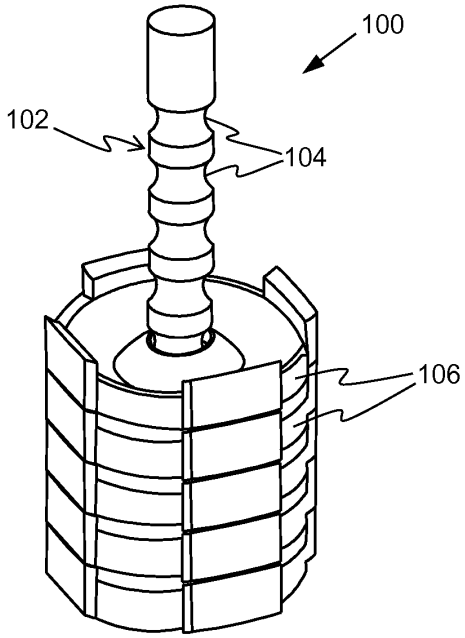

100
102
104
106

FIG. 1

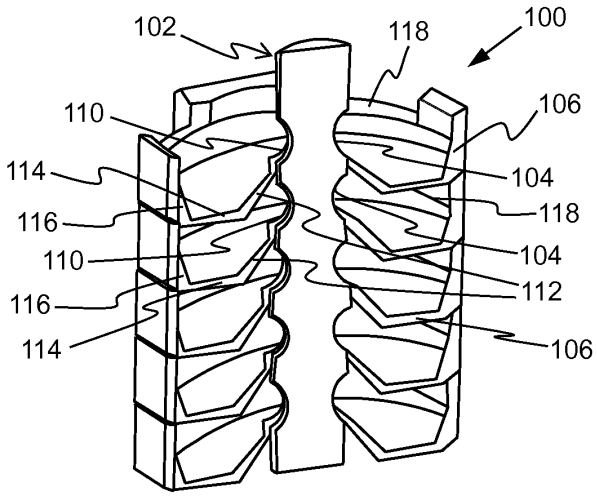

102
118
100
110
106
114
104
116
118
110
104
112
116
114
106

FIG. 2

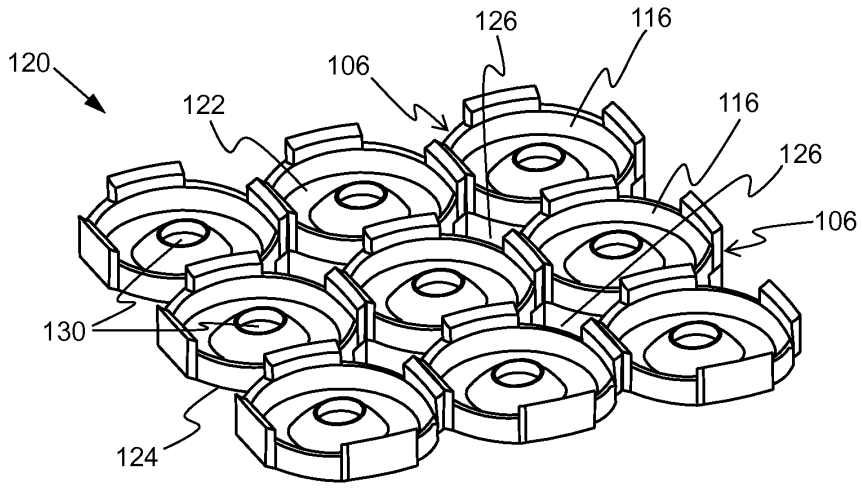

120
122
106
126
116
116
126
106
130
124

FIG. 3

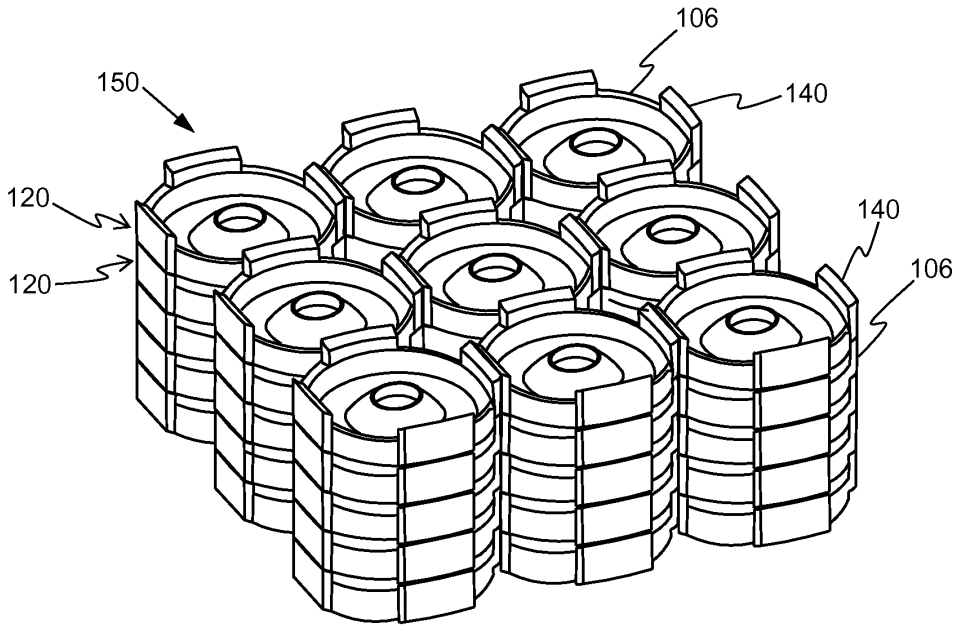

150
106
140
120
120
140
106

FIG. 4

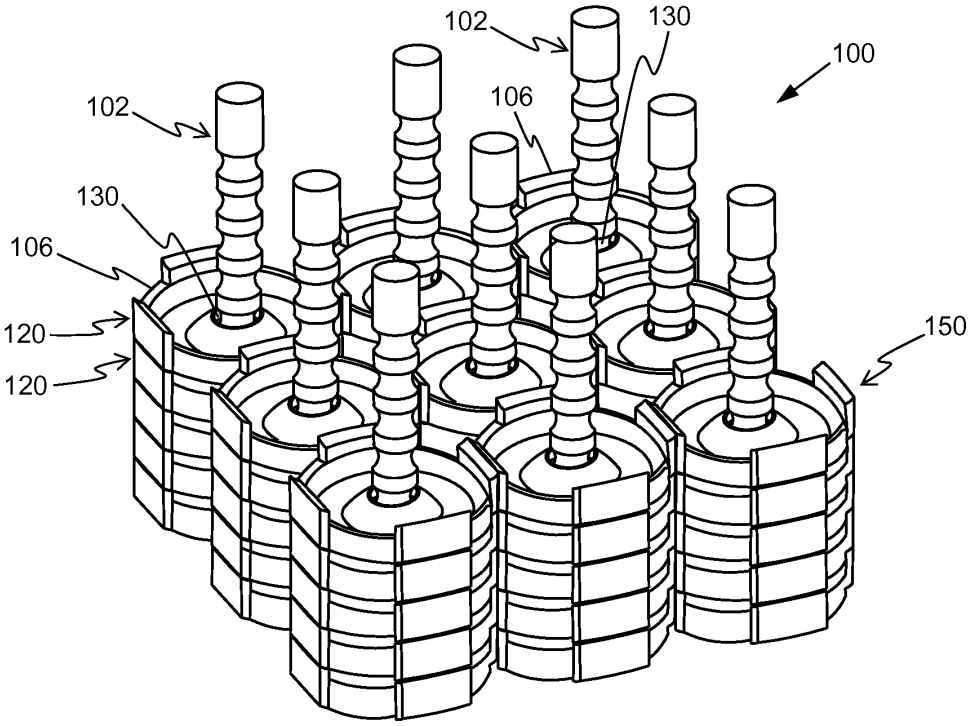


FIG. 5

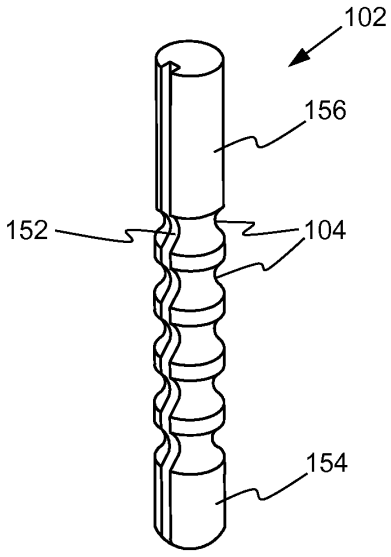


FIG. 6

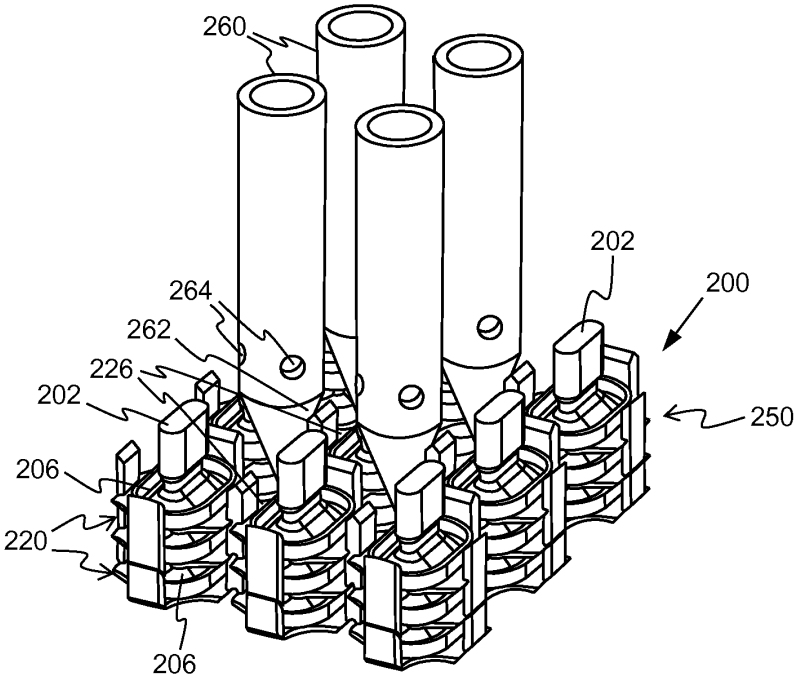

260
202
200
264
262
226
202
250
206
220
206

FIG. 7

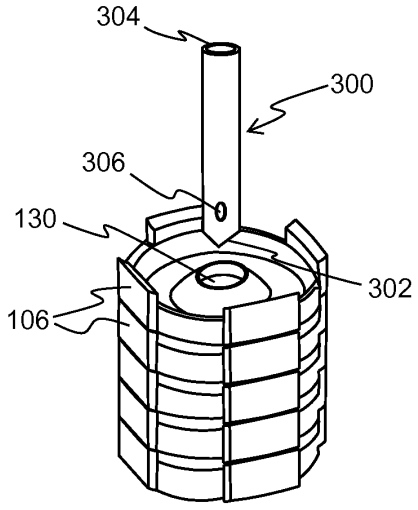

304
300
306
130
302
106

FIG. 8

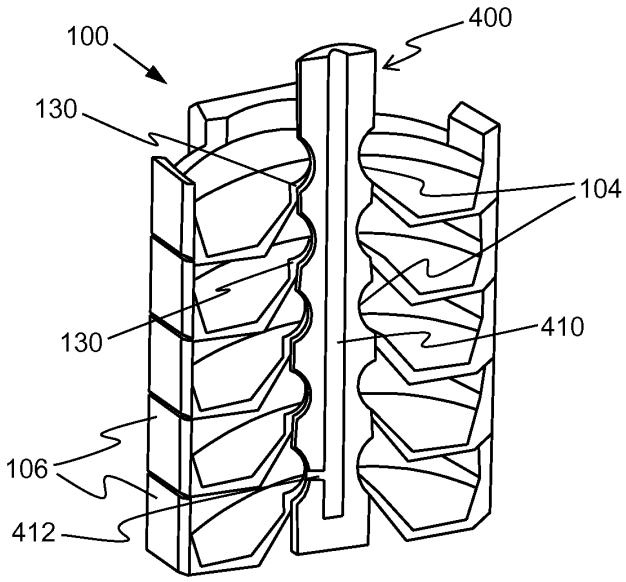


FIG. 9

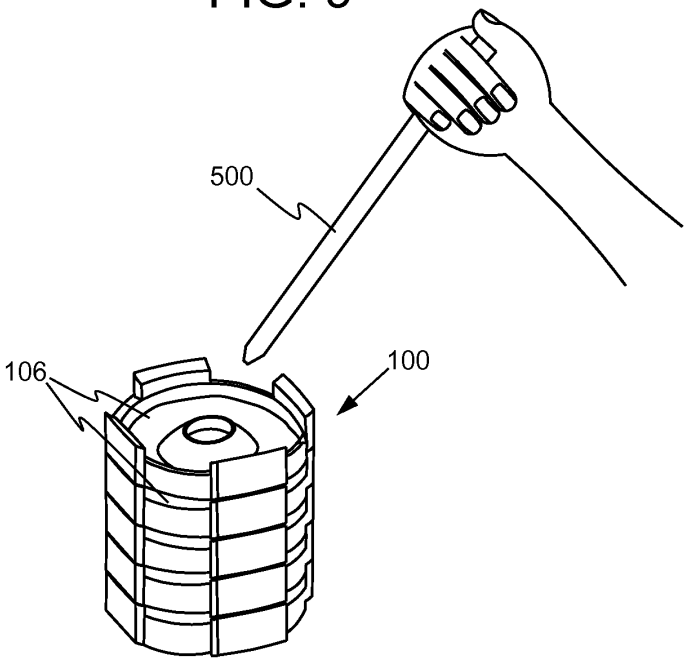


FIG. 10

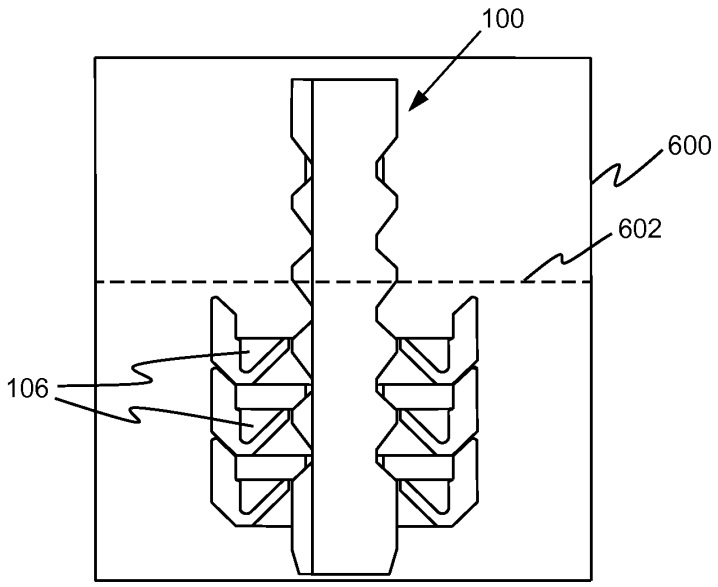


FIG. 11

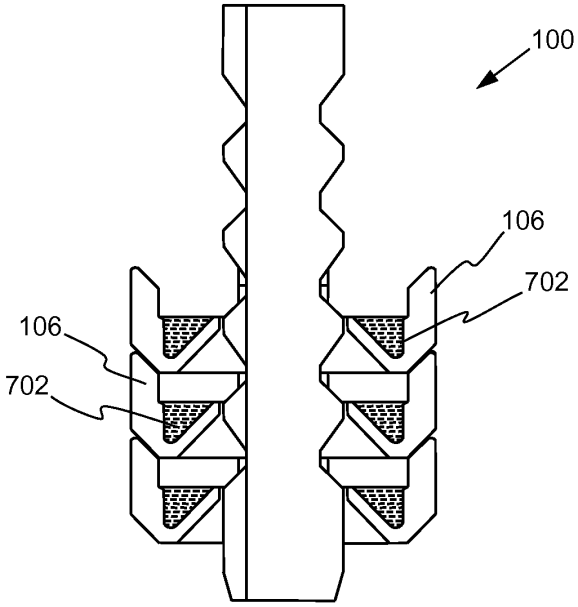


FIG. 12

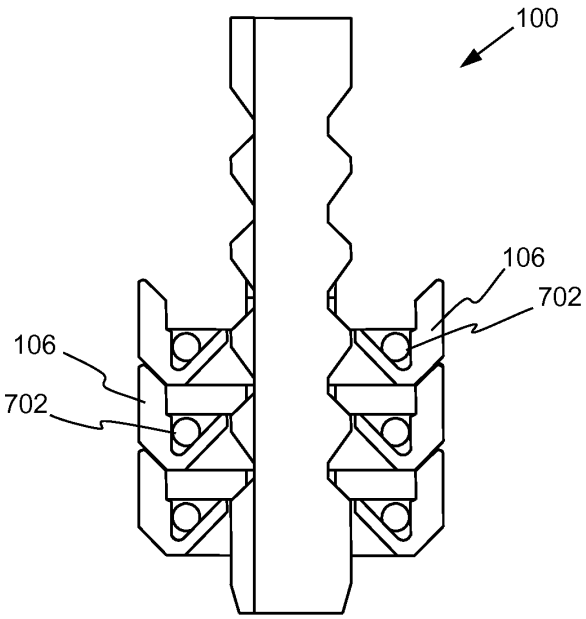


FIG. 13

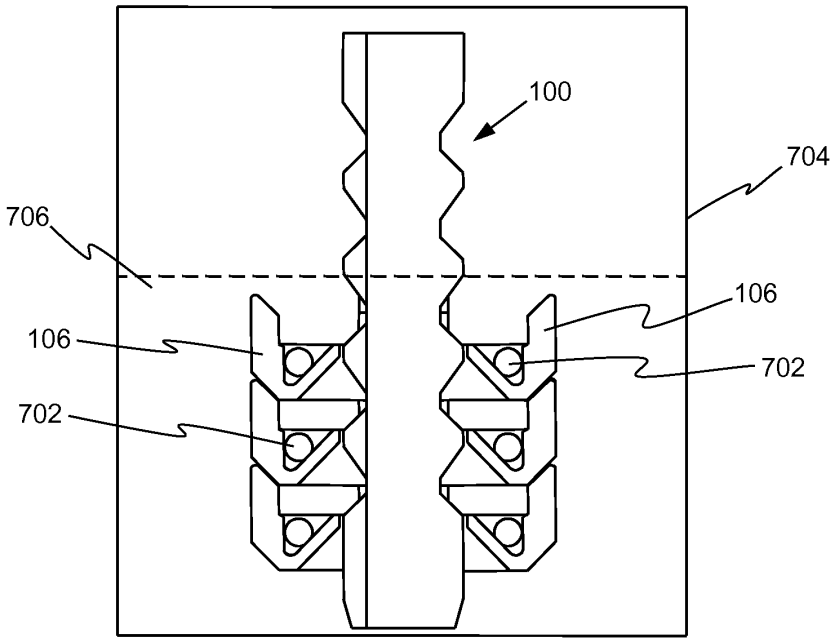


FIG. 14

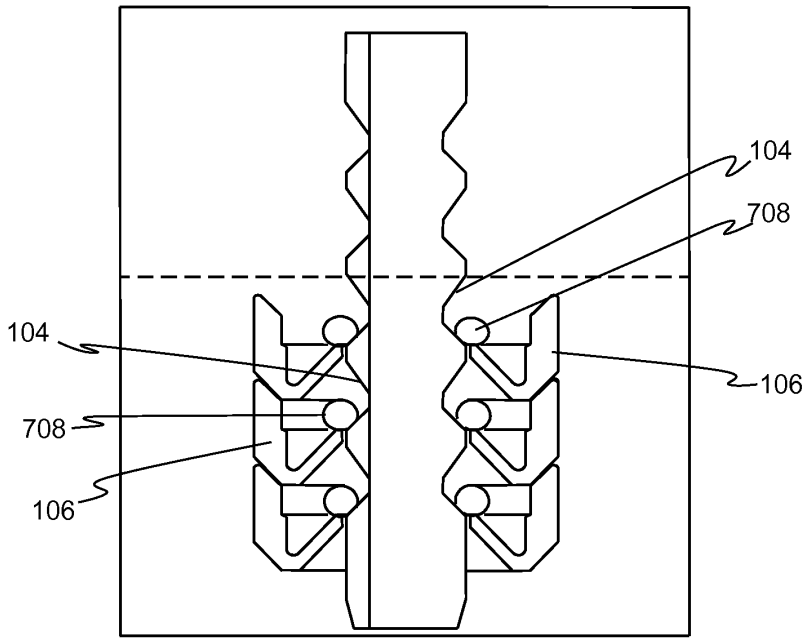


FIG. 15

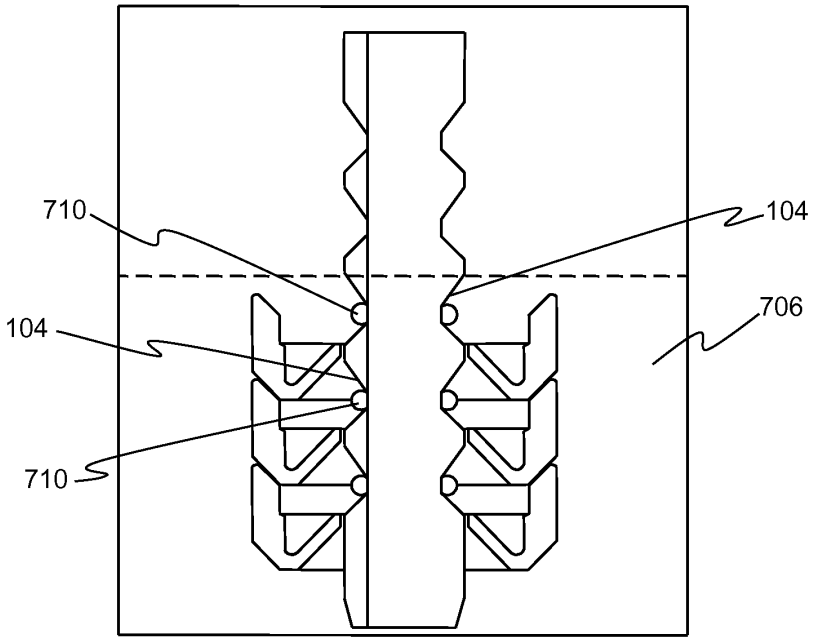


FIG. 16

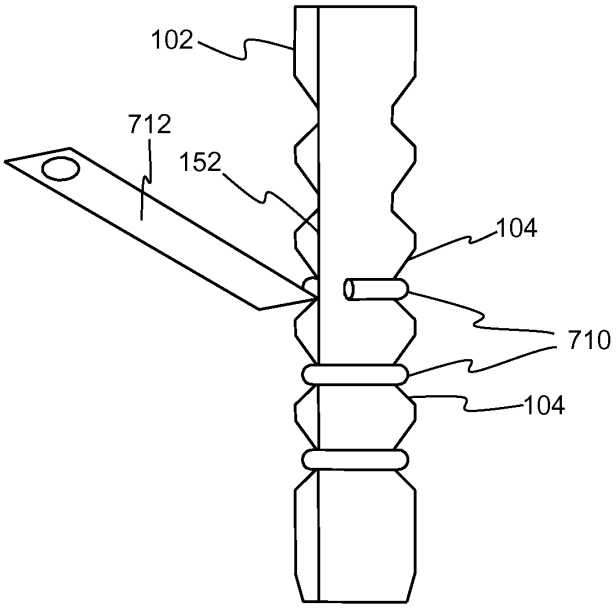


FIG. 17

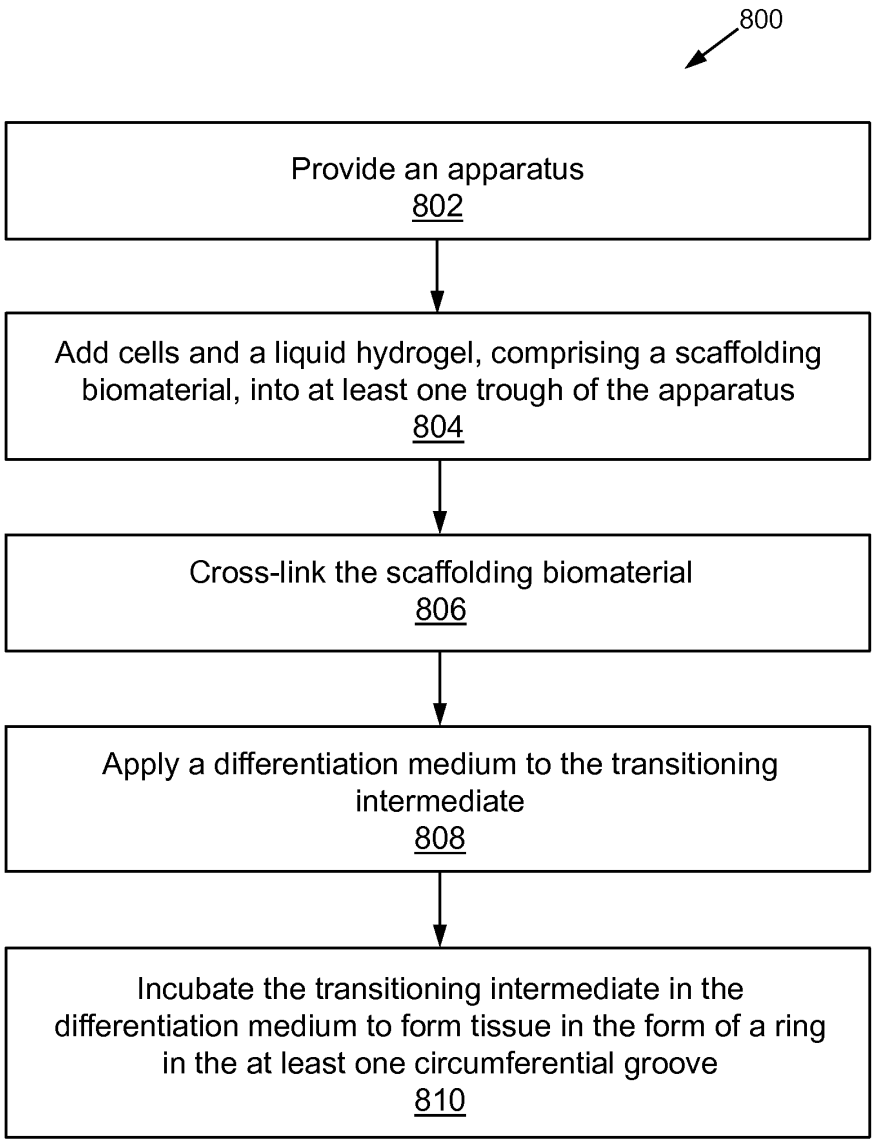

800
Provide an apparatus
802
Add cells and a liquid hydrogel, comprising a scaffolding biomaterial, into at least one trough of the apparatus
804
Cross-link the scaffolding biomaterial
806
Apply a differentiation medium to the transitioning intermediate
808
Incubate the transitioning intermediate in the differentiation medium to form tissue in the form of a ring in the at least one circumferential groove
810

FIG. 18