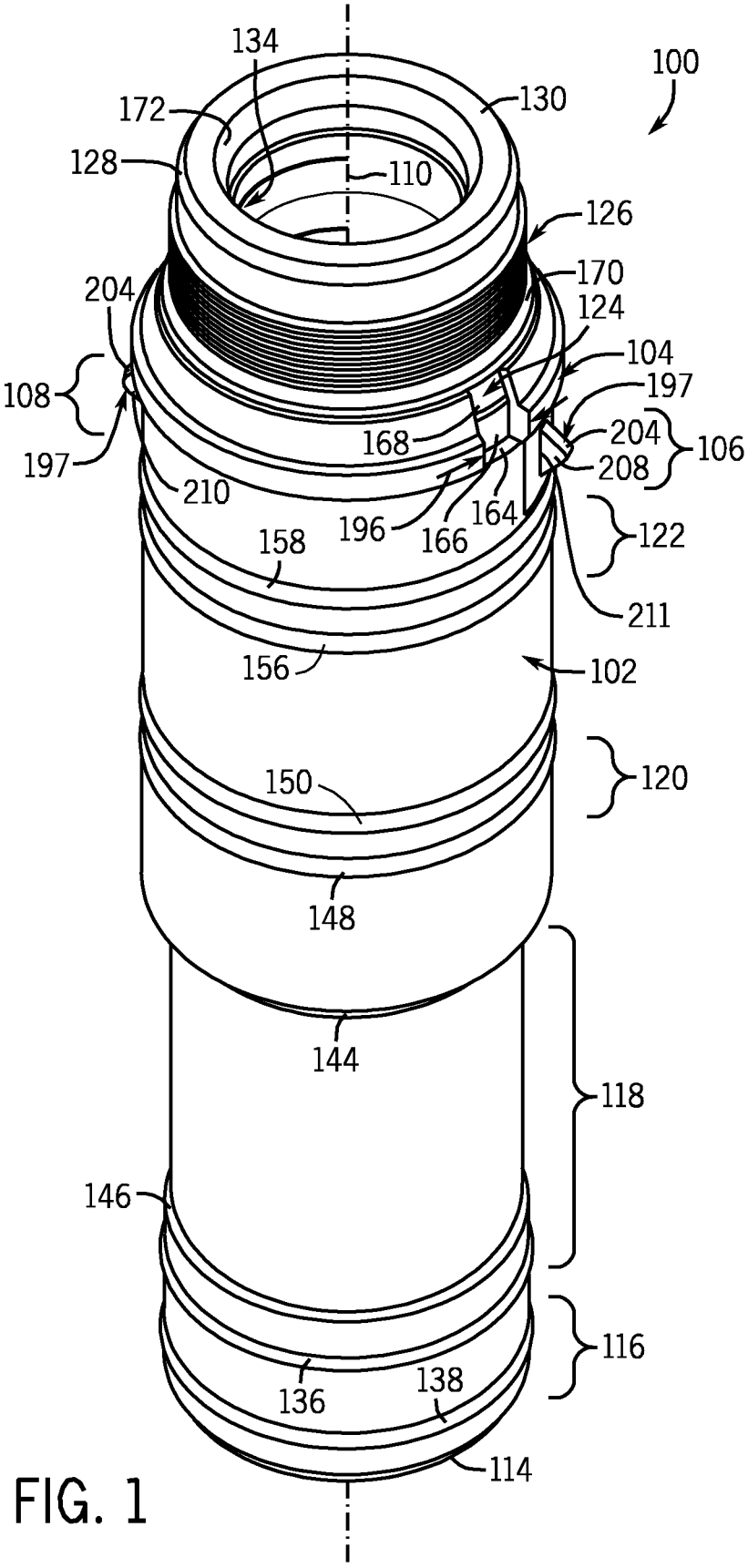

134
100
172
130
128
110
126
170
204
124
104
108
197
168
204
106
197
208
210
196
166
164
122
158
211
156
102
120
150
148
144
118
146
116
136
138
114

FIG. 1

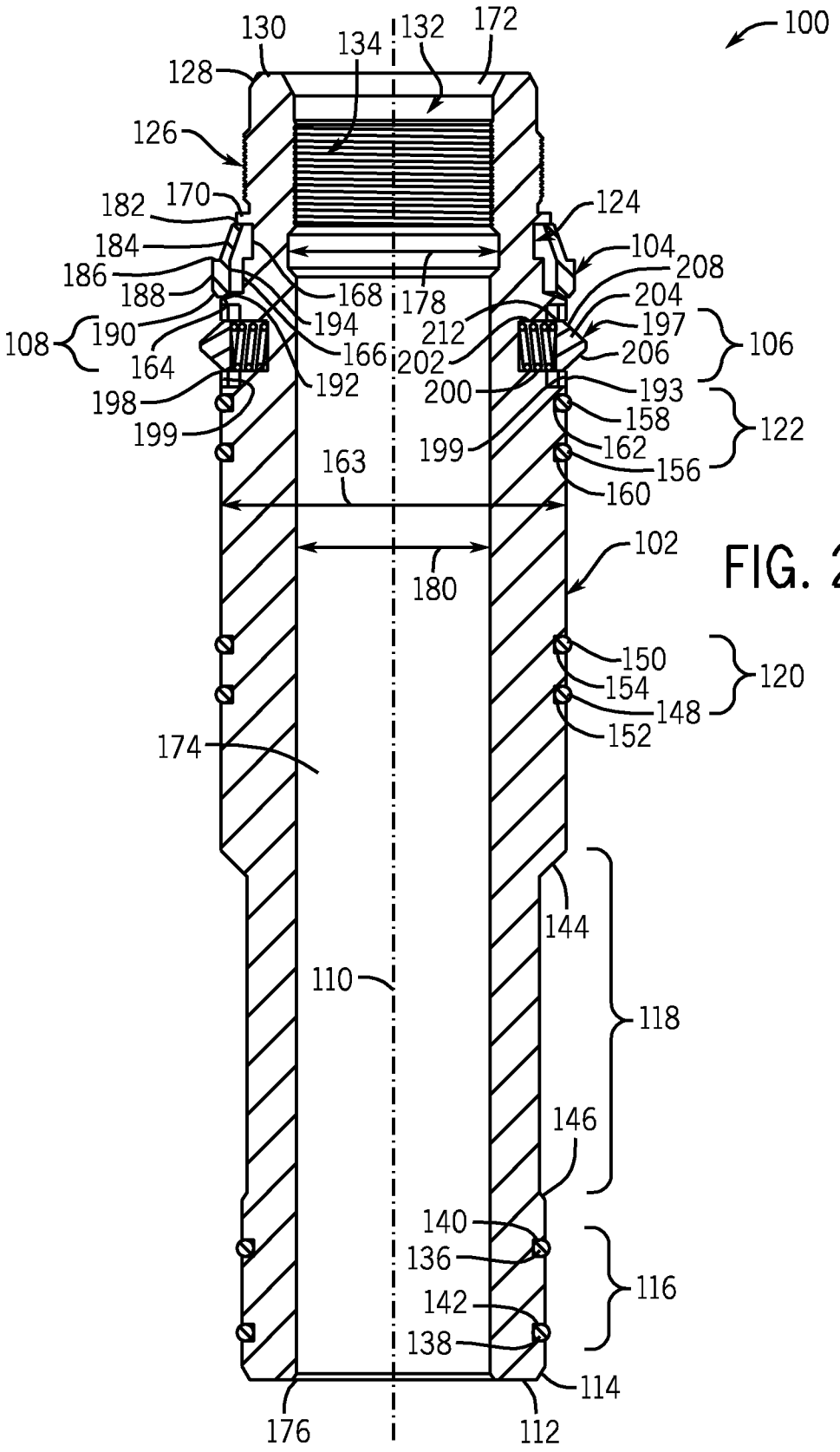

100
130
134
132
172
128
126
182
170
124
184
104
208
186
188
168
178
204
108
190
194
212
197
106
164
166
202
206
198
192
200
193
199
158
122
163
199
162
156
160
102
180
150
120
154
148
174
152
144
110
118
146
140
136
116
142
138
114
176
112

FIG. 2

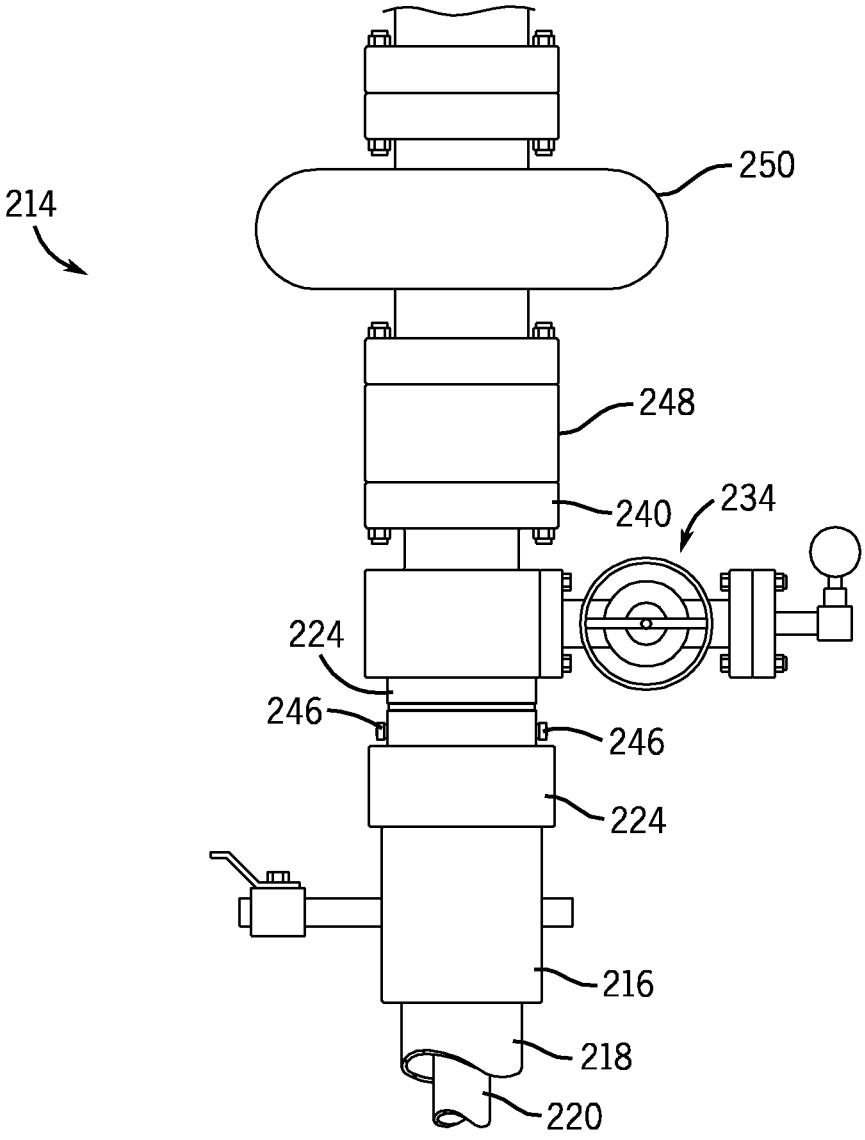


FIG. 3

FIG. 4

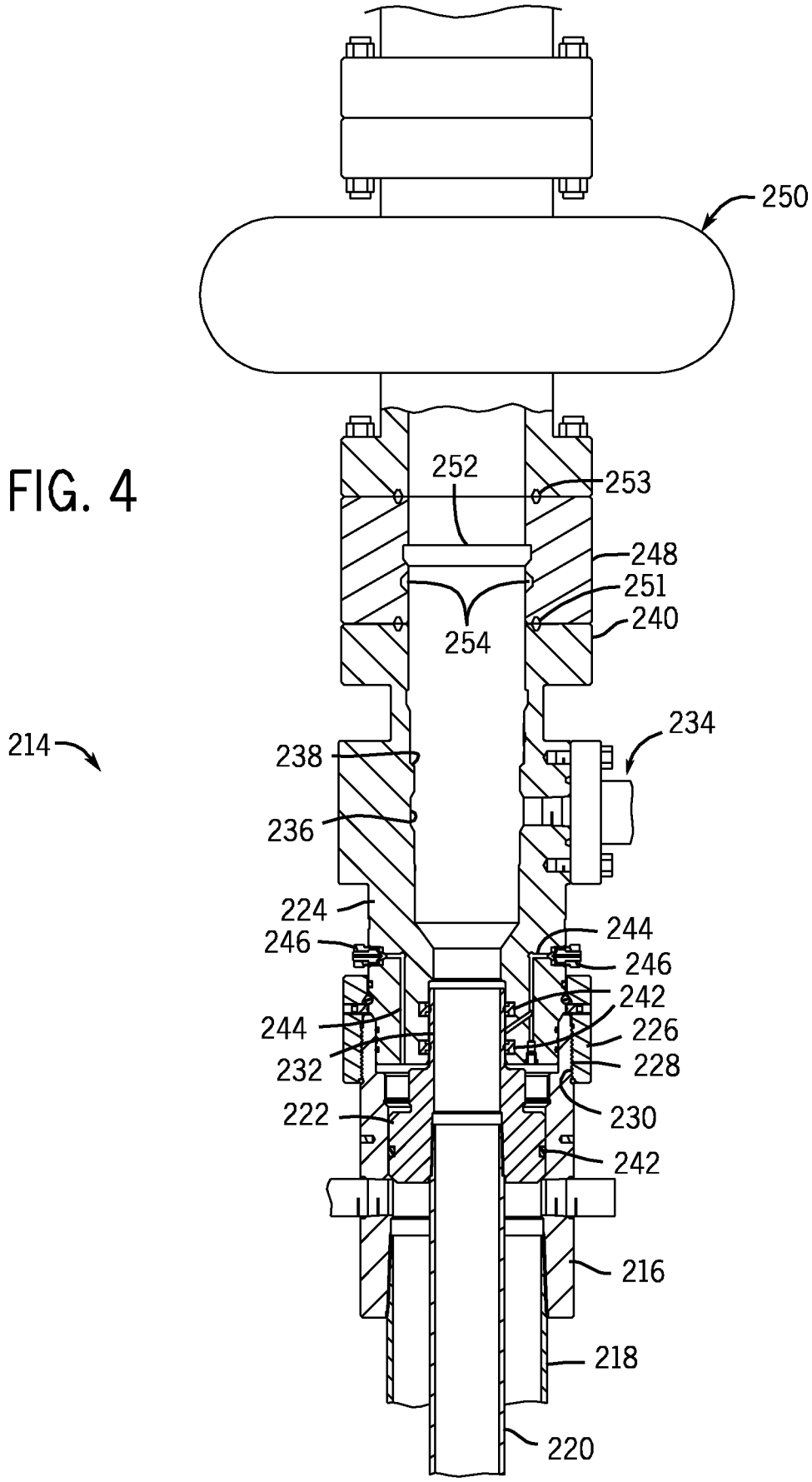

250
252
253
248
251
240
254
214
234
238
236
224
246
244
246
242
244
226
232
228
222
230
242
216
218
220

FIG. 5

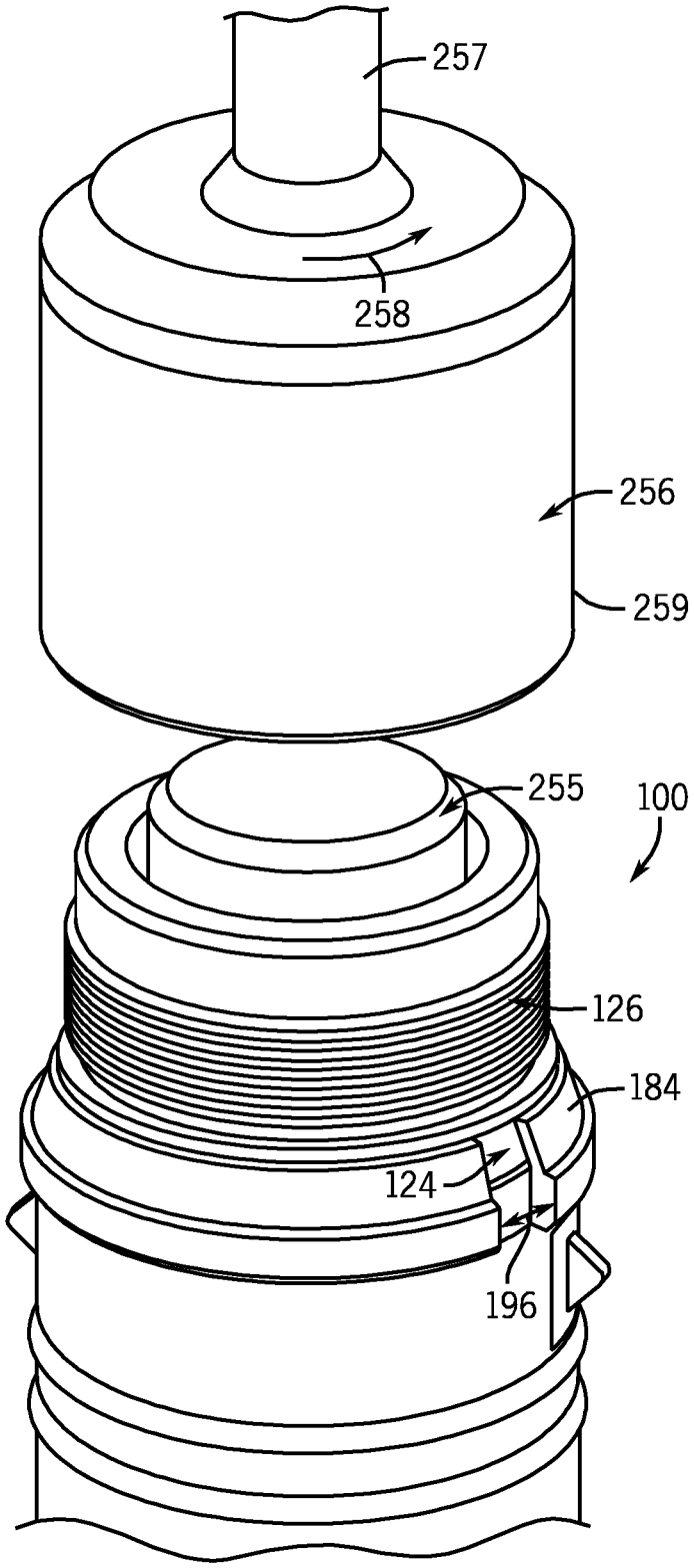


FIG. 6

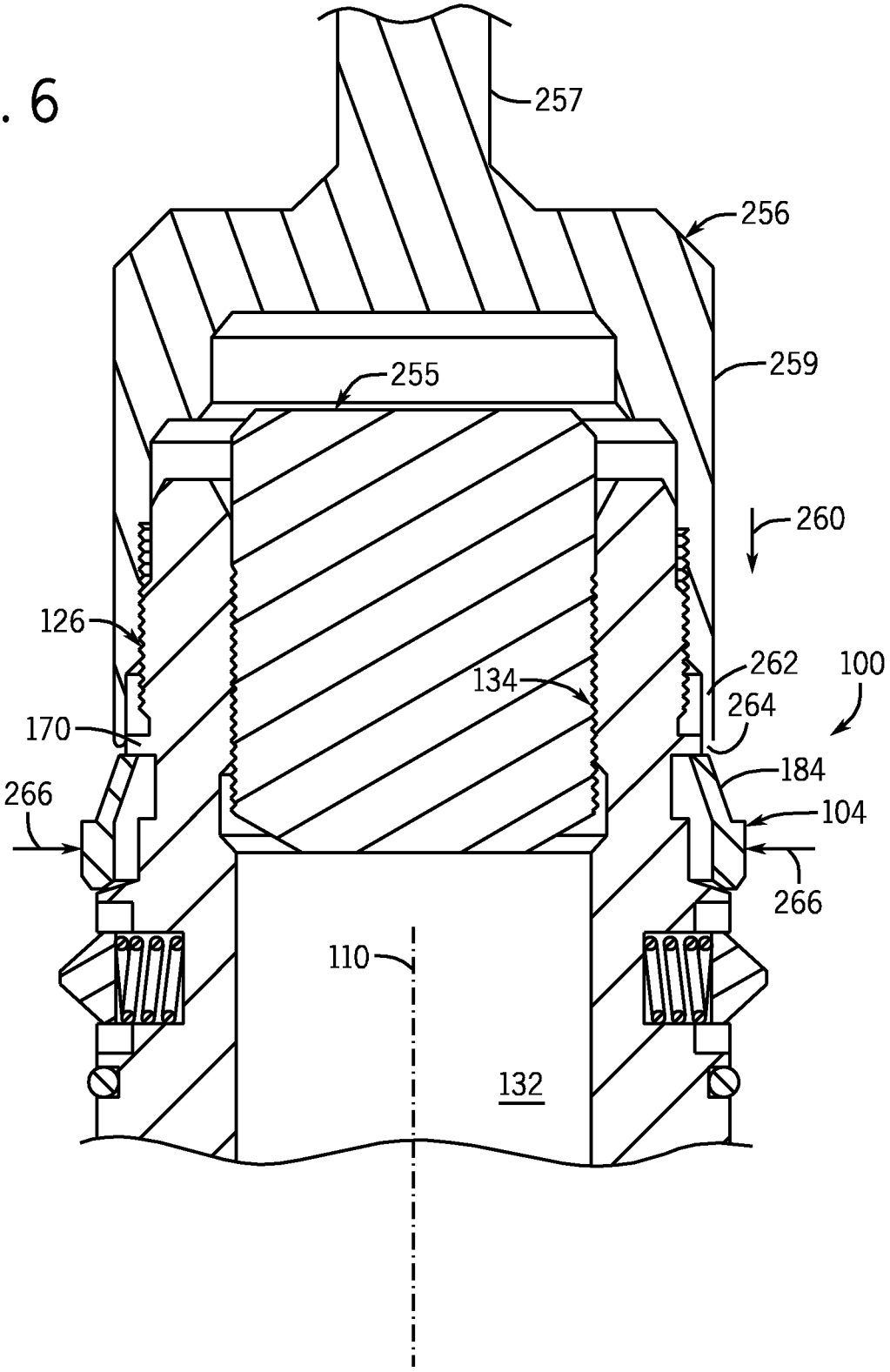

257
256
259
255
260
126
134
262
100
264
170
184
266
104
266
110
132

FIG. 7

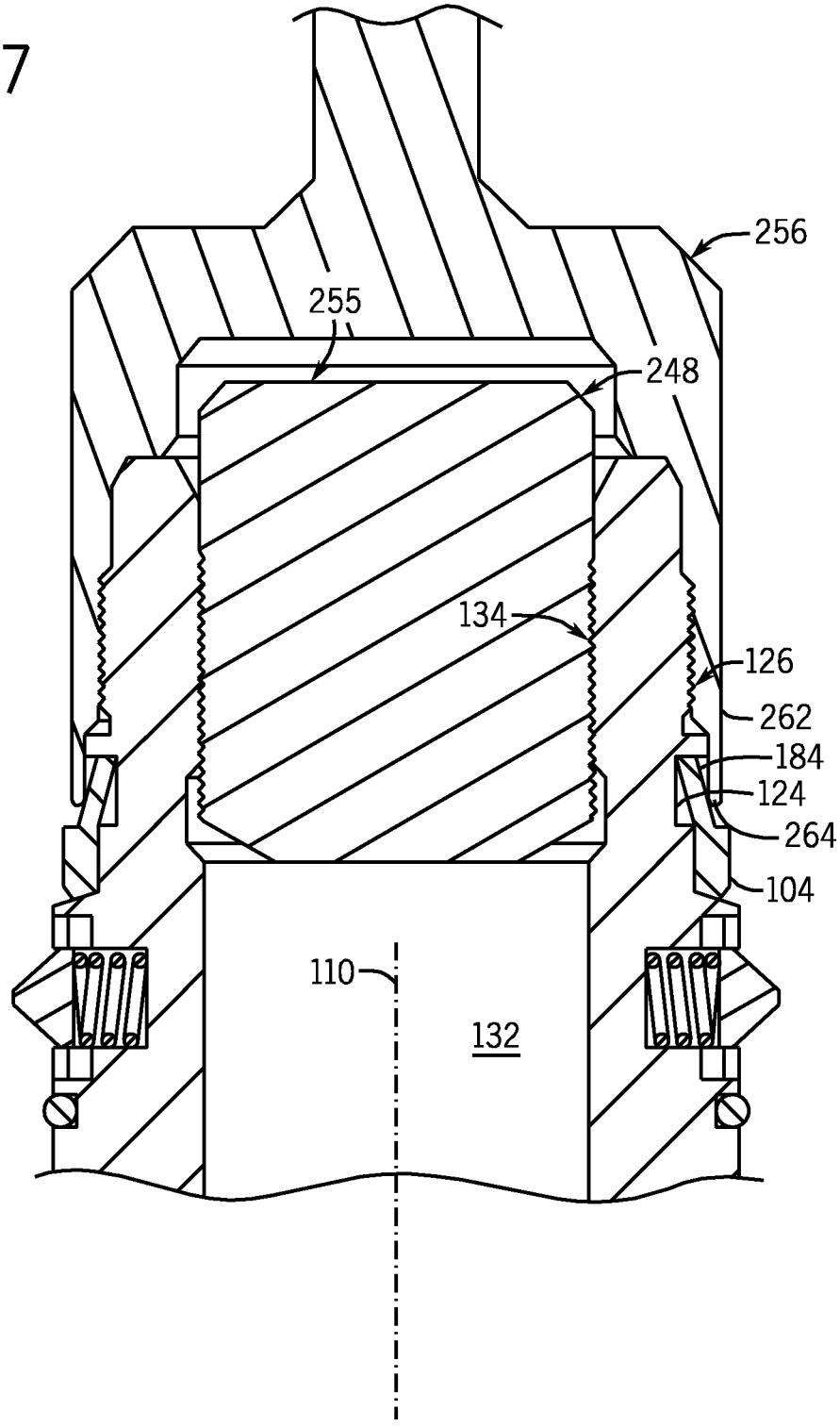


FIG. 8

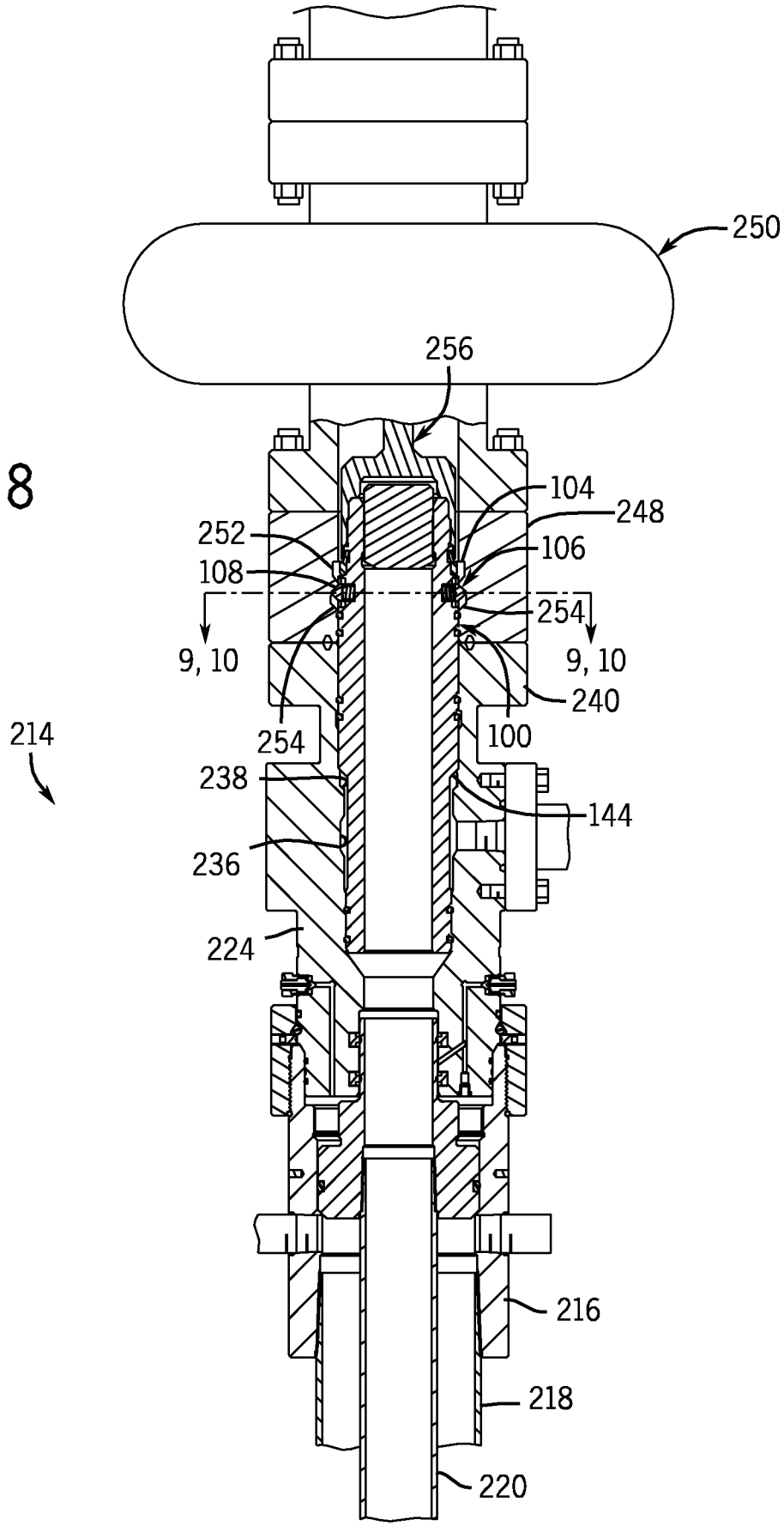

250
256
104
248
252
106
108
254
9, 10
9, 10
240
214
254
100
238
144
236
224
216
218
220

FIG. 9

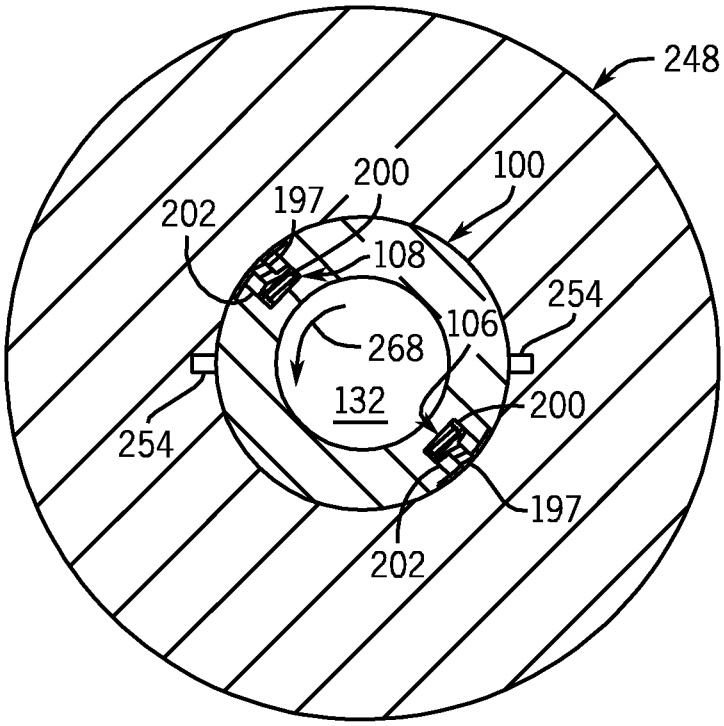
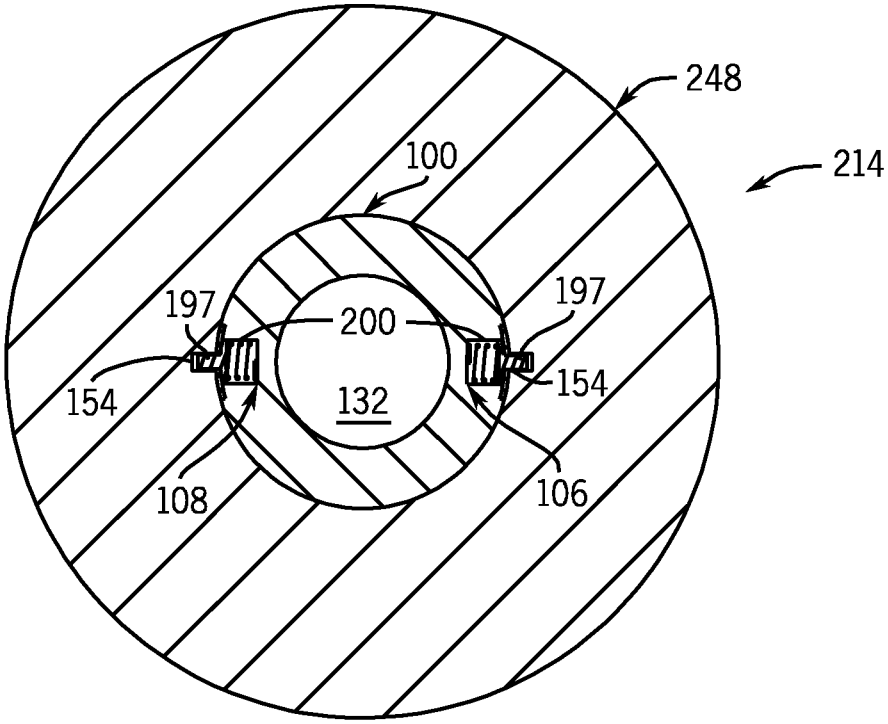

248
214
200
100
202
197
108
254
106
268
132
200
254
197
202

FIG. 10


248
214
100
197
200
197
154
154
132
108
106

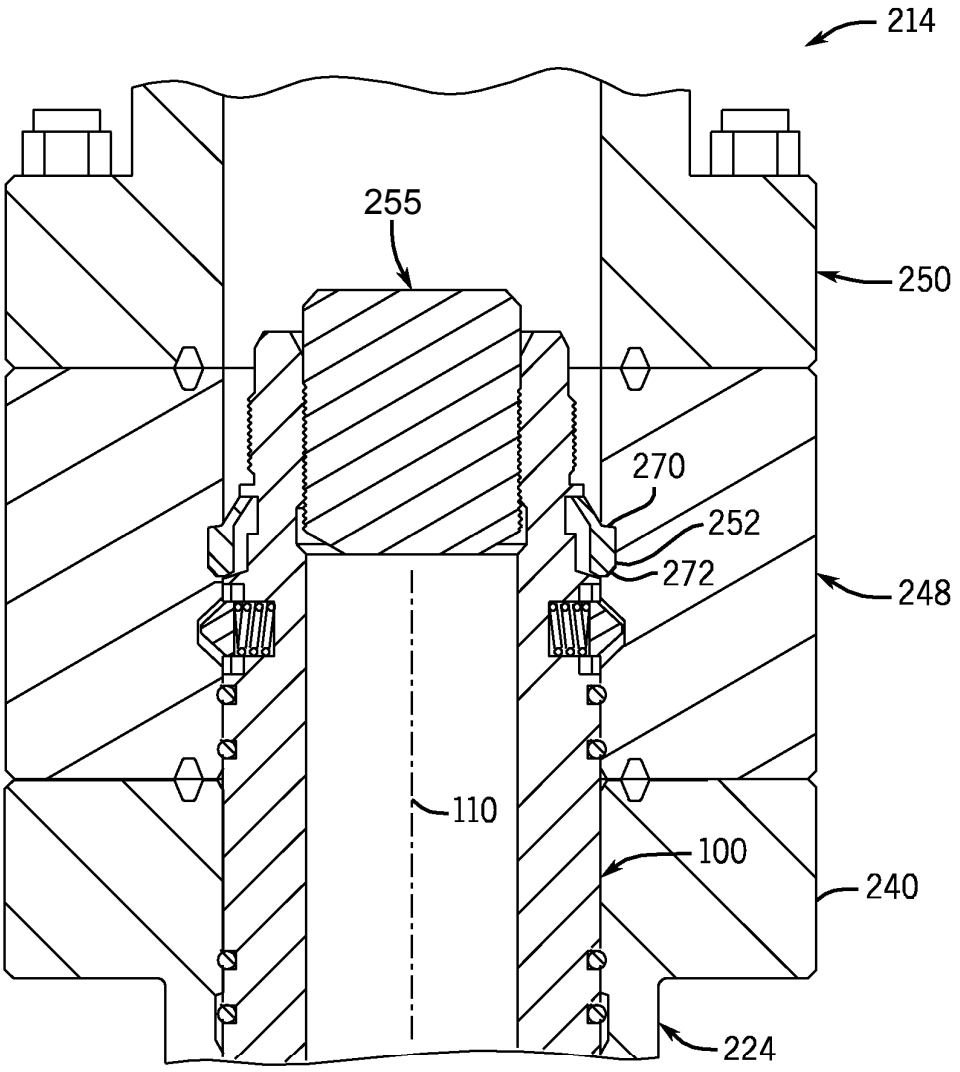


FIG. 11

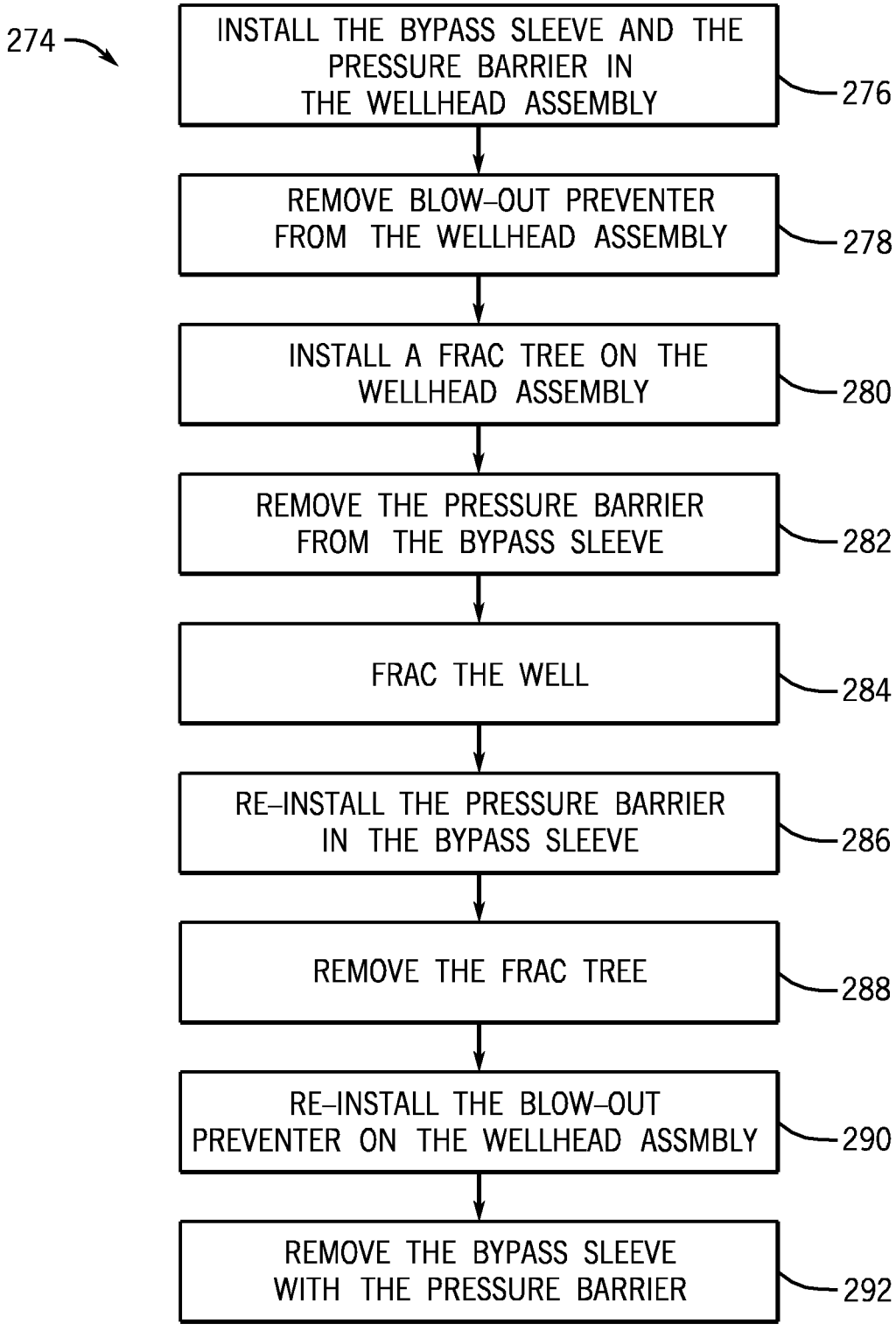

274
INSTALL THE BYPASS SLEEVE AND THE PRESSURE BARRIER IN THE WELLHEAD ASSEMBLY
276
REMOVE BLOW-OUT PREVENTER FROM THE WELLHEAD ASSEMBLY
278
INSTALL A FRAC TREE ON THE WELLHEAD ASSEMBLY
280
REMOVE THE PRESSURE BARRIER FROM THE BYPASS SLEEVE
282
FRAC THE WELL
284
RE-INSTALL THE PRESSURE BARRIER IN THE BYPASS SLEEVE
286
REMOVE THE FRAC TREE
288
RE-INSTALL THE BLOW-OUT PREVENTER ON THE WELLHEAD ASSMBLY
290
REMOVE THE BYPASS SLEEVE WITH THE PRESSURE BARRIER
292

FIG. 12

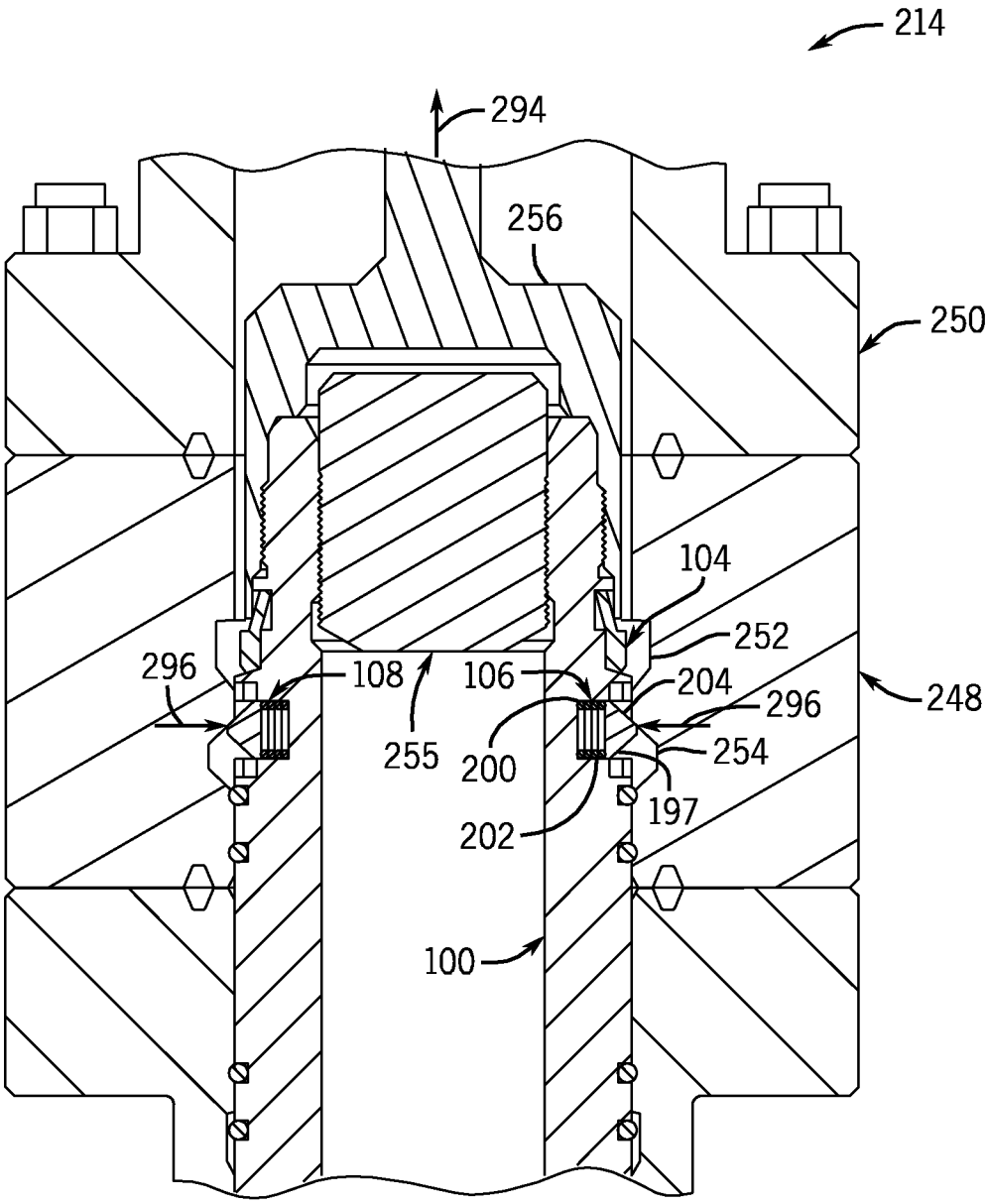

214
294
256
250
104
252
296
108
106
204
296
248
255
200
254
197
202
100

FIG. 13

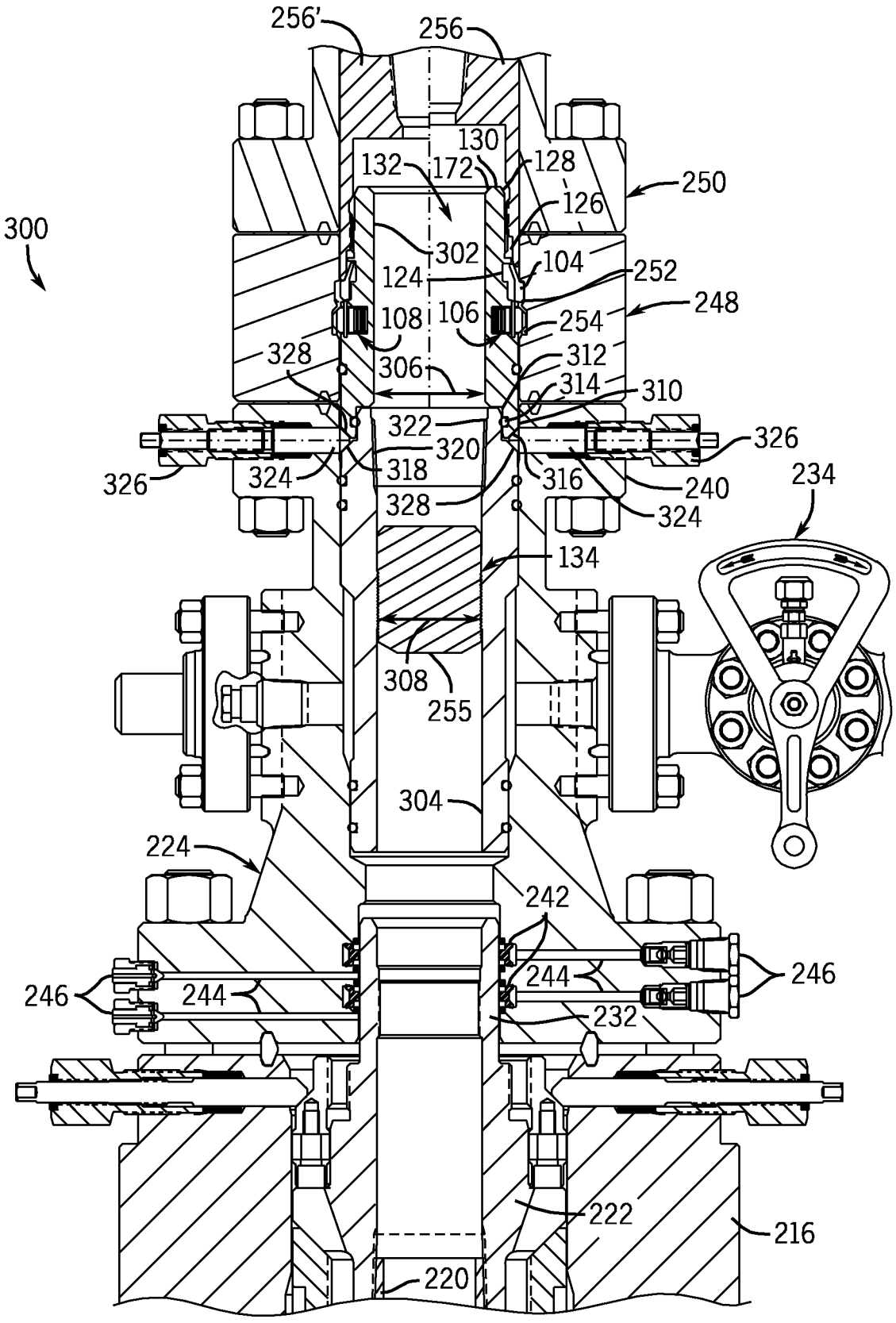

256'
256
130
132
172
128
250
126
300
302
104
252
124
248
108
106
254
328
312
306
314
310
322
326
320
326
324
318
316
240
328
324
234
134
308
255
304
224
242
246
244
244
246
232
222
216
220

FIG. 14

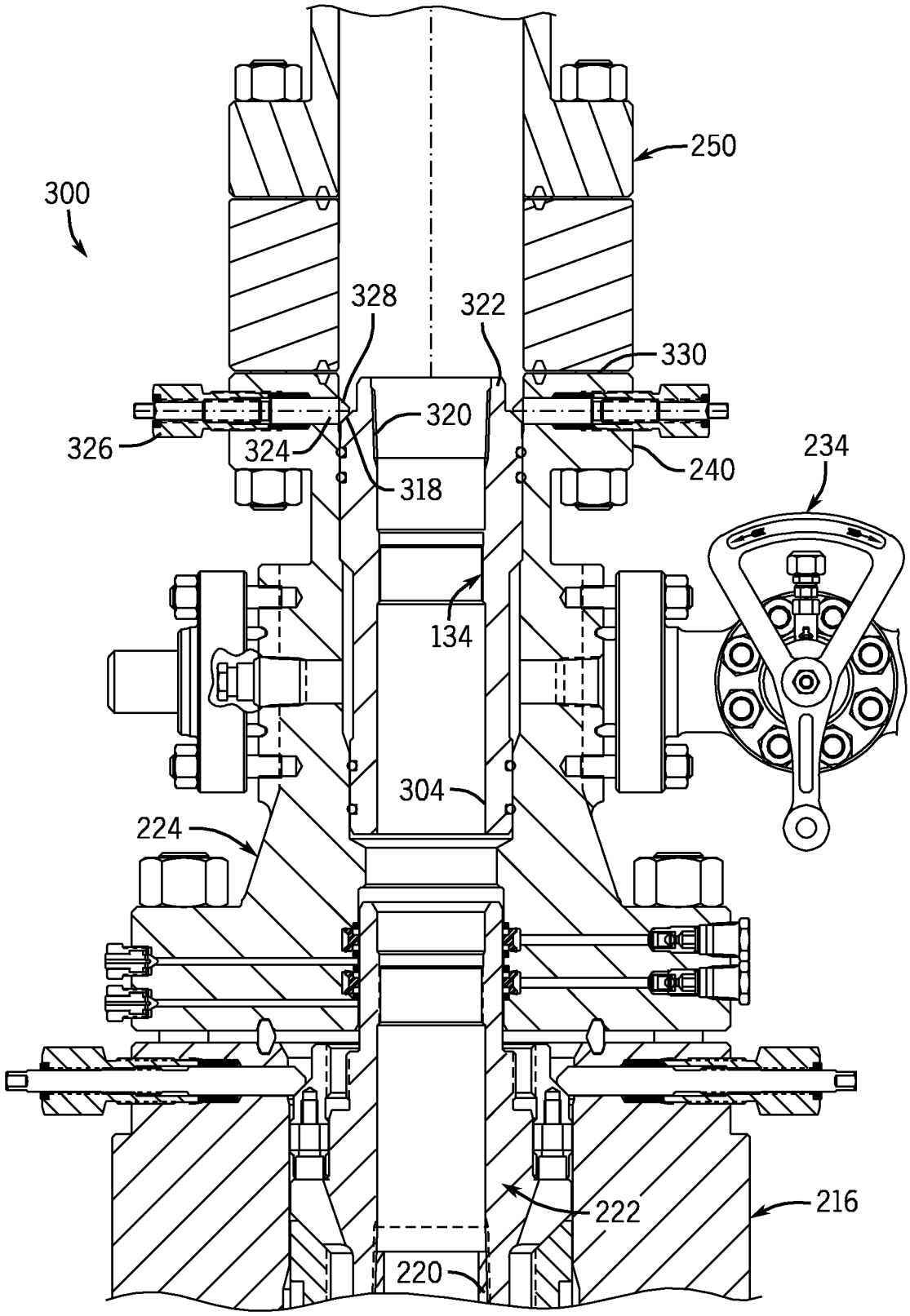

300
250
328
322
330
320
326
324
318
240
234
134
304
224
222
216
220

FIG. 15

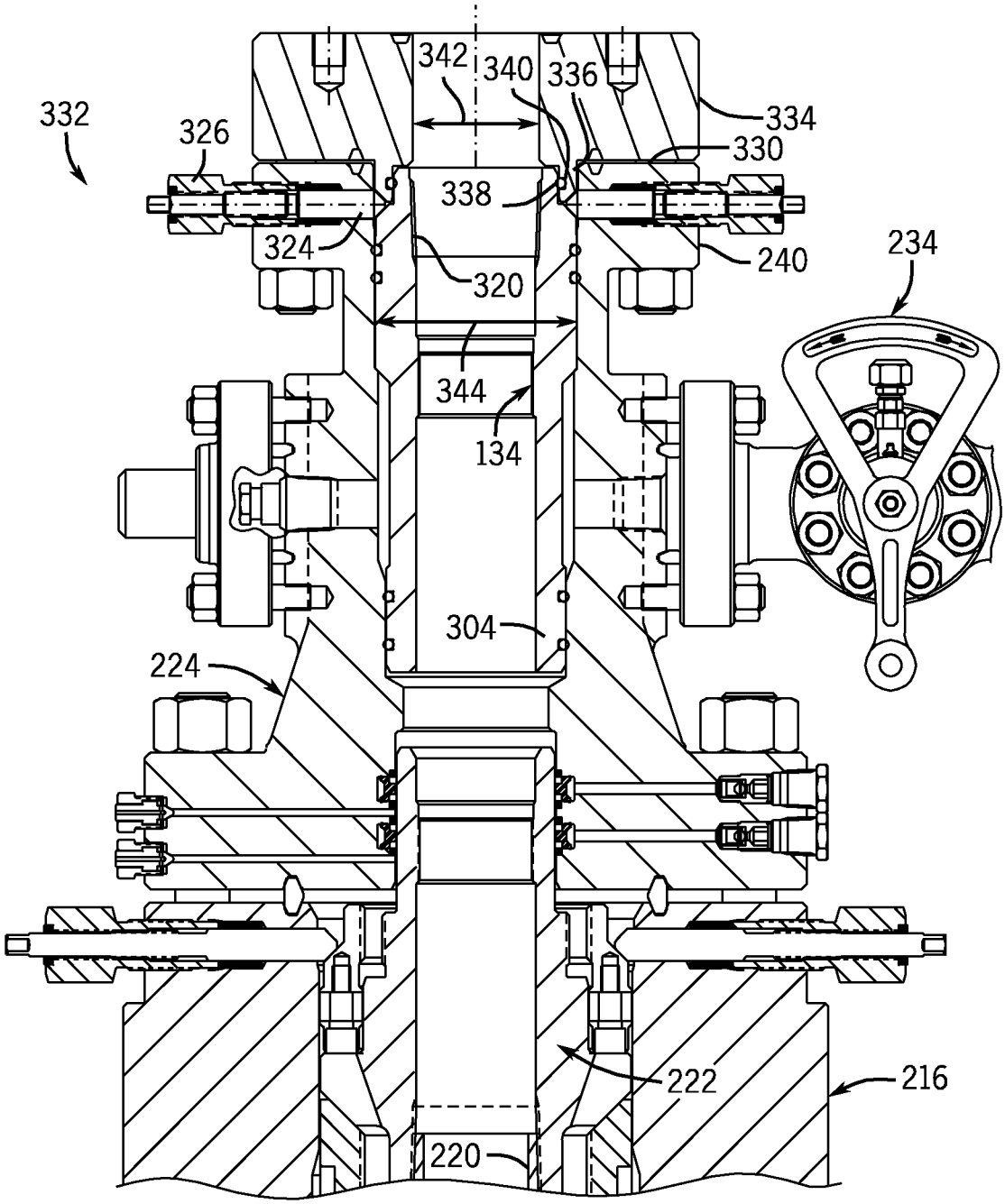

332
326
342
340
336
334
330
338
324
240
234
320
344
134
304
224
222
216
220

FIG. 16

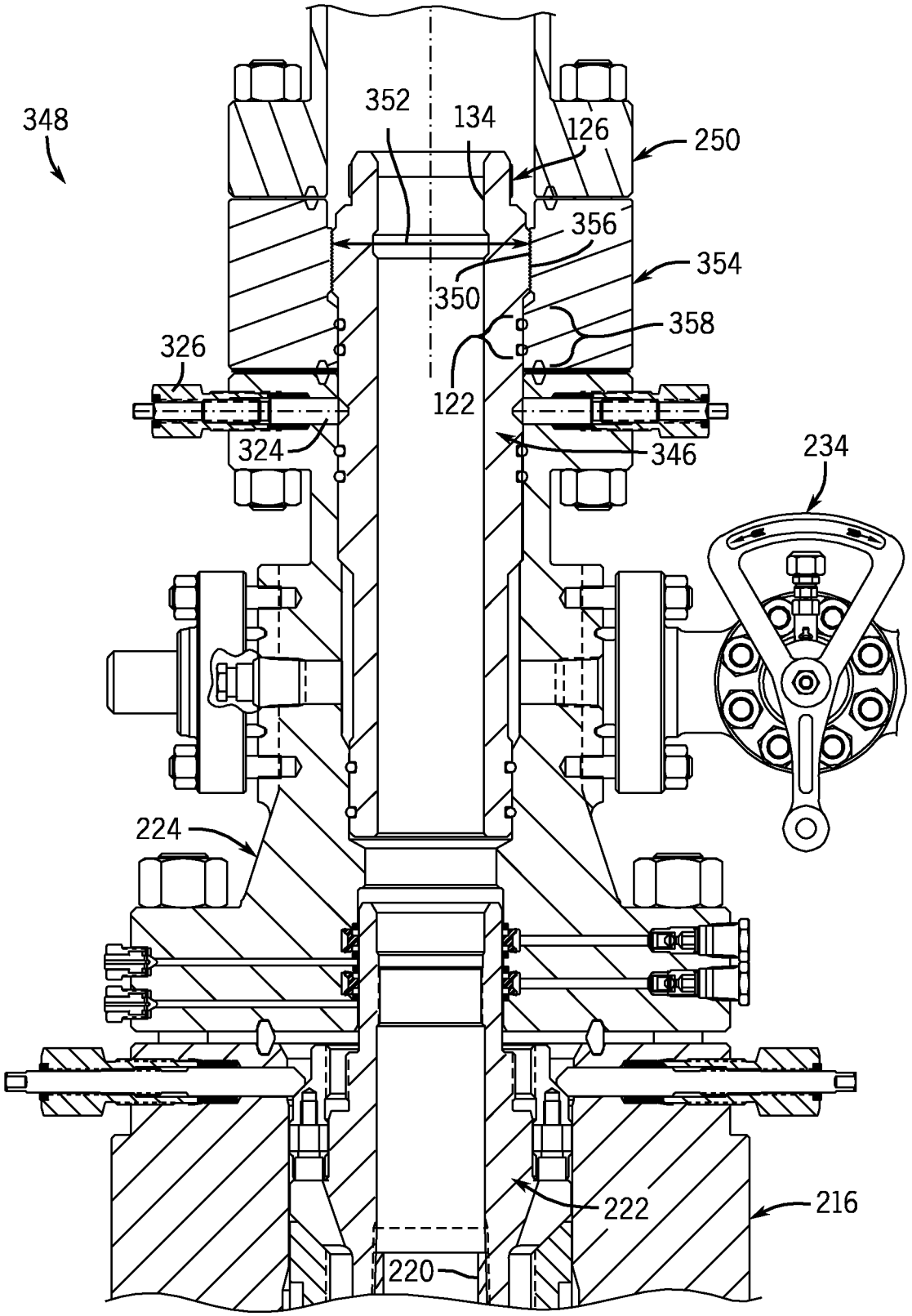

348
352
134
126
250
356
354
350
358
326
122
324
346
234
224
222
216
220

FIG. 17

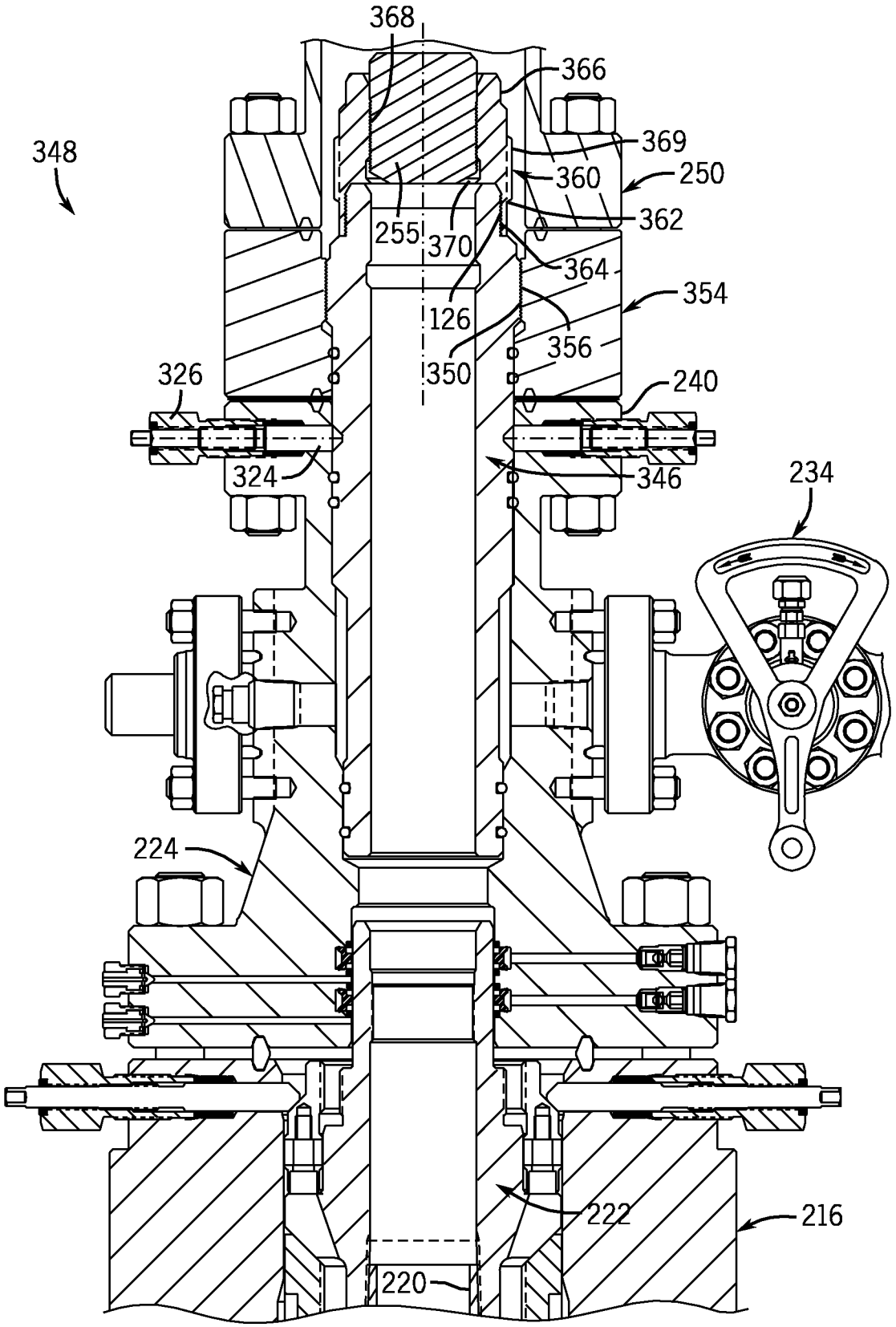

368
366
348
369
360
250
362
255
370
364
354
126
356
326
350
240
324
346
234
224
222
216
220

FIG. 18

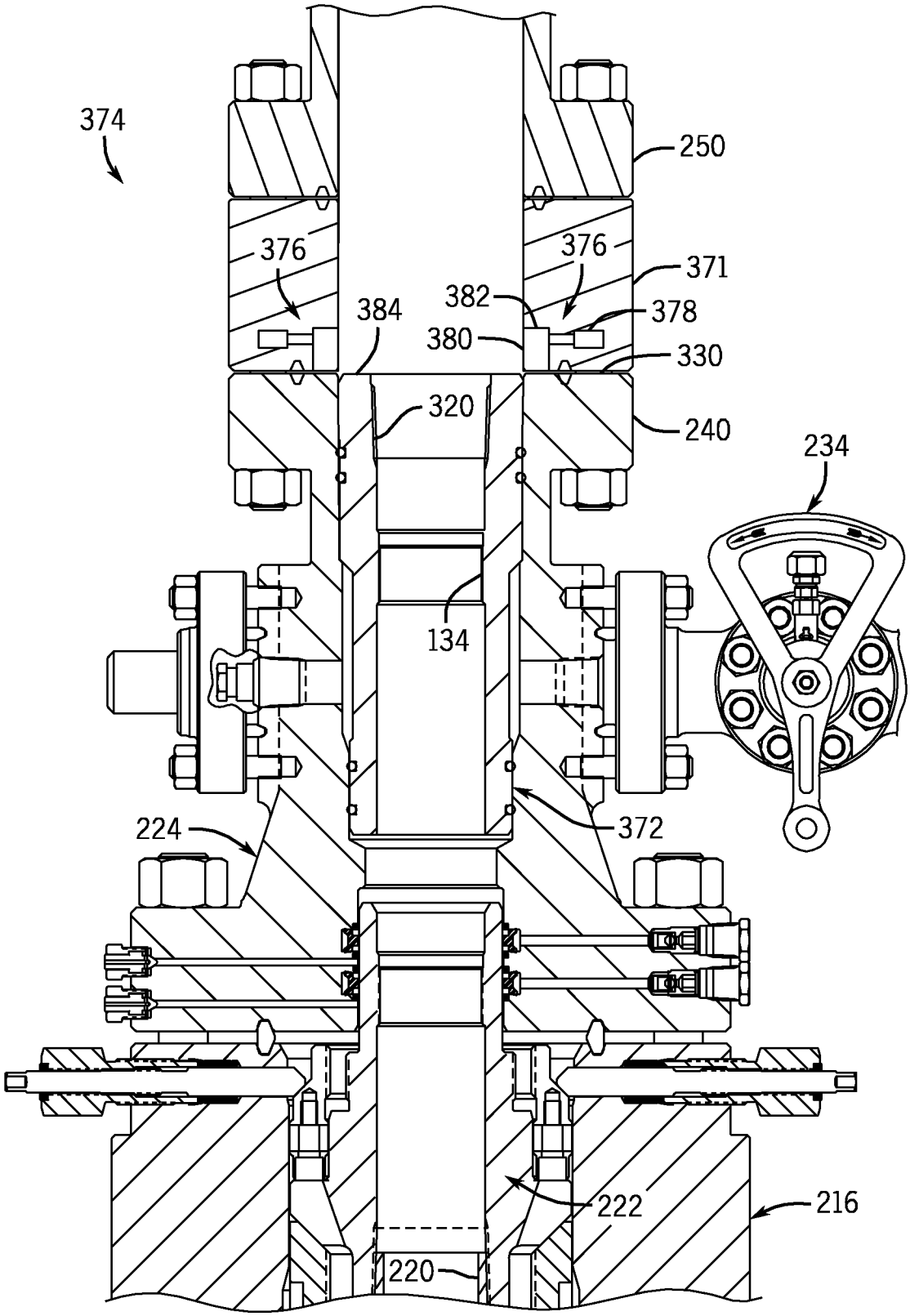

374
250
376
376
371
382
384
378
380
330
320
240
234
134
224
372
222
216
220

FIG. 19

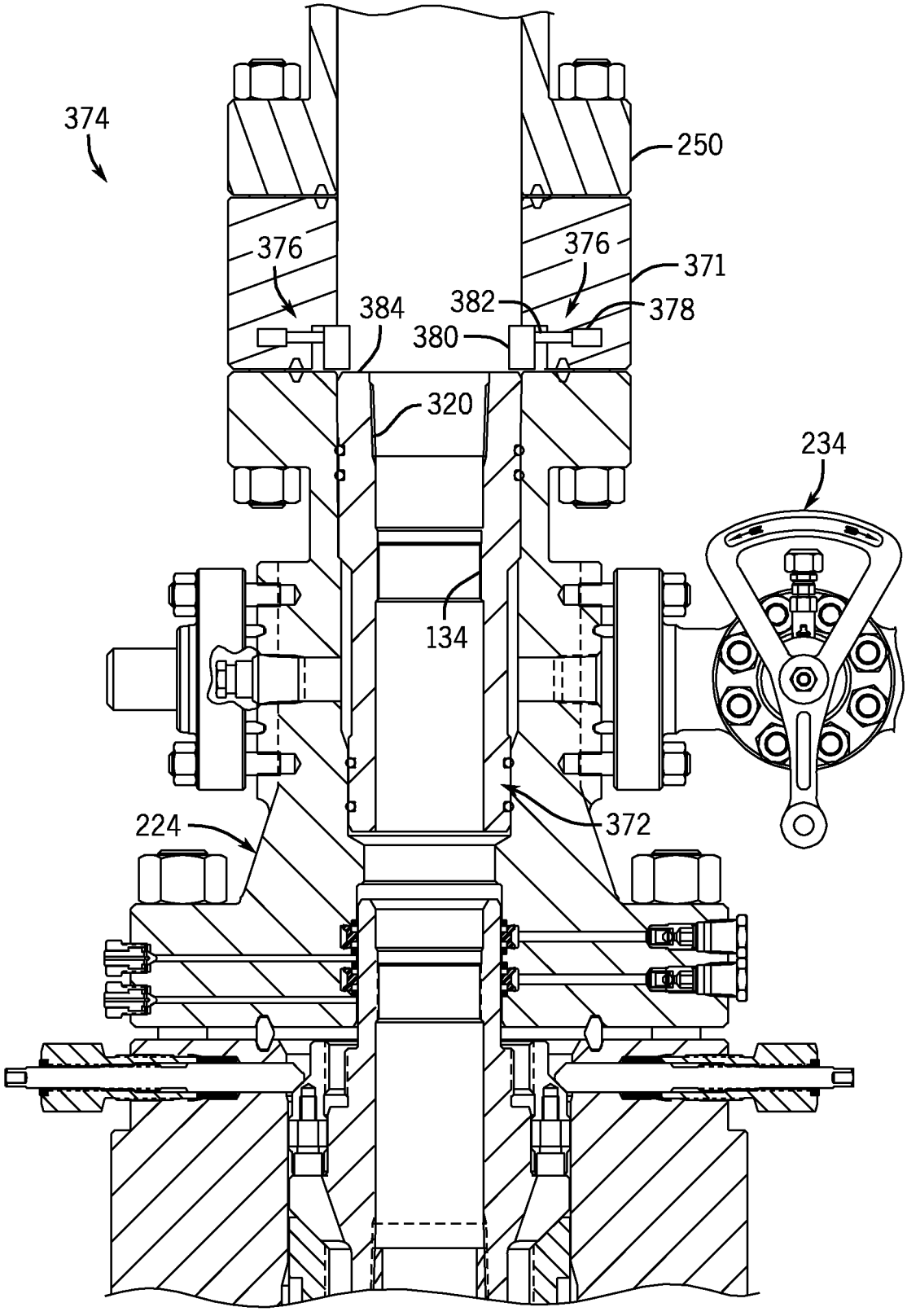


FIG. 20

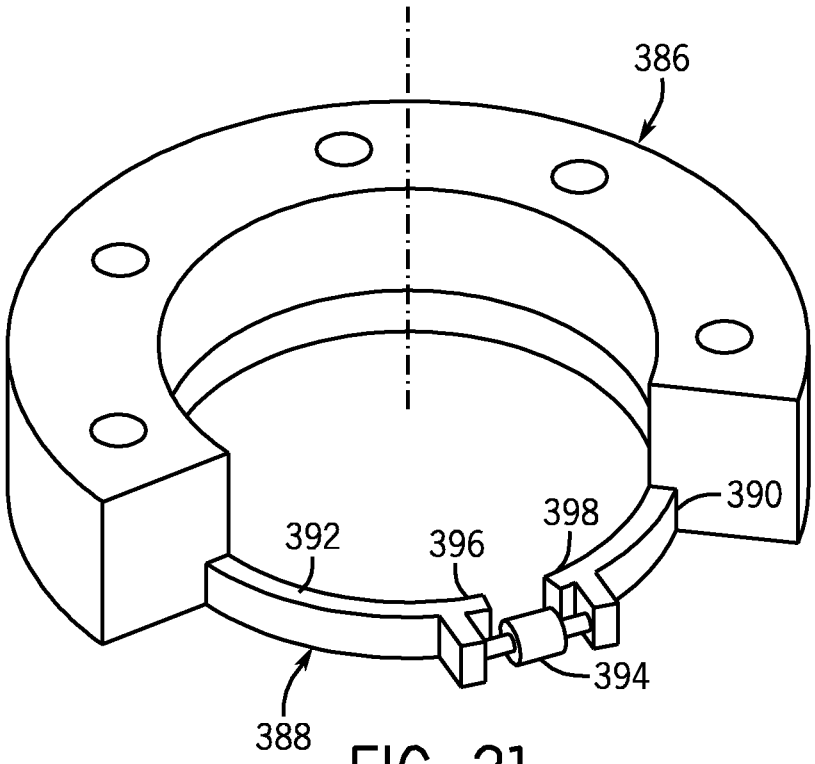


FIG. 21

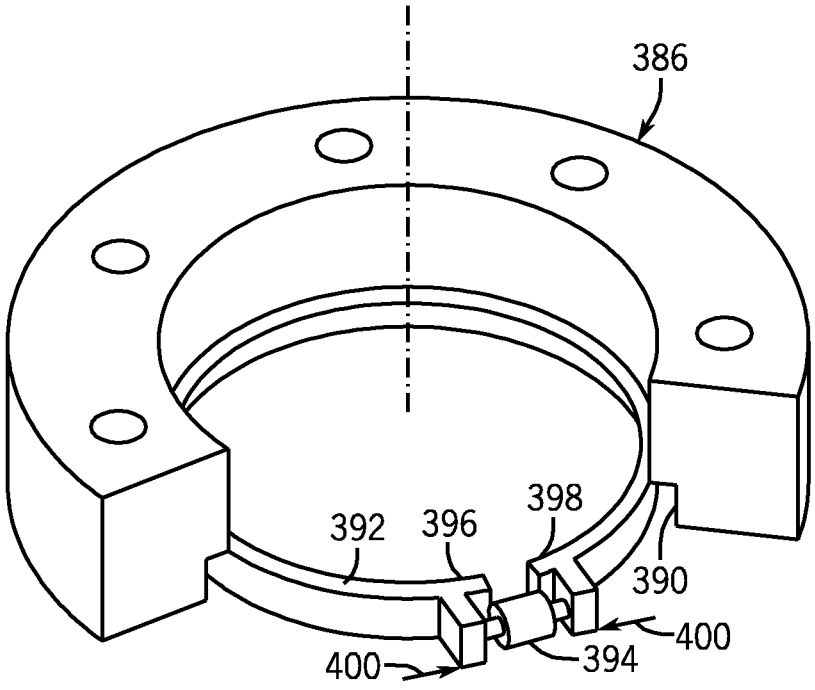


FIG. 22

FIG. 23

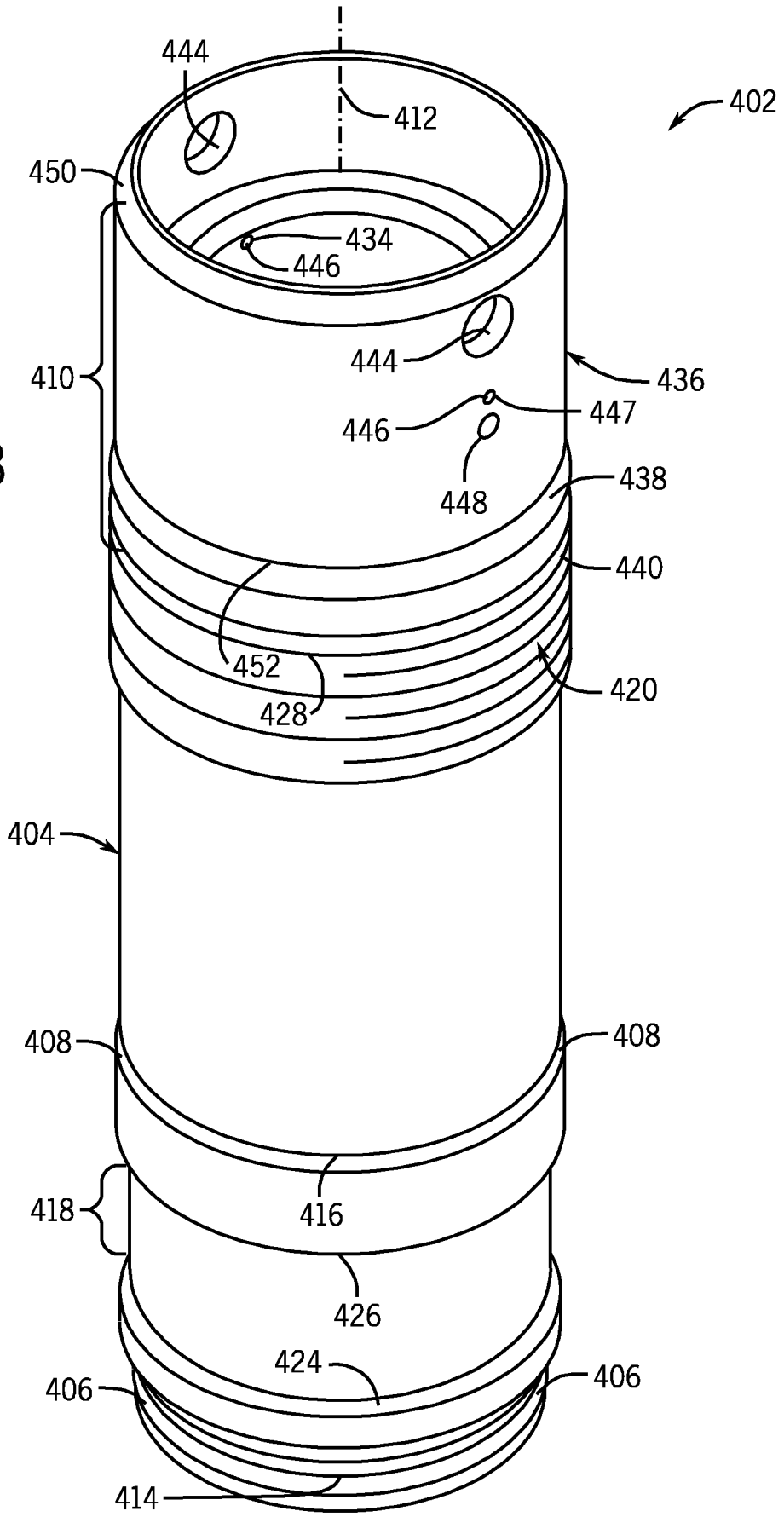
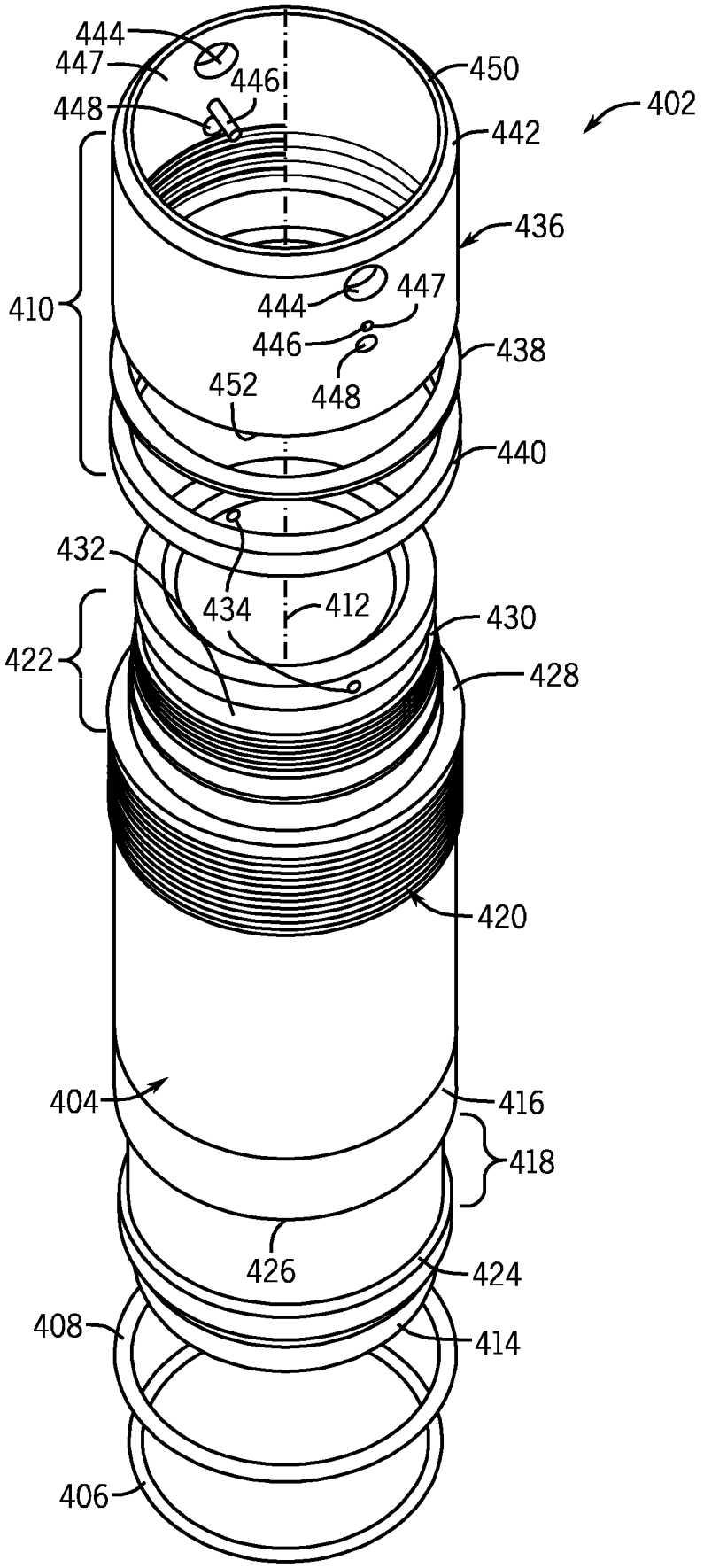

444
412
402
450
434
446
444
436
410
447
446
448
438
440
452
420
428
404
408
408
418
416
426
424
406
406
414

FIG. 24


444
447
446
448
450
402
442
436
410
444
447
446
448
438
452
440
432
434
412
430
422
428
420
404
416
418
426
424
408
414
406

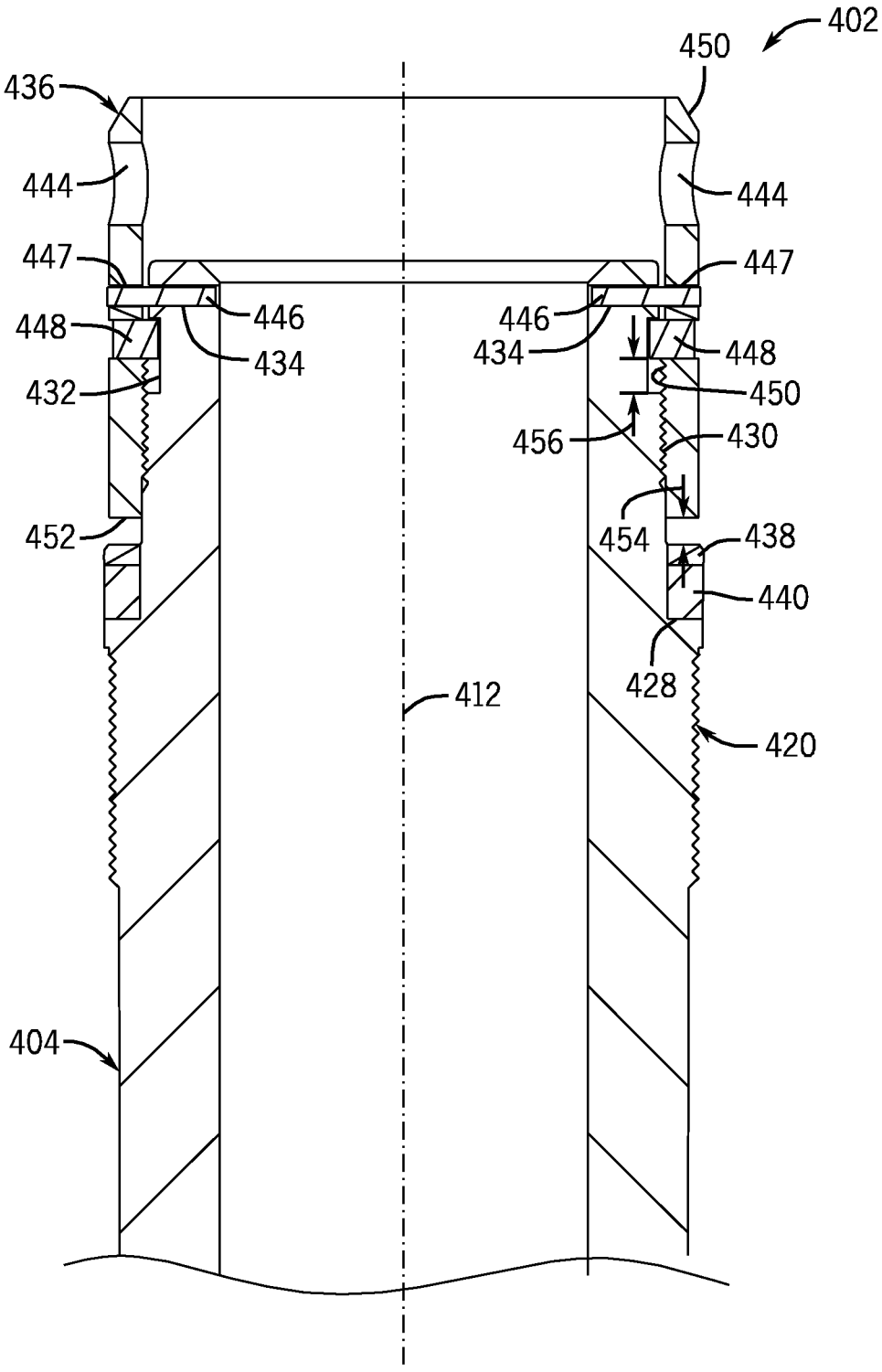

402
450
436
444
444
447
447
448
446
434
446
434
448
432
450
456
430
452
454
438
440
428
412
420
404

FIG. 25

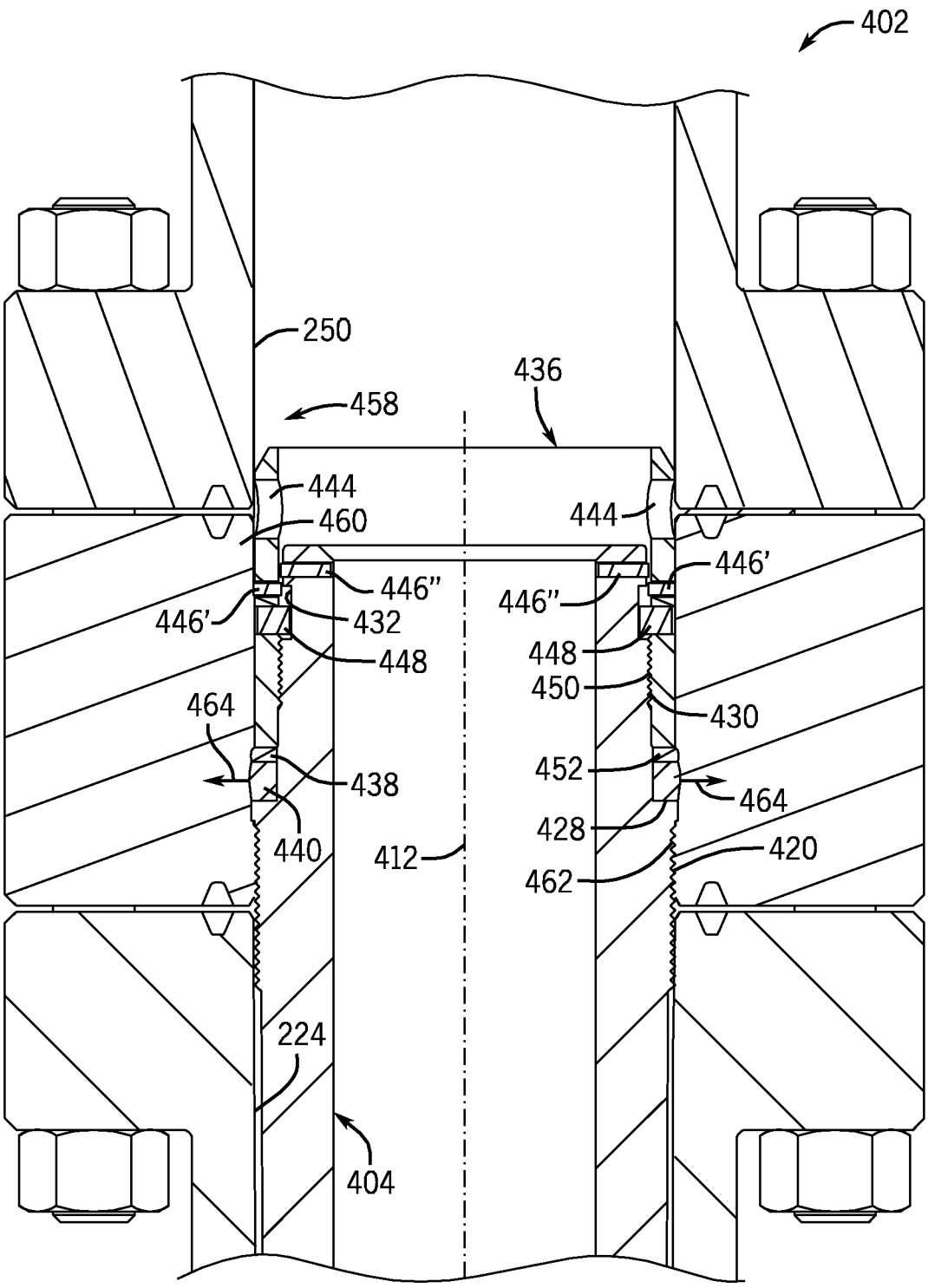

402
250
458
436
444
460
444
446'
446"
446"
446'
432
448
448
450
464
430
438
452
464
440
412
428
420
462
224
404

FIG. 26

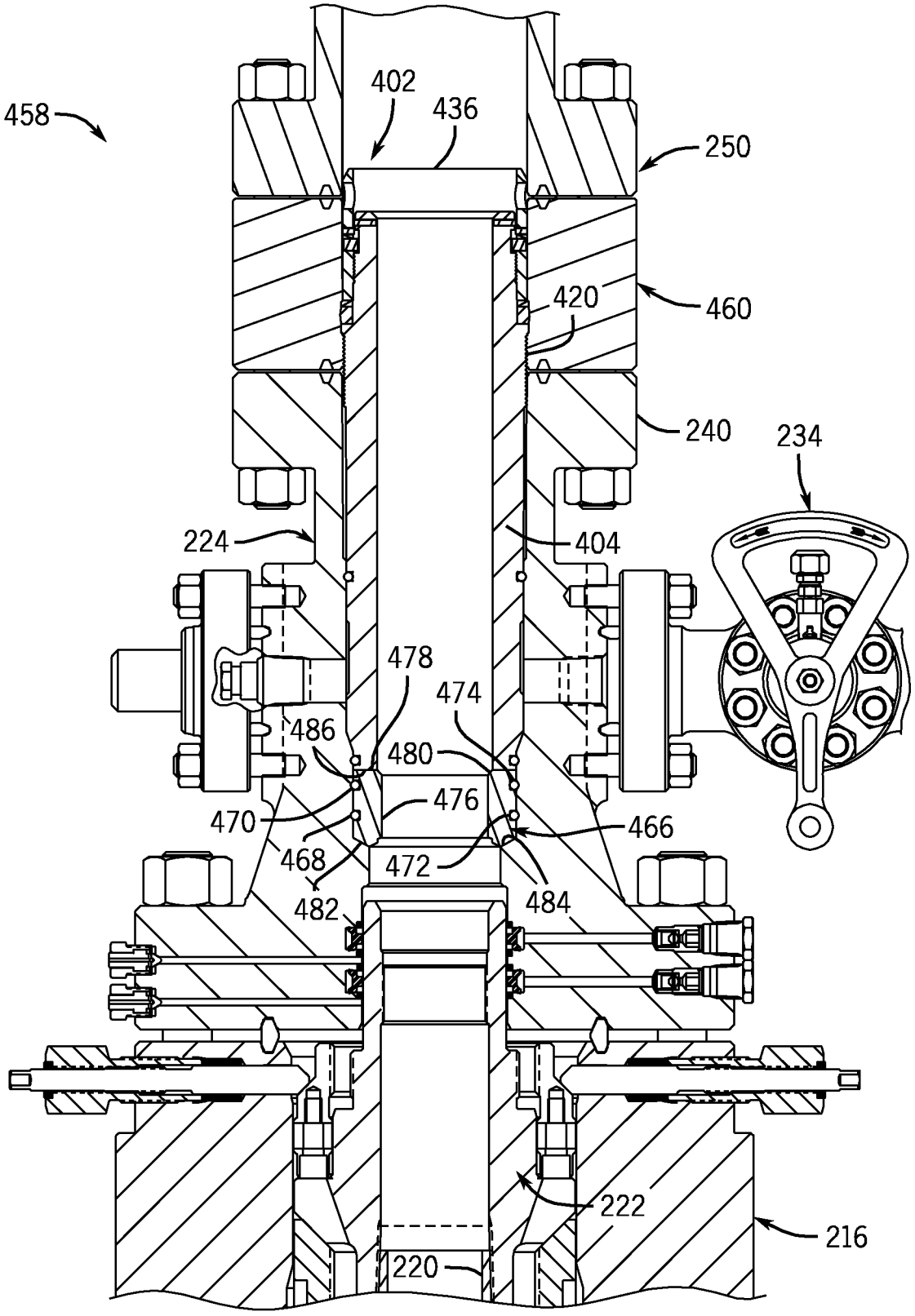

458
402
436
250
420
460
240
234
224
404
478
474
486
480
476
470
466
468
472
482
484
222
216
220

FIG. 27

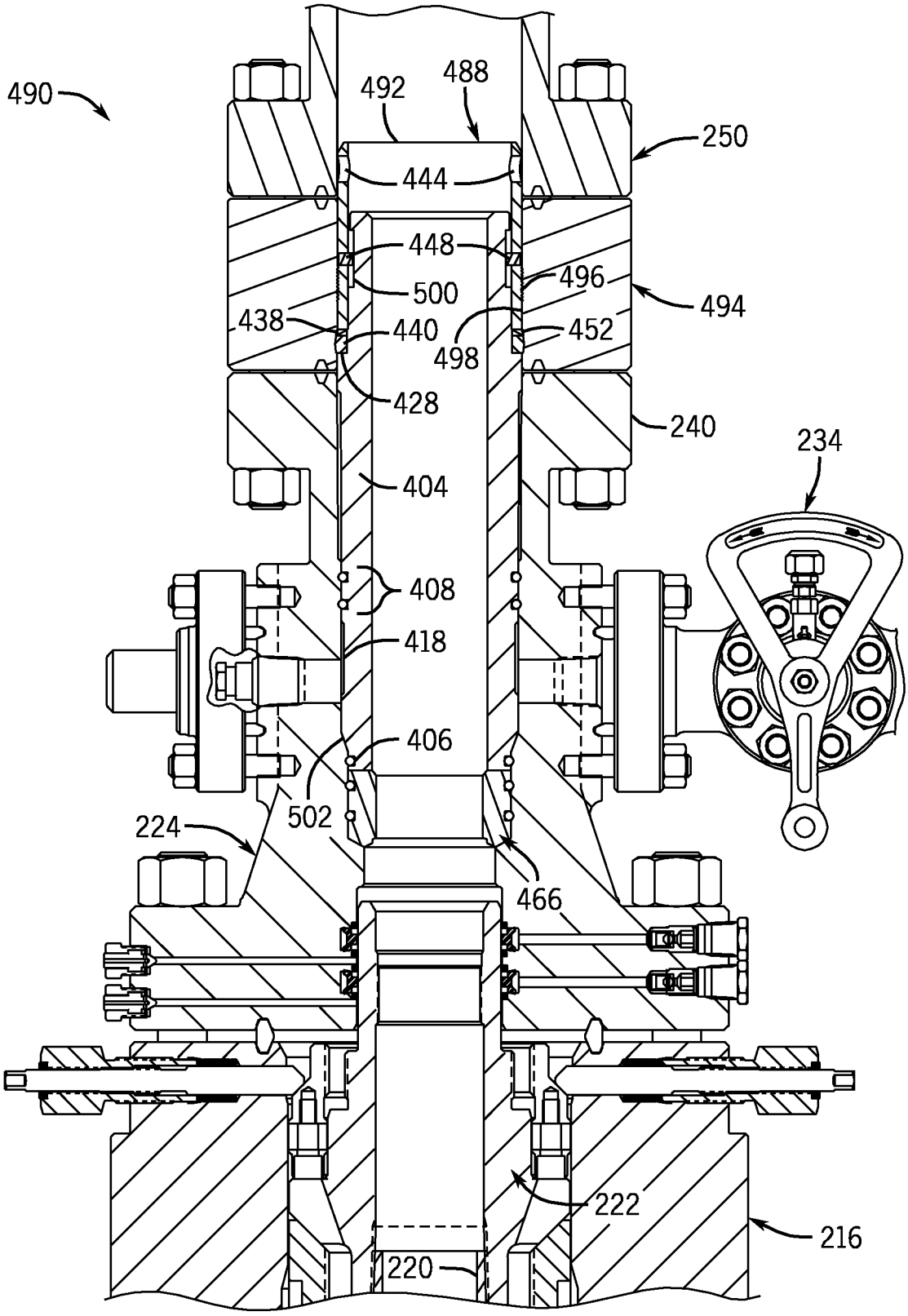

490
492
488
250
444
448
496
500
494
438
440
452
498
428
240
234
404
408
418
406
502
224
466
222
216
220

FIG. 28

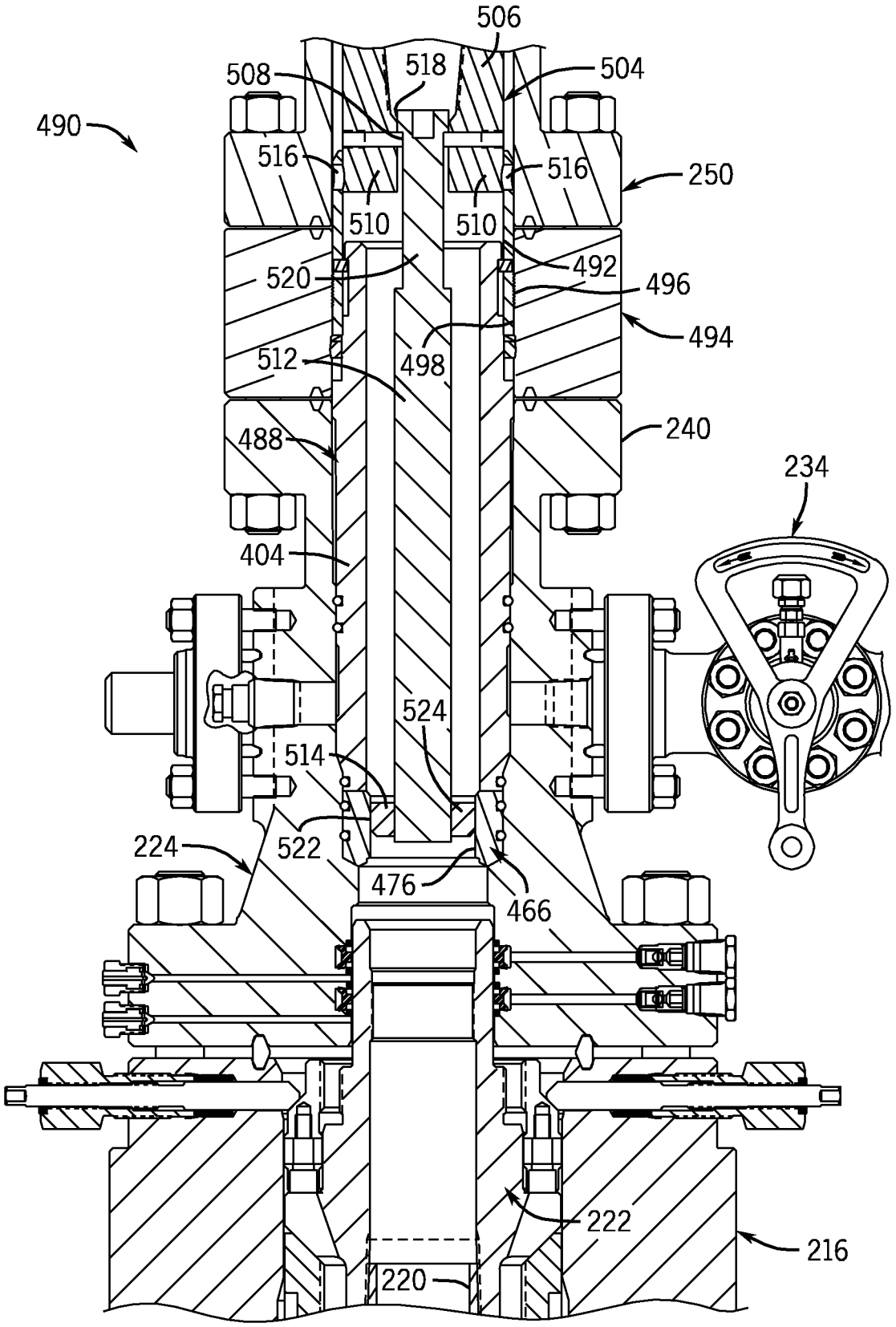

506
508
518
504
490
516
516
250
510
510
520
492
496
494
512
498
240
488
234
404
524
514
224
522
476
466
222
216
220

FIG. 29

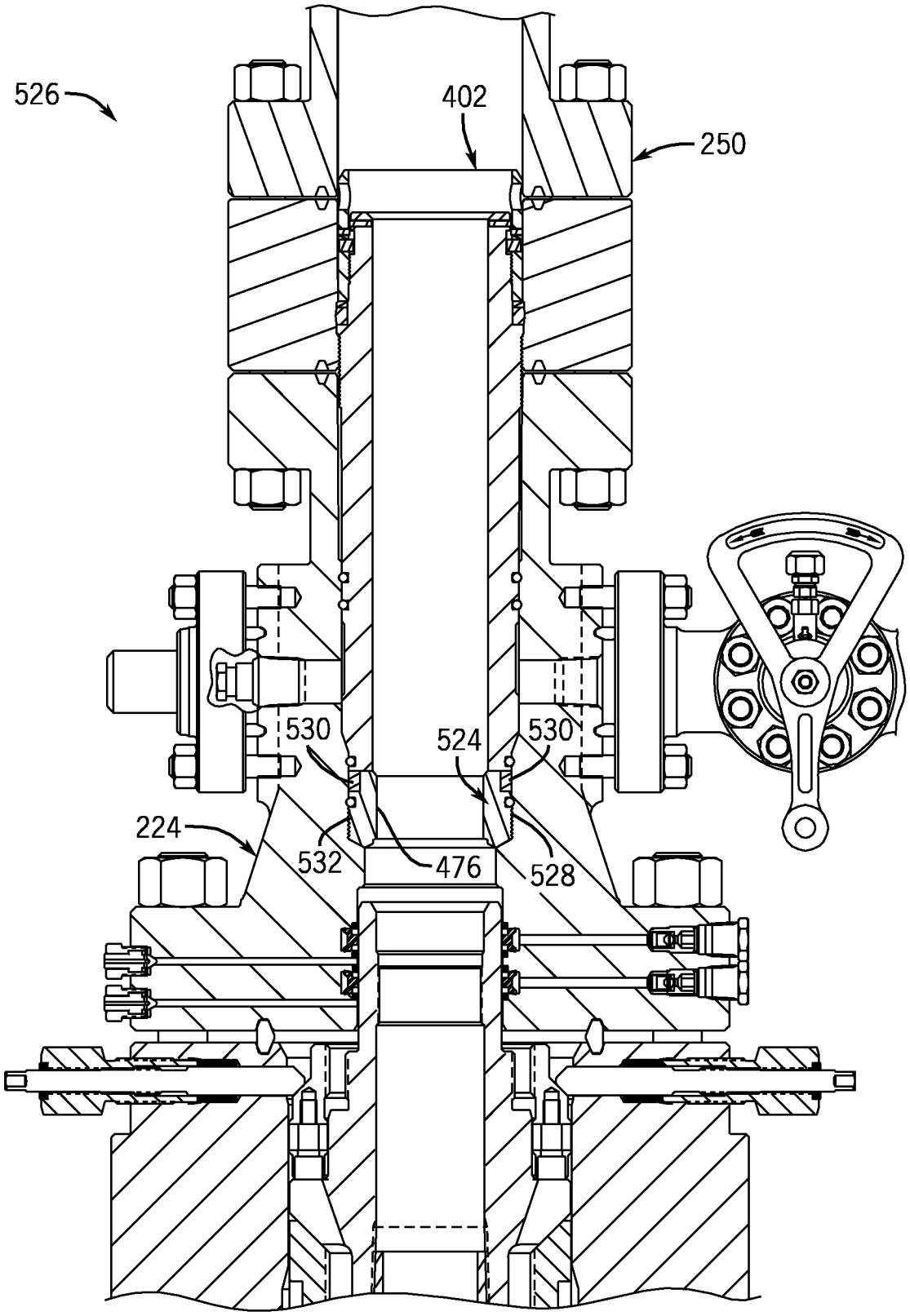


FIG. 30

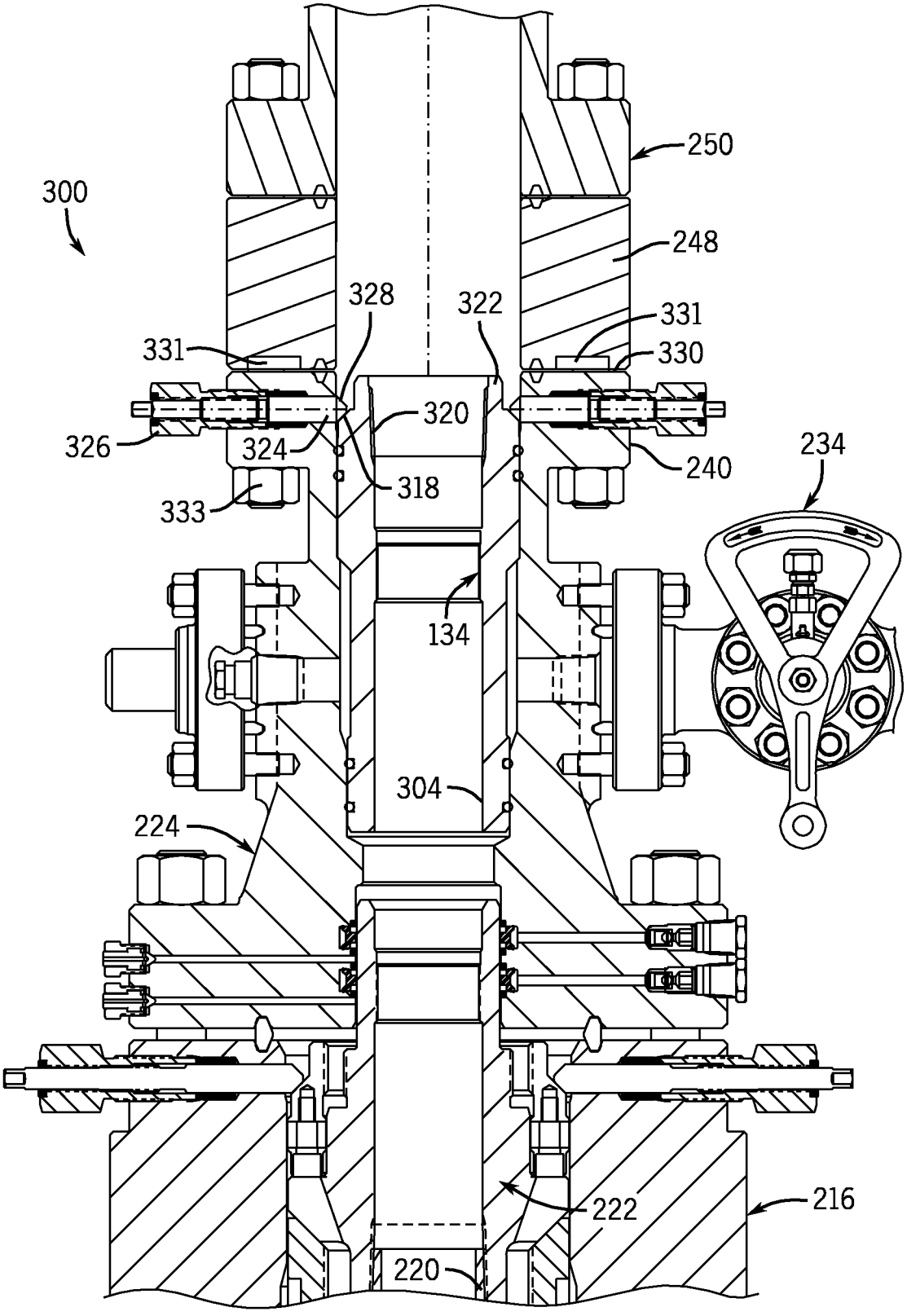

300
250
248
328
322
331
331
330
320
326
324
240
234
318
333
134
304
224
222
216
220

FIG. 31

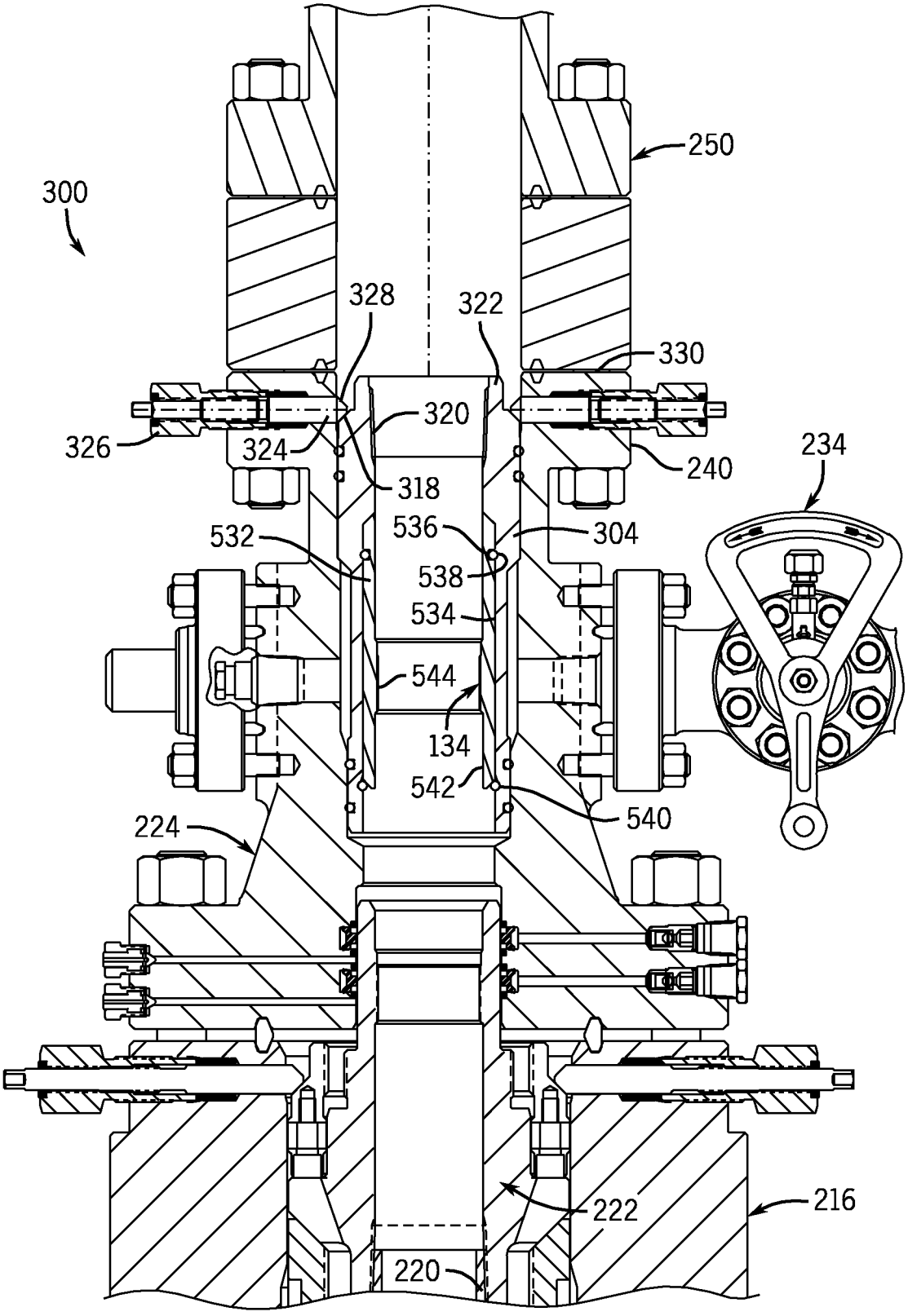

300
250
328
322
330
326
324
320
318
240
234
532
536
304
538
534
544
134
542
540
224
222
216
220

FIG. 32