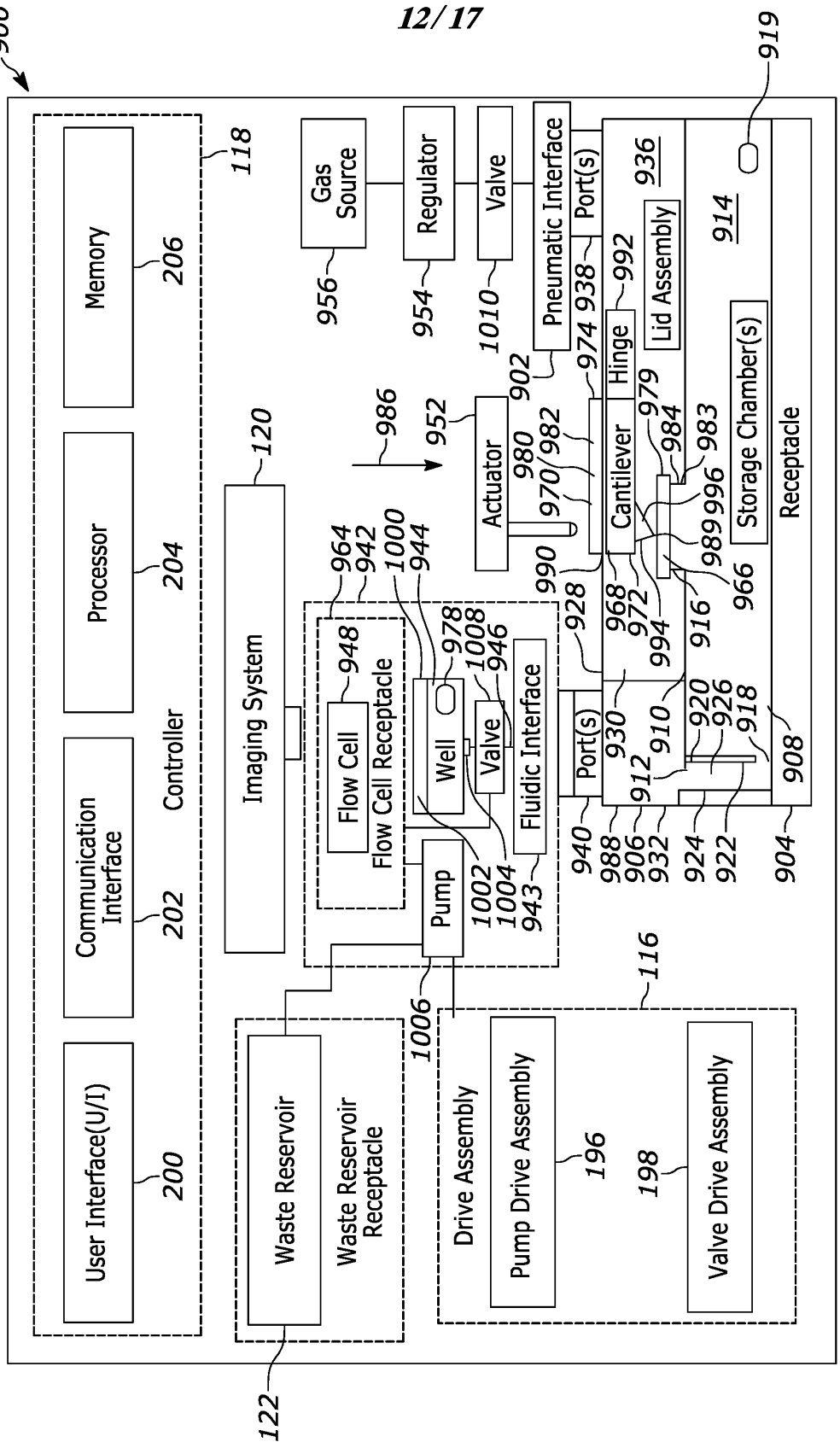

900
User Interface(U/I)
200
Communication Interface
202
Processor
204
Memory
206
Controller
118
Imaging System
120
Waste Reservoir
Waste Reservoir Receptacle
122
Drive Assembly
116
Pump Drive Assembly
196
Valve Drive Assembly
198
Gas Source
956
Regulator
954
Valve
1010
Pneumatic Interface
902
Port(s)
938
974
Hinge
992
Lid Assembly
936
914
919
Storage Chamber(s)
966
Receptacle
908
904
Actuator
980
952
986
970
982
Cantilever
979
984
983
996
989
990
928
968
972
994
916
Flow Cell
948
Flow Cell Receptacle
964
942
1000
944
Well
978
1008
Valve
946
Fluidic Interface
943
Pump
1002
1004
1006
Port(s)
930
910
912
920
926
918
940
988
906
932
924
922

FIG. 12

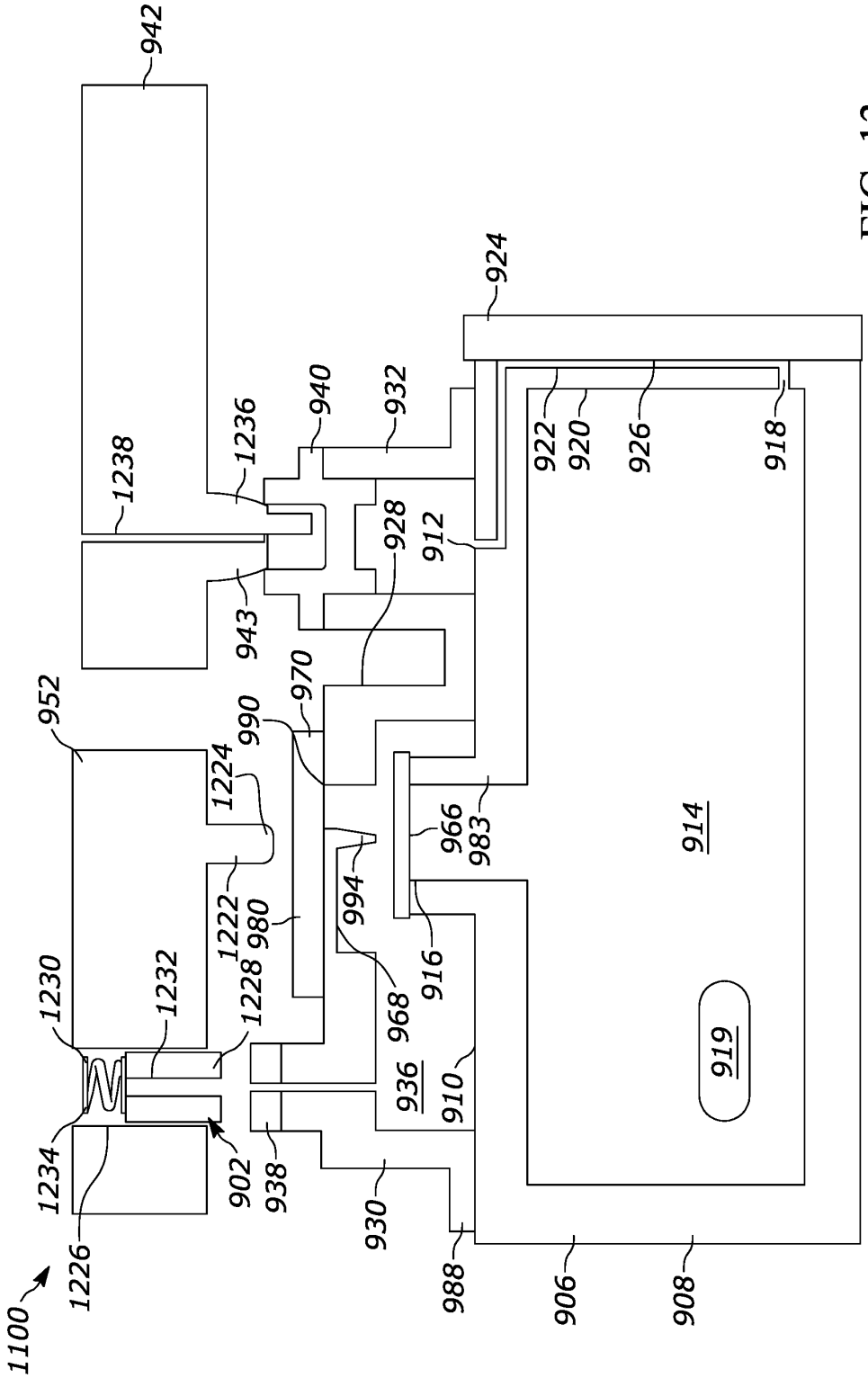

942
1238
1236
940
932
924
922
920
926
918
928
912
943
970
952
990
1224
966
983
914
1222
980
994
1230
1232
1228
968
916
919
936
910
1234
902
938
930
988
906
908
1226
1100

FIG. 13

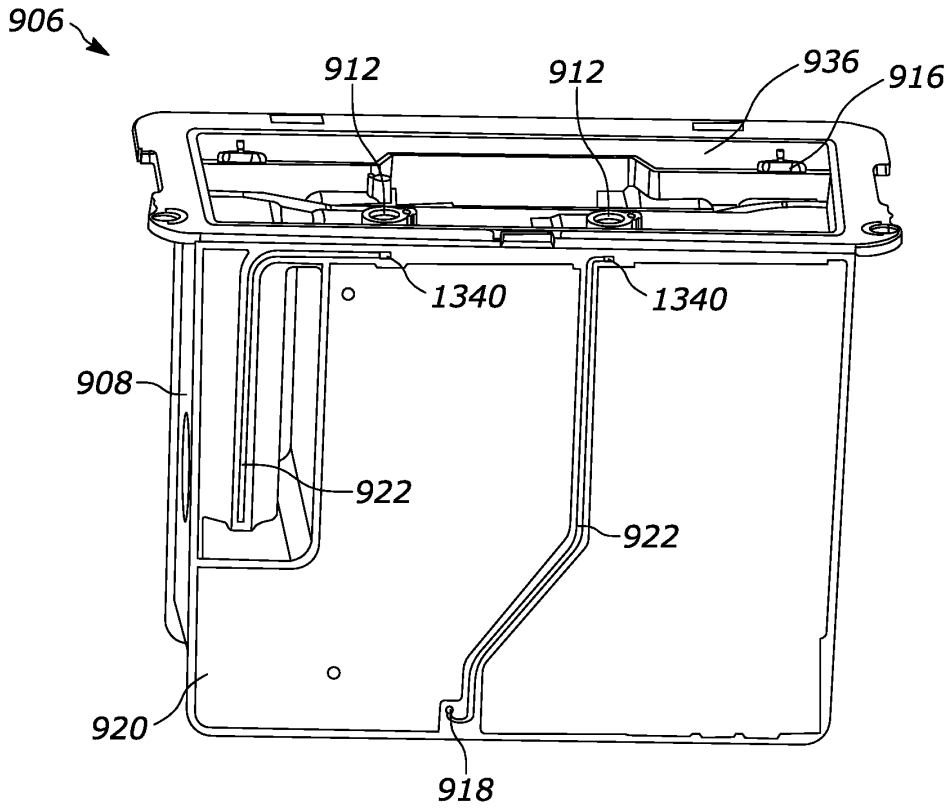


FIG. 14

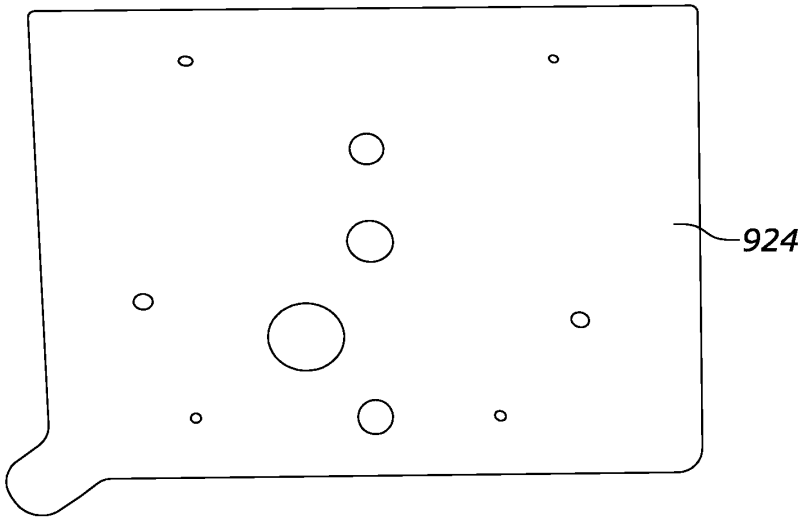


FIG. 15

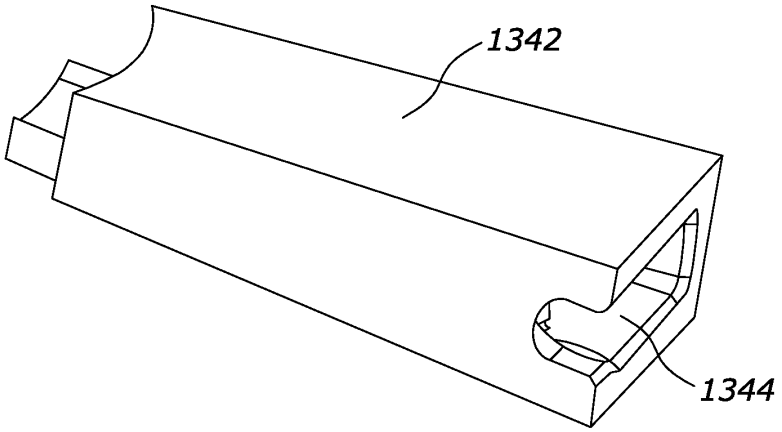


FIG. 16

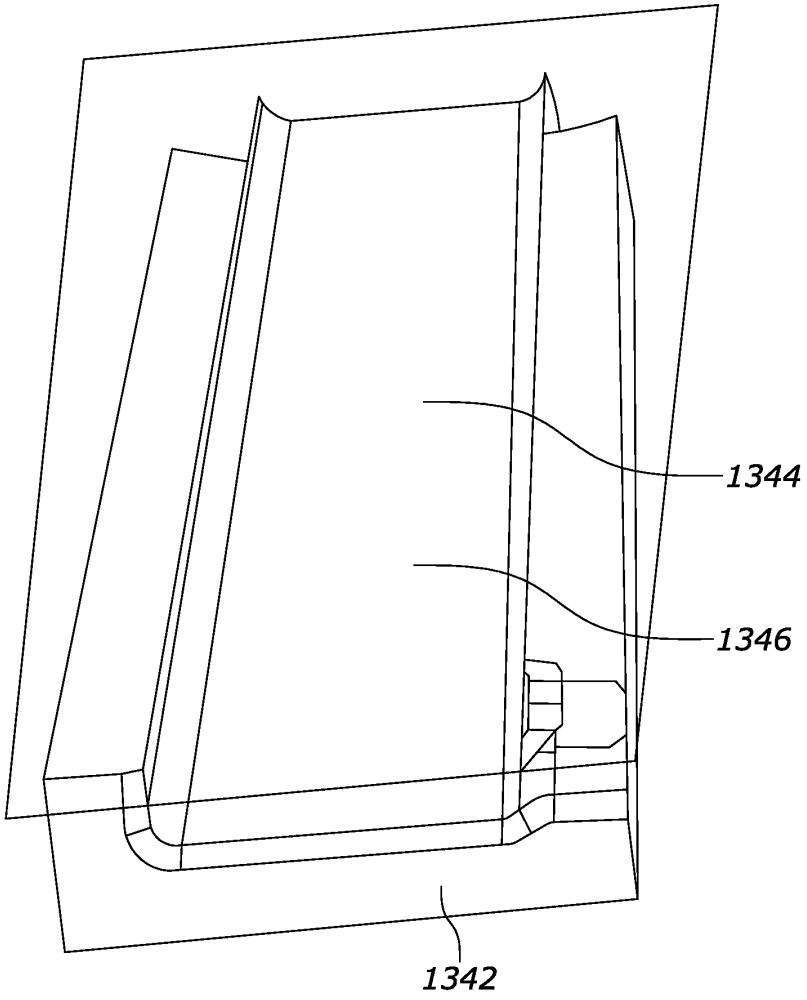


FIG. 17

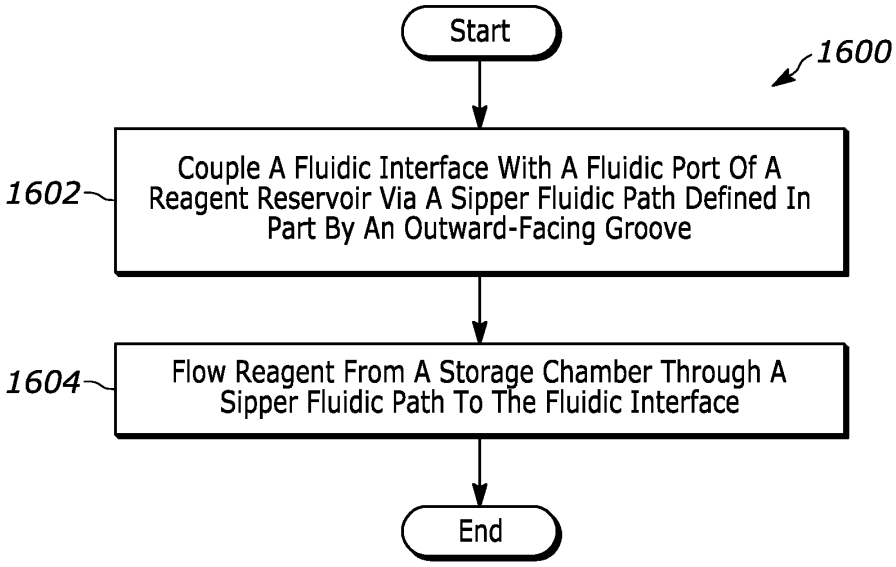

Start
1600
1602
Couple A Fluidic Interface With A Fluidic Port Of A Reagent Reservoir Via A Sipper Fluidic Path Defined In Part By An Outward-Facing Groove
1604
Flow Reagent From A Storage Chamber Through A Sipper Fluidic Path To The Fluidic Interface
End

FIG. 18

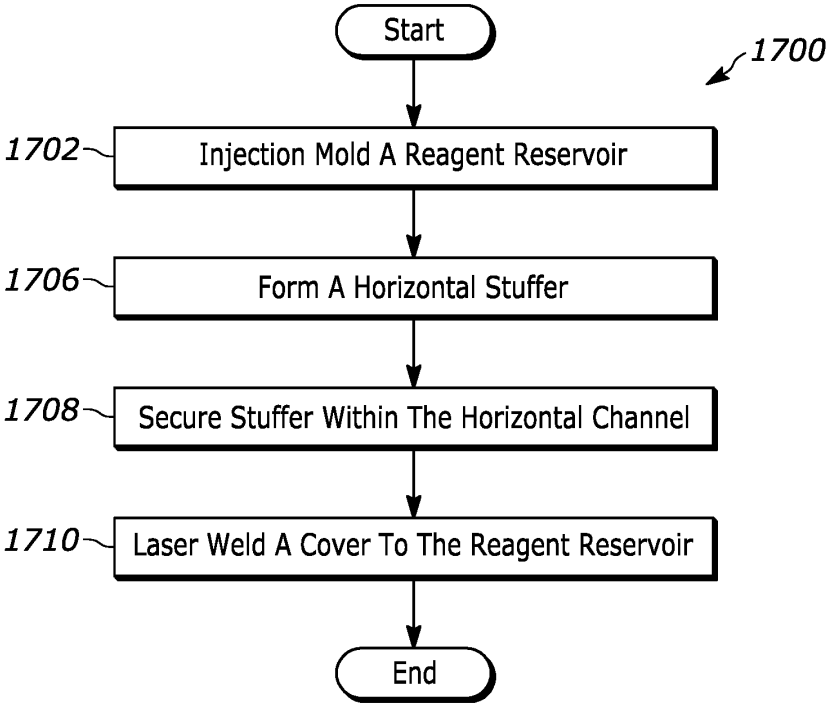

Start
1700
1702
Injection Mold A Reagent Reservoir
1706
Form A Horizontal Stuffer
1708
Secure Stuffer Within The Horizontal Channel
1710
Laser Weld A Cover To The Reagent Reservoir
End

FIG. 19