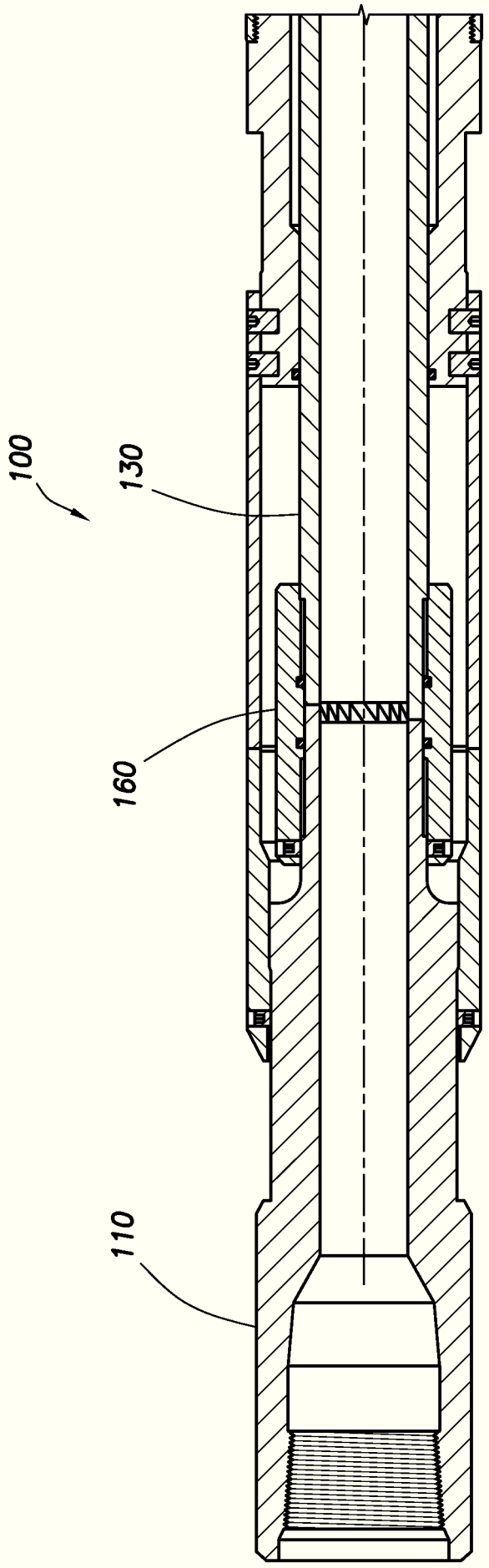

FIG. 1A

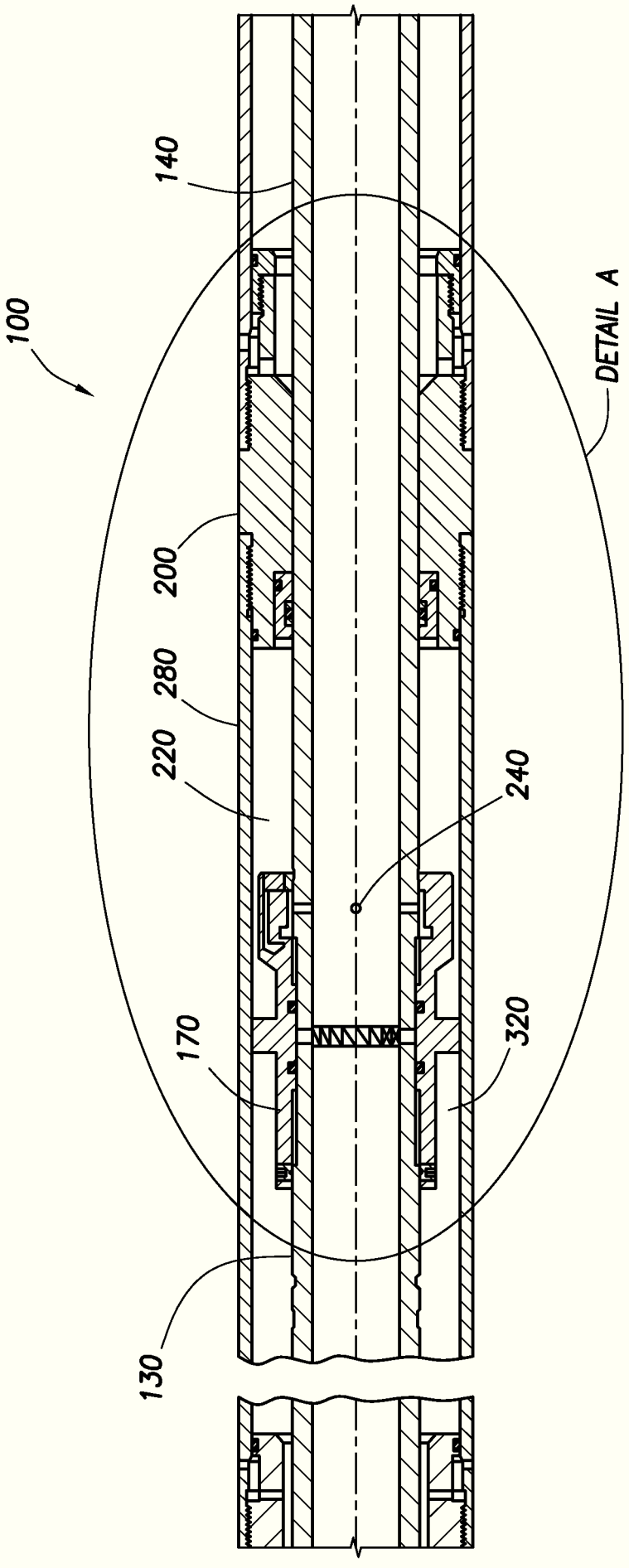

FIG. 1B

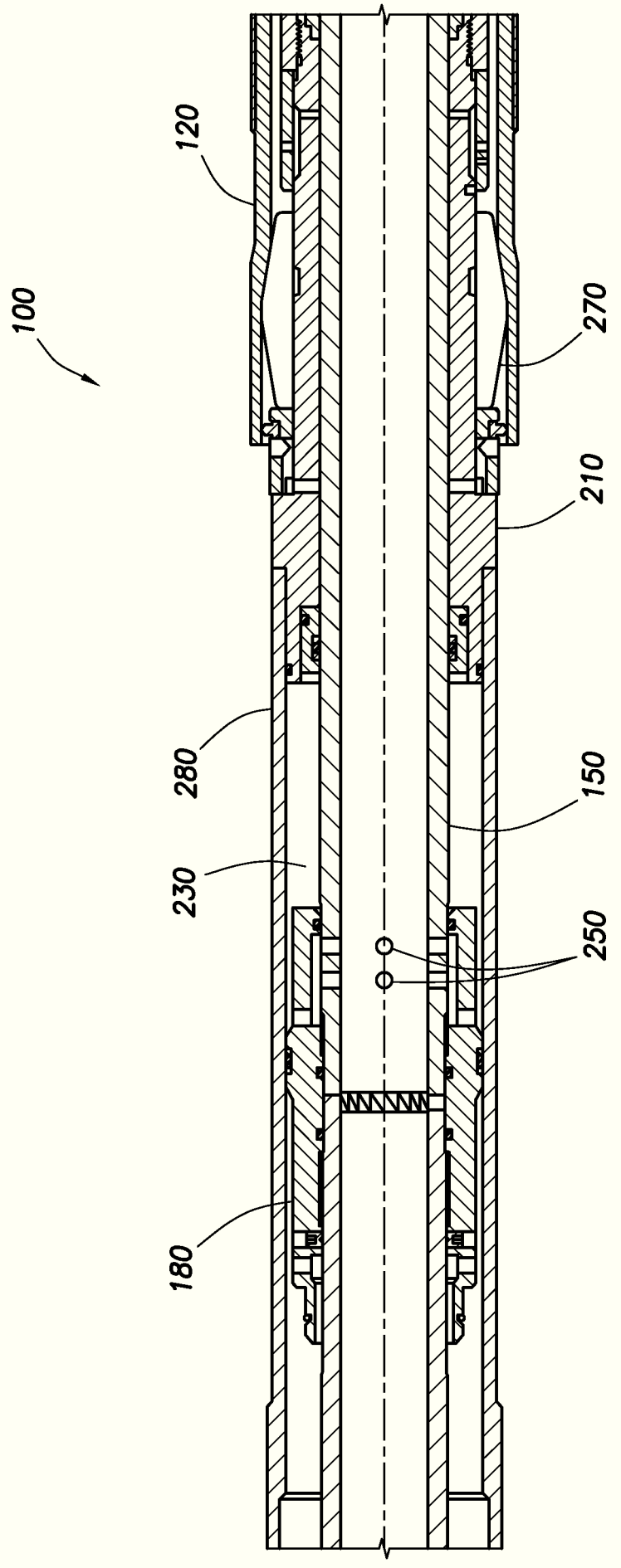

FIG. 1C

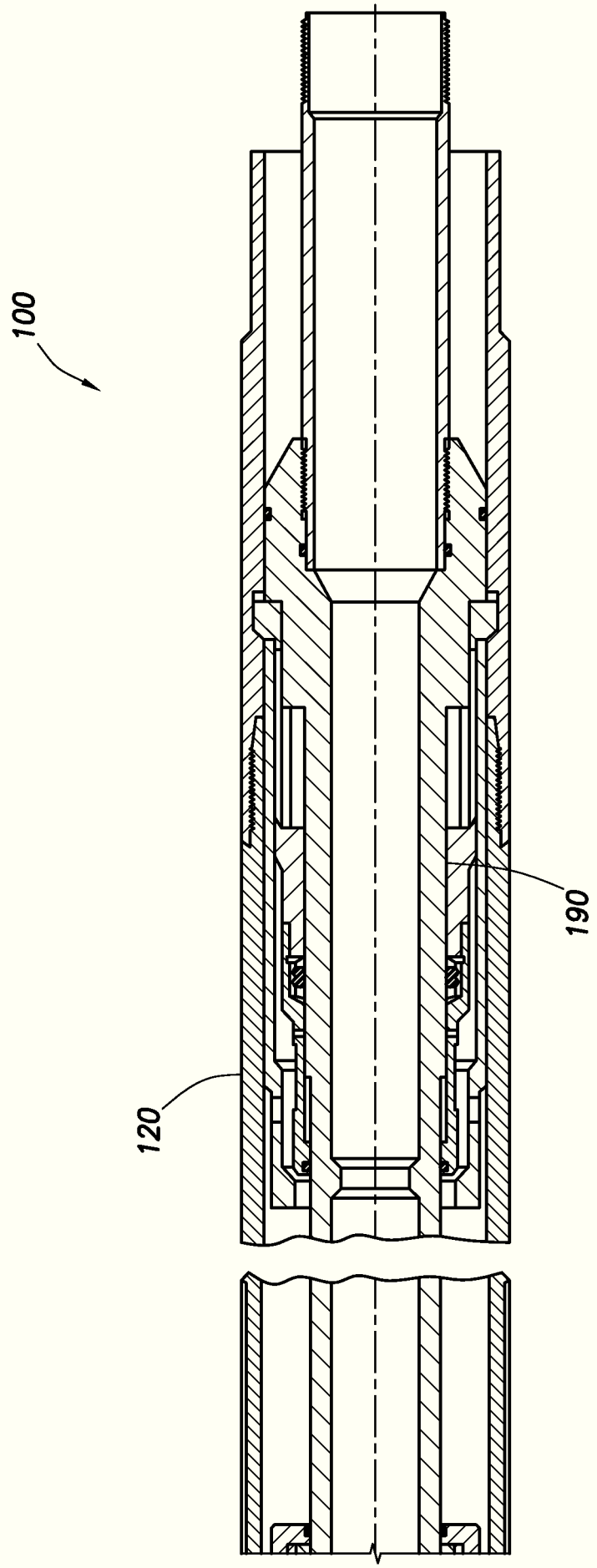

FIG. 1D

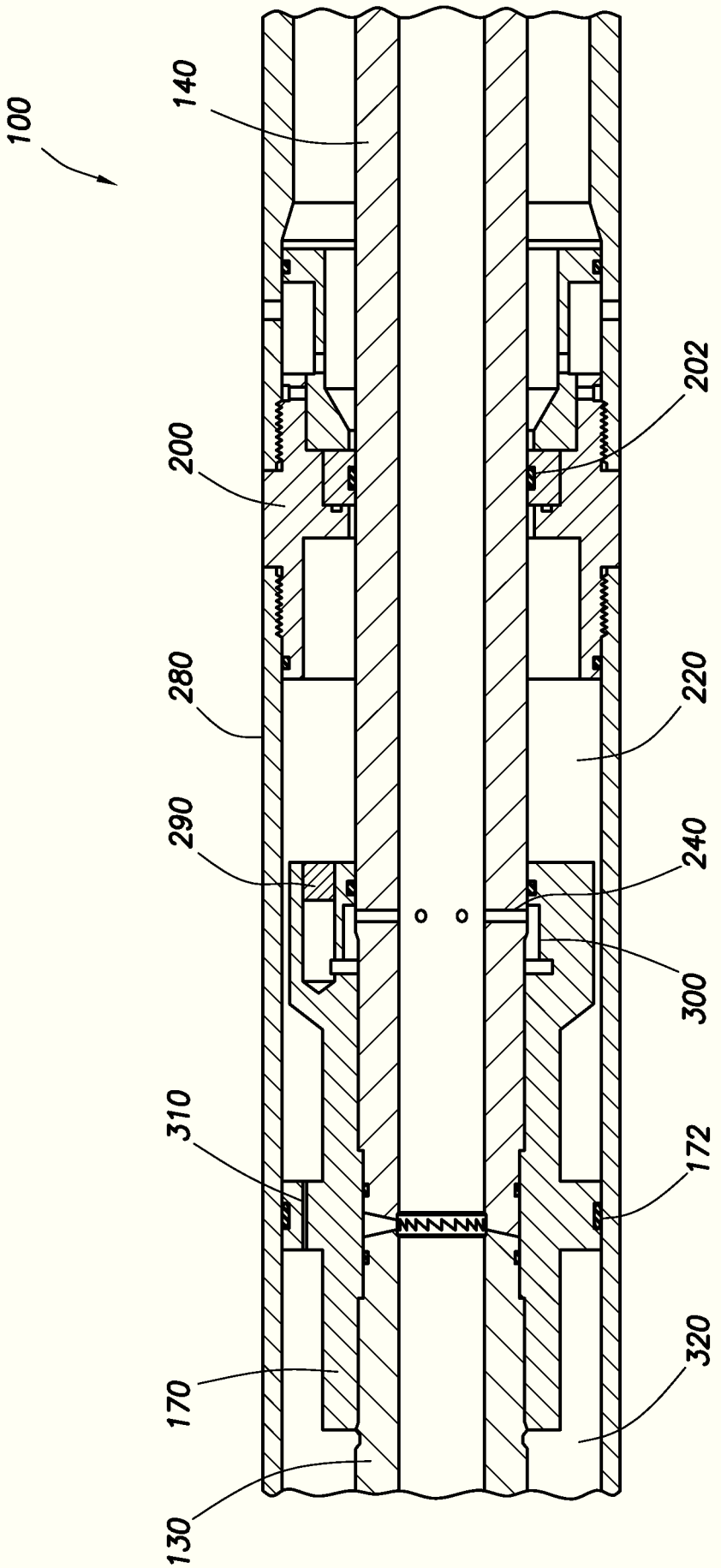

FIG.2

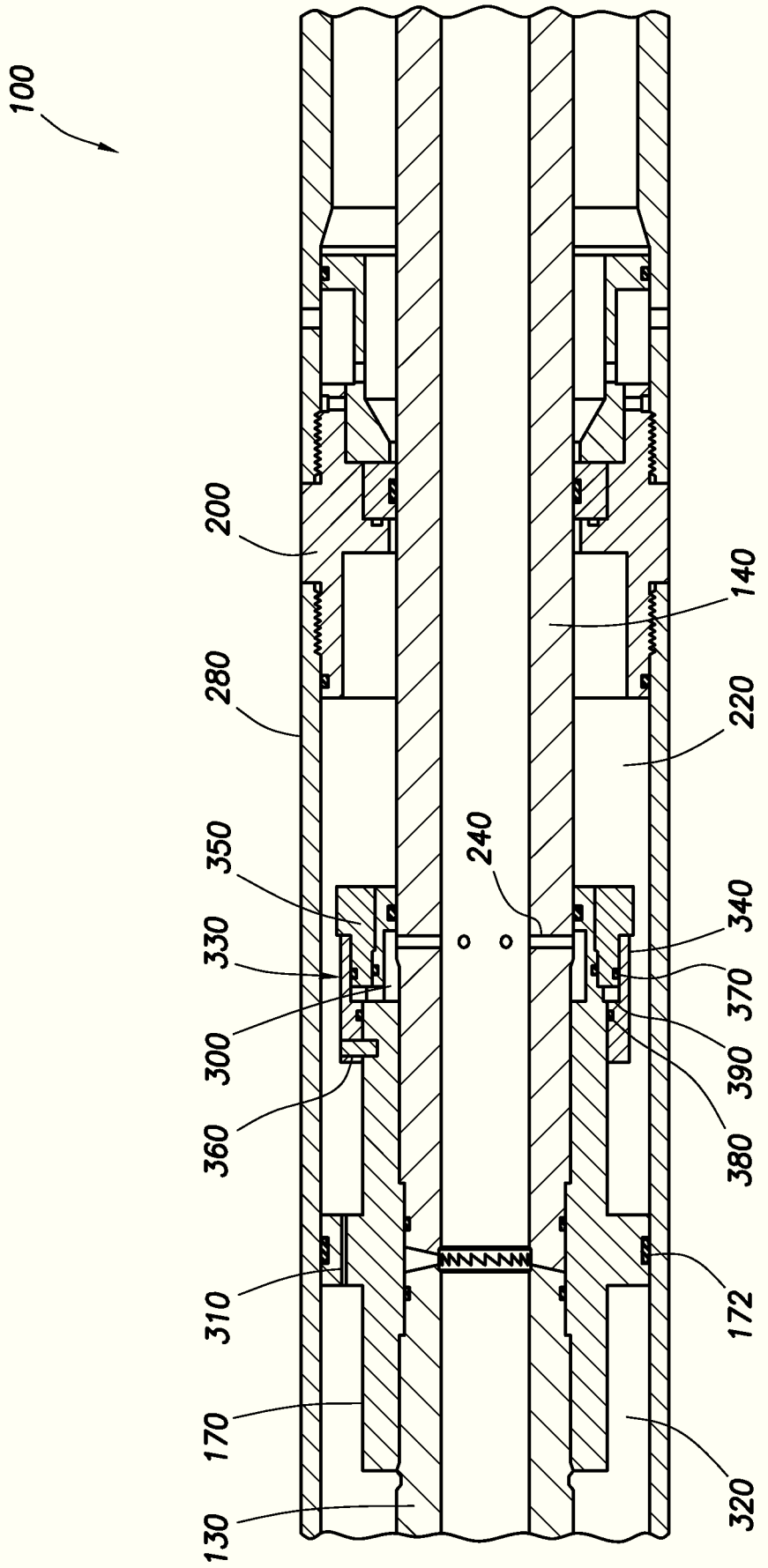
100
200
280
350
330
300
360
310
170
130
240
140
220
340
370
390
380
172
320

FIG.3

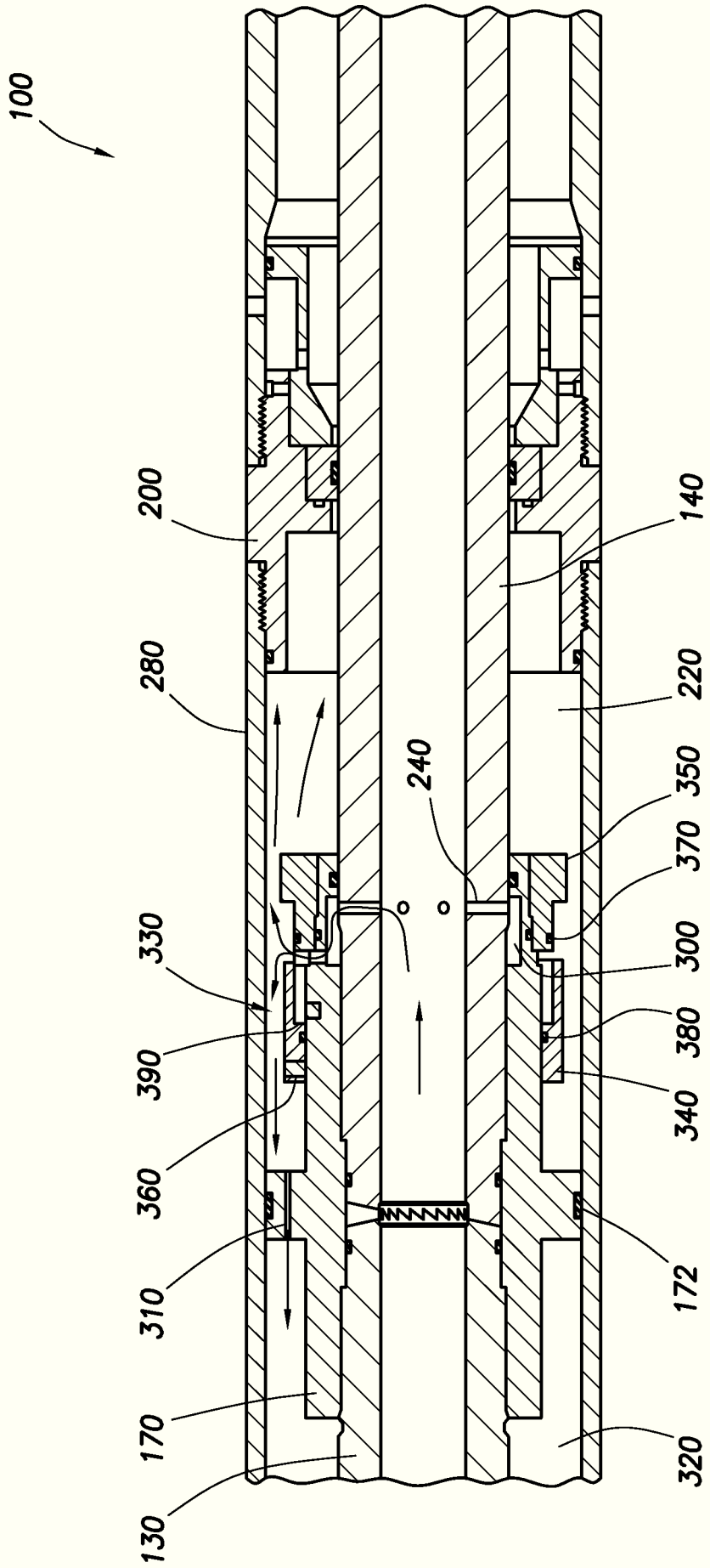
100
200
280
330
390
360
310
170
130
140
220
240
350
370
300
380
340
172
320

FIG.4

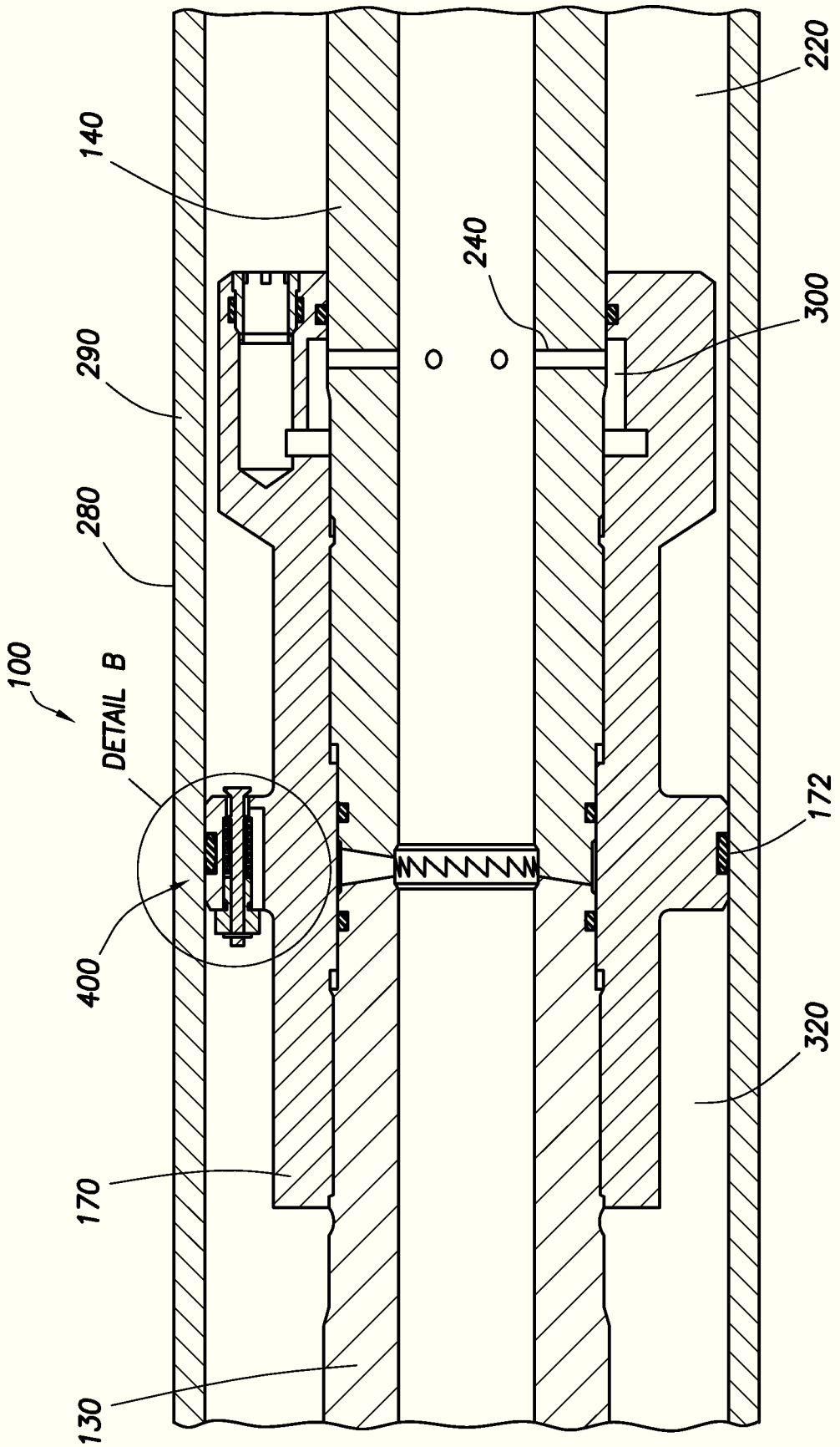

FIG.5

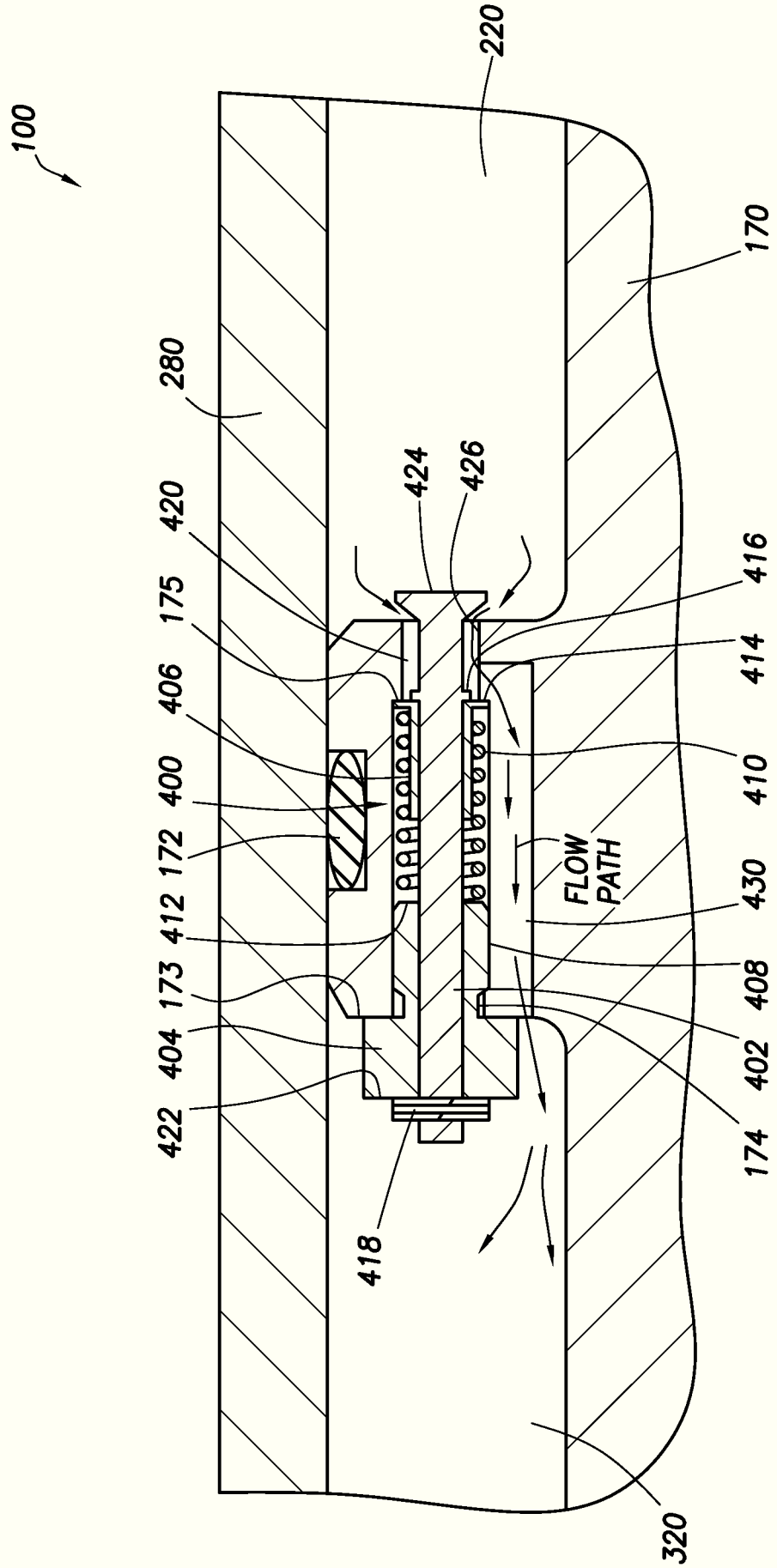
100
220
170
280
424
426
420
416
175
414
406
410
400
FLOW
PATH
172
430
412
408
173
402
404
174
422
418
320

FIG.6

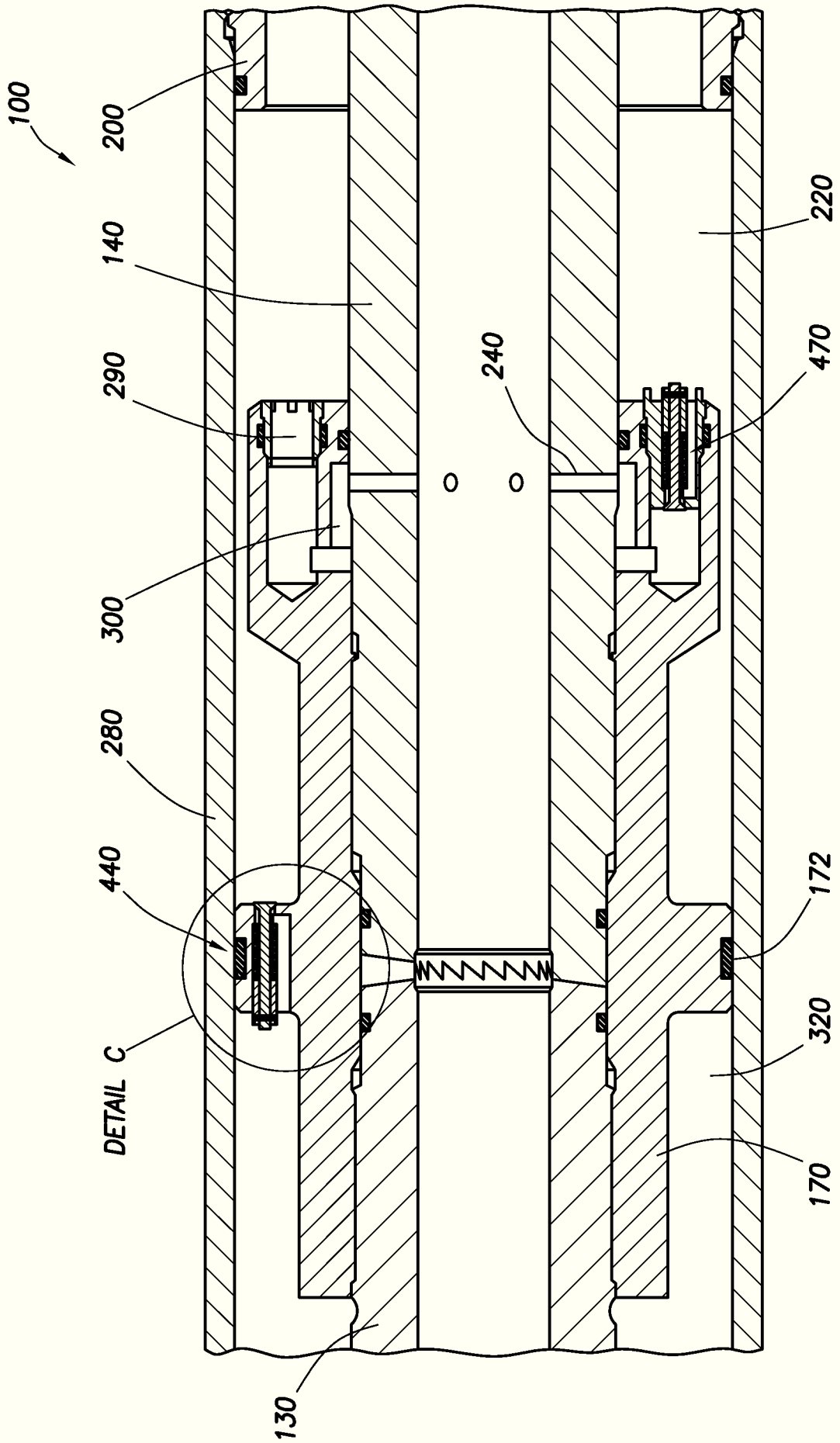

FIG.7

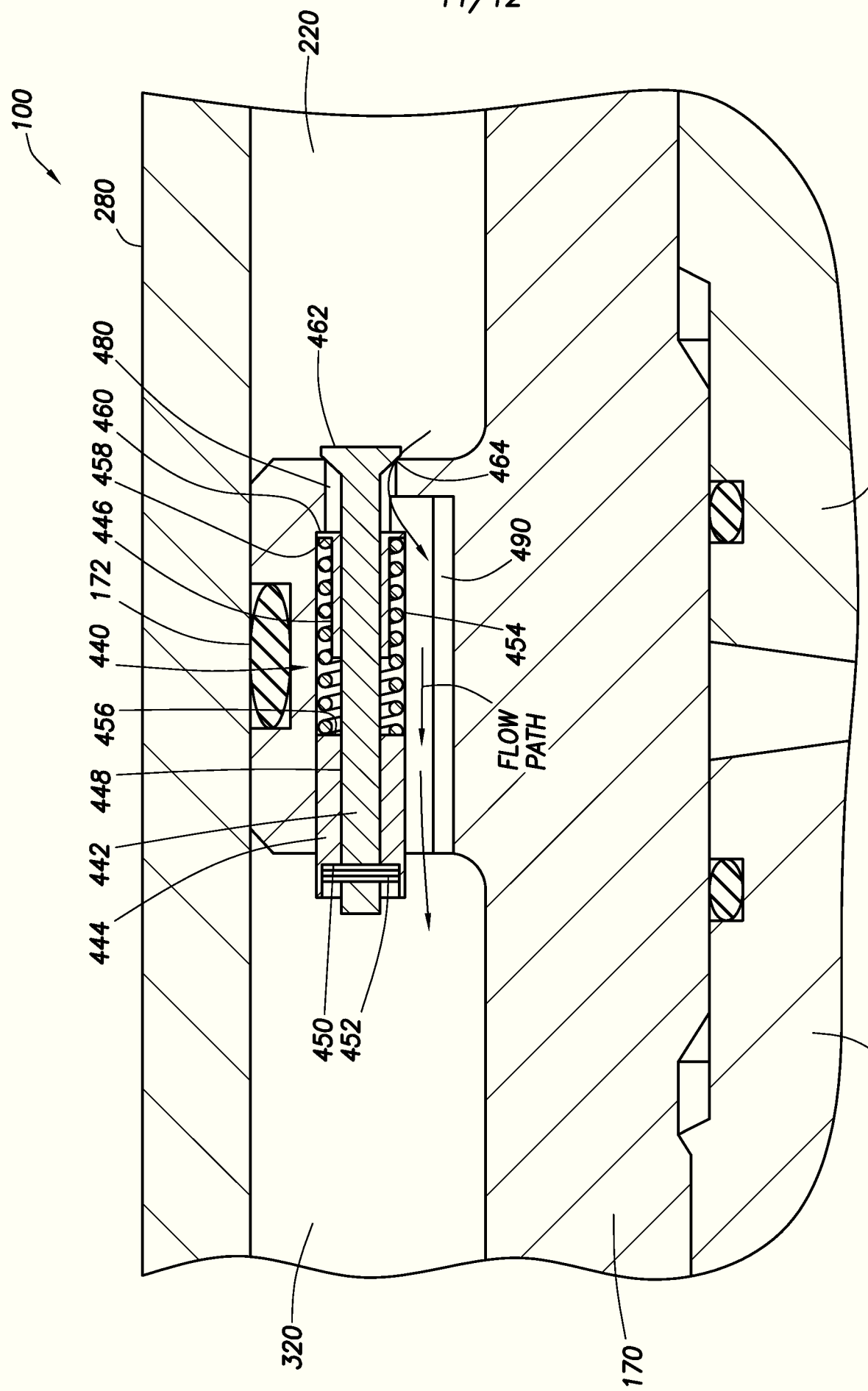
100
220
280
462
480
460
458
446
172
440
456
448
442
444
464
490
454
FLOW
PATH
450
452
140
130
320
170

FIG.8

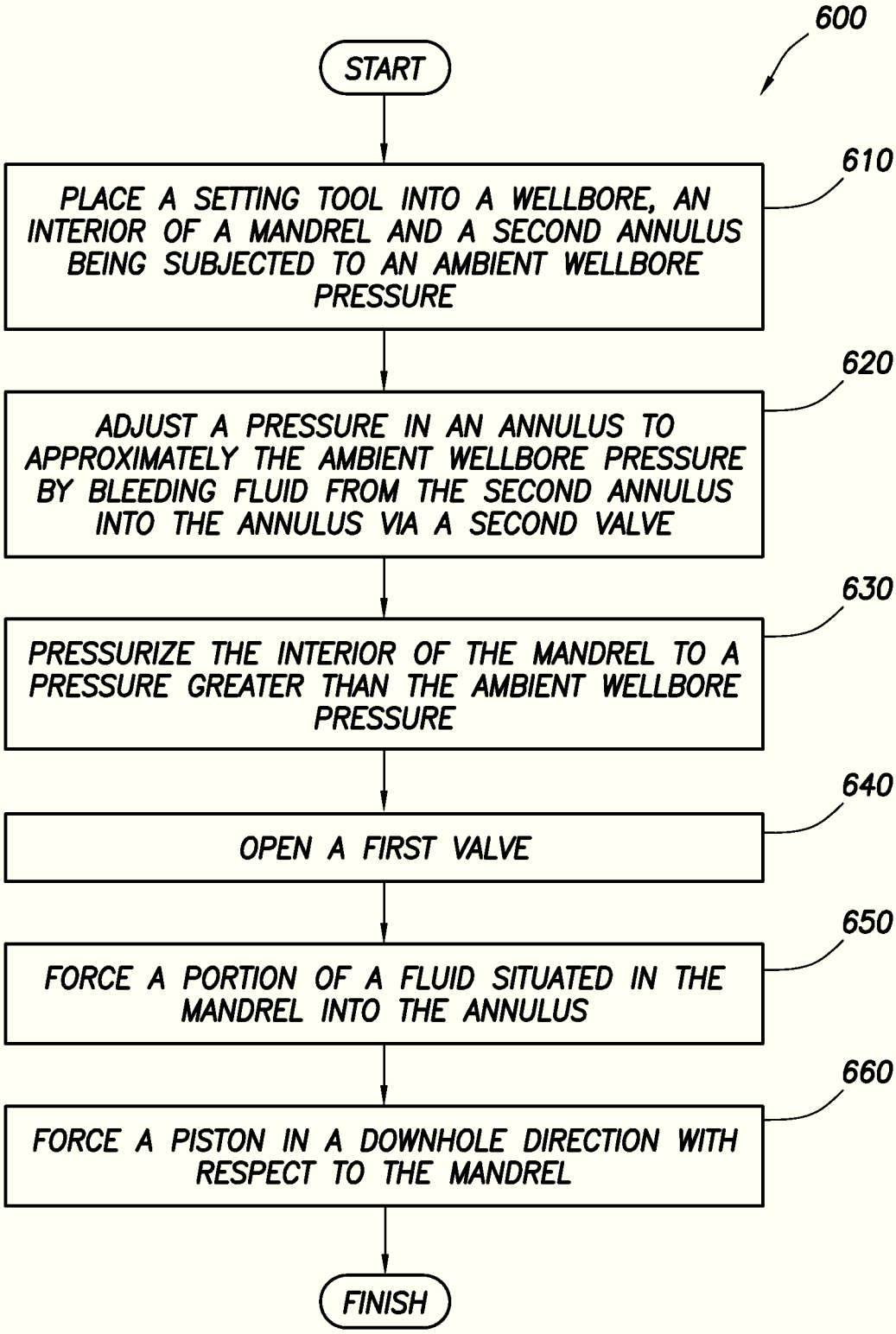
600
START
PLACE A SETTING TOOL INTO A WELLBORE, AN INTERIOR OF A MANDREL AND A SECOND ANNULUS BEING SUBJECTED TO AN AMBIENT WELLBORE PRESSURE
610
ADJUST A PRESSURE IN AN ANNULUS TO APPROXIMATELY THE AMBIENT WELLBORE PRESSURE BY BLEEDING FLUID FROM THE SECOND ANNULUS INTO THE ANNULUS VIA A SECOND VALVE
620
PRESSURIZE THE INTERIOR OF THE MANDREL TO A PRESSURE GREATER THAN THE AMBIENT WELLBORE PRESSURE
630
OPEN A FIRST VALVE
640
FORCE A PORTION OF A FLUID SITUATED IN THE MANDREL INTO THE ANNULUS
650
FORCE A PISTON IN A DOWNHOLE DIRECTION WITH RESPECT TO THE MANDREL
660
FINISH

FIG.9