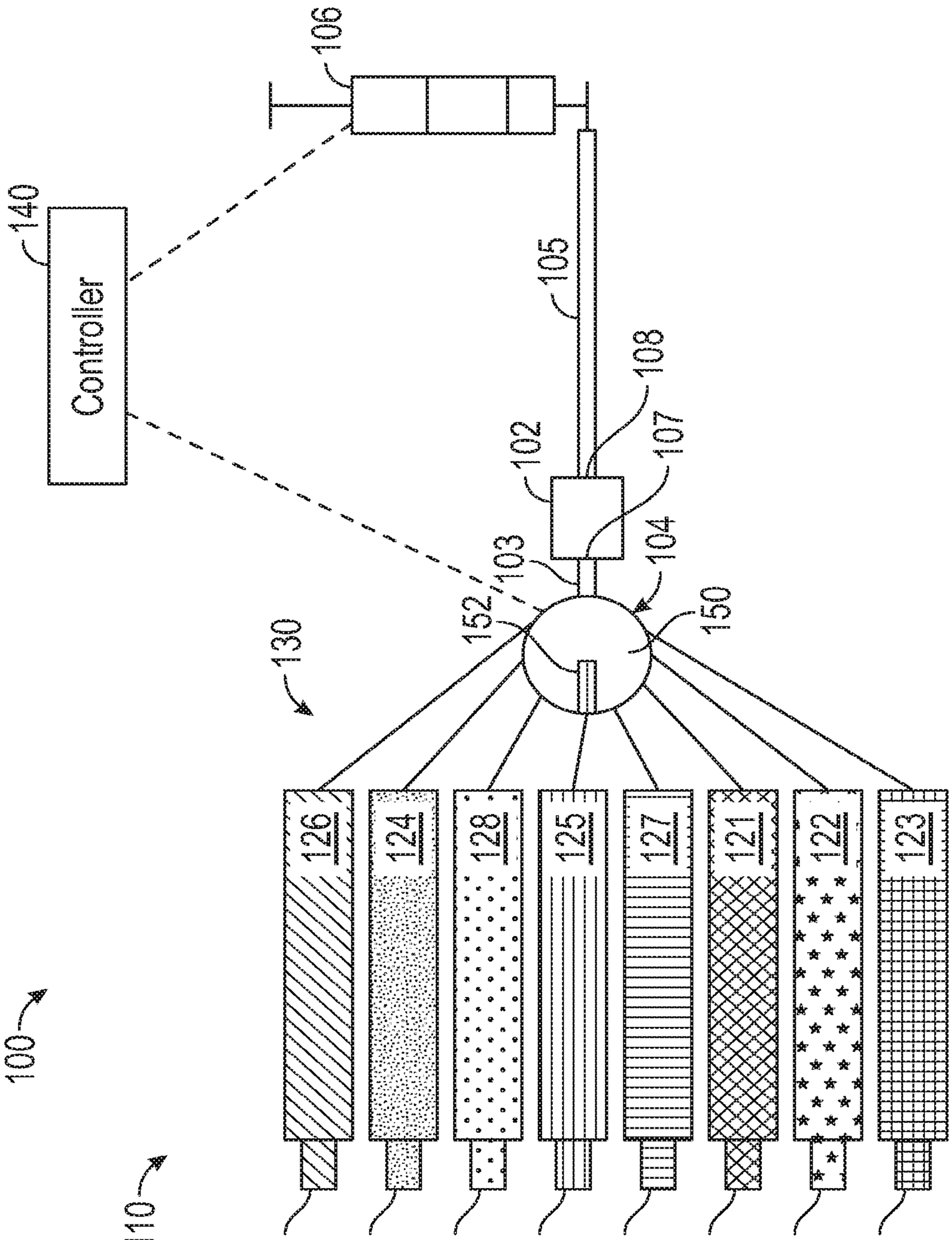

100
10
140
Controller
106
105
108
102
107
103
104
152
150
130
126
124
128
125
127
121
122
123
116
114
118
115
117
111
112
113

FIG. 1

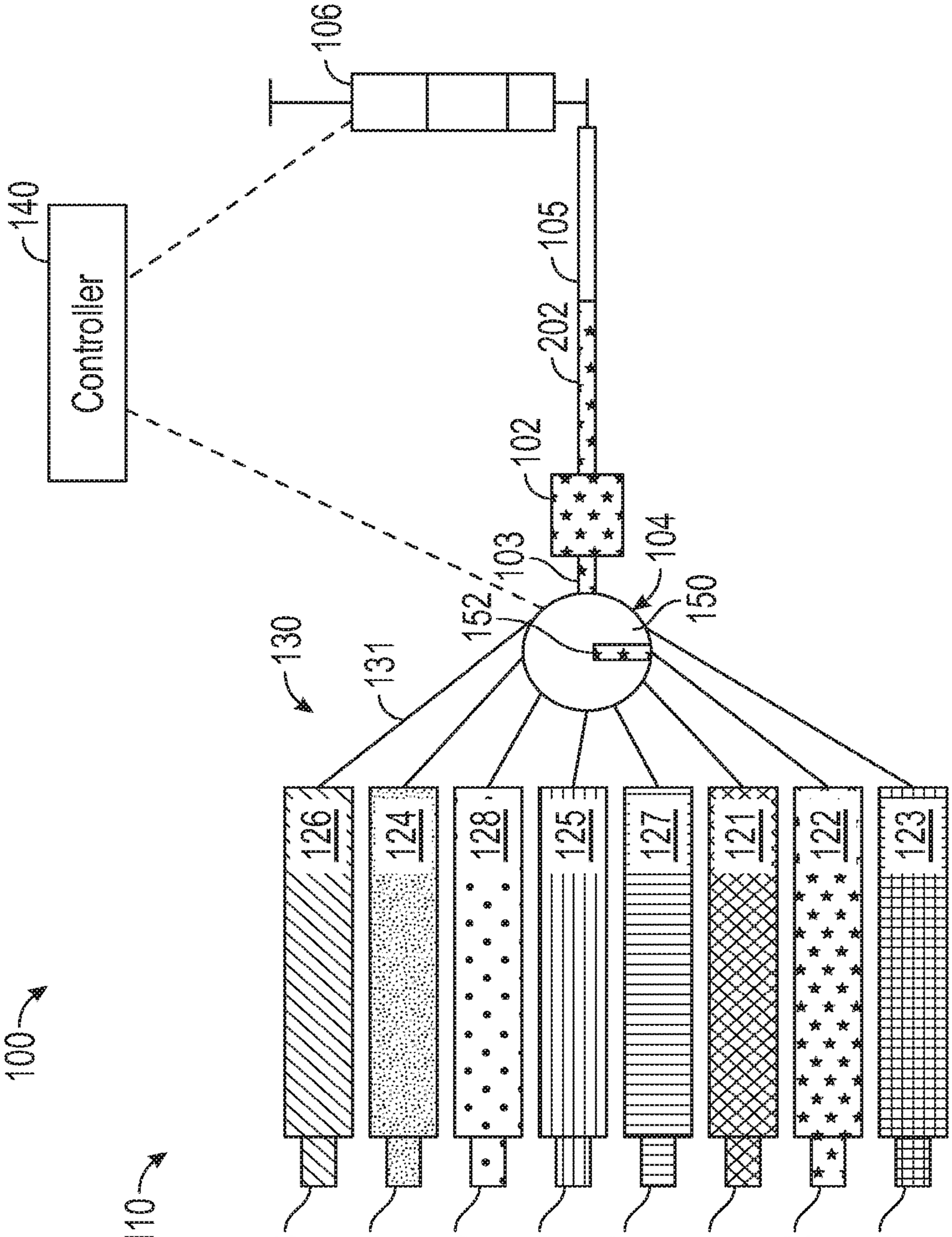

100
10
140
Controller
106
105
202
102
103
104
152
150
130
131
126
124
128
125
127
121
122
123
116
114
118
115
117
111
112
113

FIG. 2

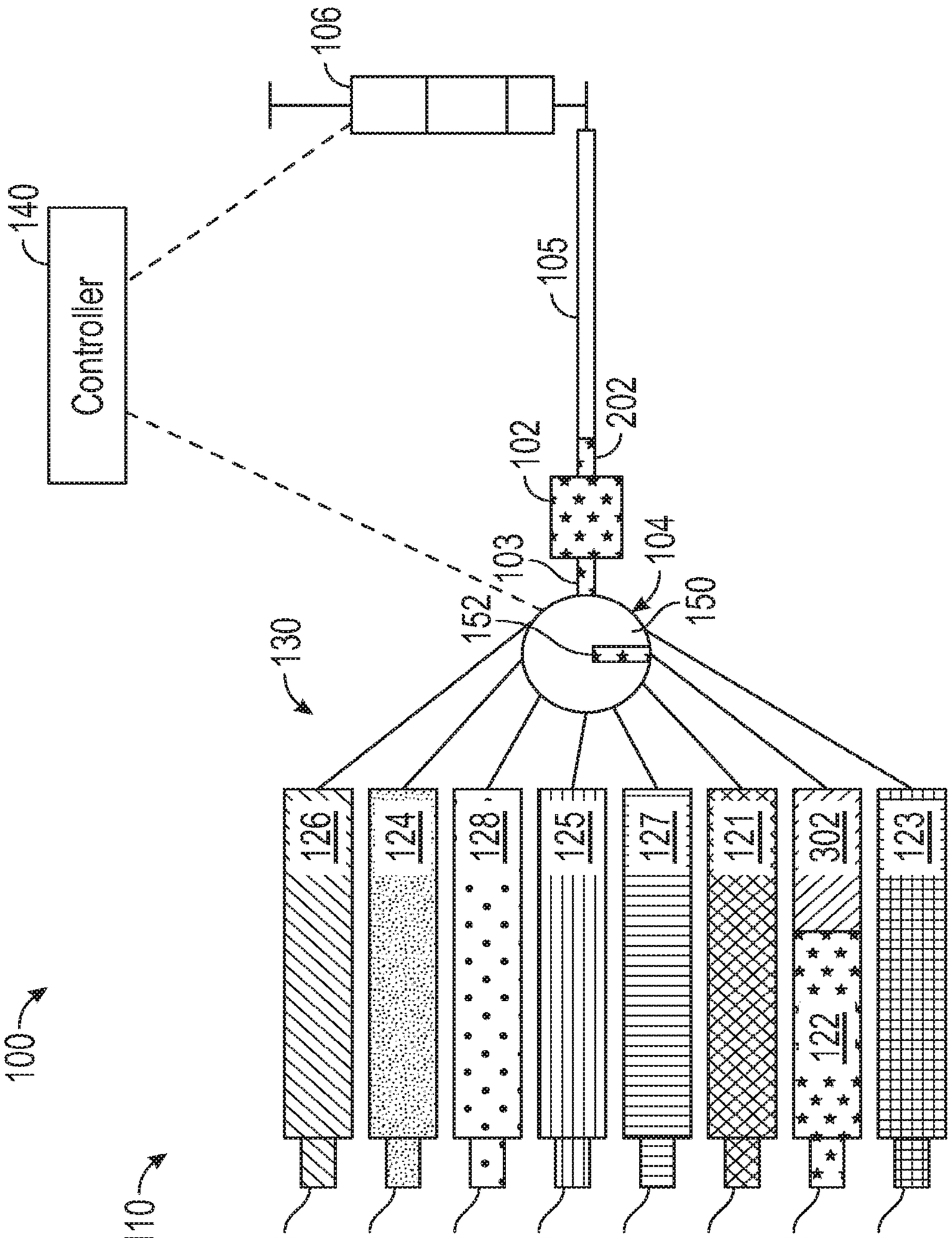

100
10
140
Controller
106
105
202
102
103
104
152
150
130
126
124
128
125
127
121
302
122
123
116
114
118
115
117
111
112
113

FIG. 3

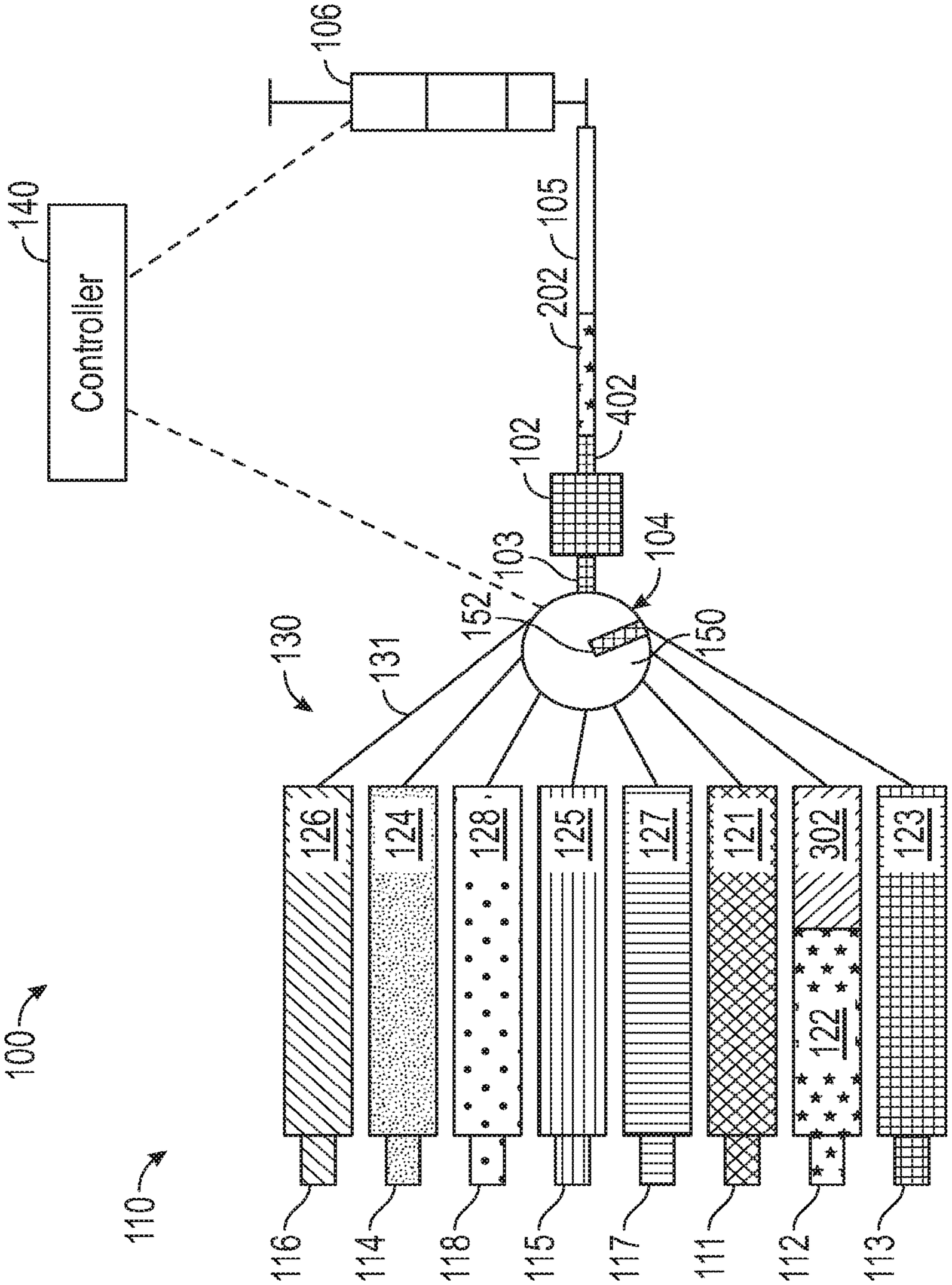

100
10
140
Controller
106
105
202
402
102
103
104
152
150
130
131
126
124
128
125
127
121
302
122
123
116
114
118
115
117
111
112
113

FIG. 4

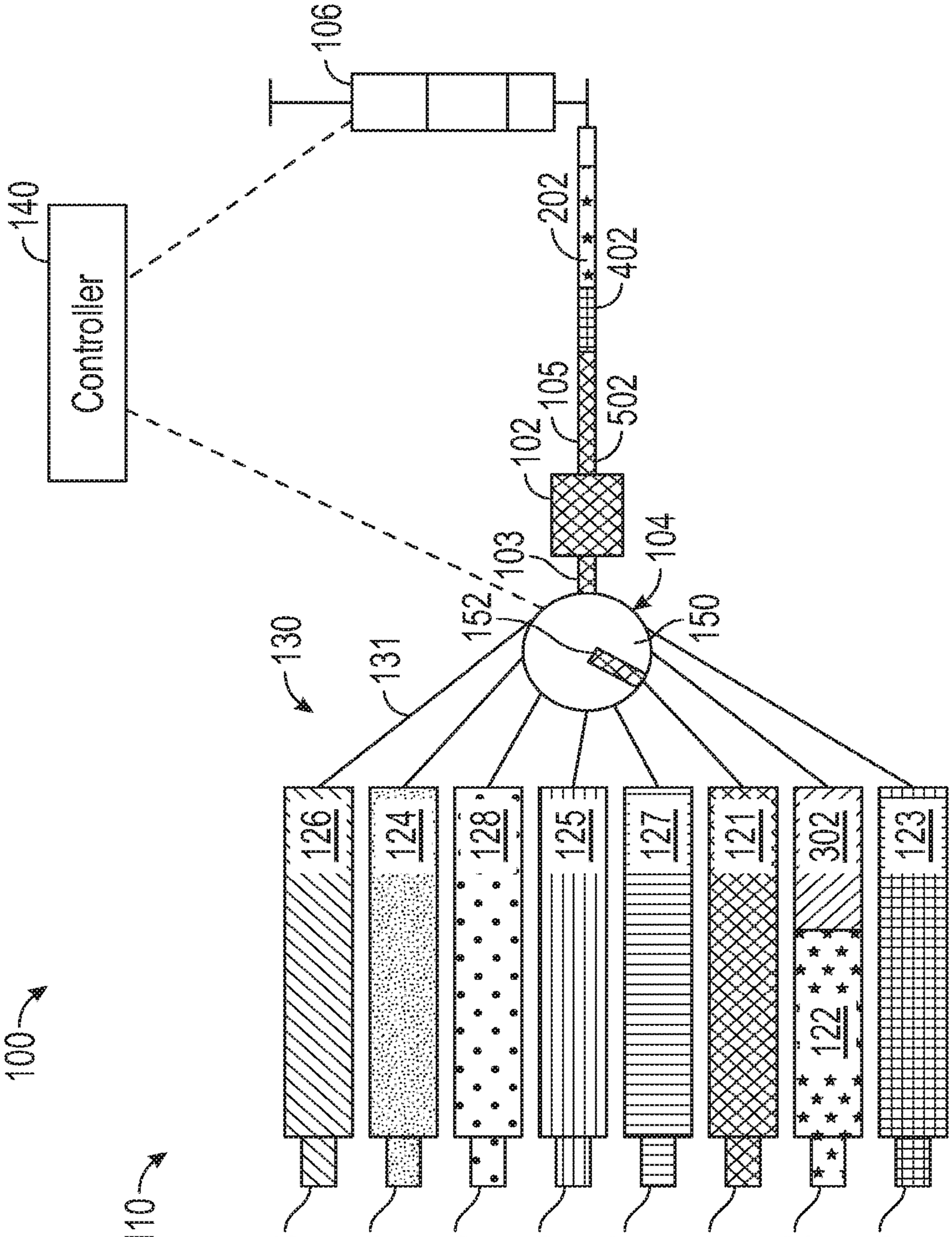

100
106
140
Controller
202
402
105
502
102
103
104
152
150
130
131
126
124
128
125
127
121
302
122
123
110
116
114
118
115
117
111
112
113

FIG. 5

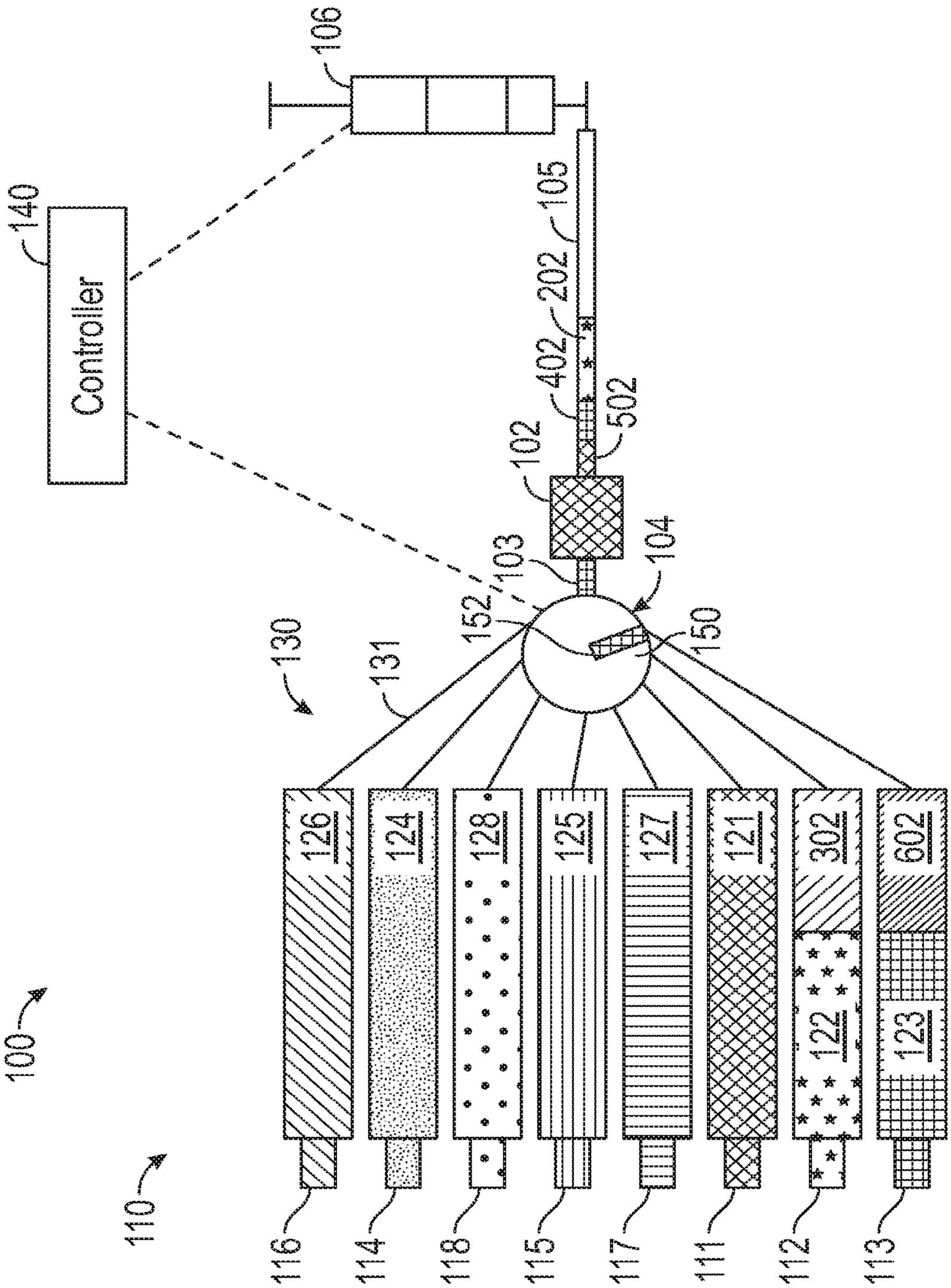

100
10
140
Controller
106
105
202
402
502
102
103
104
152
150
130
131
126
124
128
125
127
121
302
602
122
123
116
114
118
115
117
111
112
113

FIG. 6

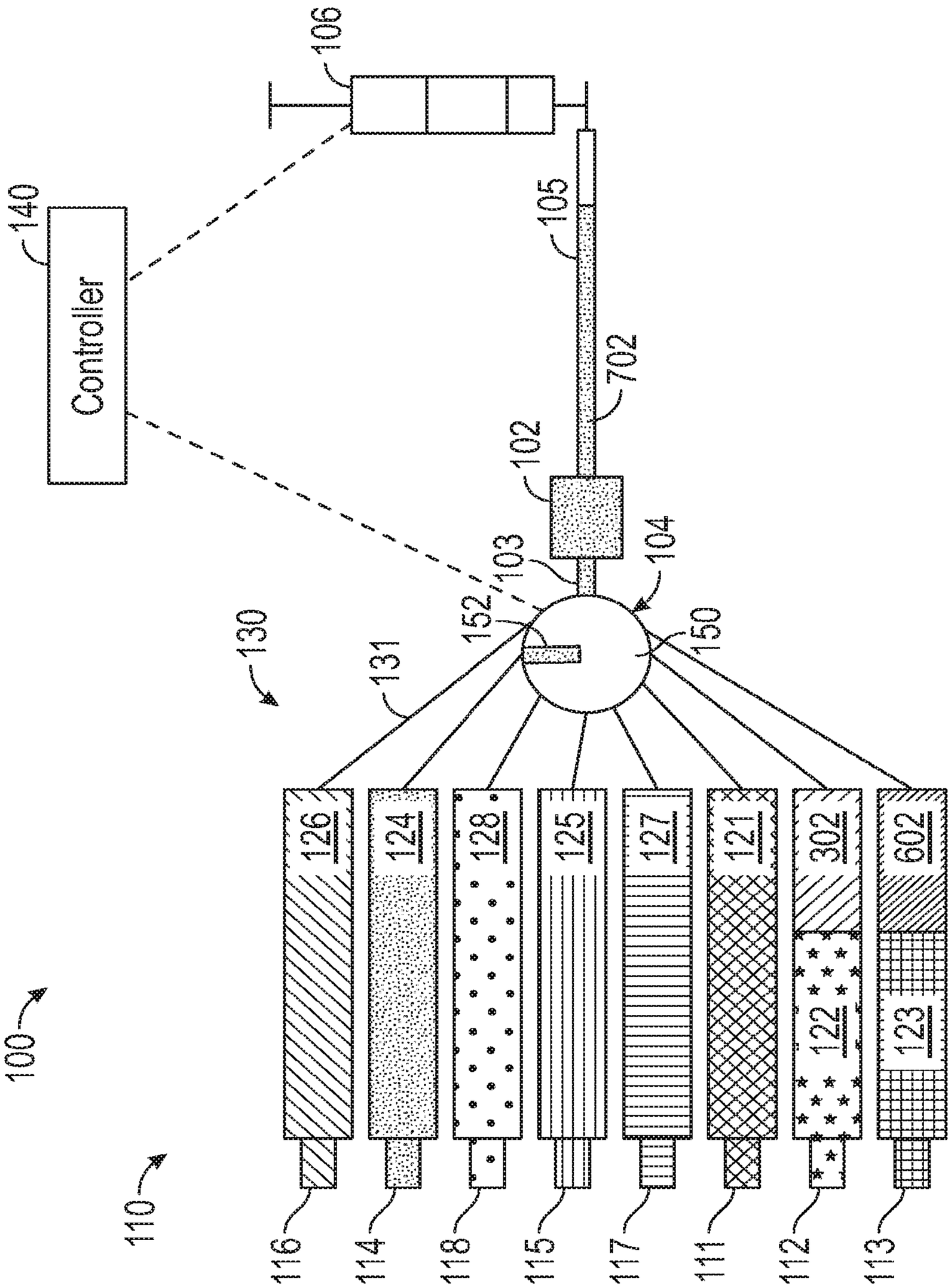

100
10
106
140
Controller
105
702
102
103
104
130
131
152
150
126
124
128
125
127
121
302
122
602
123
116
114
118
115
117
111
112
113

FIG. 7

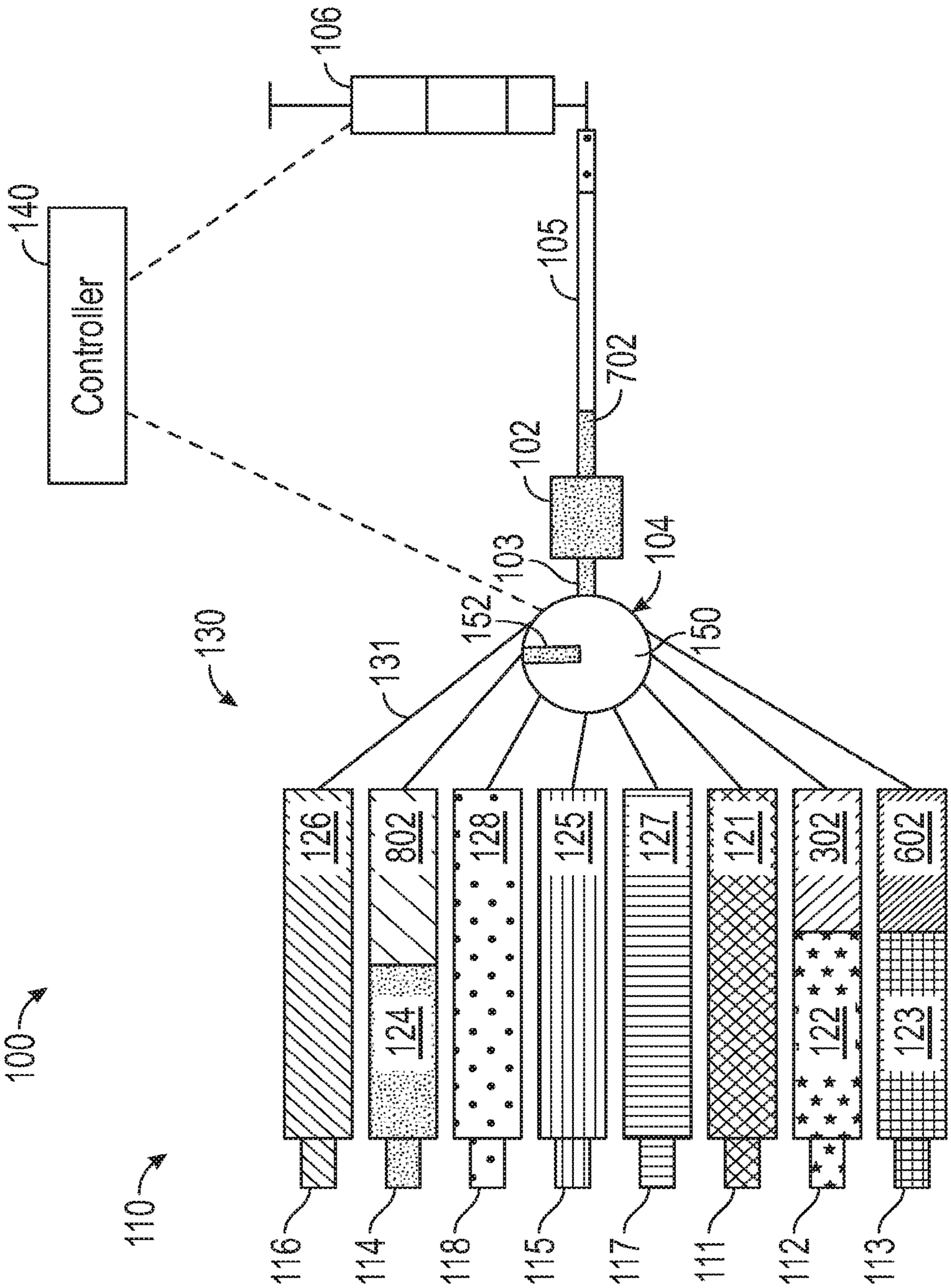

106
140
Controller
105
702
102
103
104
152
110
150
130
131
126
802
124
128
125
127
121
302
122
602
123
100
10
116
114
118
115
117
111
112
113

FIG. 8

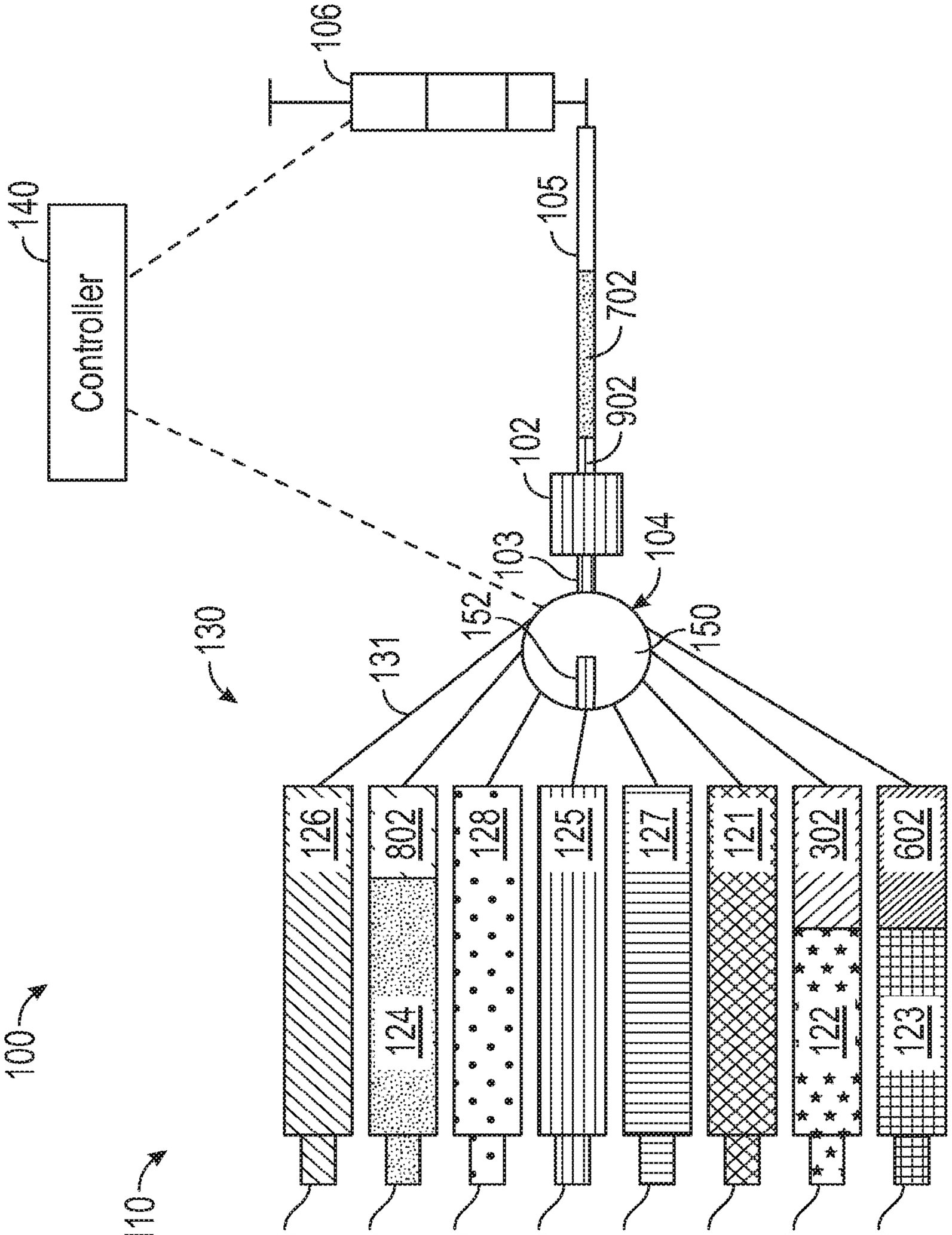

100
10
130
140
Controller
106
105
702
902
102
103
104
2
152
131
150
126
802
124
128
125
127
121
302
122
602
123
116
114
118
115
117
111
112
113

FIG. 9

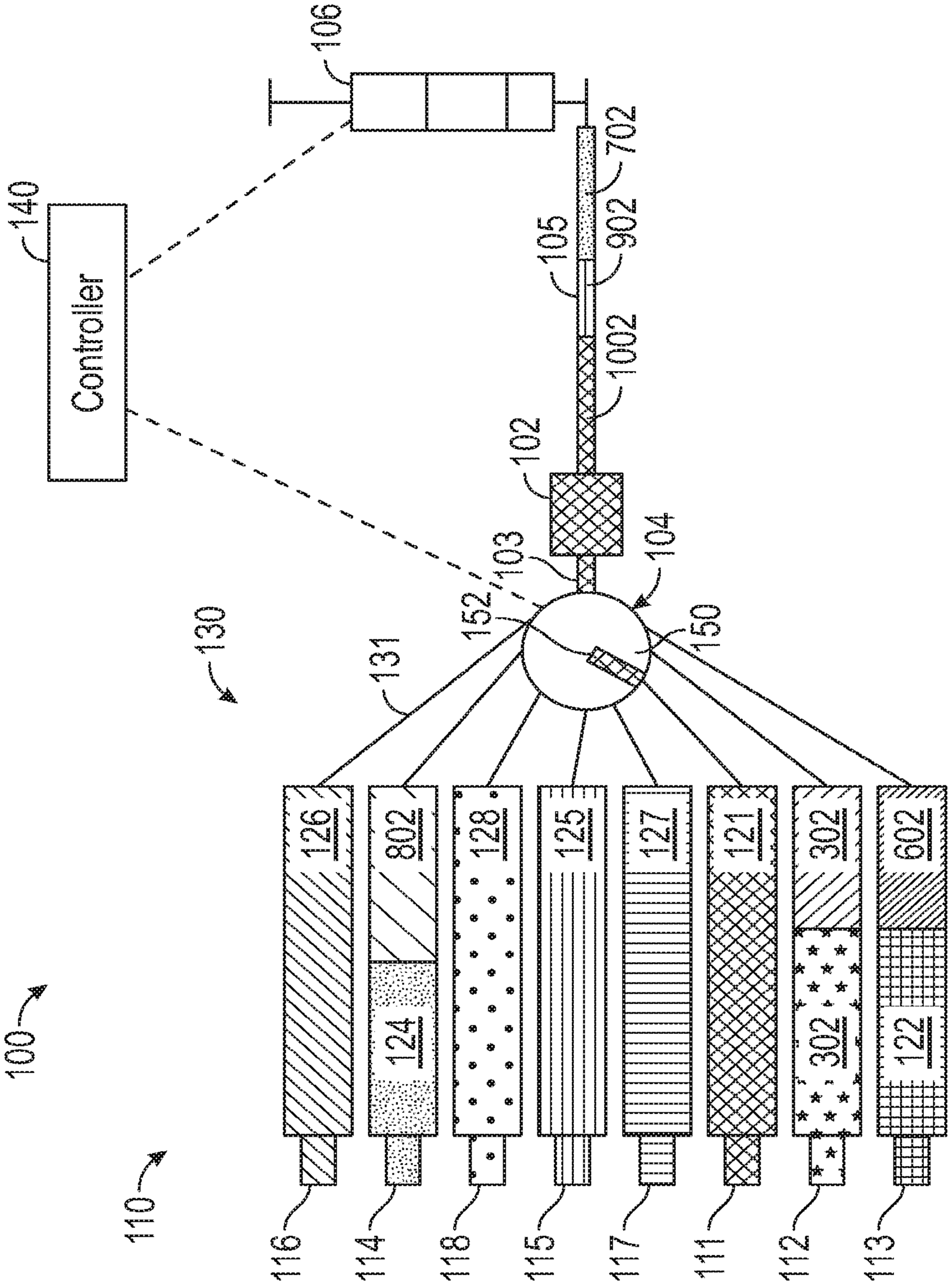

100
10
130
140
Controller
106
702
902
105
1002
102
103
104
152
131
150
126
802
124
128
125
127
121
302
302
602
122
116
114
118
115
117
111
112
113

FIG. 10

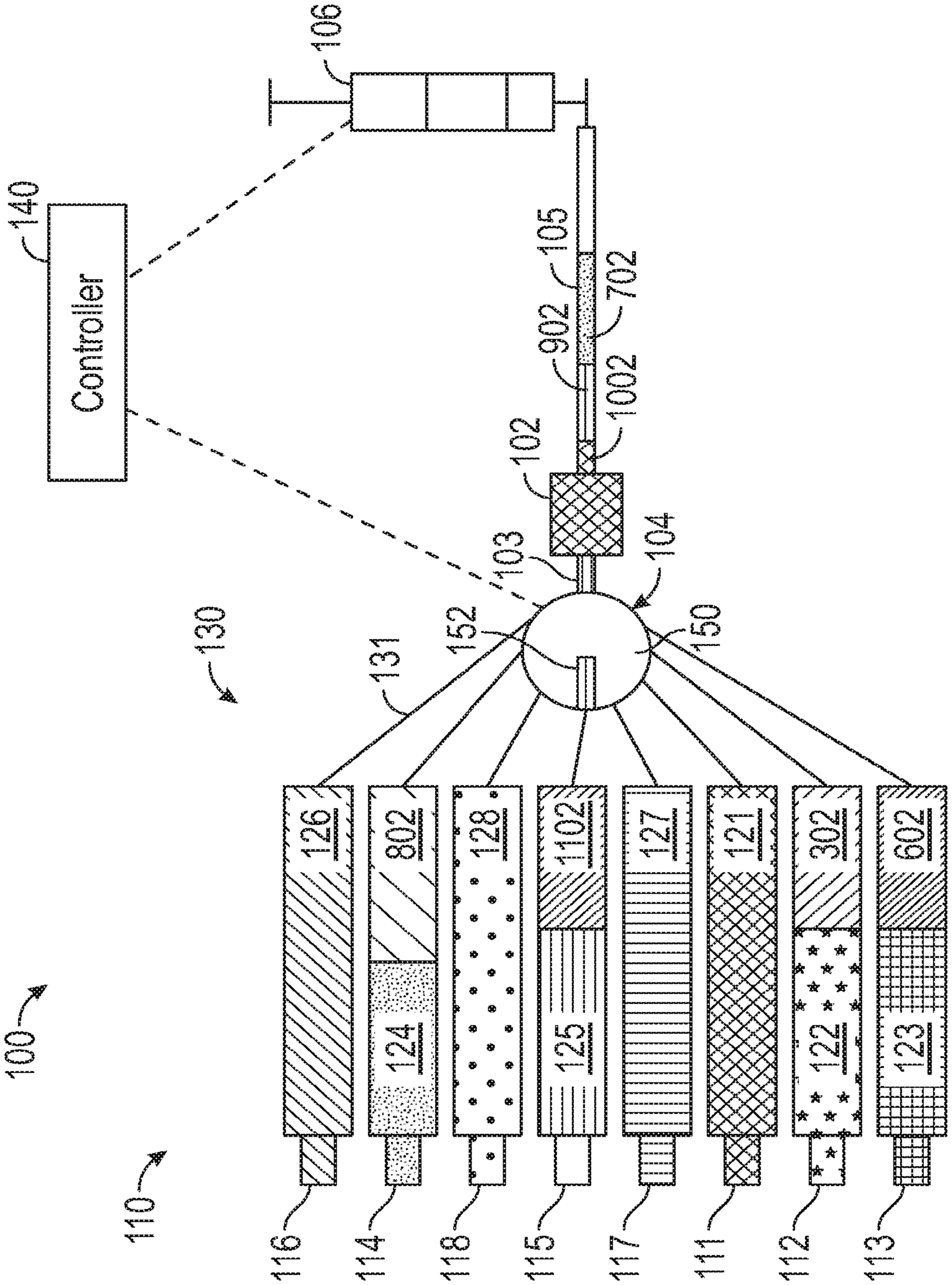

100
10
130
140
Controller
106
105
702
902
1002
102
103
104
152
150
131
126
802
128
1102
127
121
302
602
124
125
122
123
116
114
118
115
117
111
112
113

FIG. 11

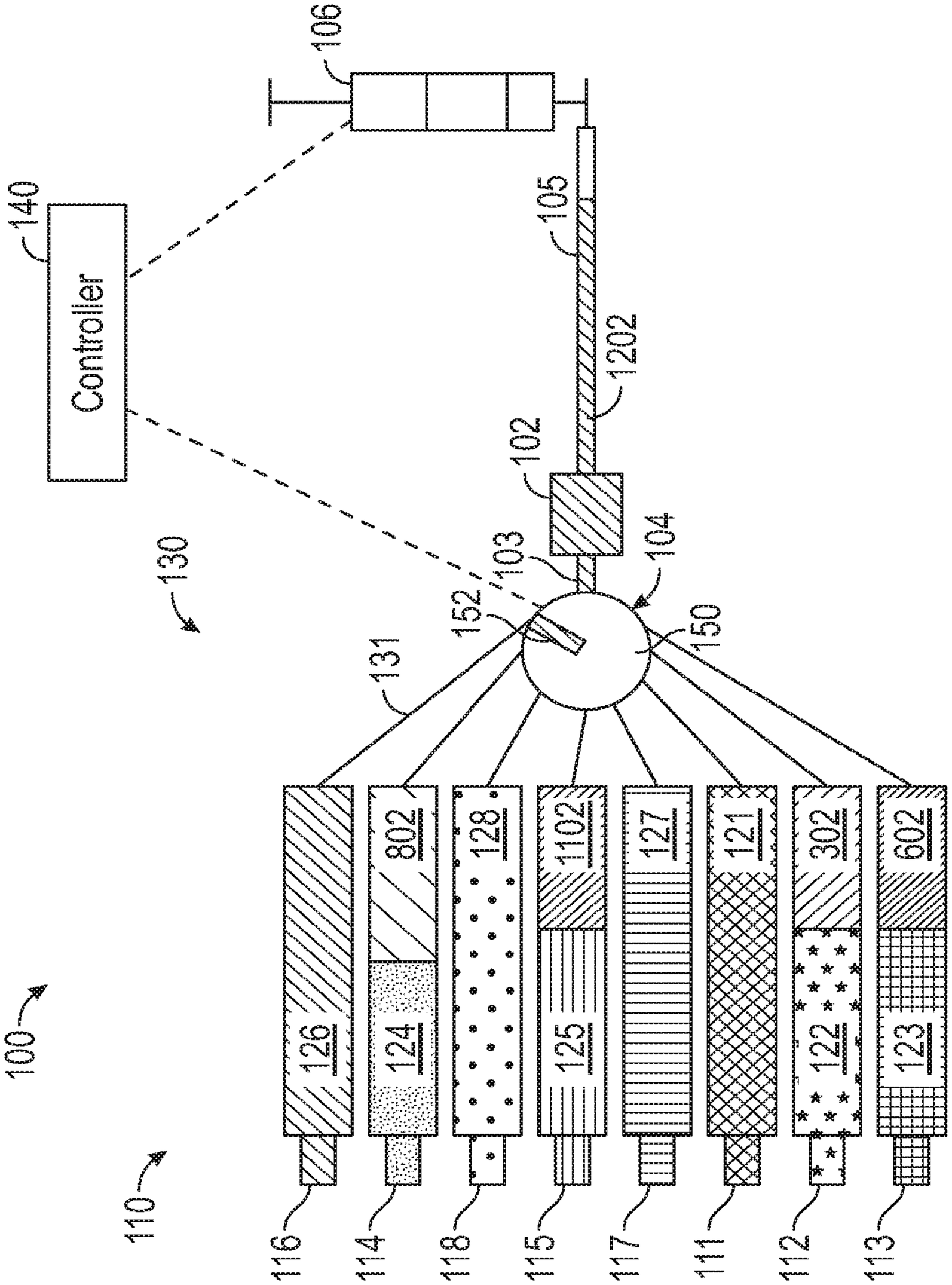

100
10
106
140
Controller
130
105
1202
102
103
104
152
131
150
126
124
802
128
1102
125
127
121
302
122
602
123
116
114
118
115
117
111
112
113

FIG. 12

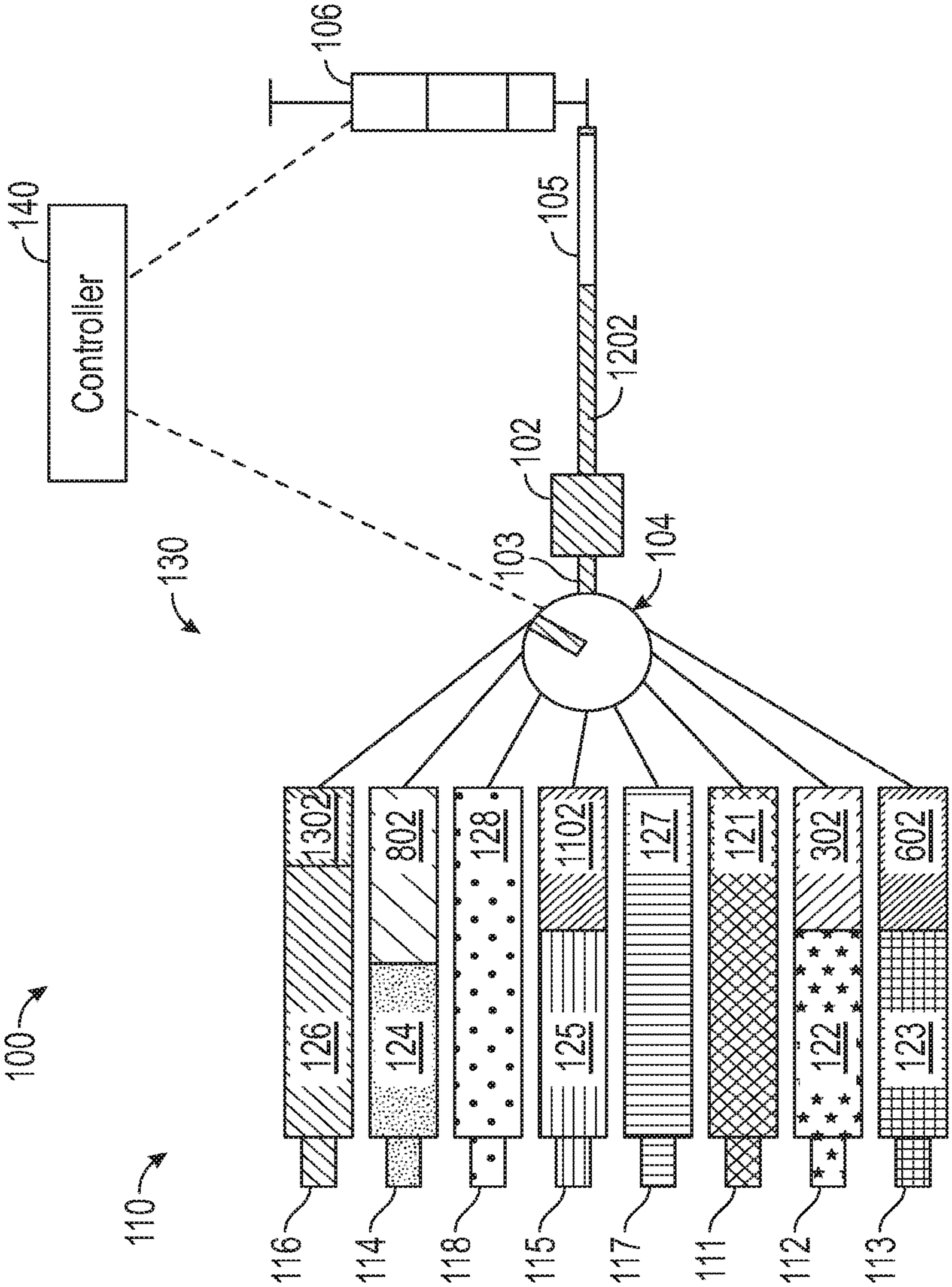

100
10
106
140
Controller
105
1202
102
103
104
130
126
124
128
1102
127
121
302
602
1302
802
125
122
123
116
114
118
115
117
111
112
113

FIG. 13

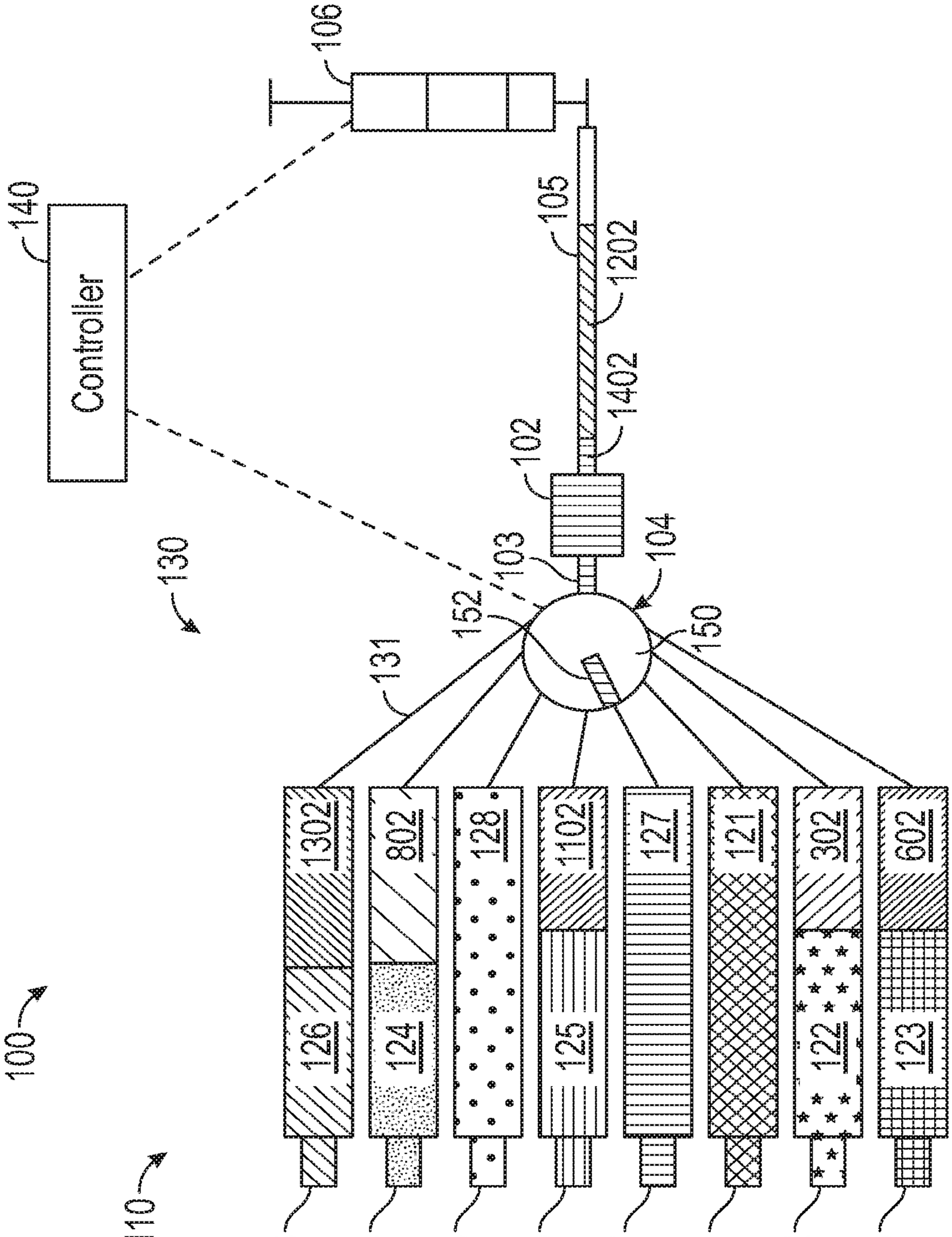

100
10
130
140
Controller
106
105
1202
1402
102
103
104
152
131
150
1302
802
128
1102
127
121
302
602
126
124
125
122
123
116
114
118
115
117
111
112
113

FIG. 14

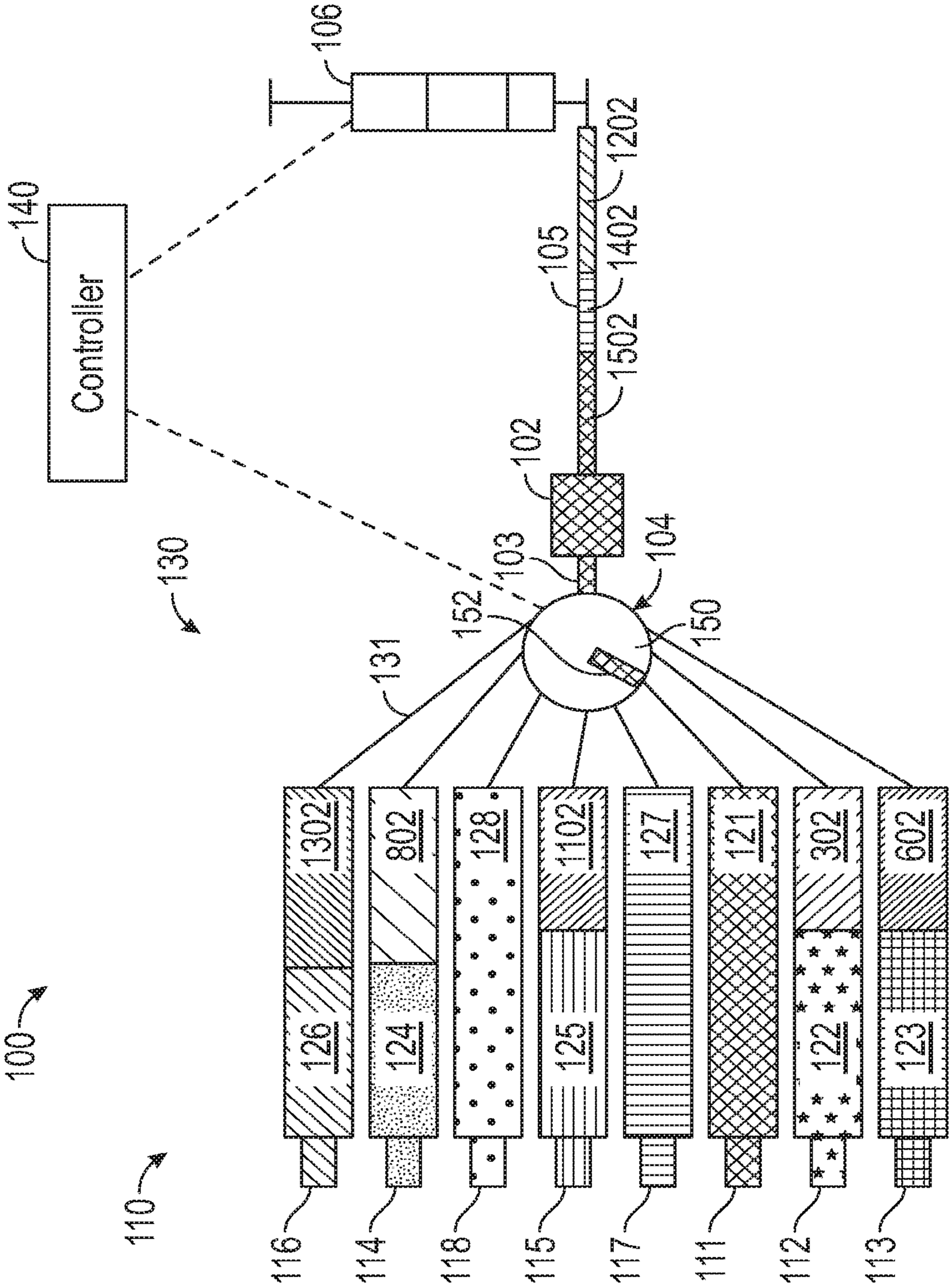

100
10
106
140
Controller
130
105
1202
1402
1502
102
103
104
152
131
150
1302
802
128
1102
127
121
302
602
126
124
125
122
123
116
114
118
115
117
111
112
113

FIG. 15

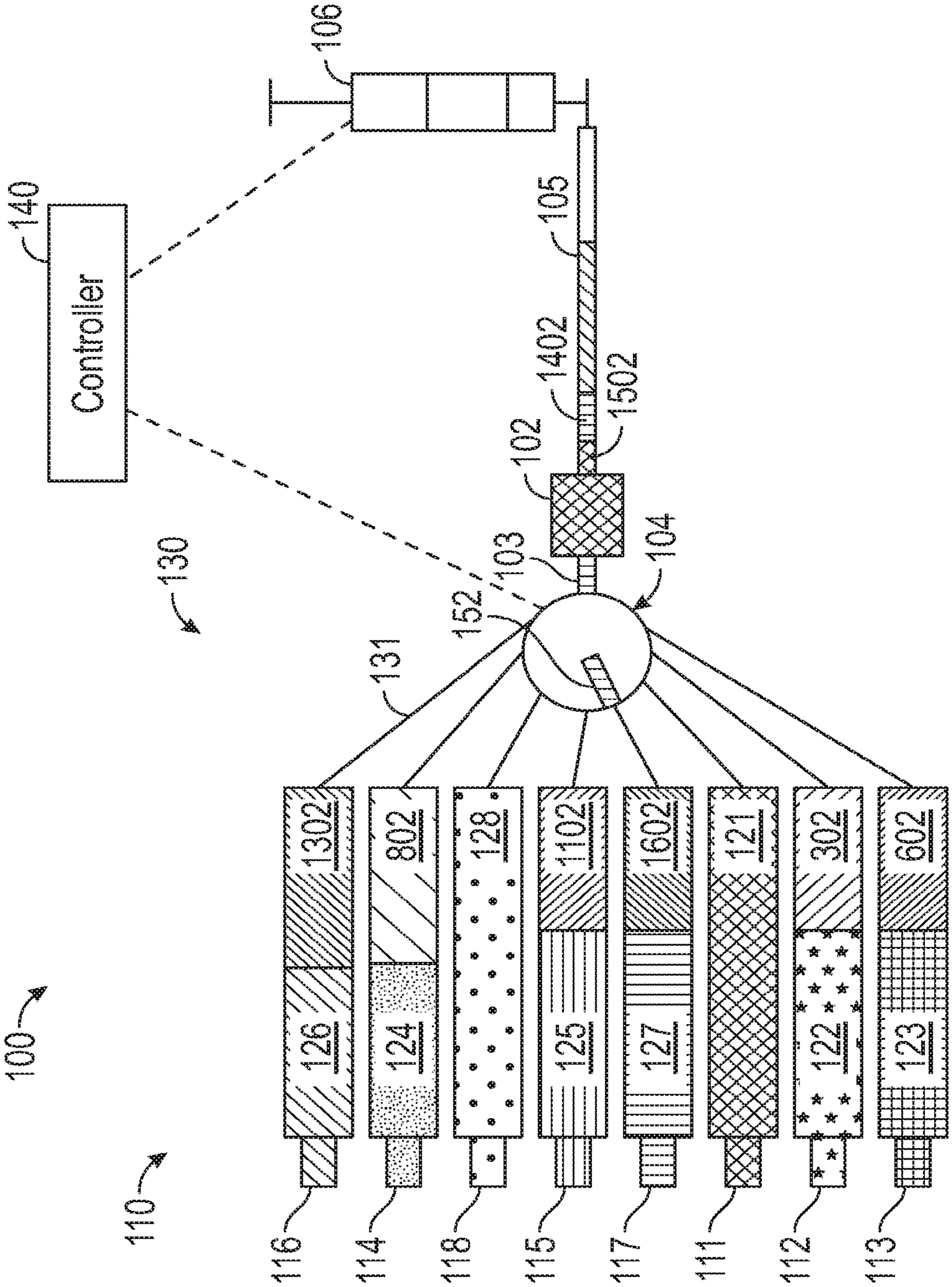

106
140
Controller
105
1402
1502
102
103
104
130
152
131
1302
802
128
1102
1602
121
302
602
126
124
125
127
122
123
100
10
116
114
118
115
117
111
112
113

FIG. 16

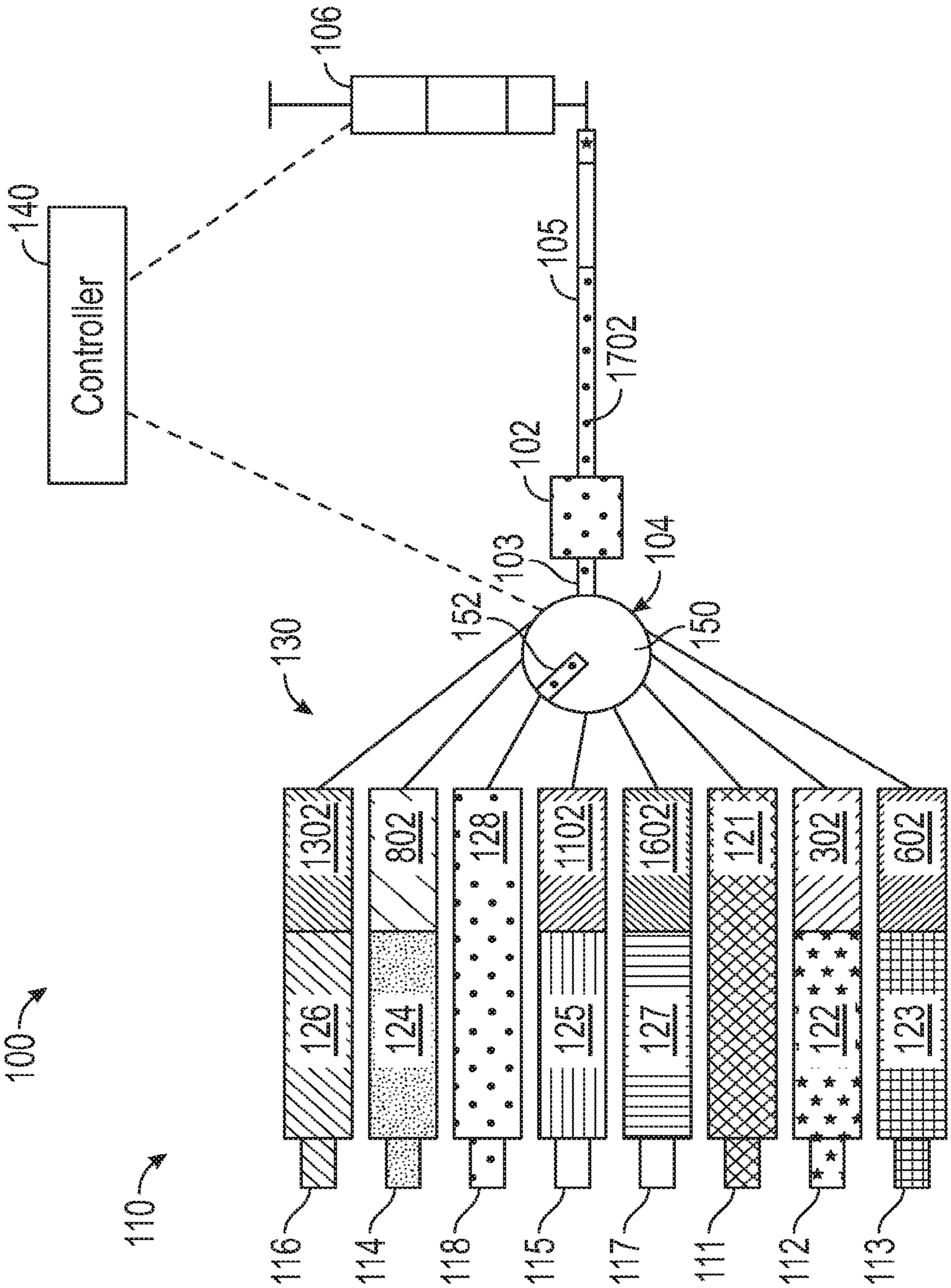

100
10
106
140
Controller
105
1702
102
103
104
152
130
150
126
1302
124
802
128
125
1102
127
1602
121
122
302
123
602
116
114
118
115
117
111
112
113

FIG. 17

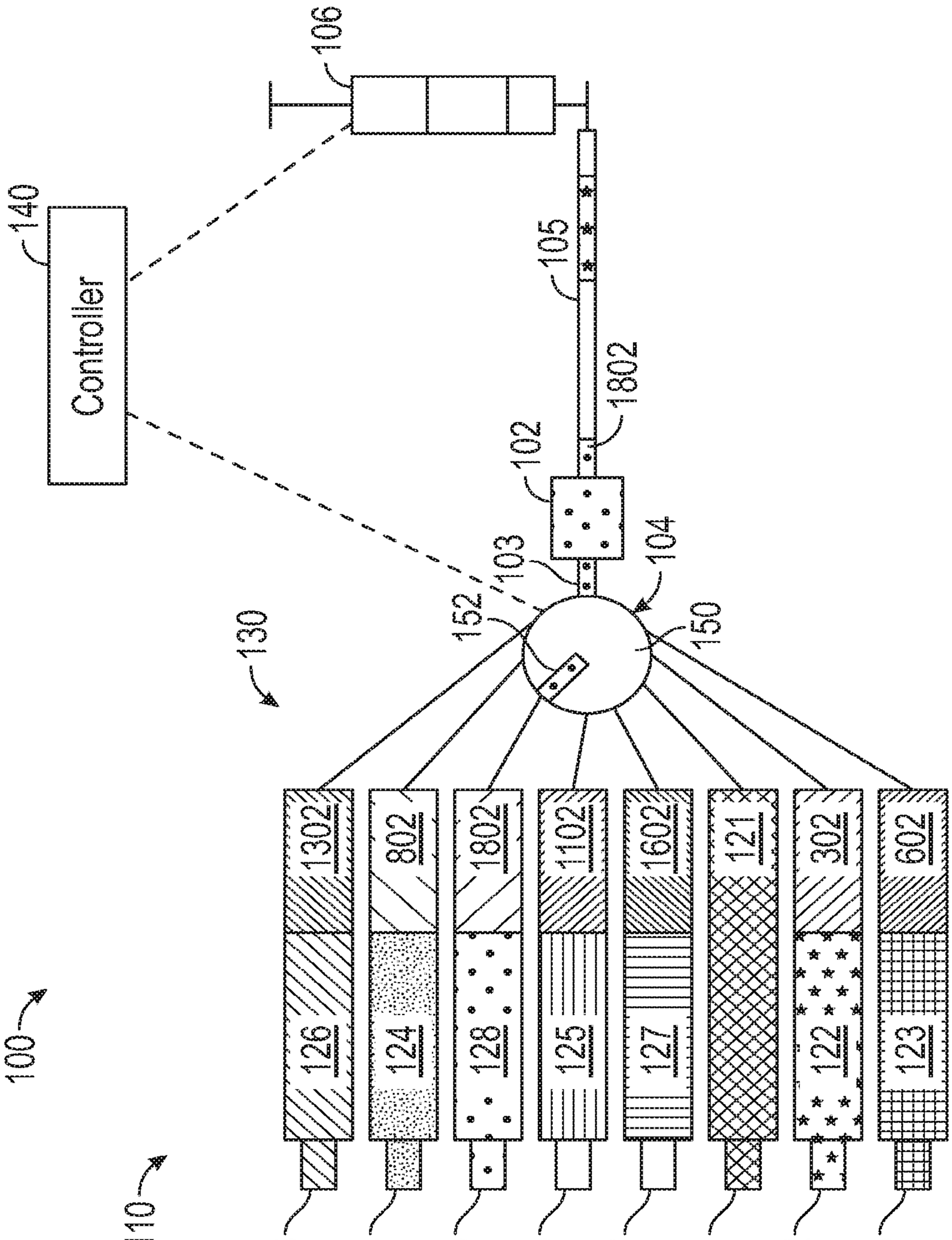

100
10
130
140
Controller
106
105
1802
102
103
104
152
150
1302
802
1802
1102
1602
121
302
602
126
124
128
125
127
122
123
116
114
118
115
117
111
112
113

FIG. 18

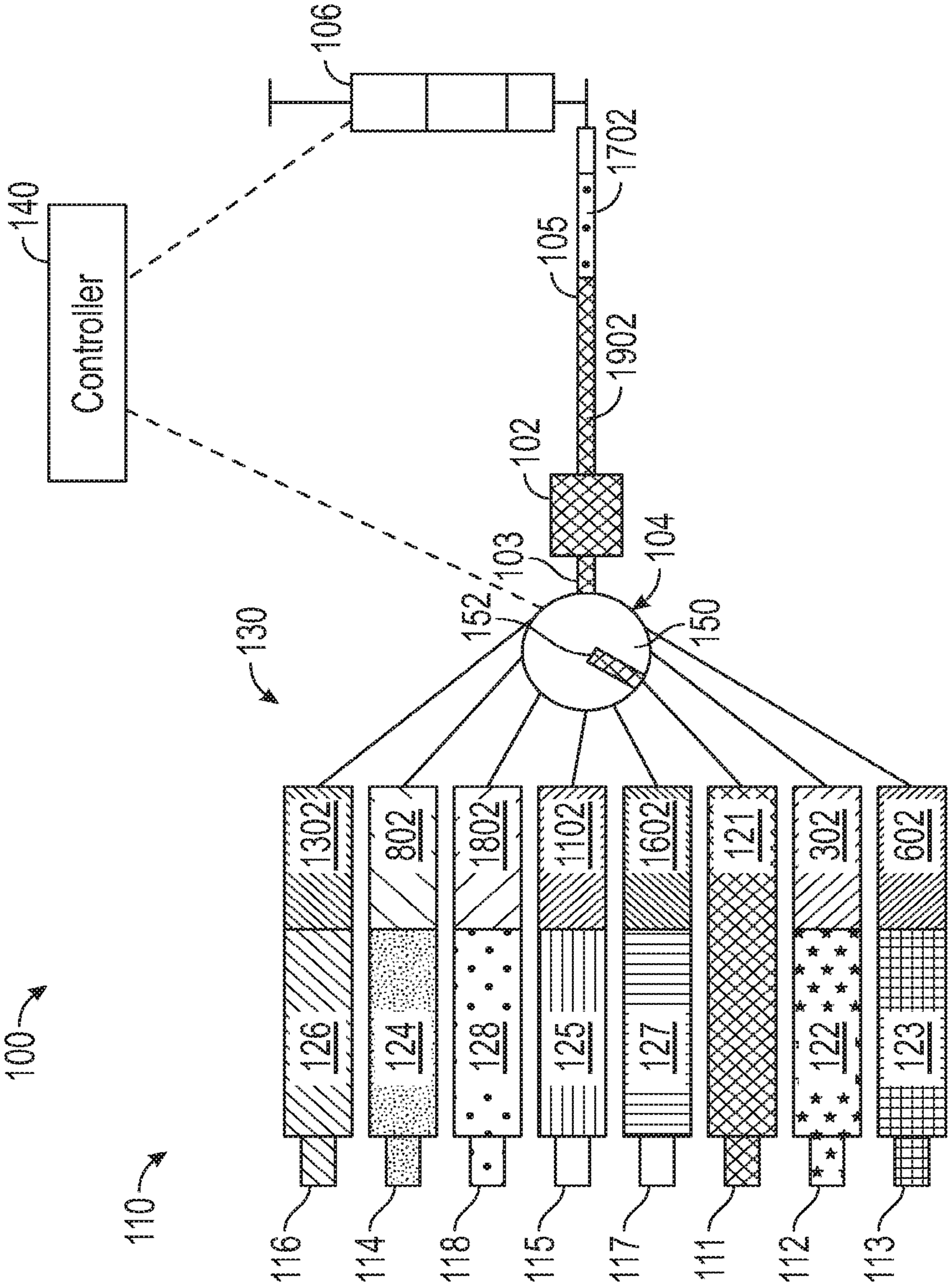

100
10
106
140
Controller
1702
105
1902
102
103
104
152
150
130
1302
802
1802
1102
1602
121
302
602
126
124
128
125
127
122
123
116
114
118
115
117
111
112
113

FIG. 19

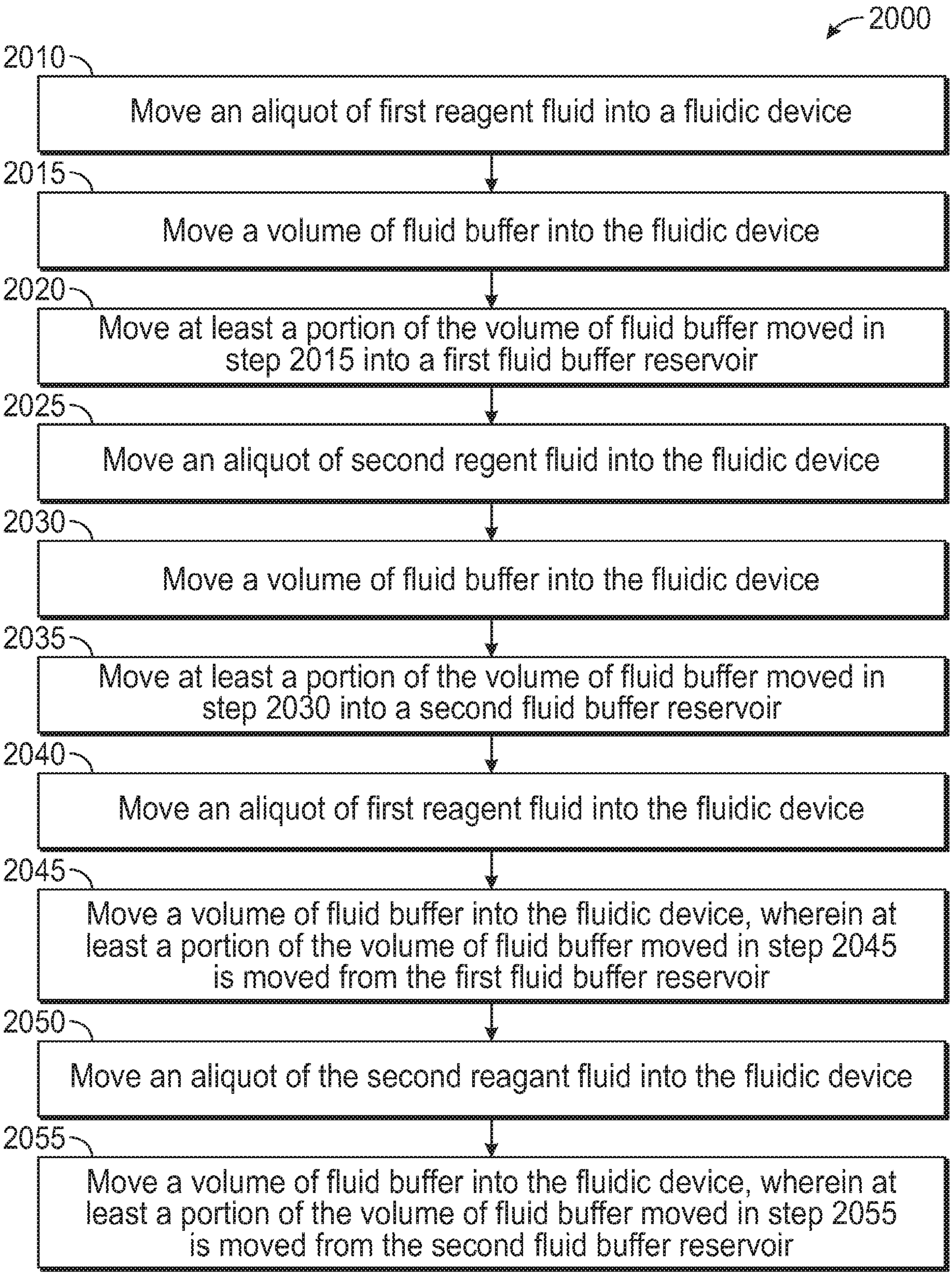

2000
2010
Move an aliquot of first reagent fluid into a fluidic device
2015
Move a volume of fluid buffer into the fluidic device
2020
Move at least a portion of the volume of fluid buffer moved in step 2015 into a first fluid buffer reservoir
2025
Move an aliquot of second regent fluid into the fluidic device
2030
Move a volume of fluid buffer into the fluidic device
2035
Move at least a portion of the volume of fluid buffer moved in step 2030 into a second fluid buffer reservoir
2040
Move an aliquot of first reagent fluid into the fluidic device
2045
Move a volume of fluid buffer into the fluidic device, wherein at least a portion of the volume of fluid buffer moved in step 2045 is moved from the first fluid buffer reservoir
2050
Move an aliquot of the second reagant fluid into the fluidic device
2055
Move a volume of fluid buffer into the fluidic device, wherein at least a portion of the volume of fluid buffer moved in step 2055 is moved from the second fluid buffer reservoir

FIG. 20

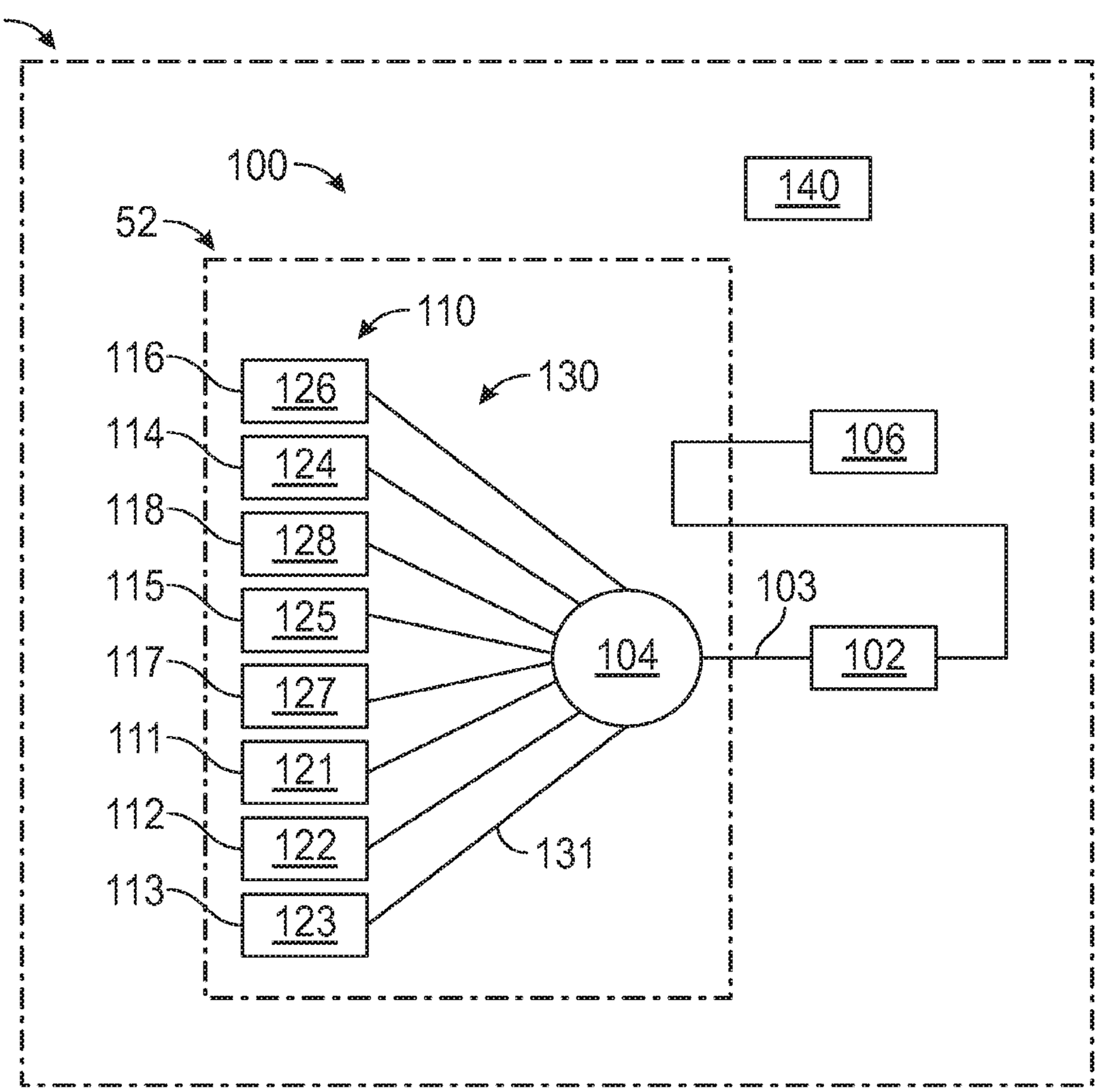

50
100
52
140
110
130
116
126
114
124
118
128
115
125
117
127
111
121
112
122
113
123
106
103
104
102
131

FIG. 21