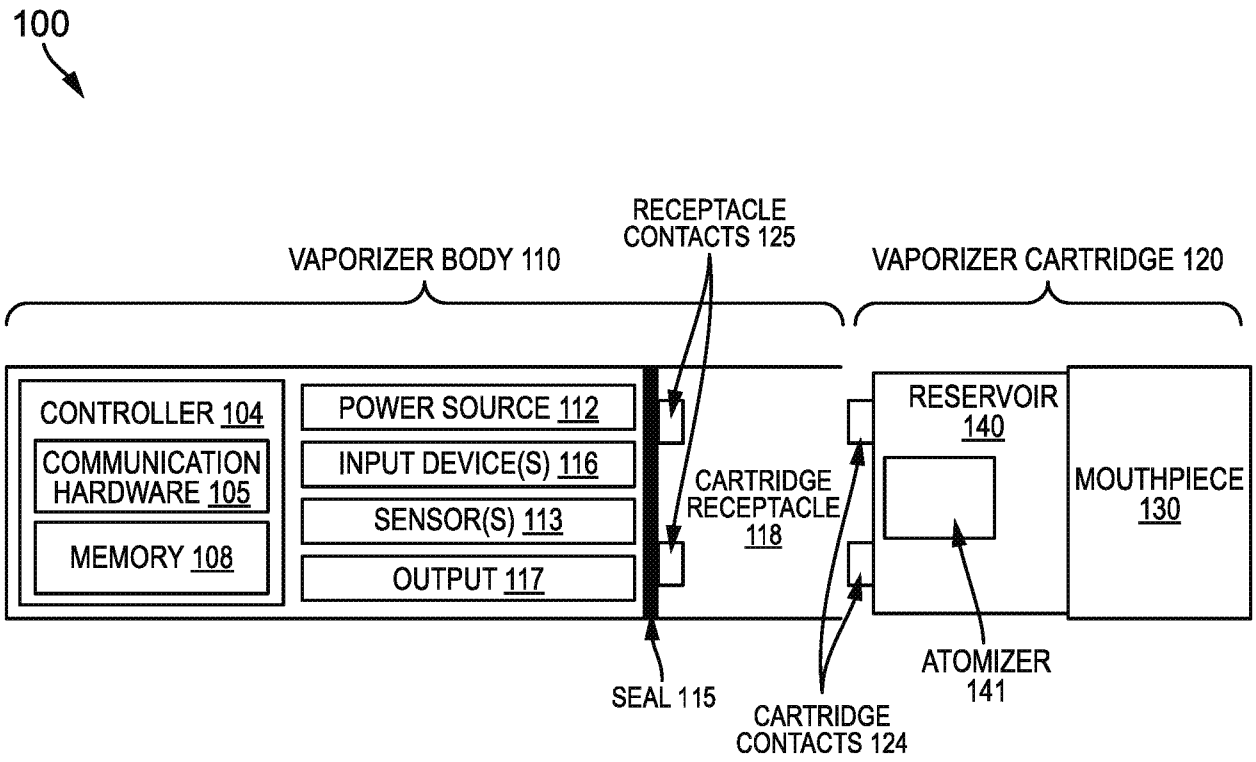

100
VAPORIZER BODY 110
RECEPTACLE CONTACTS 125
VAPORIZER CARTRIDGE 120
CONTROLLER 104
COMMUNICATION HARDWARE 105
MEMORY 108
POWER SOURCE 112
INPUT DEVICE(S) 116
SENSOR(S) 113
OUTPUT 117
CARTRIDGE RECEPTACLE 118
RESERVOIR 140
MOUTHPIECE 130
ATOMIZER 141
SEAL 115
CARTRIDGE CONTACTS 124

FIG. 1

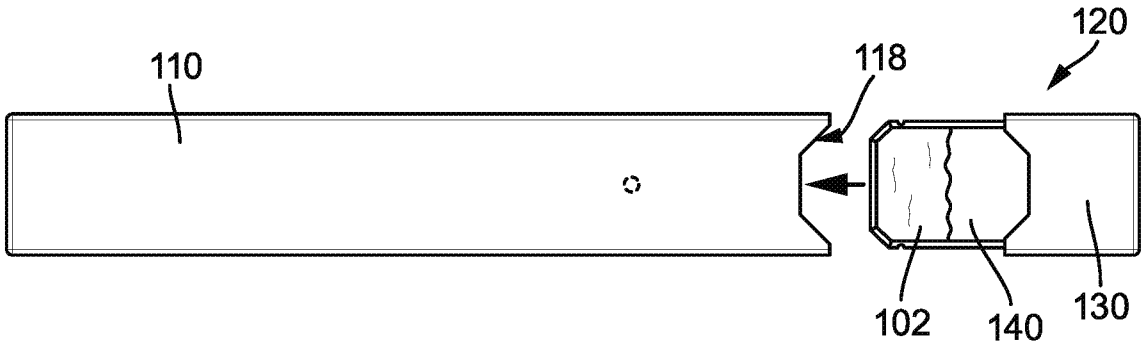

110
118
120
102
140
130

FIG. 2A

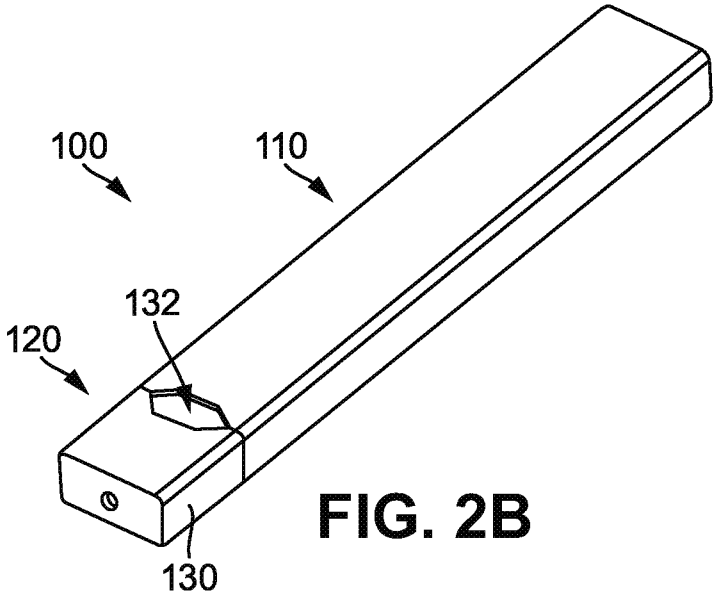


FIG. 2B

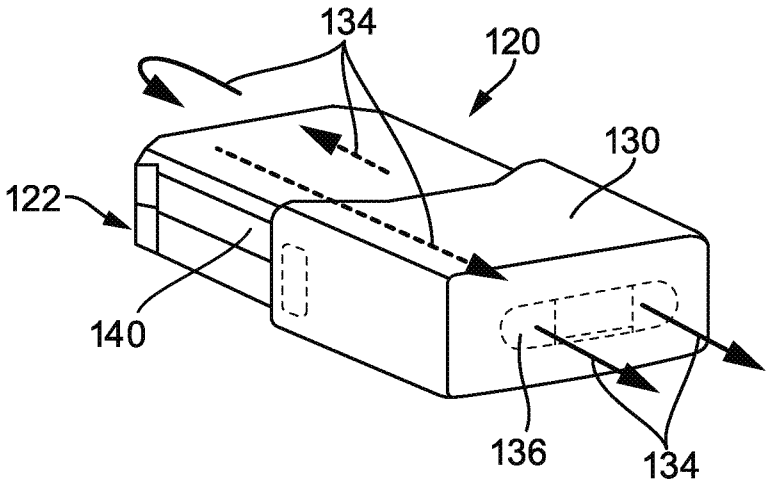


FIG. 2C

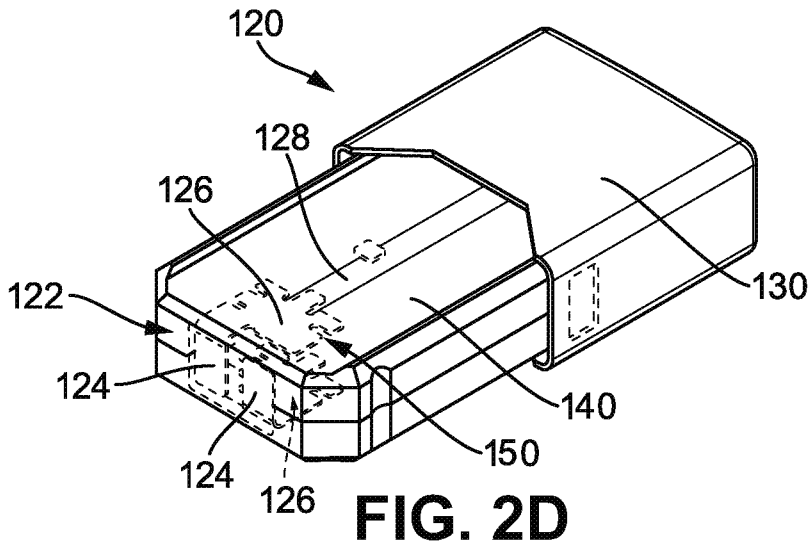


FIG. 2D

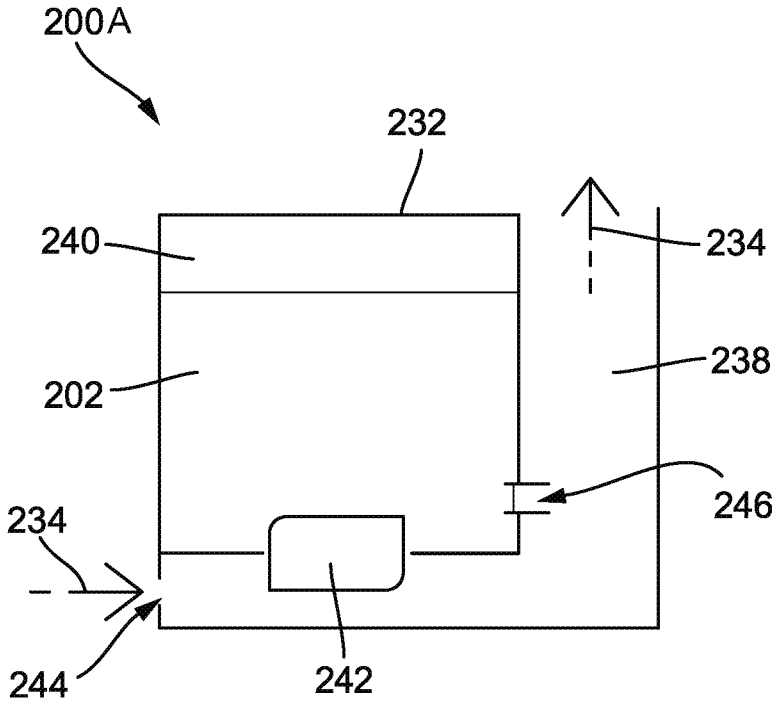

200A
232
240
234
238
202
246
234
244
242

FIG. 2E

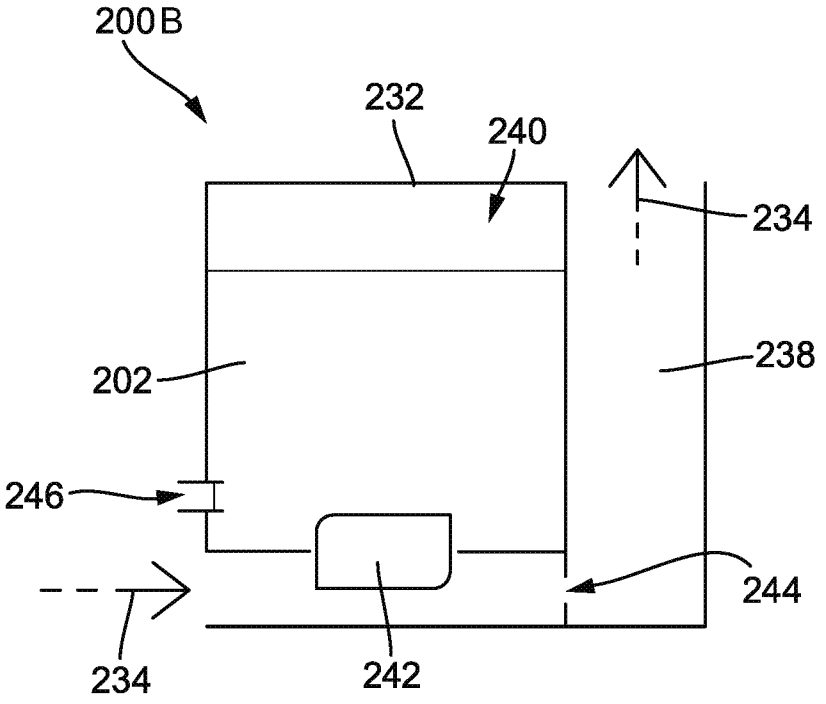

200B
232
240
234
238
202
246
244
234
242

FIG. 2F

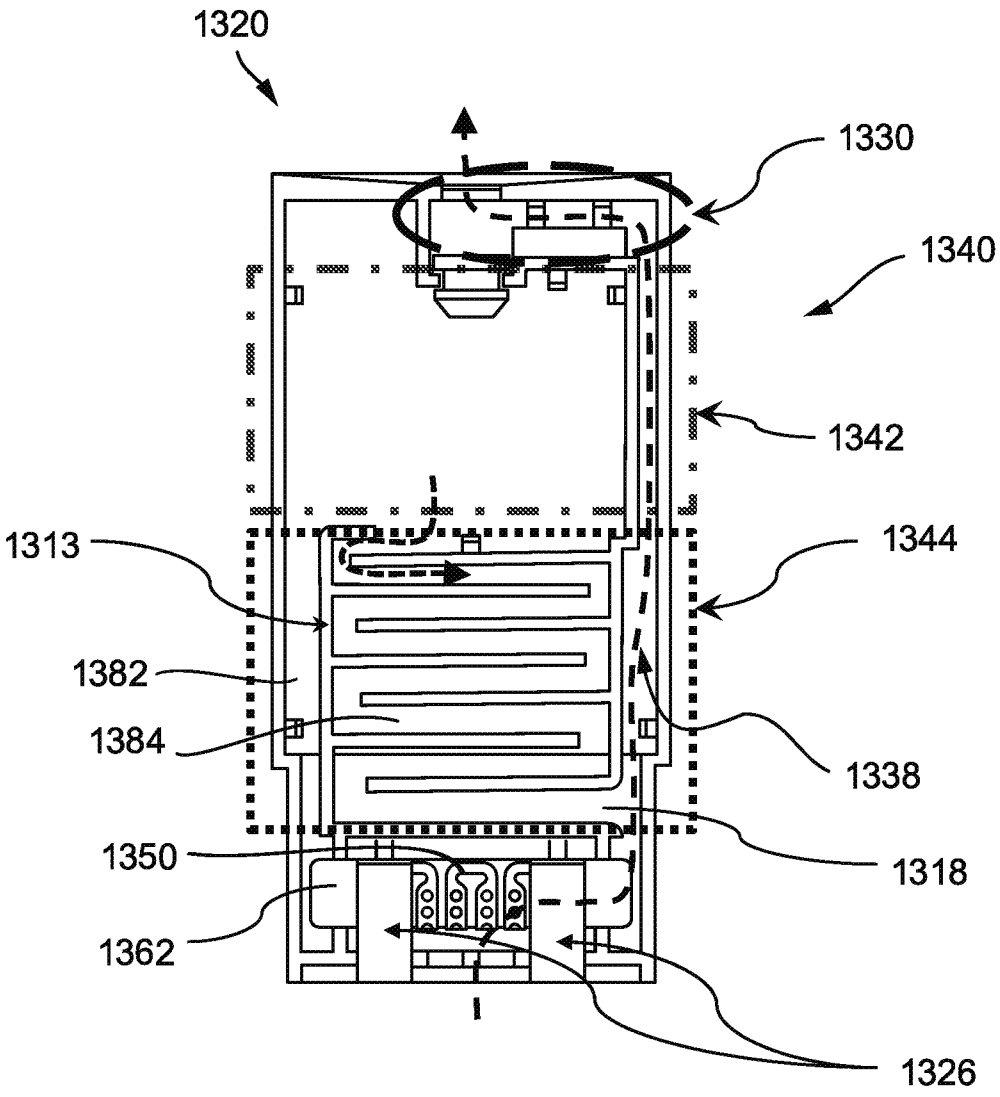

1320
1330
1340
1342
1313
1344
1382
1384
1338
1350
1318
1362
1326

FIG. 3A

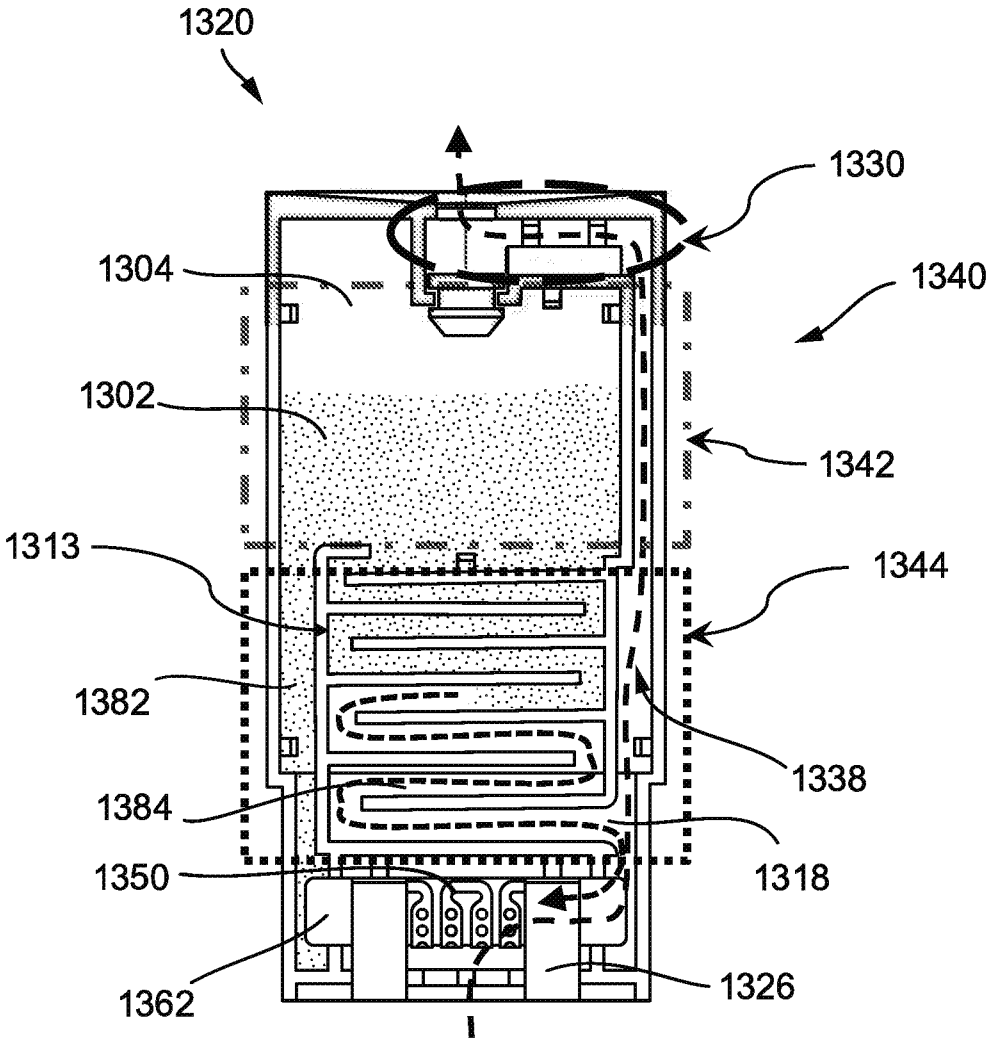

1320
1330
1304
1340
1302
1342
1313
1344
1382
1338
1384
1318
1350
1362
1326

FIG. 3B

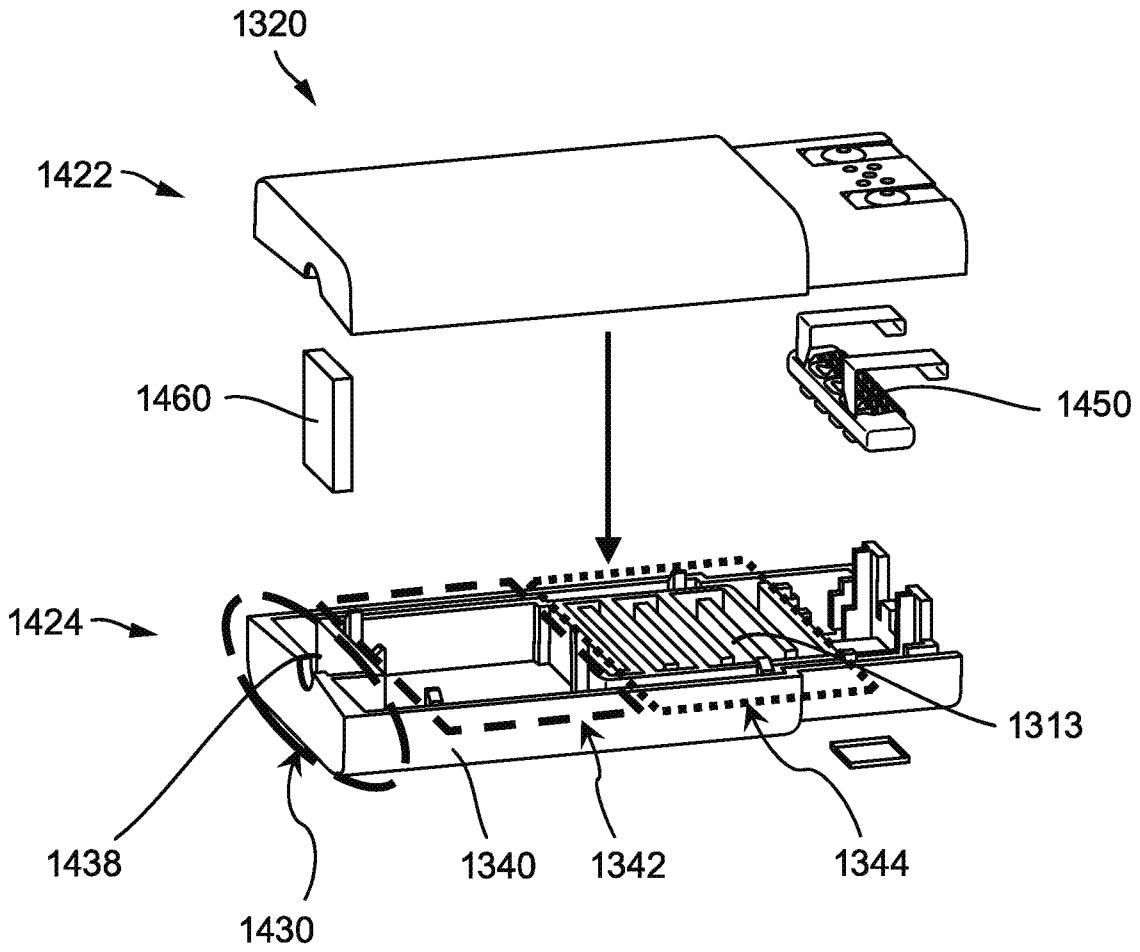

1320
1422
1460
1450
1424
1313
1438
1340
1342
1344
1430

FIG. 4

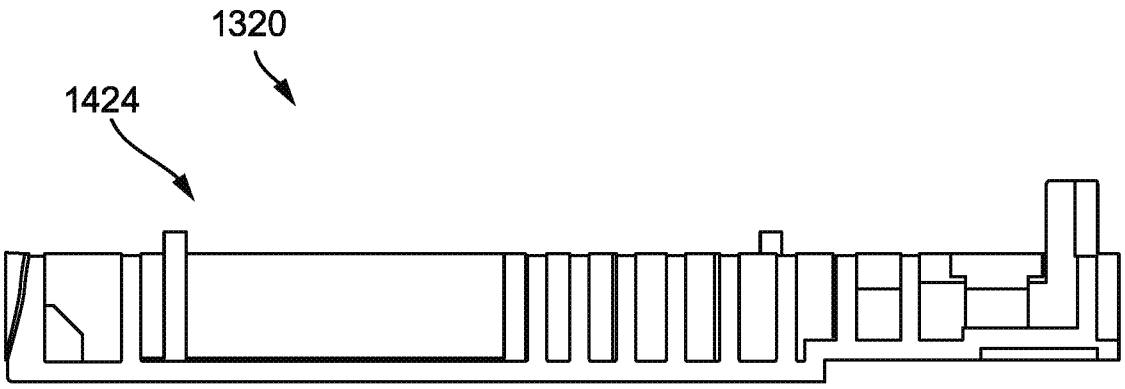

1320
1424

FIG. 5

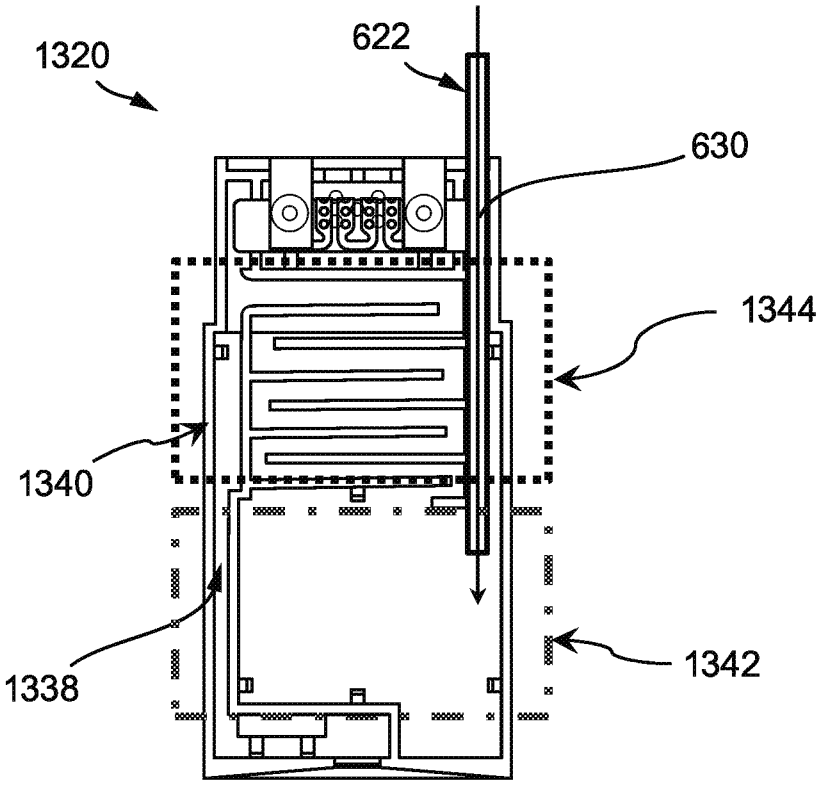


FIG. 6A

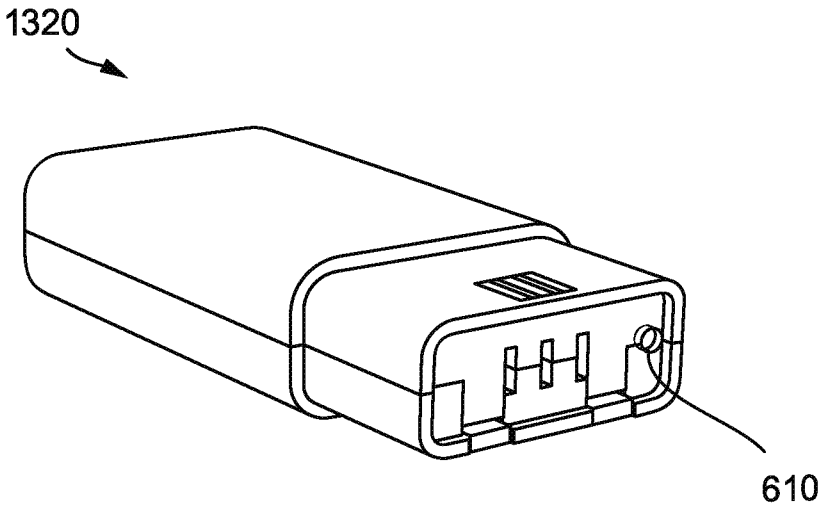


FIG. 6B

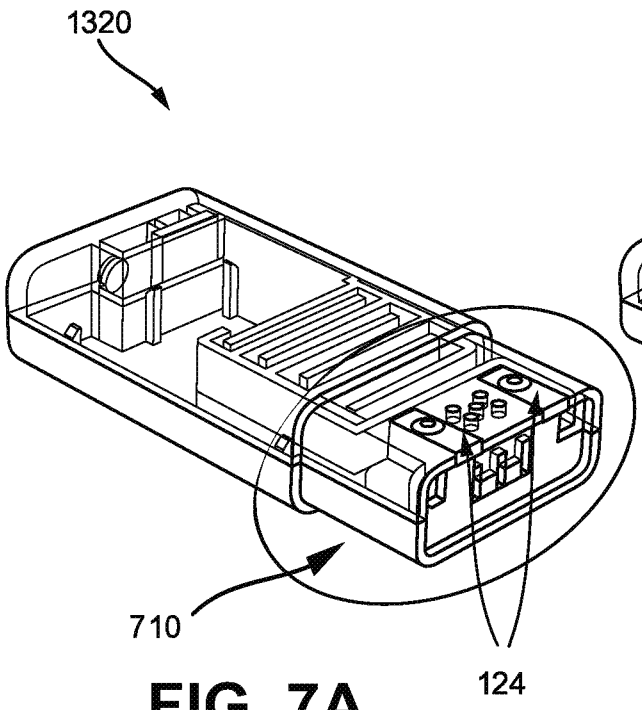


FIG. 7A

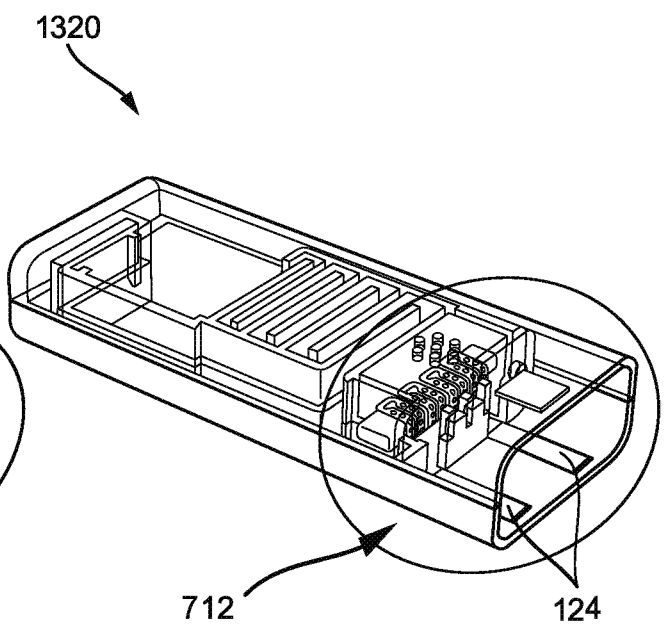


FIG. 7B

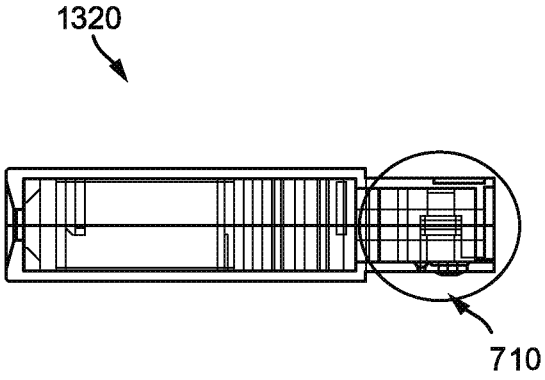


FIG. 7C

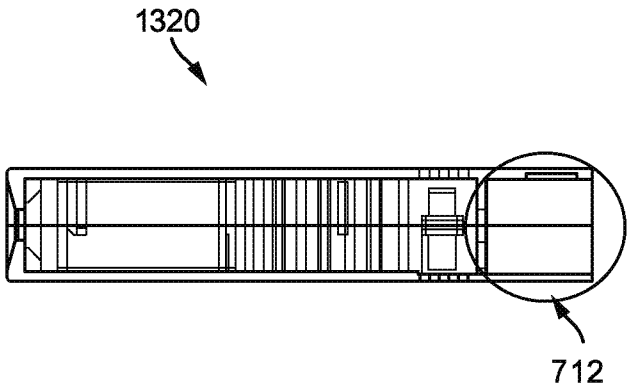


FIG. 7D

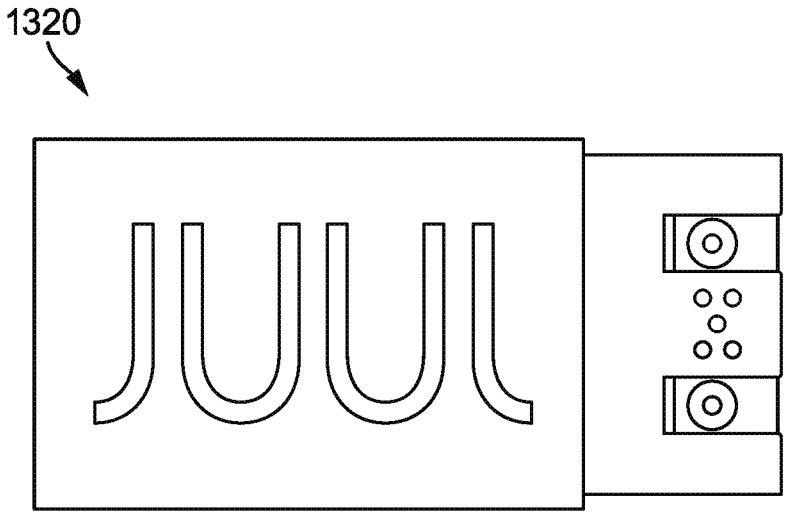


FIG. 8

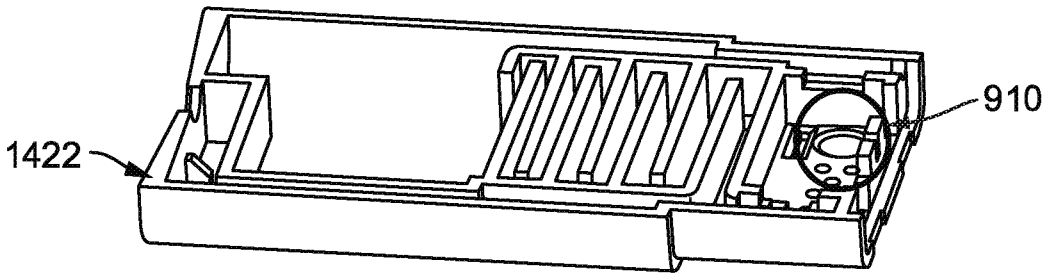


FIG. 9A

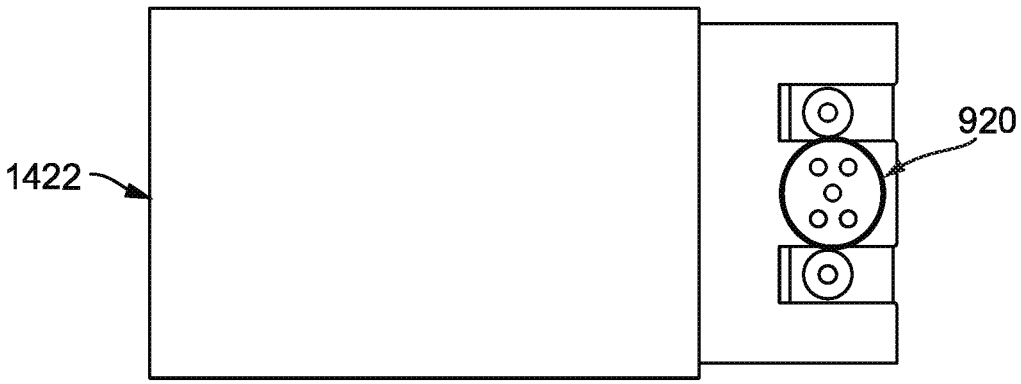


FIG. 9B

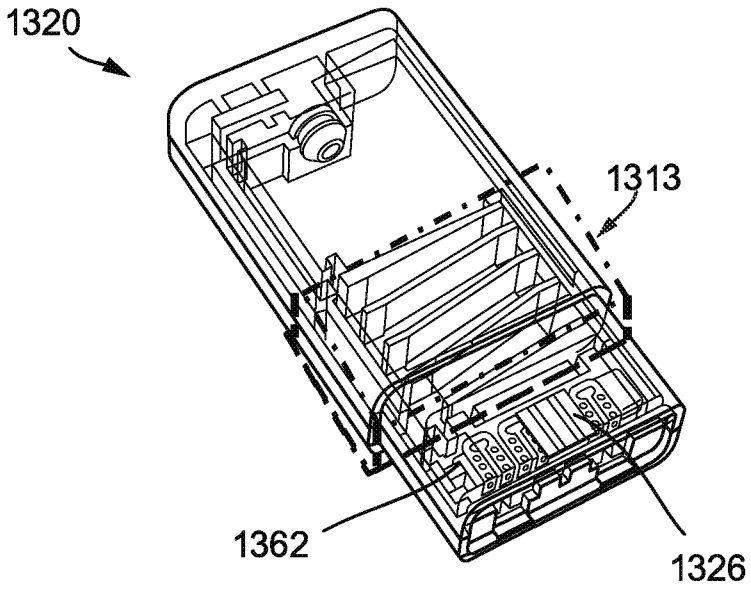


FIG. 10A

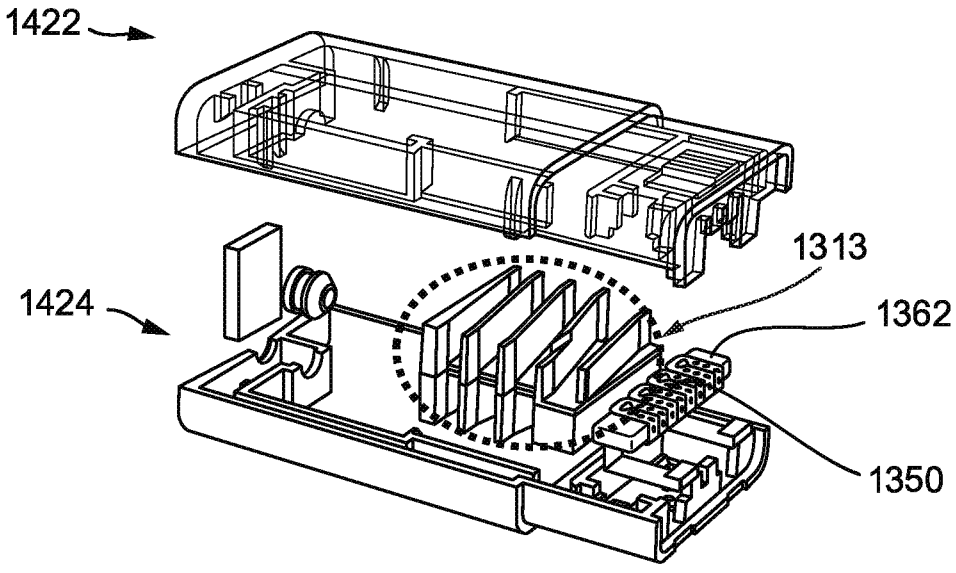


FIG. 10B

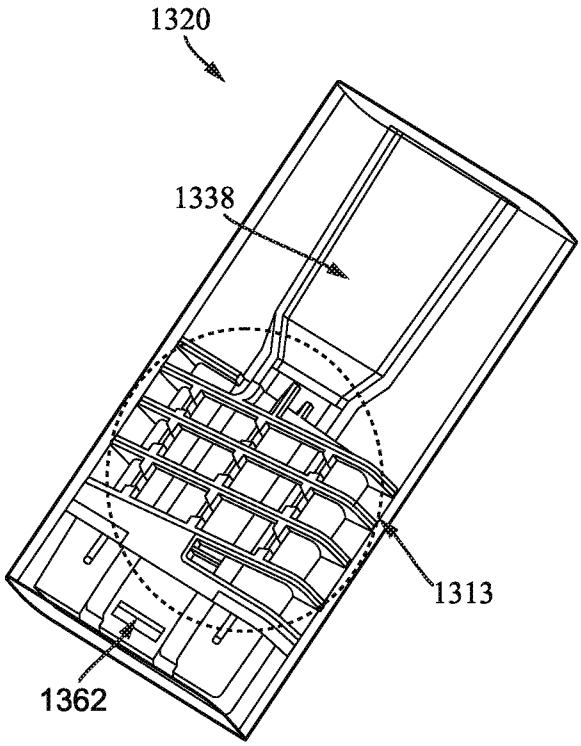


FIG. 10C

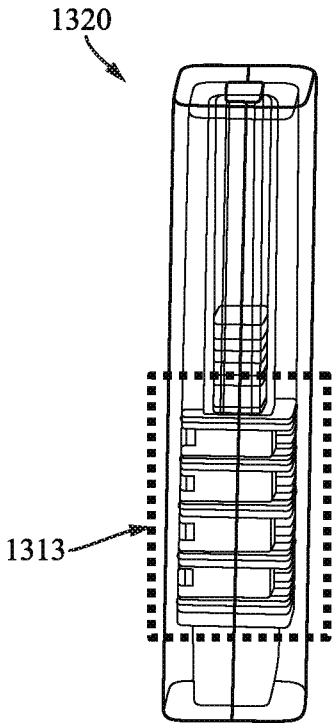


FIG. 10D

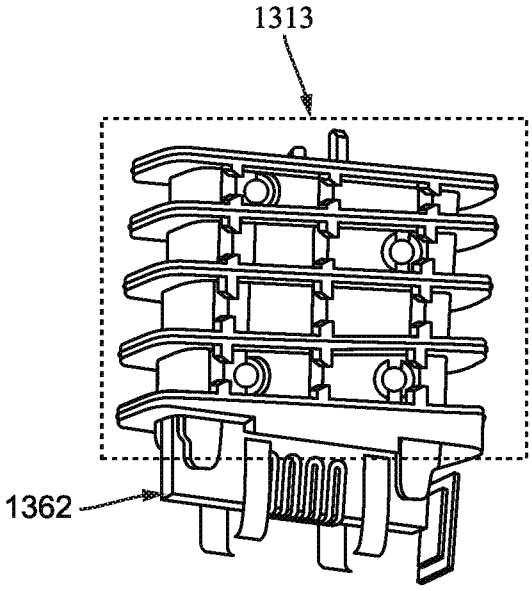


FIG. 10E

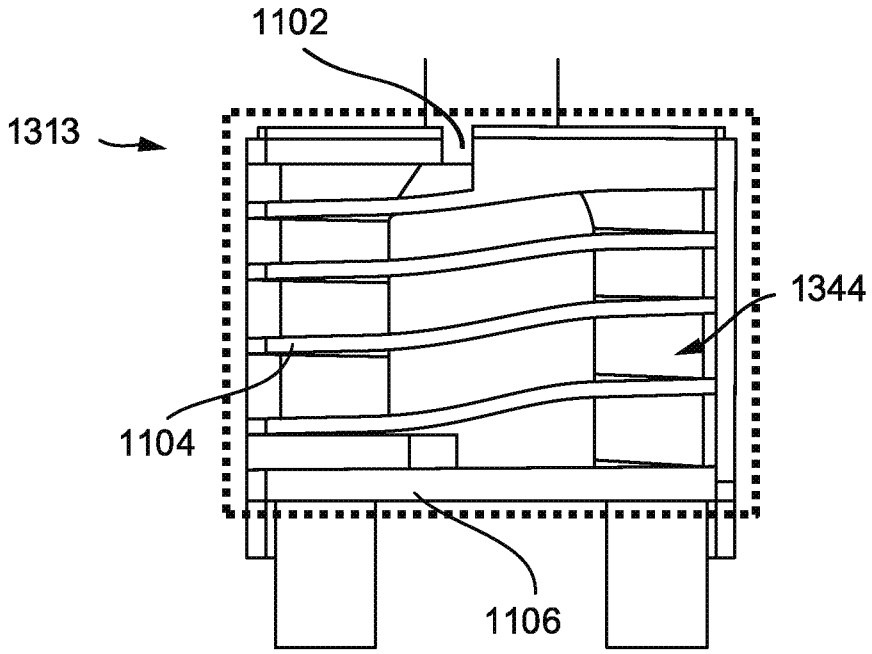


FIG. 11A

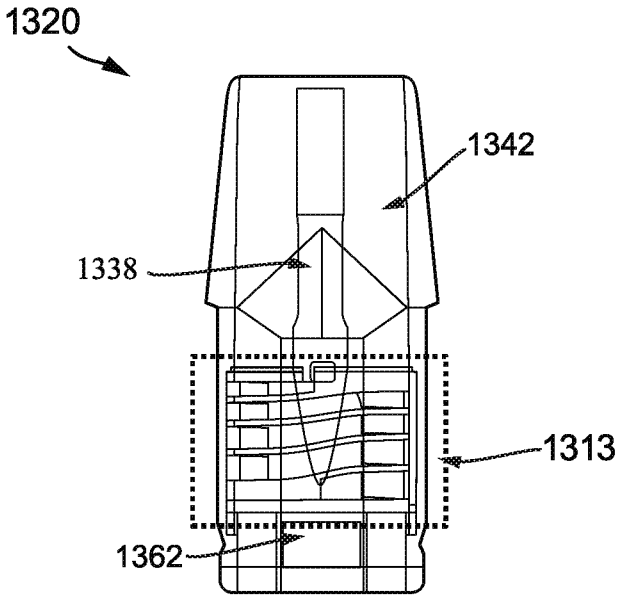


FIG. 11B

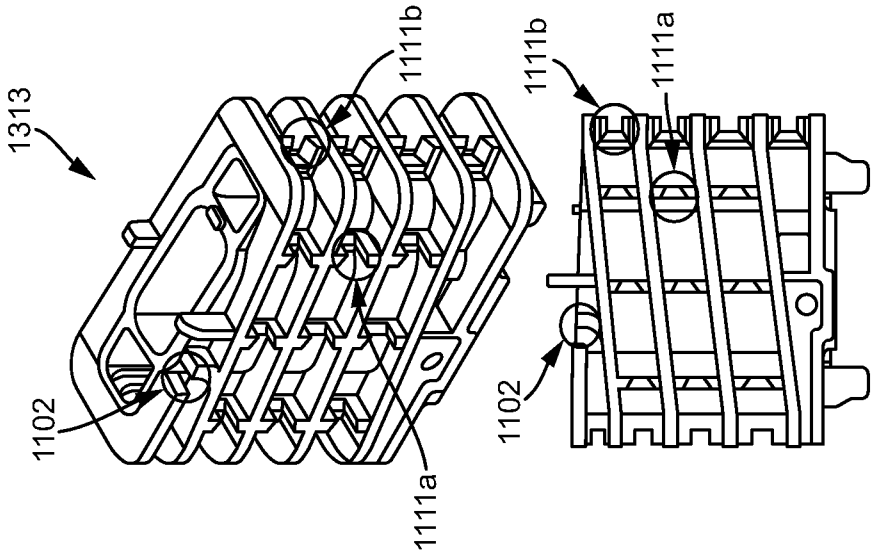


FIG. 11E

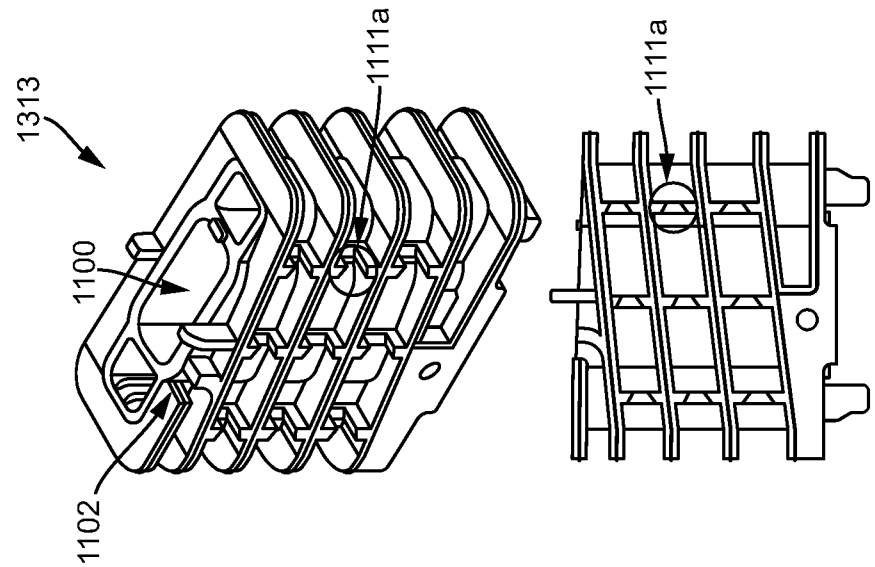


FIG. 11D

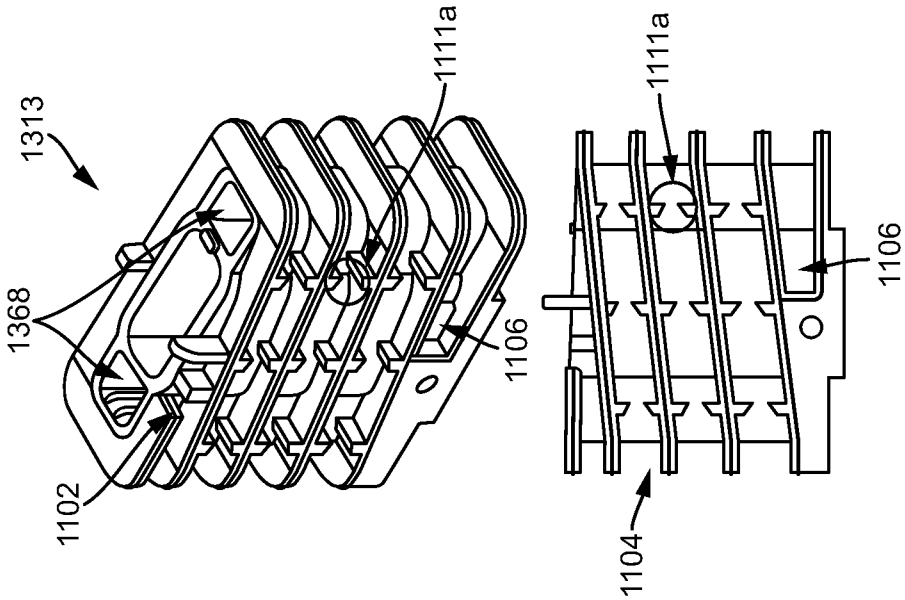


FIG. 11C

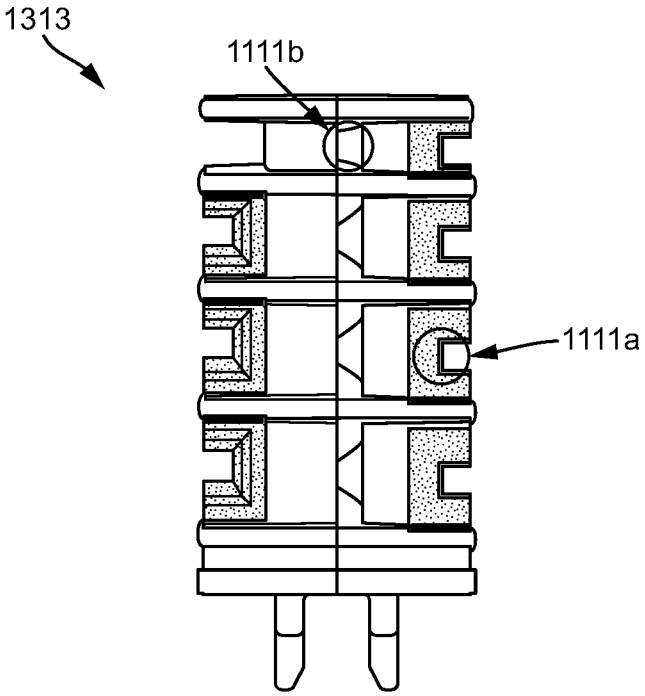


FIG. 11F

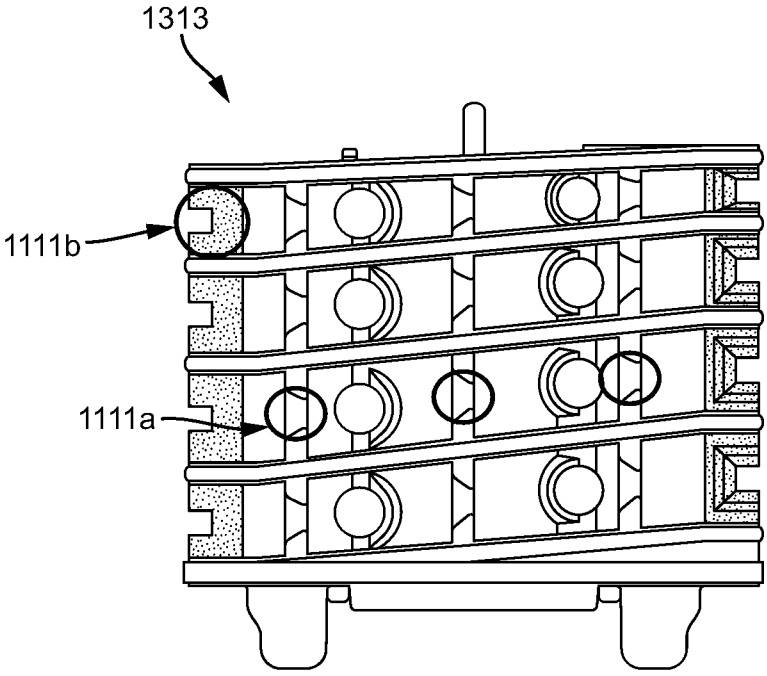


FIG. 11G

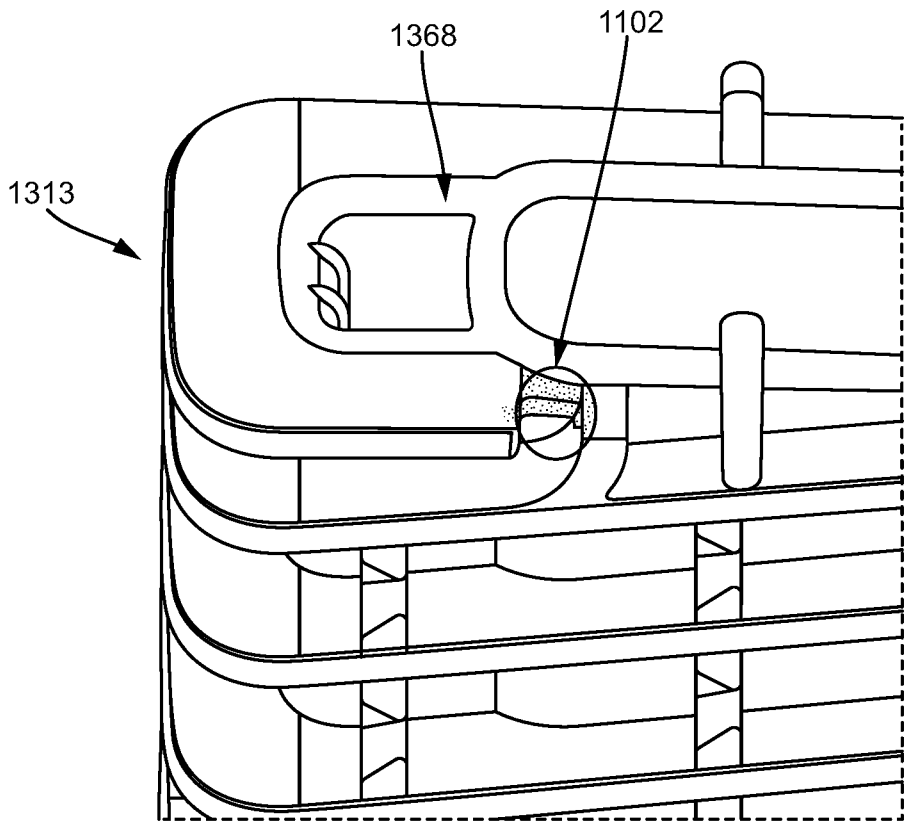


FIG. 11H

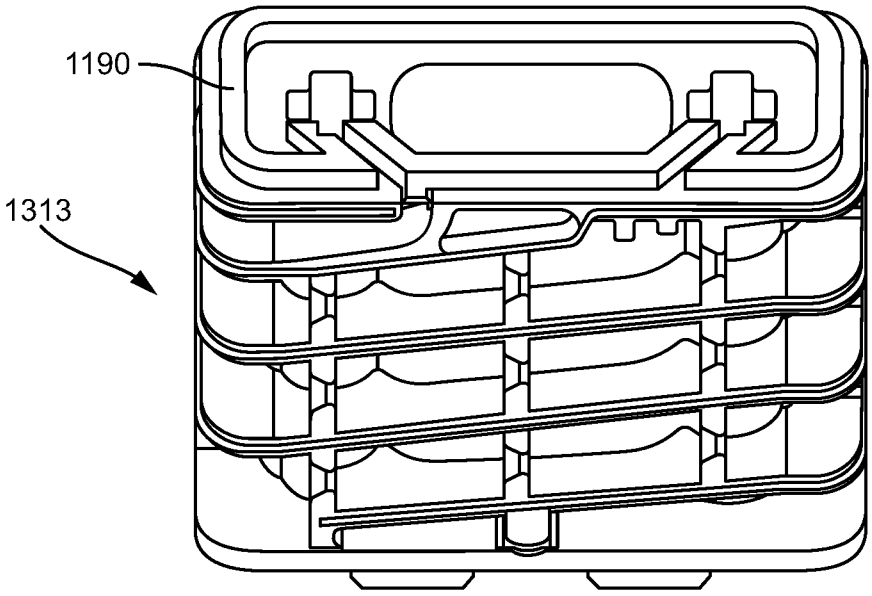


FIG. 11I

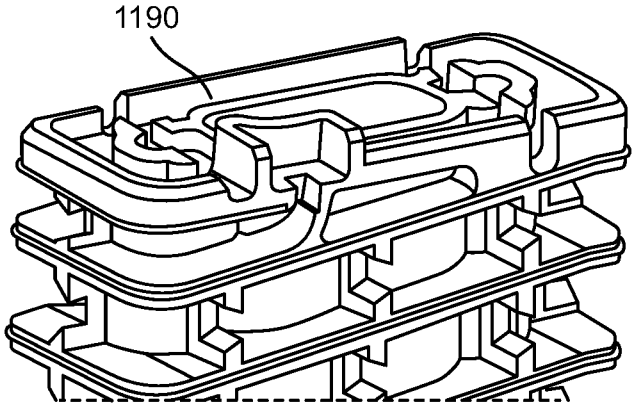


FIG. 11J

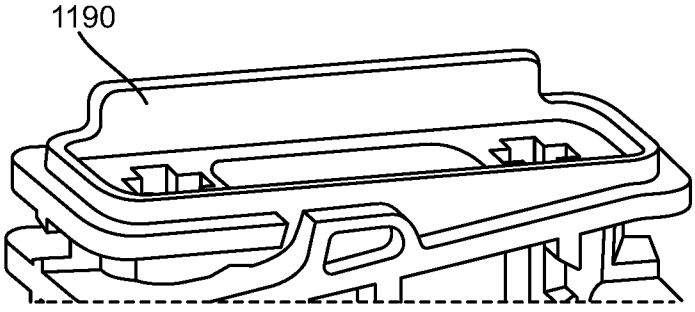


FIG. 11K

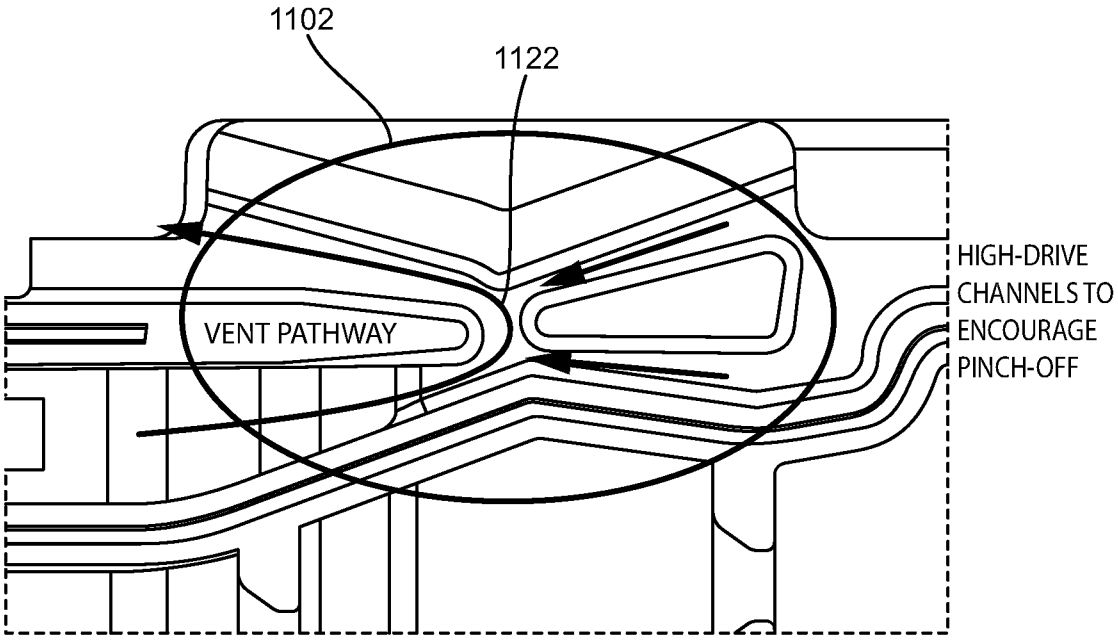

1102
1122
VENT PATHWAY
HIGH-DRIVE
CHANNELS TO
ENCOURAGE
PINCH-OFF

FIG. 11L

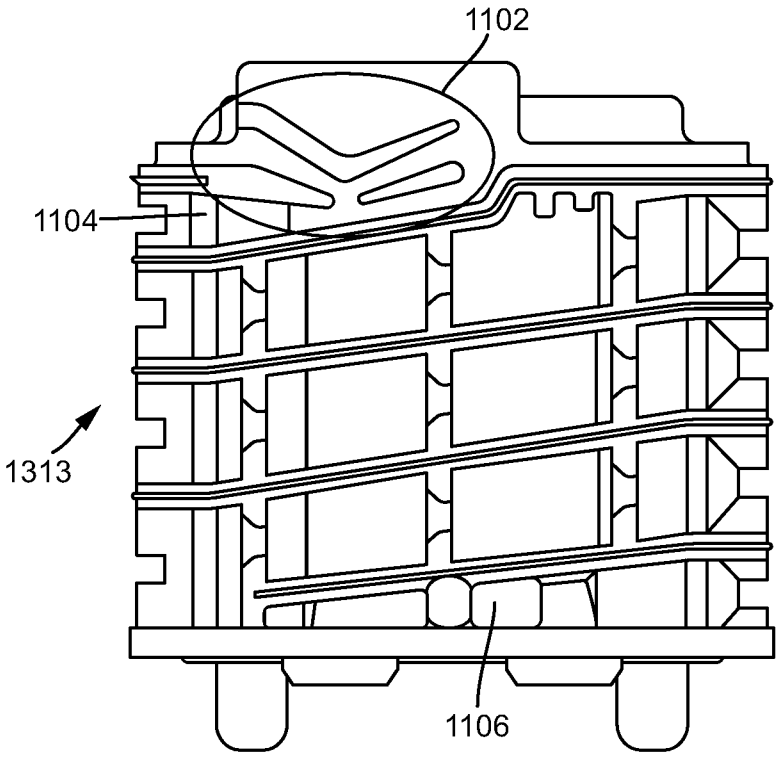


FIG. 11M

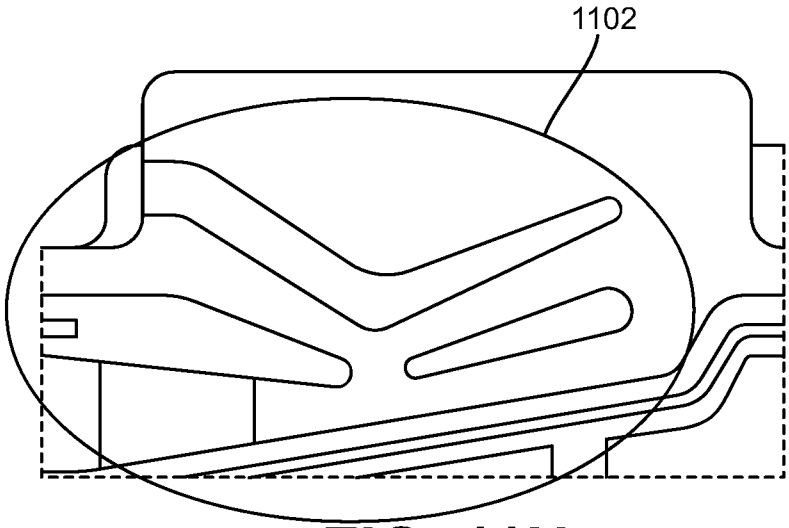


FIG. 11N

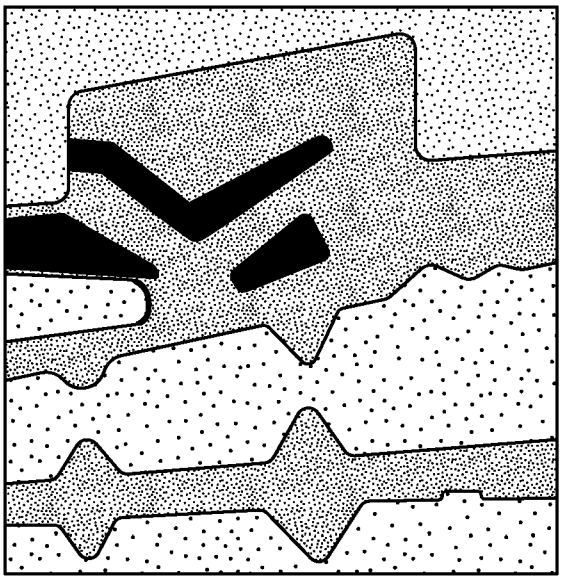


FIG. 11O

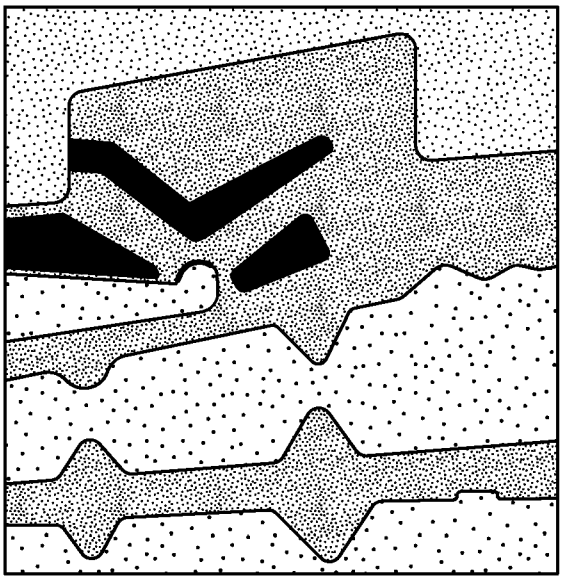


FIG. 11P

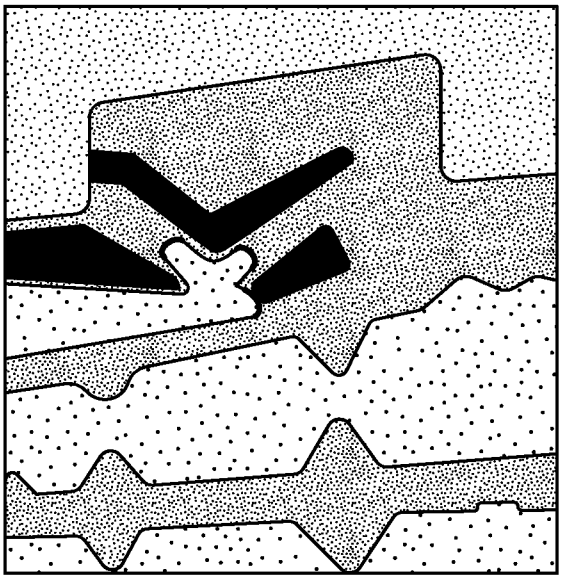


FIG. 11Q

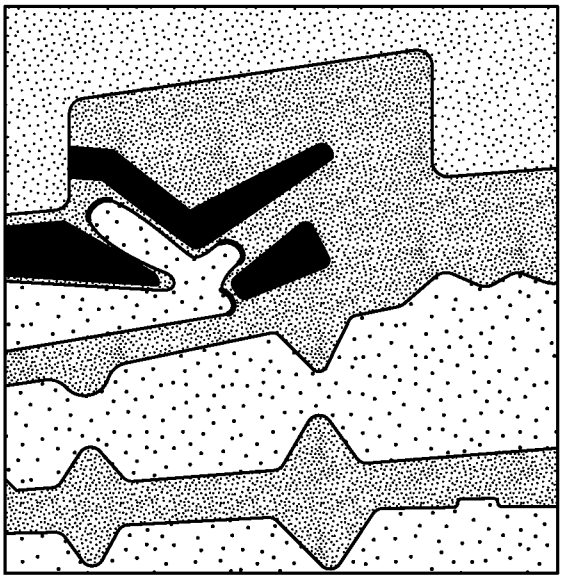


FIG. 11R

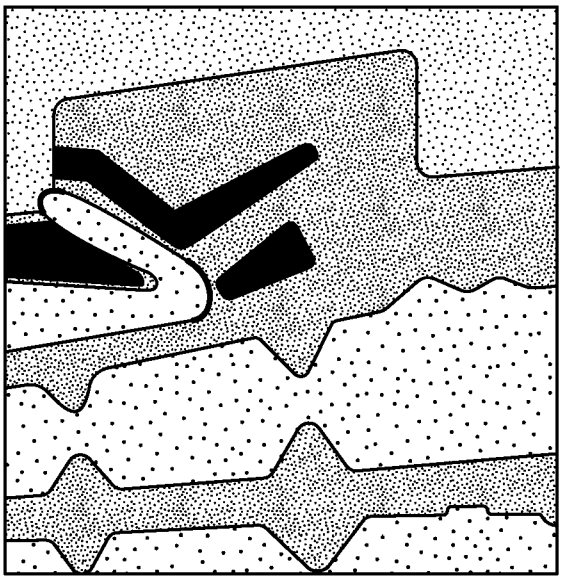


FIG. 11S

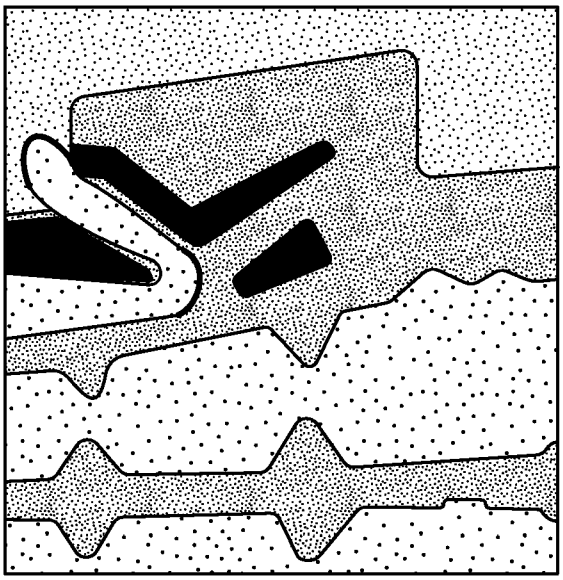


FIG. 11T

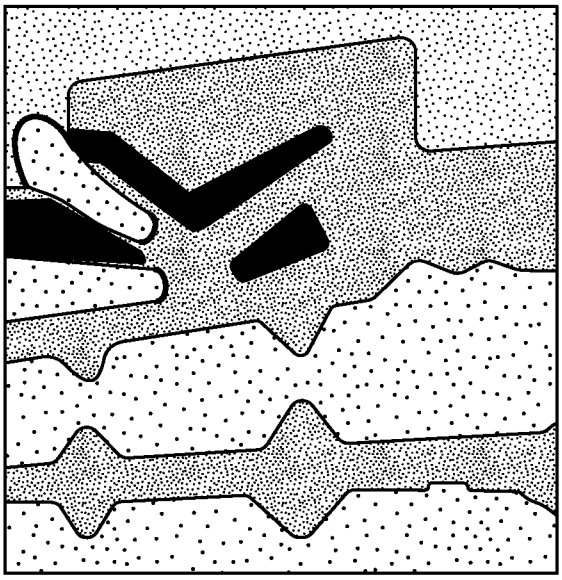


FIG. 11U

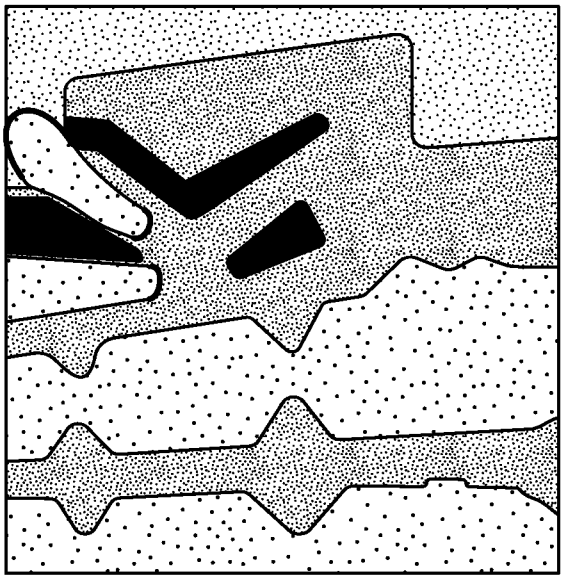


FIG. 11V

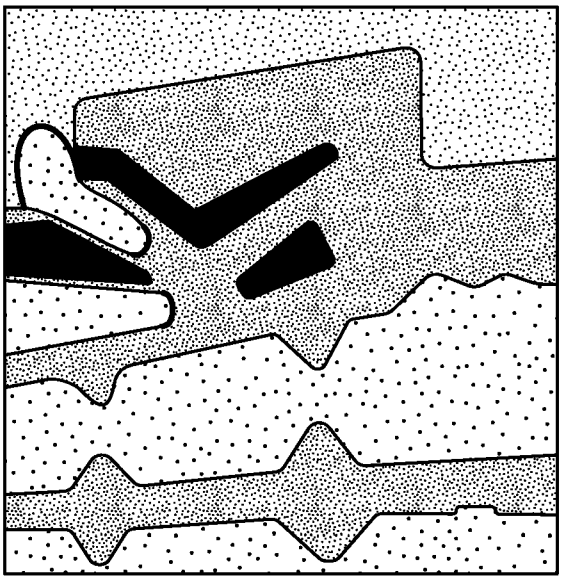


FIG. 11W

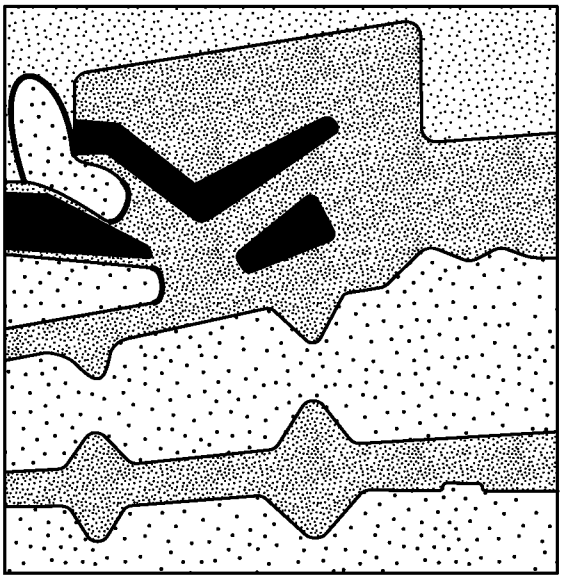


FIG. 11X

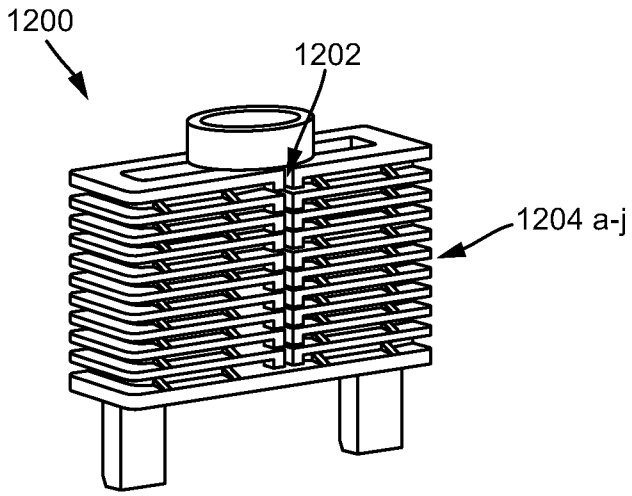


FIG. 12A

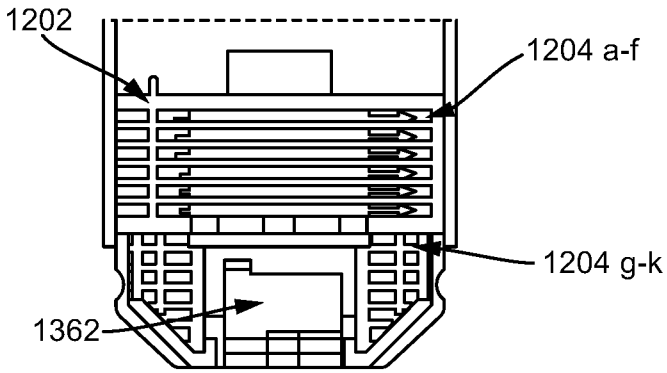


FIG. 12B

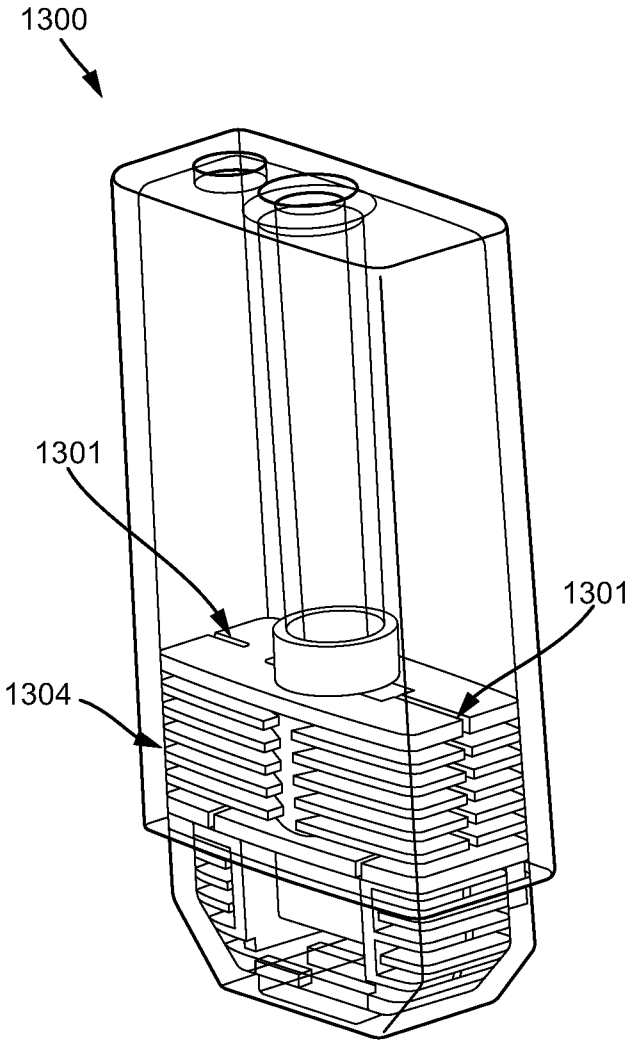


FIG. 13

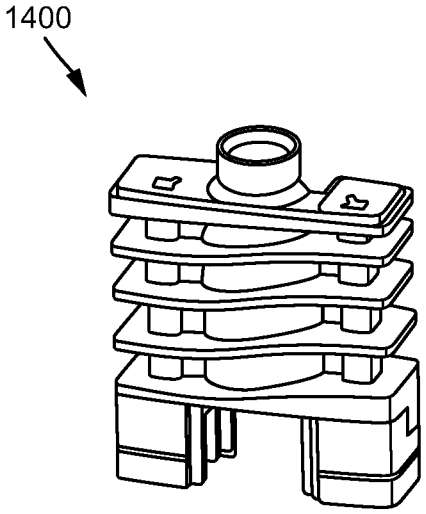


FIG. 14A

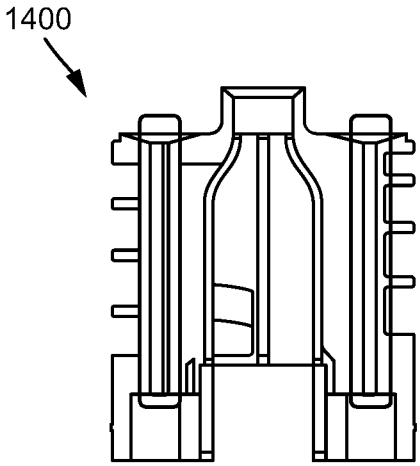


FIG. 14B

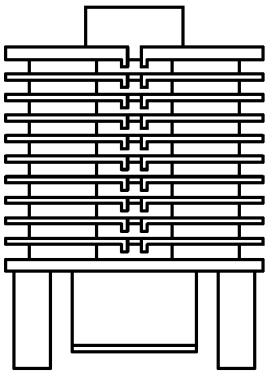


FIG. 15A

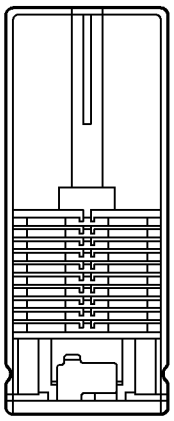


FIG. 15B

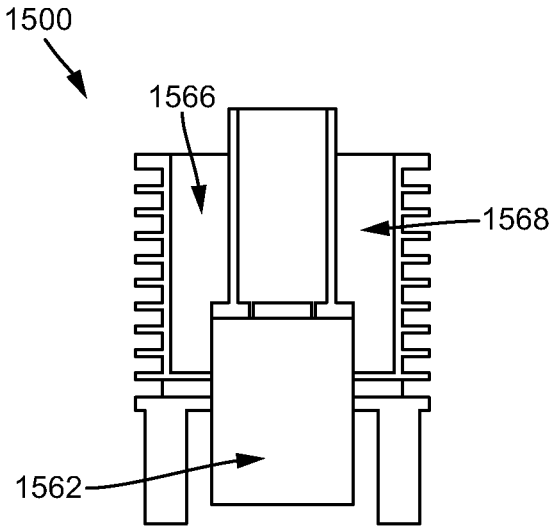


FIG. 15C

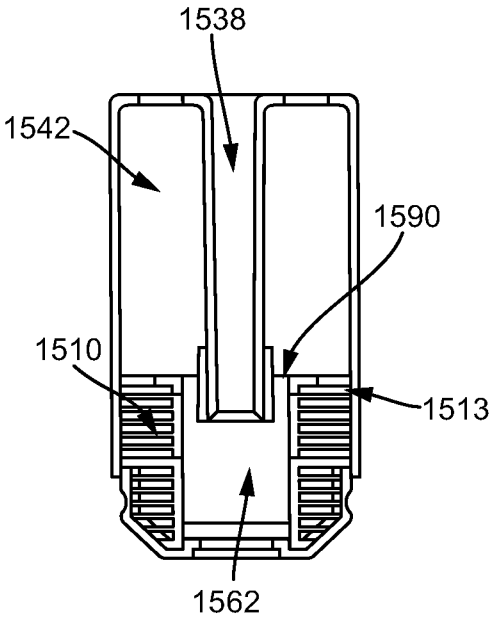


FIG. 16A

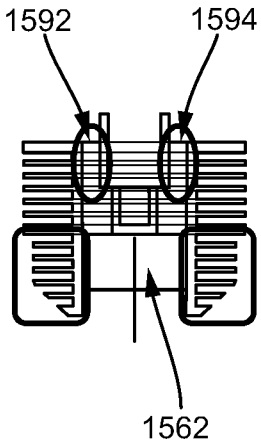


FIG. 16B

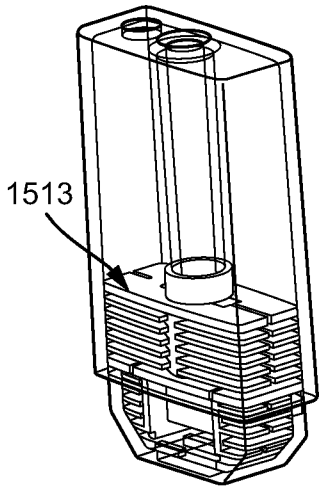


FIG. 16C

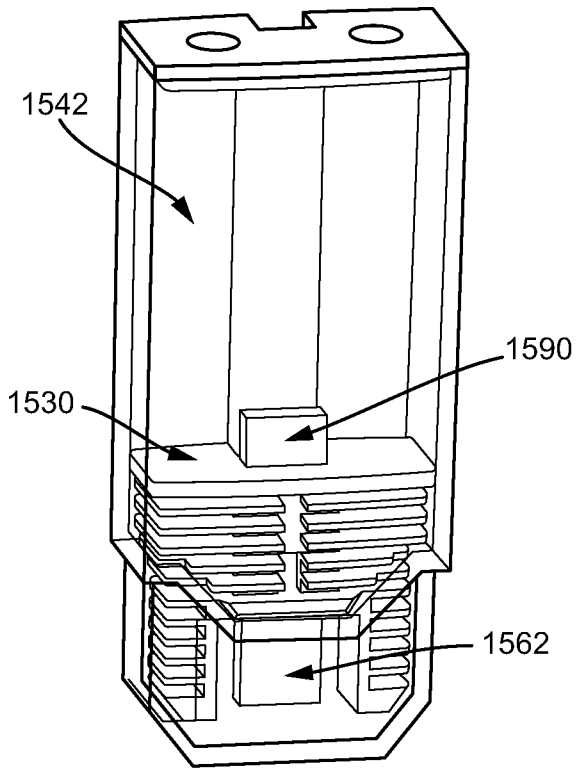


FIG. 17A

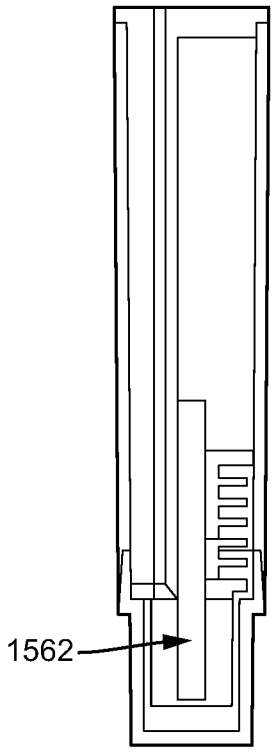


FIG. 17B

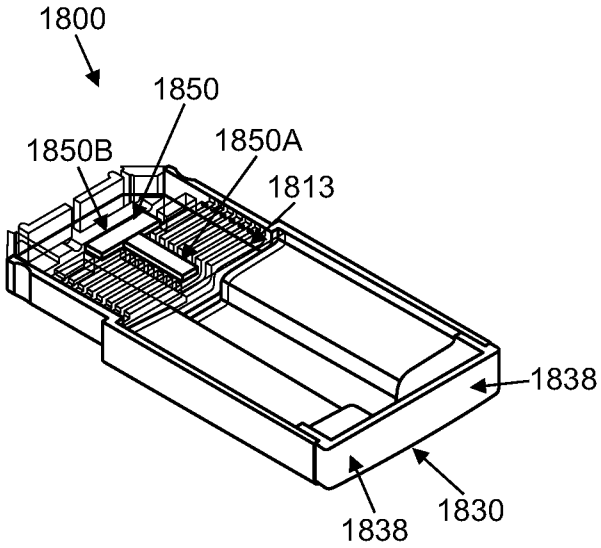


FIG. 18A

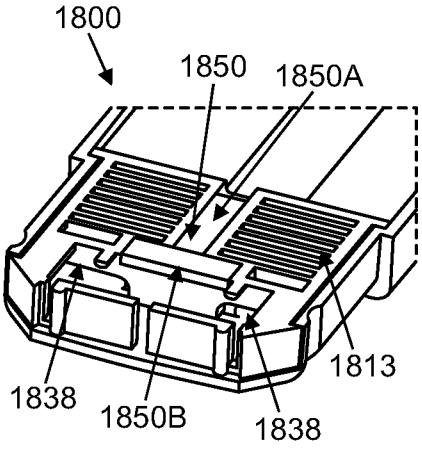


FIG. 18B

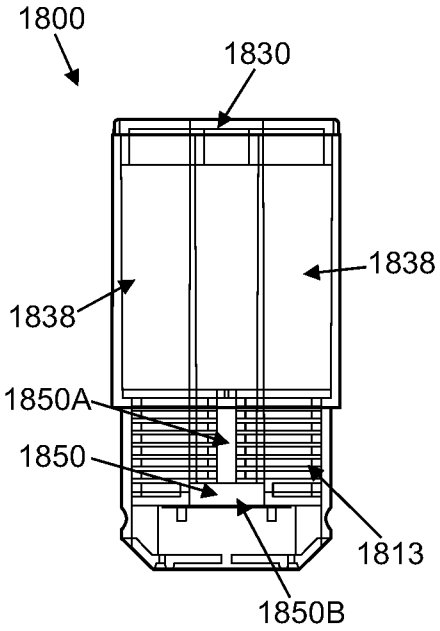


FIG. 18C

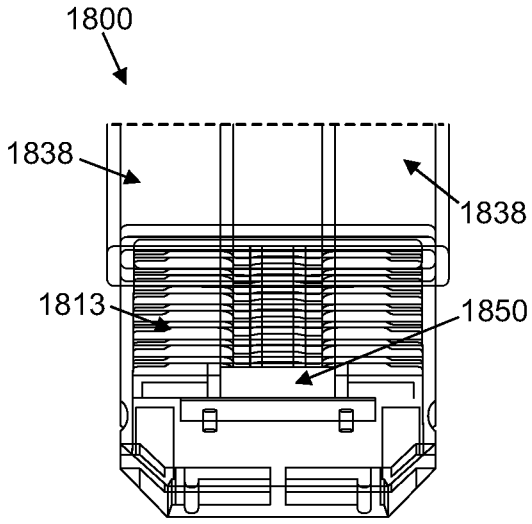


FIG. 18D

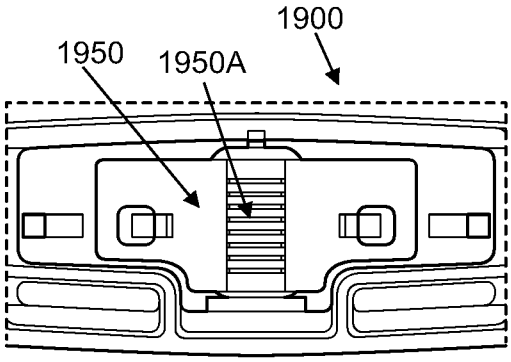


FIG. 19A

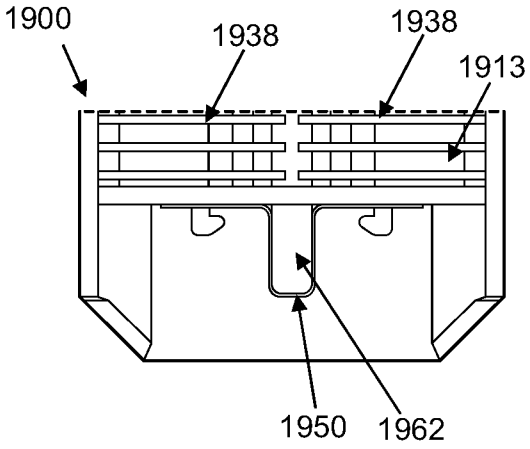


FIG. 19B

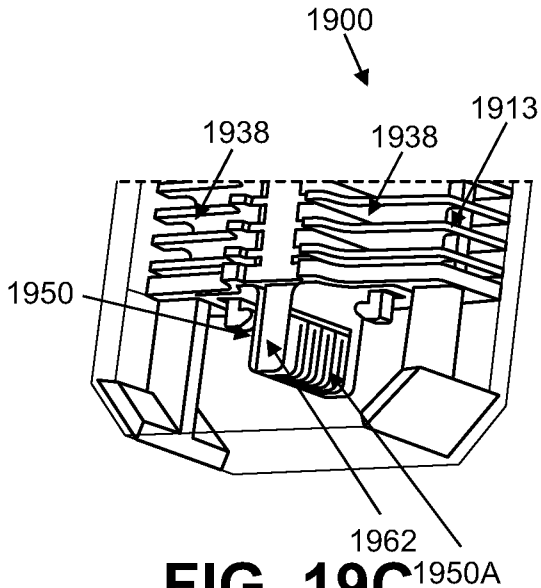


FIG. 19C

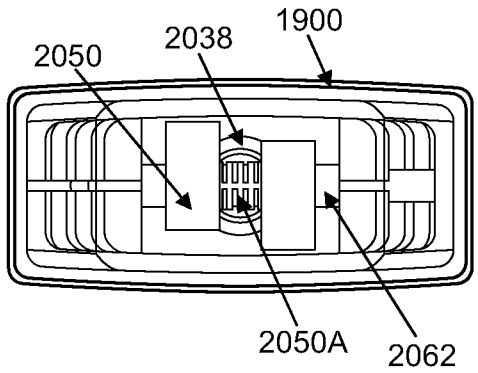


FIG. 20A

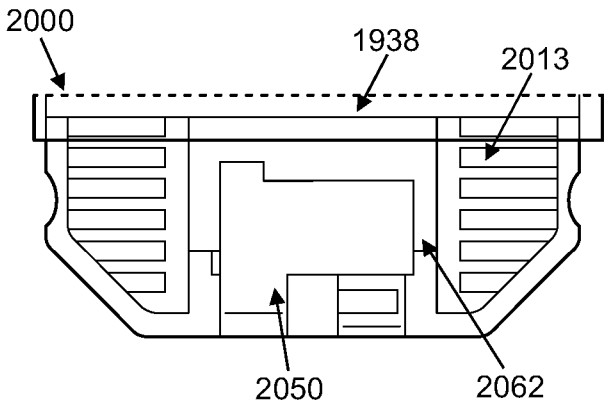


FIG. 20B

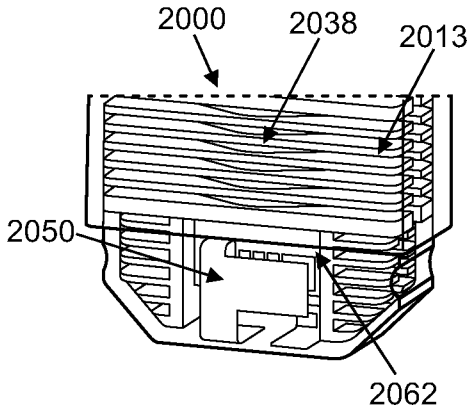


FIG. 20C

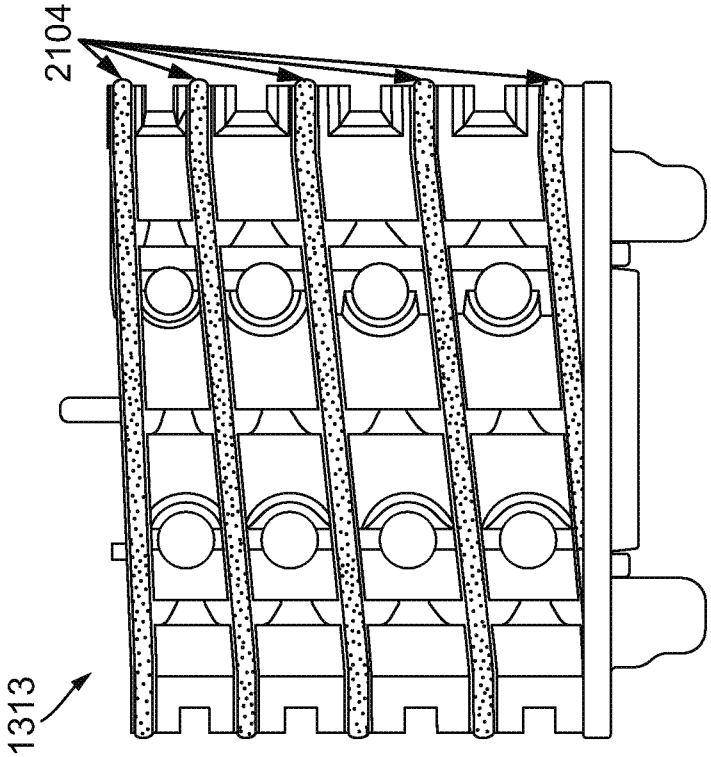


FIG. 21B

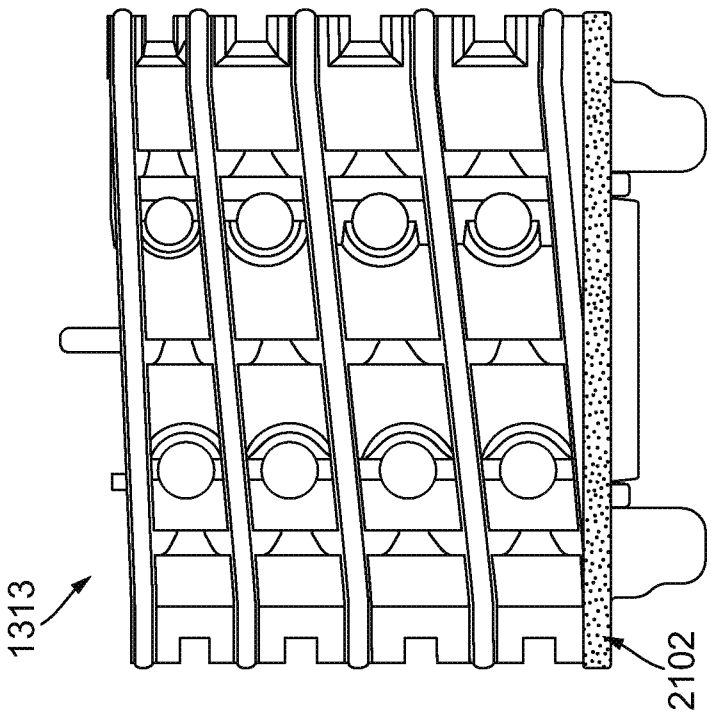


FIG. 21A

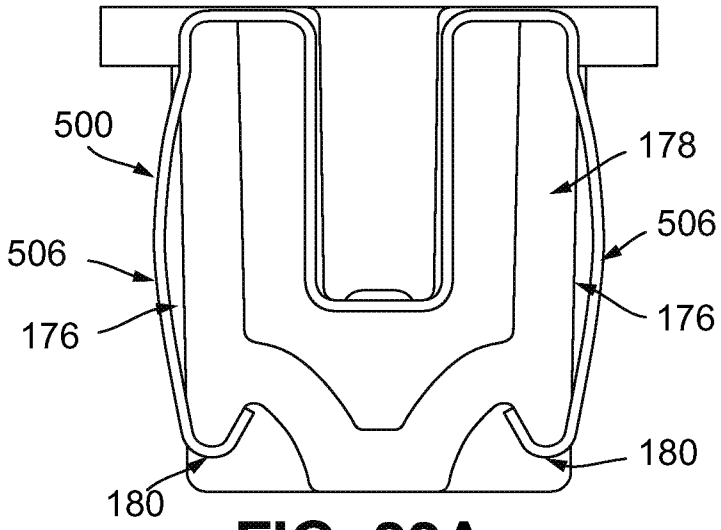


FIG. 22A

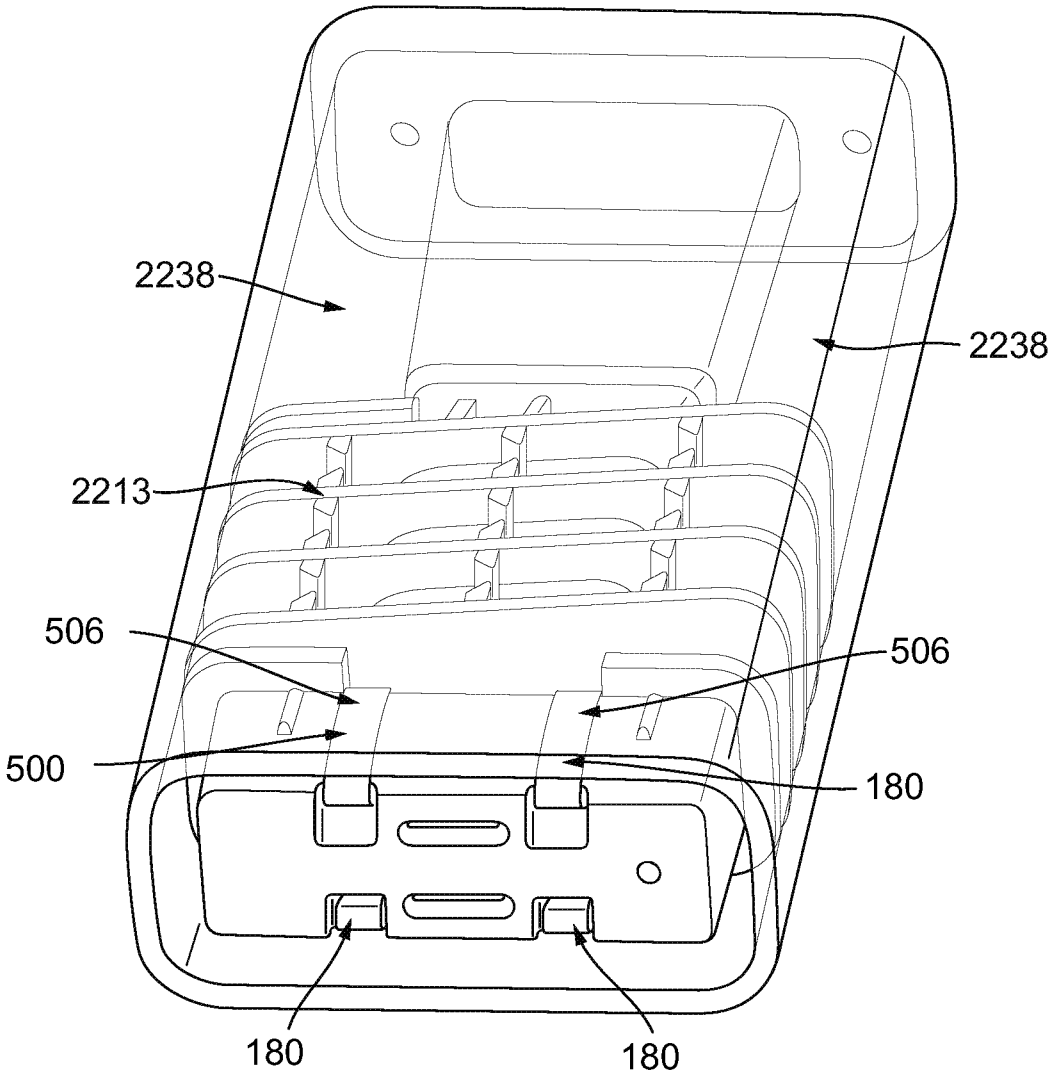


FIG. 22B

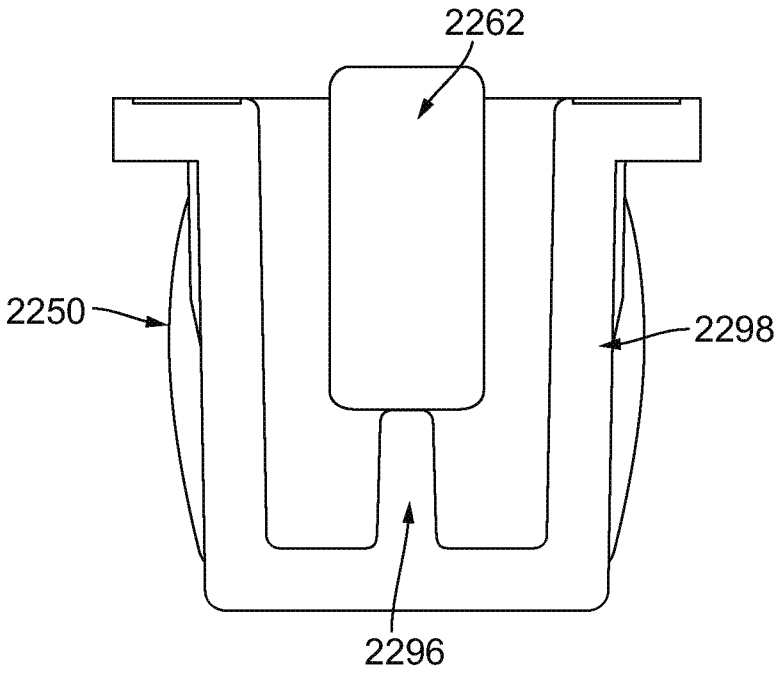


FIG. 23

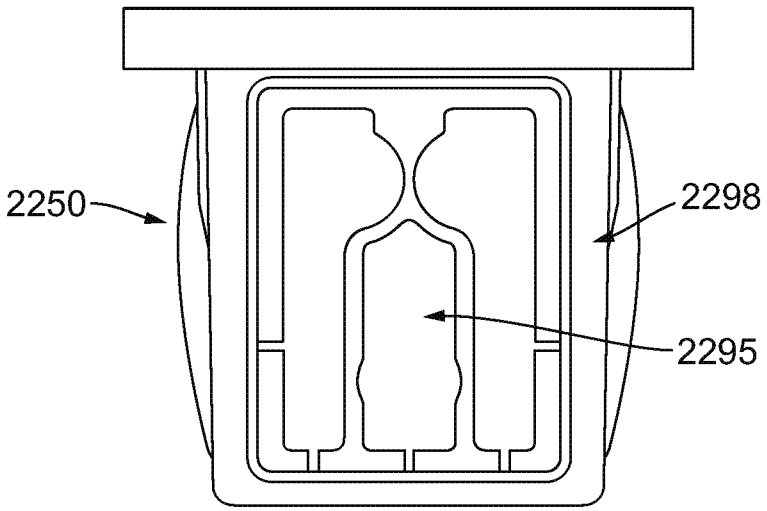


FIG. 24

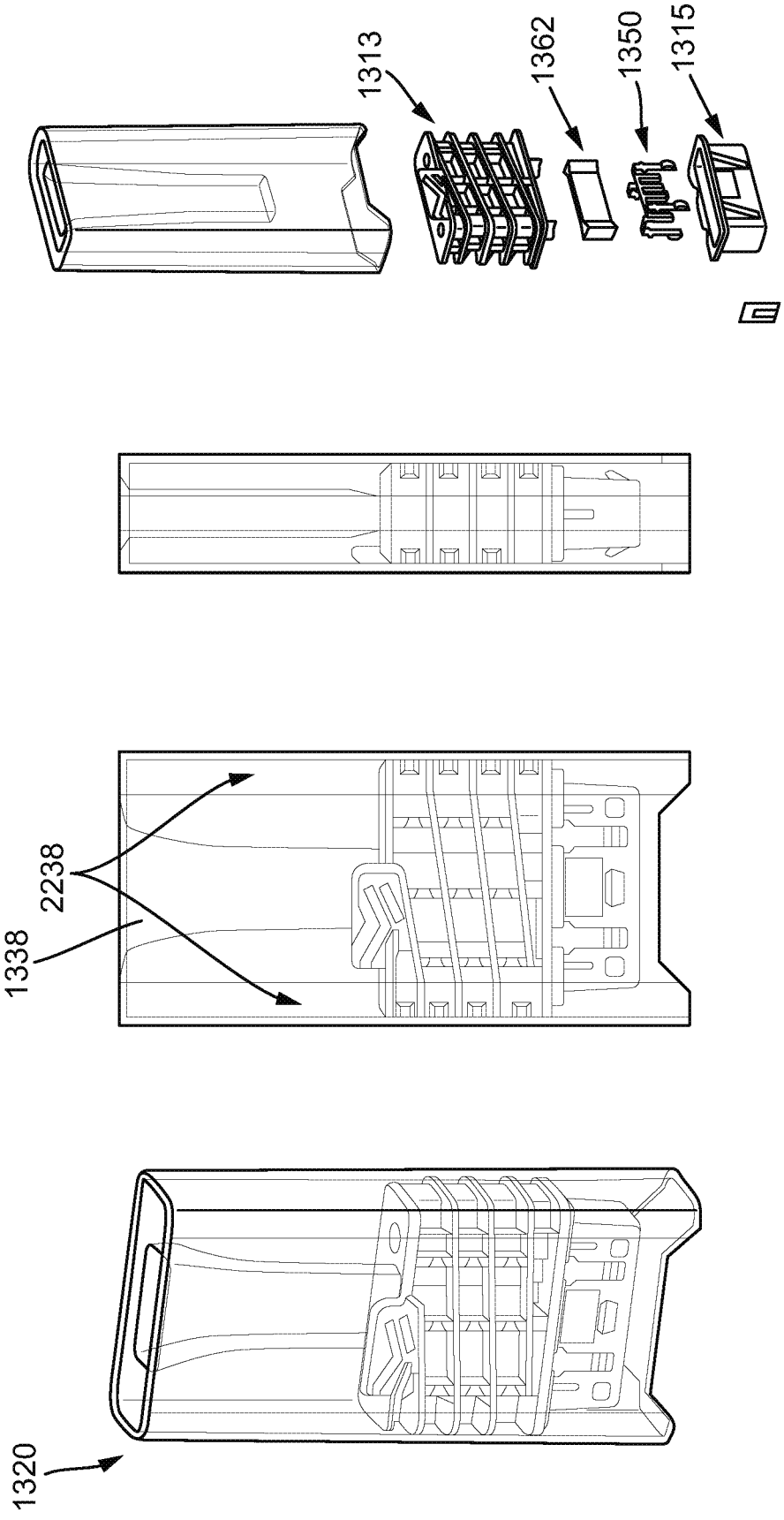


FIG. 25

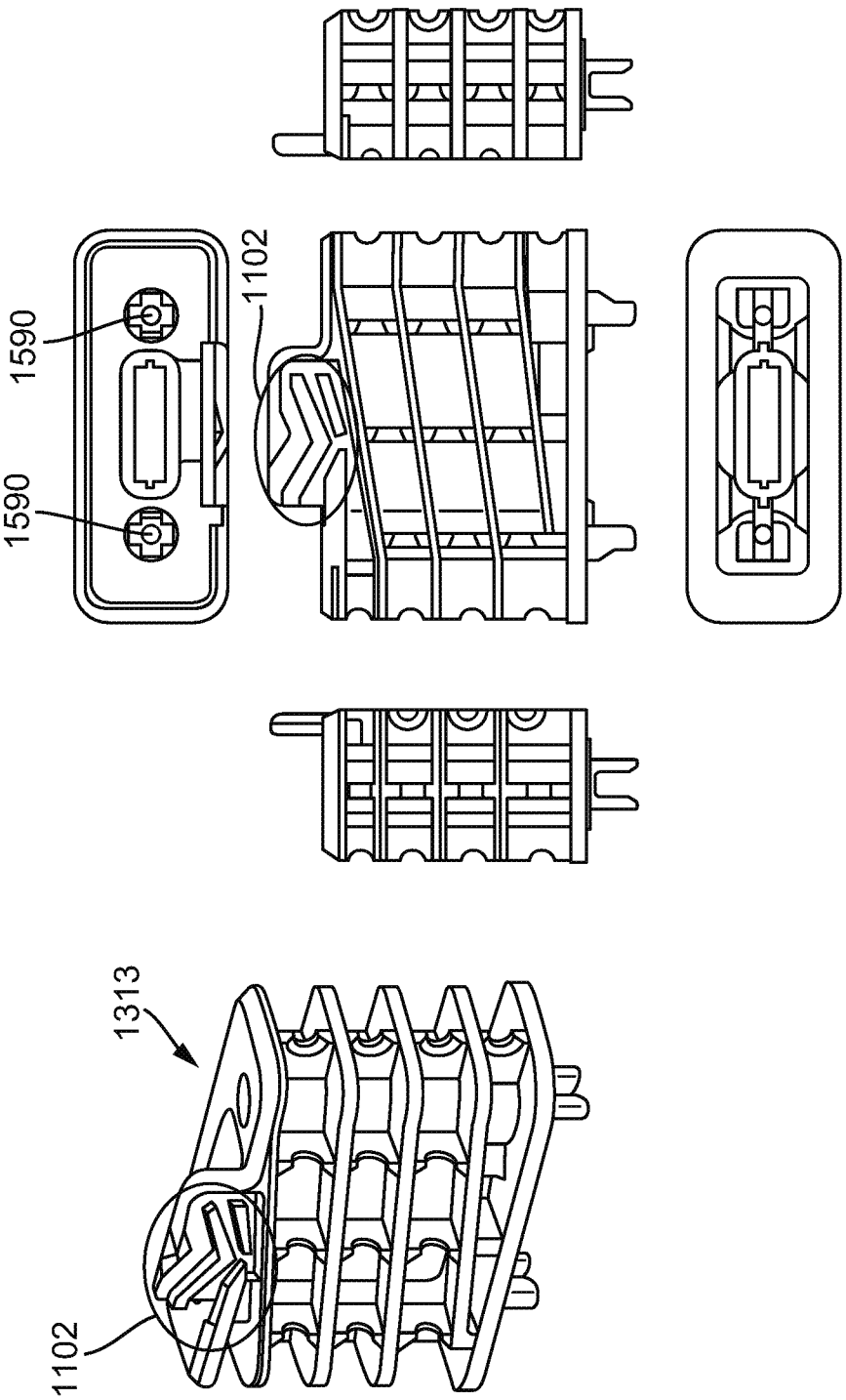


FIG. 26A

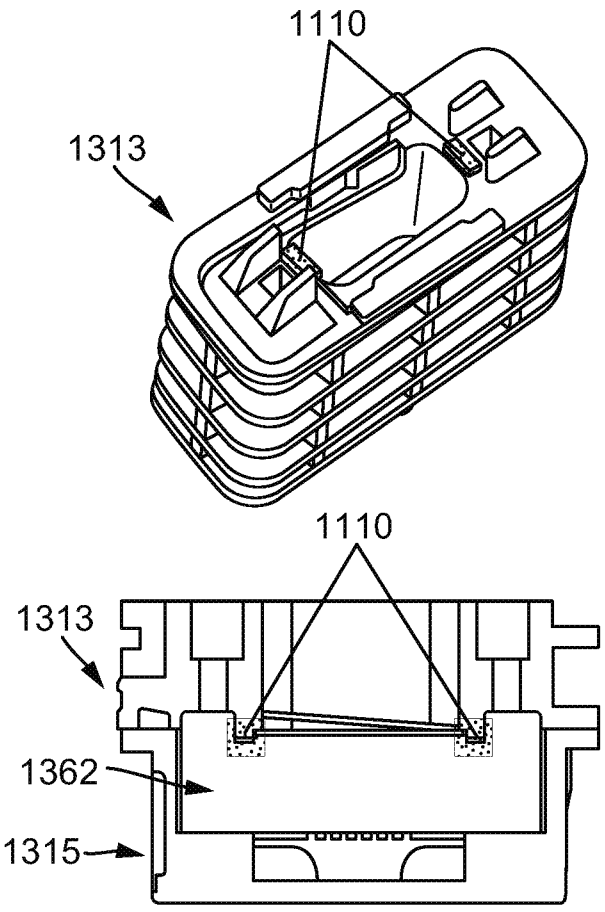


FIG. 26B

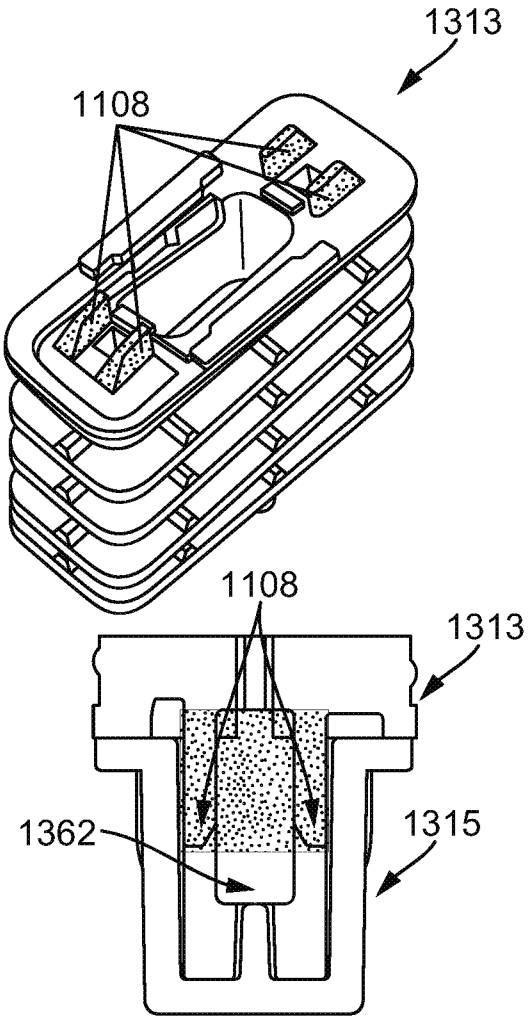


FIG. 26C

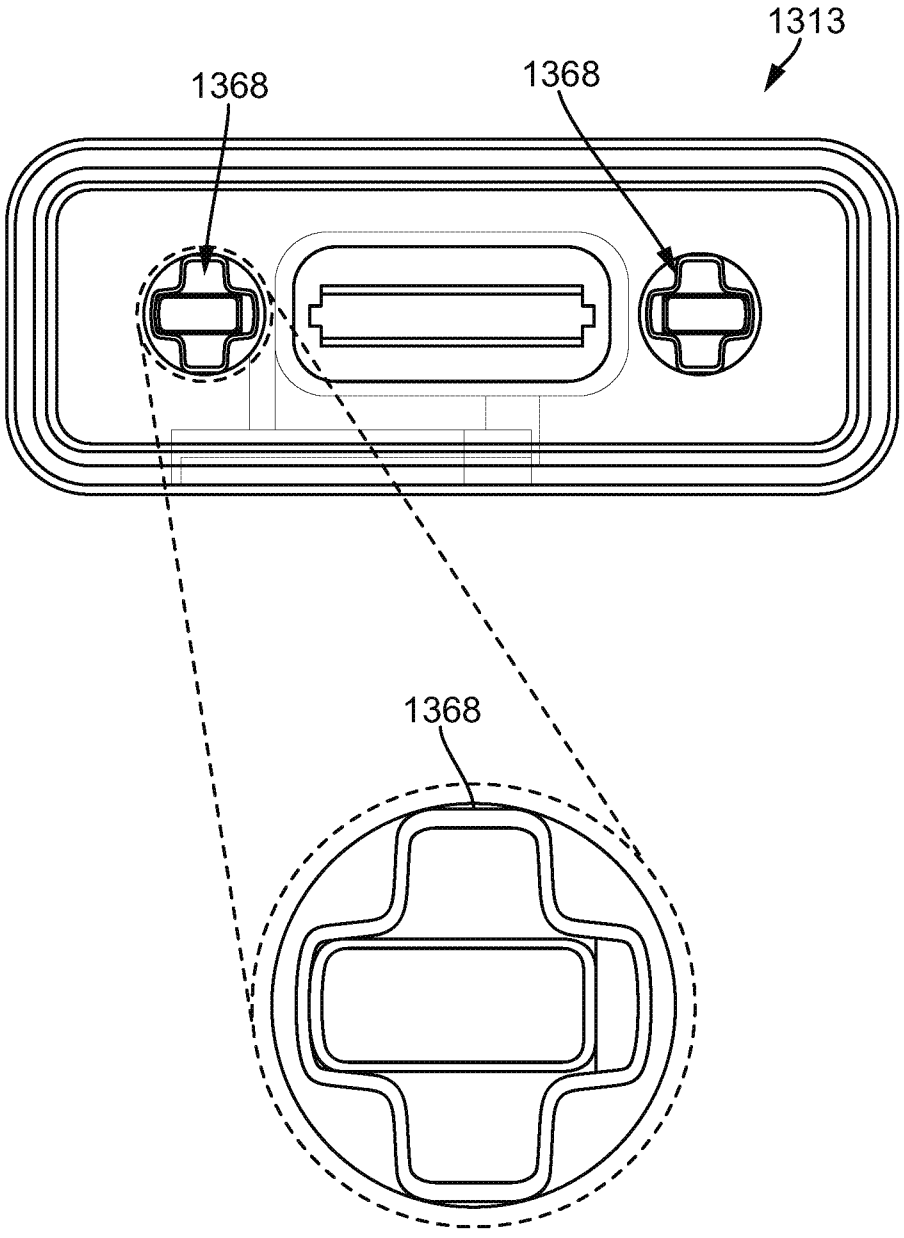


FIG. 26D

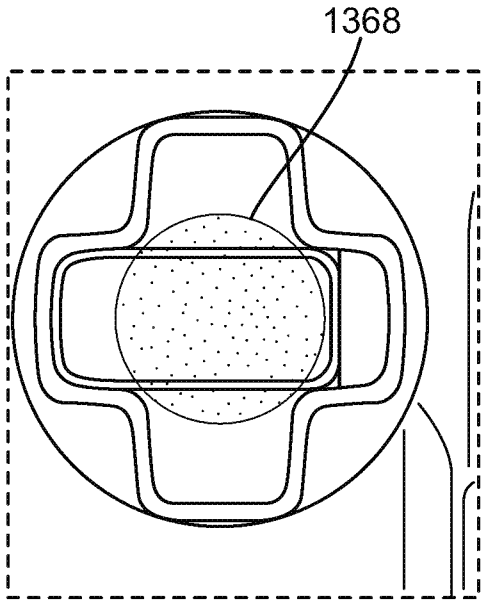


FIG. 26E

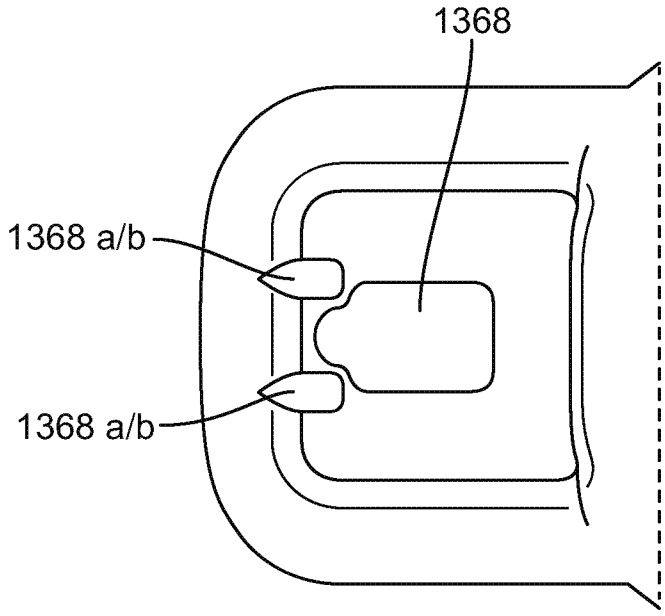


FIG. 26F

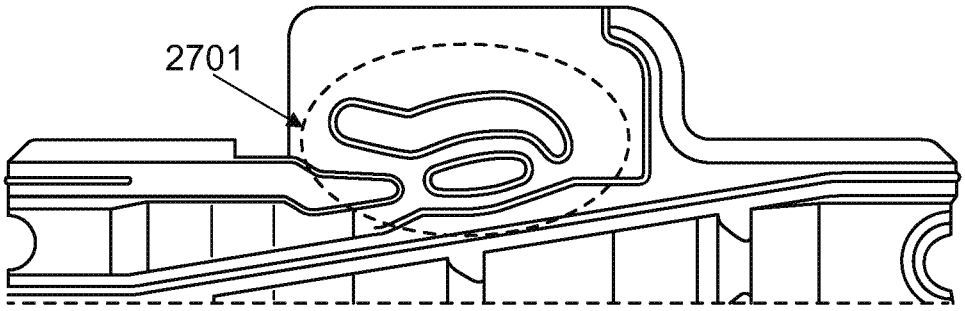


FIG. 27A

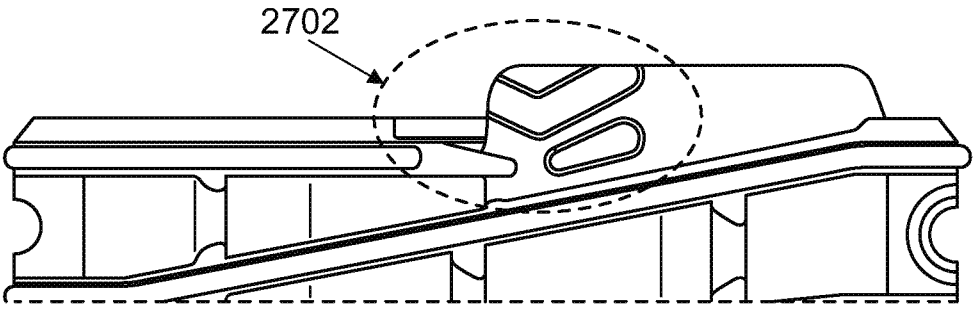


FIG. 27B

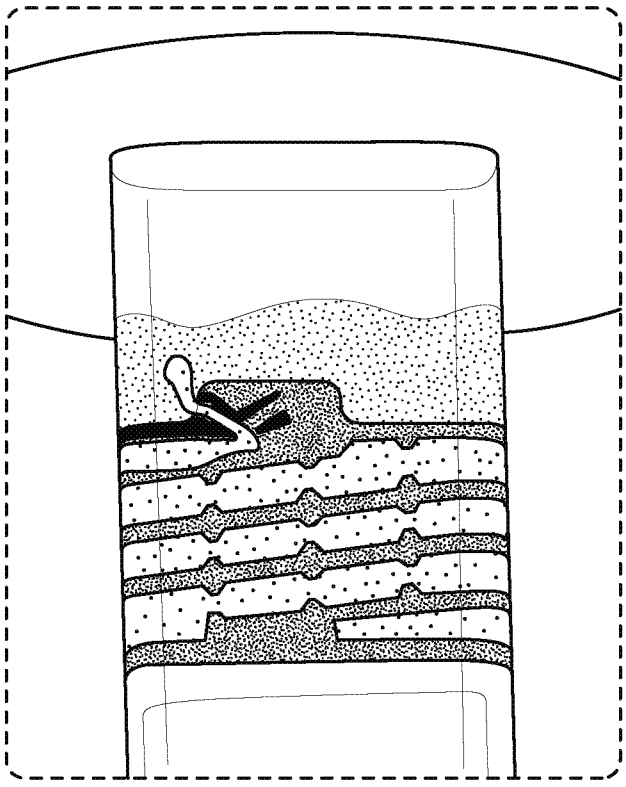


FIG. 28

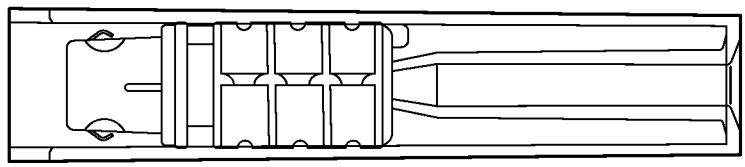


FIG. 29C

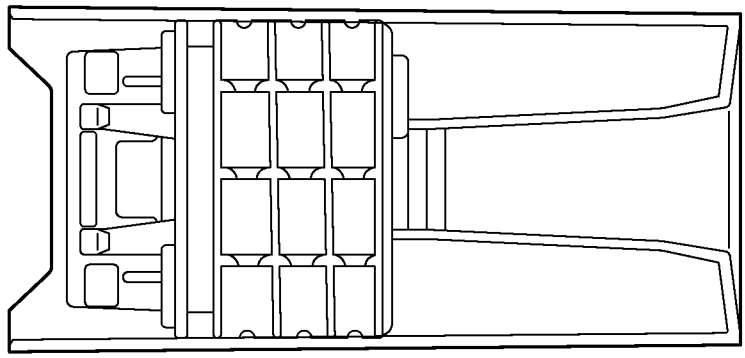


FIG. 29B

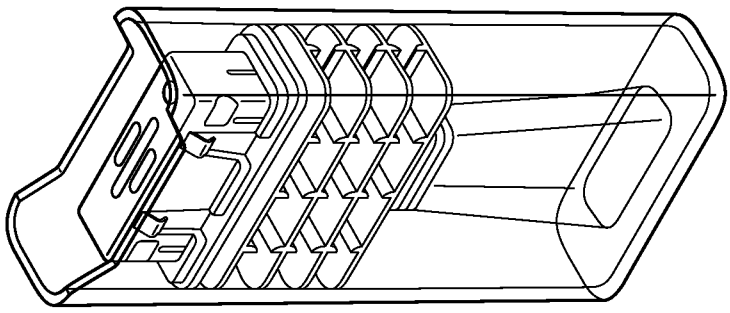


FIG. 29A

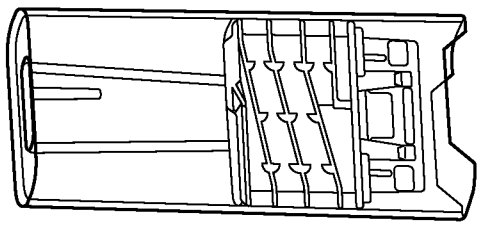


FIG. 30A

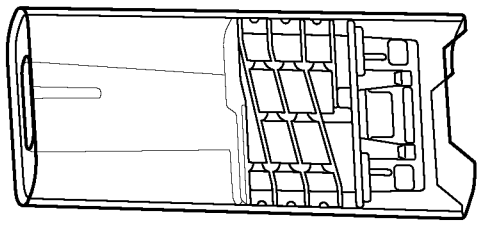


FIG. 30B

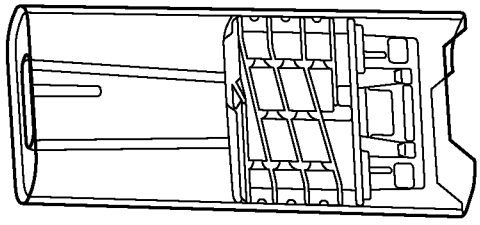


FIG.30C

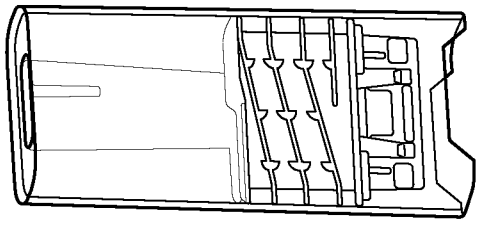


FIG. 30D

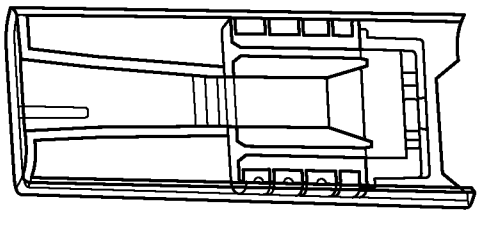


FIG. 30E

FIG. 30F

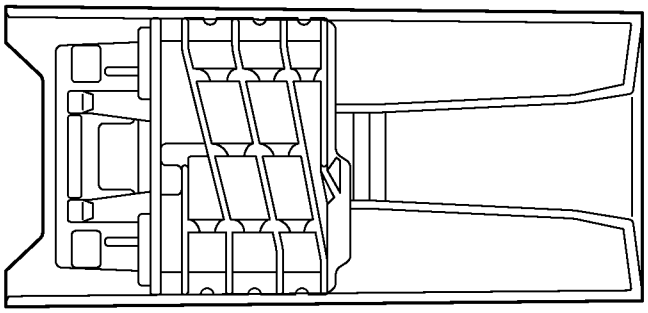


FIG. 31C

Press Collector

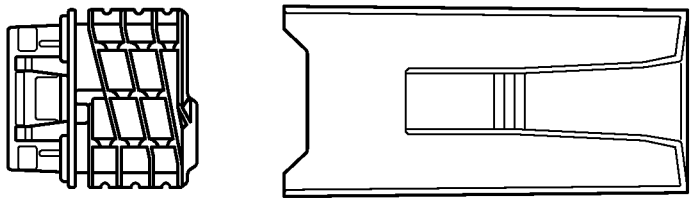


FIG. 31B

Dual Needle Fill

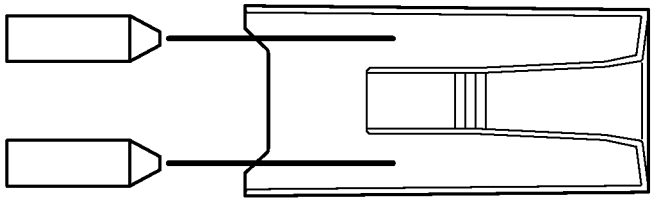


FIG. 31A

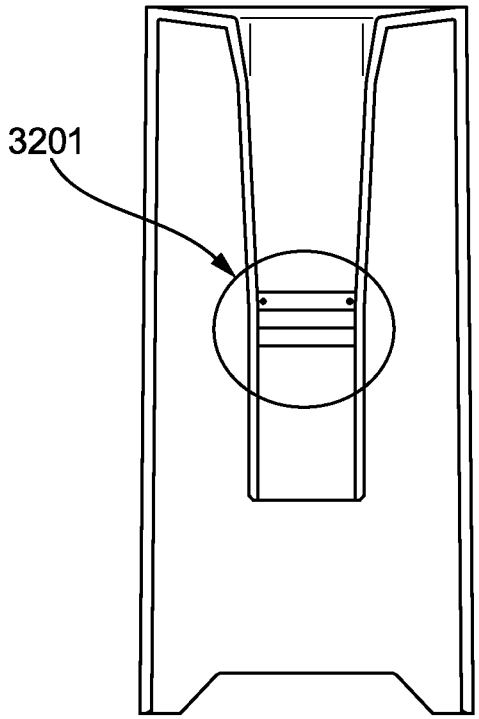


FIG. 32A

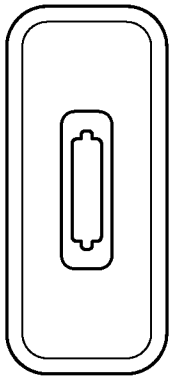


FIG. 32B

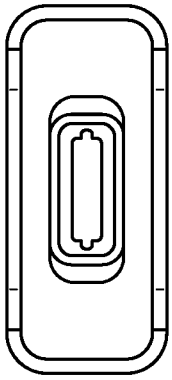


FIG. 32C

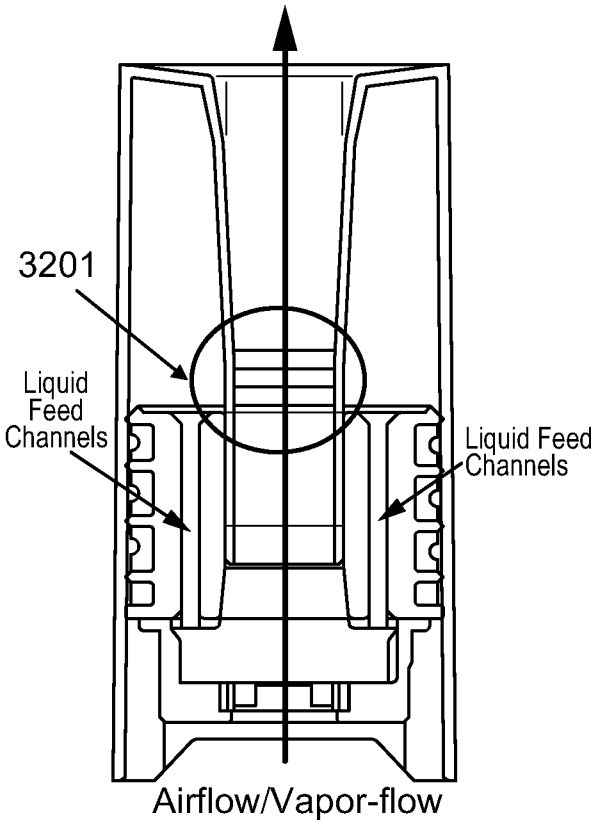


FIG. 33A

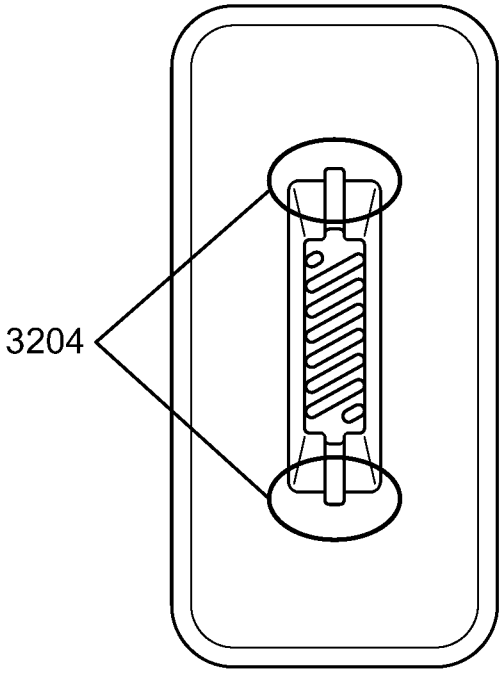


FIG. 33B

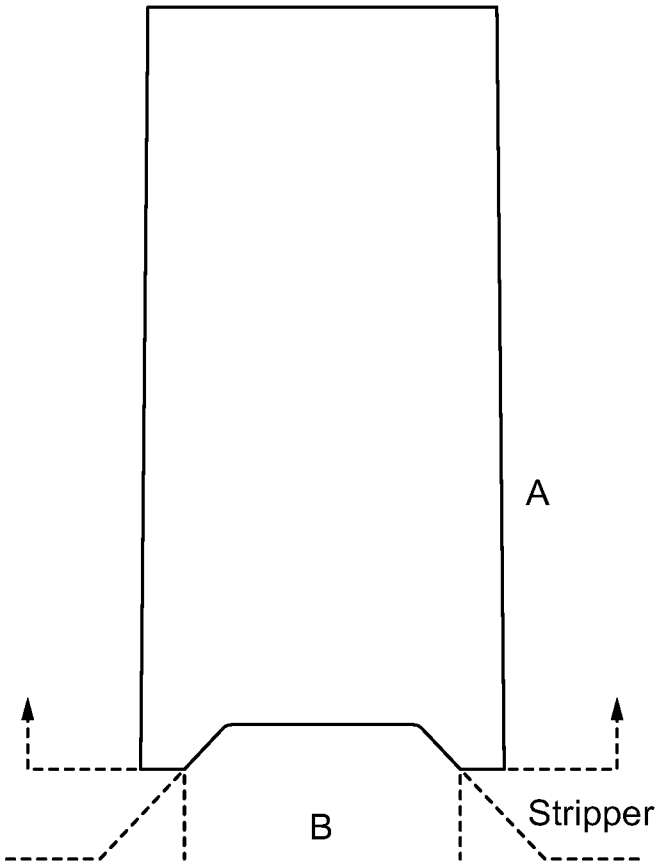


FIG. 34A

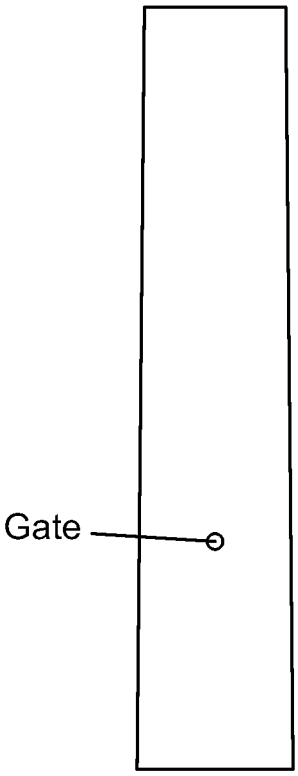


FIG. 34B

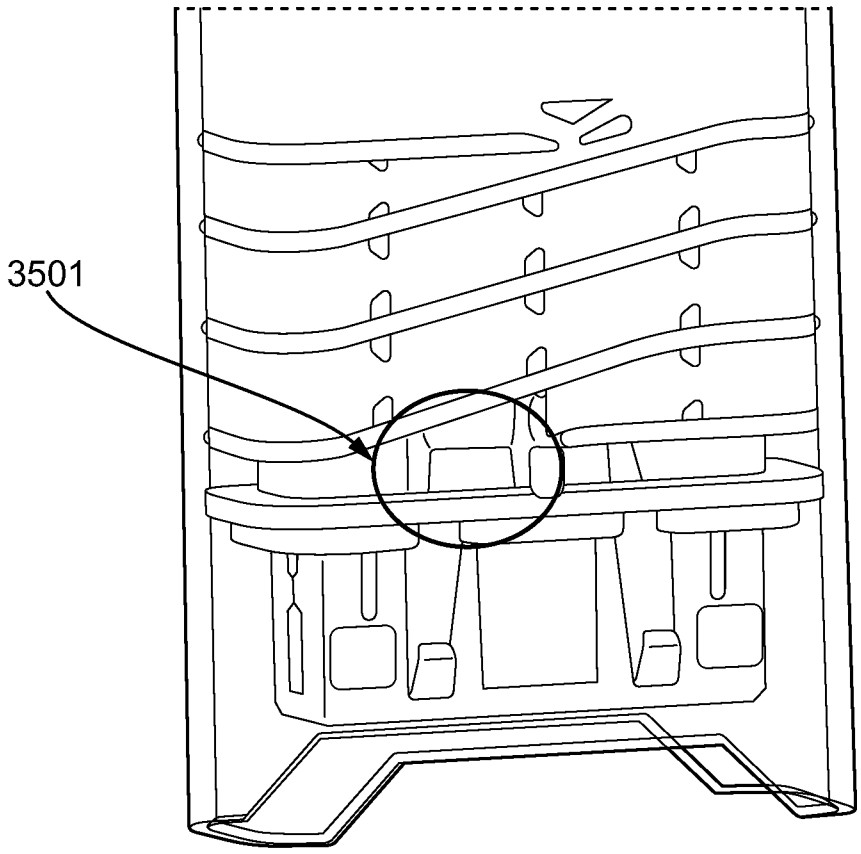


FIG. 35

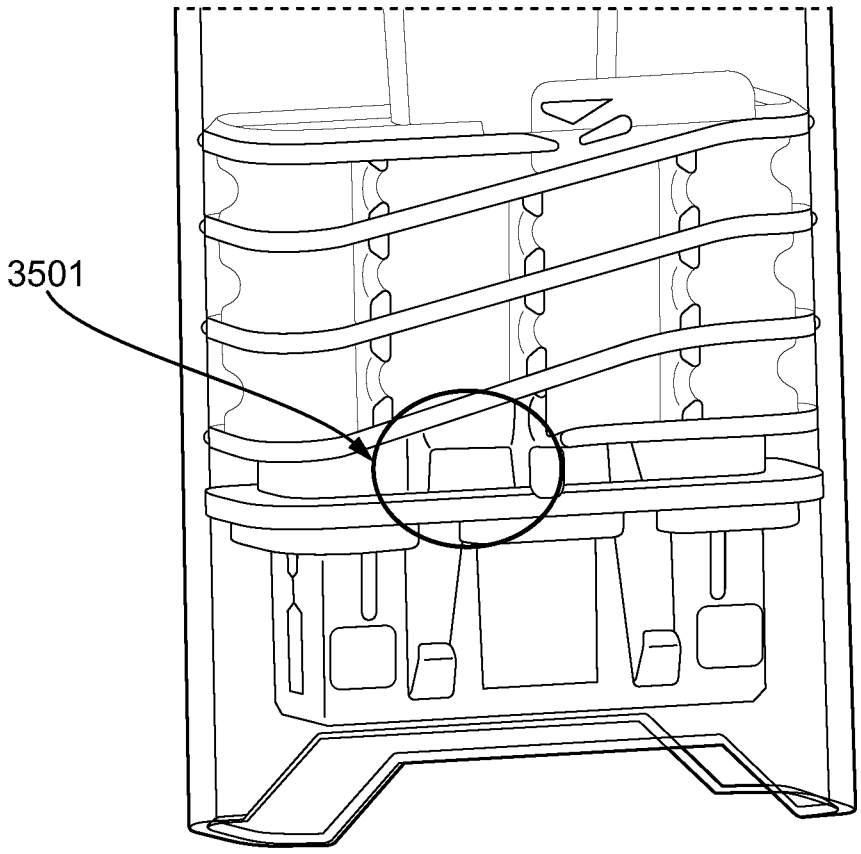


FIG. 36

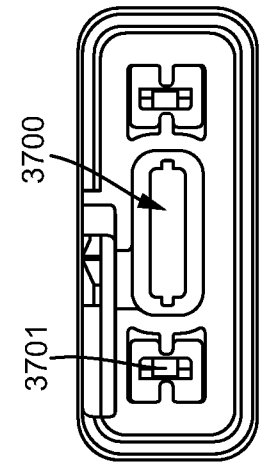


FIG. 37C

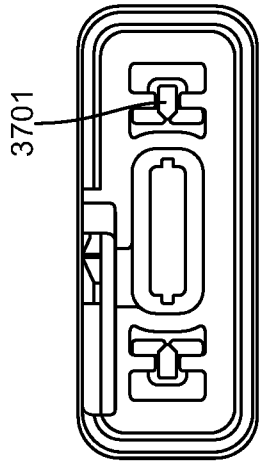


FIG. 37B

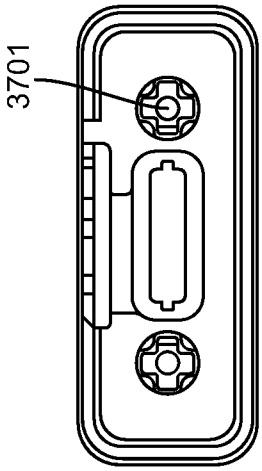


FIG. 37A

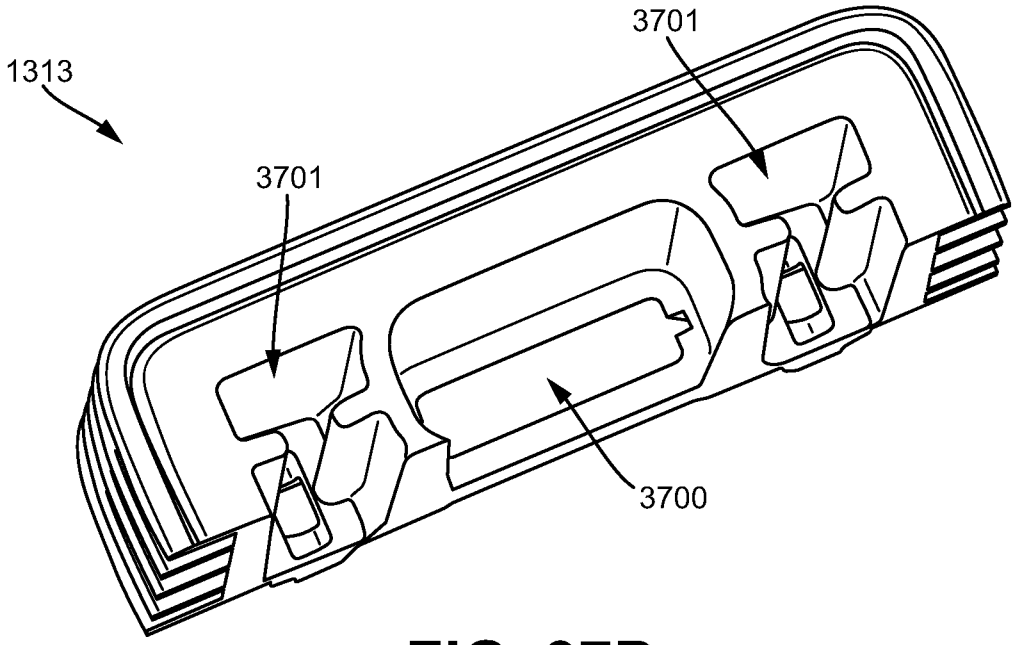


FIG. 37D

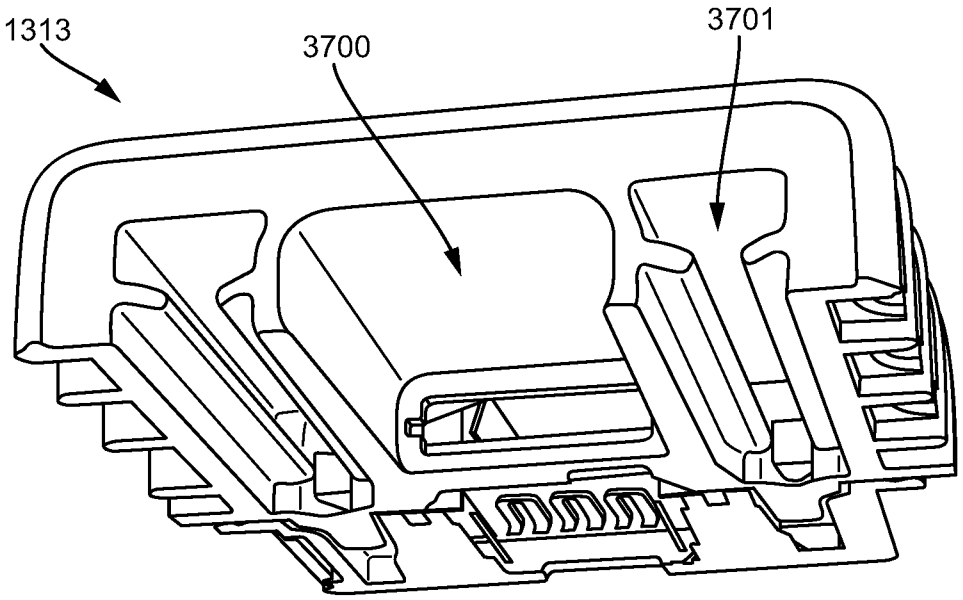


FIG. 37E

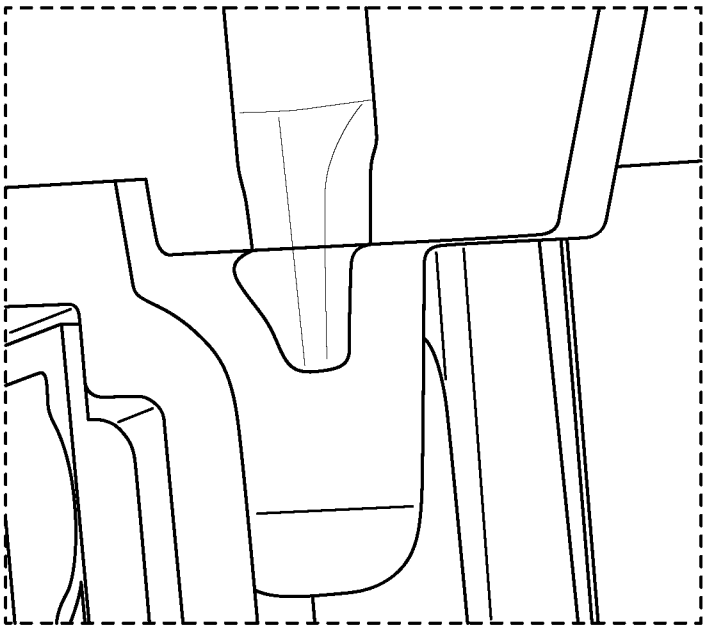


FIG. 38

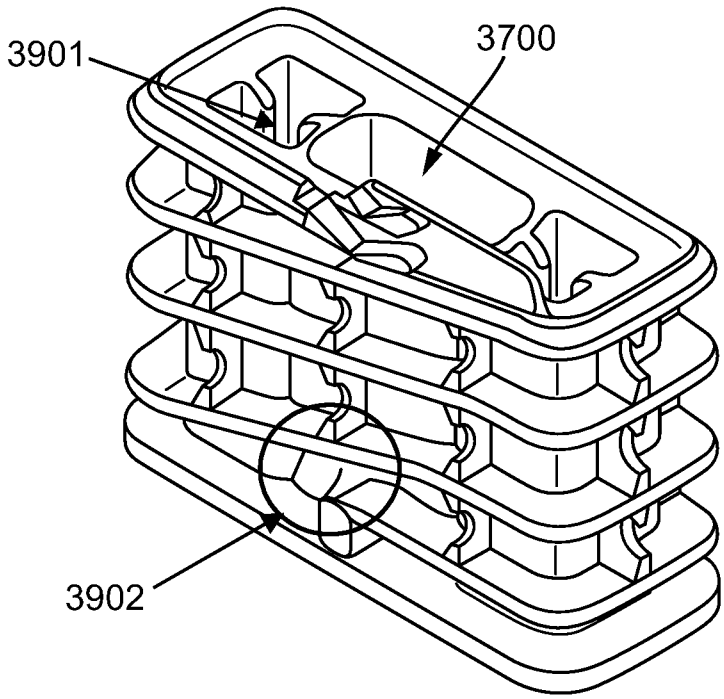


FIG. 39

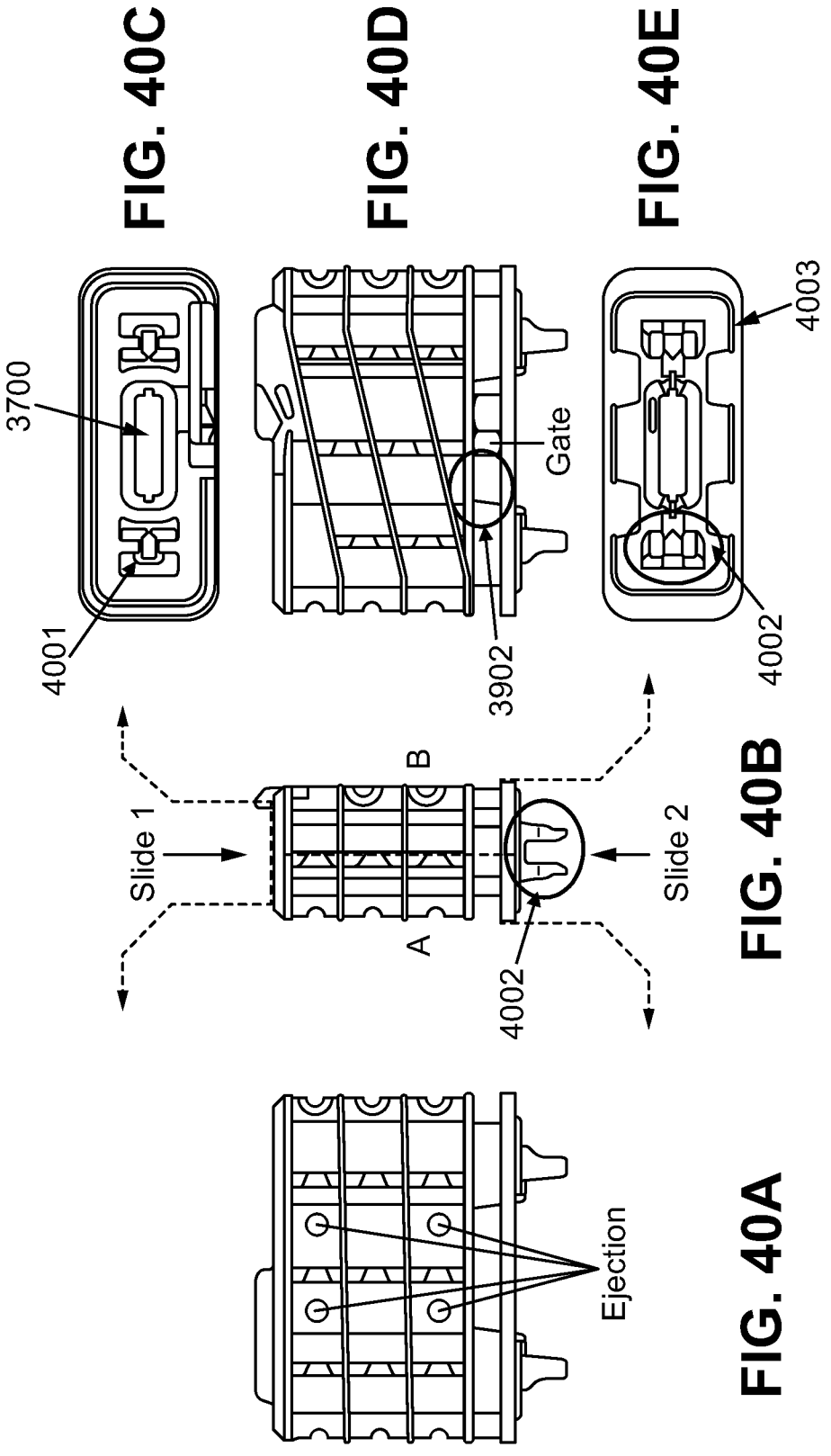


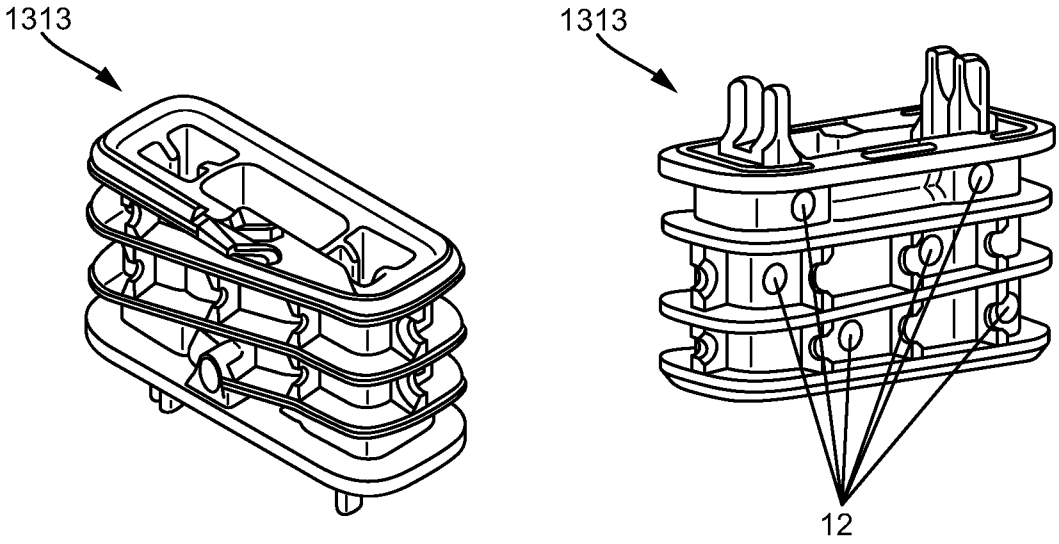
FIG. 40C

FIG. 40D

FIG. 40E

FIG. 40B

FIG. 40A



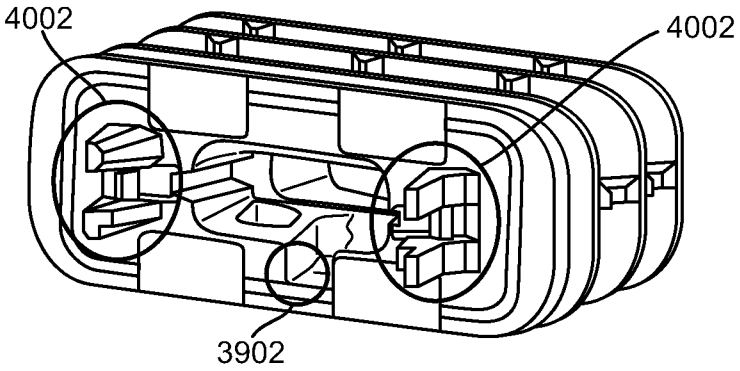


FIG. 41A

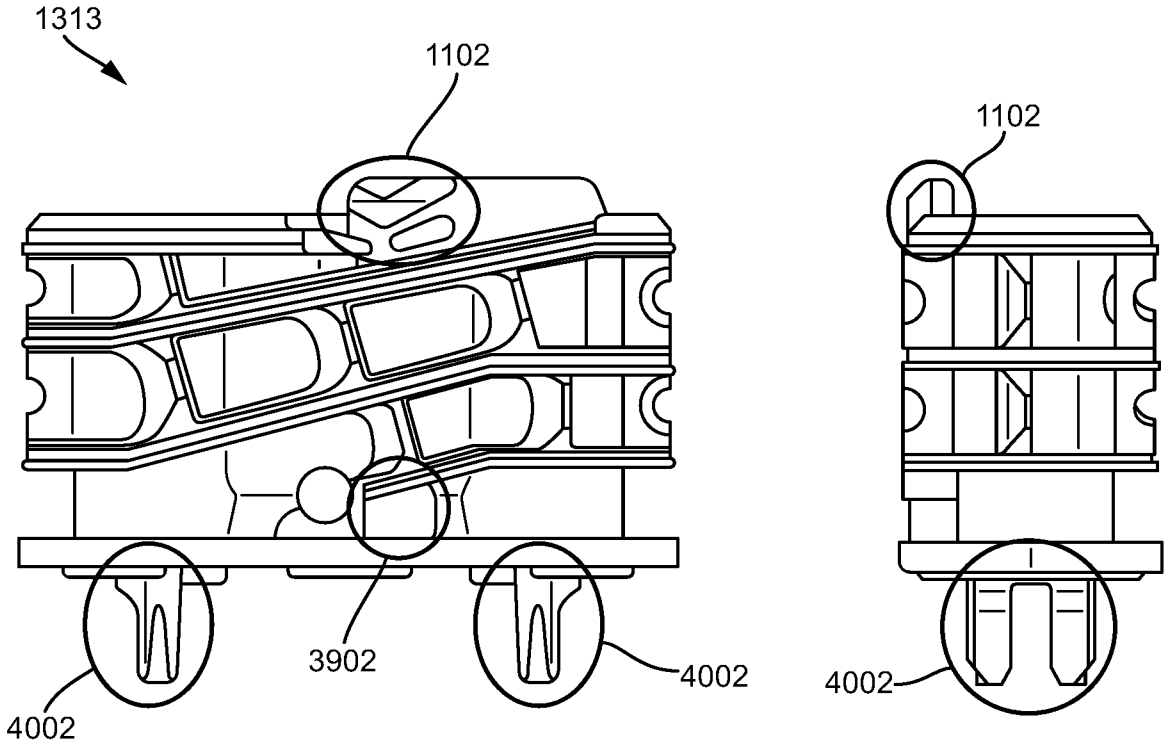


FIG. 41B

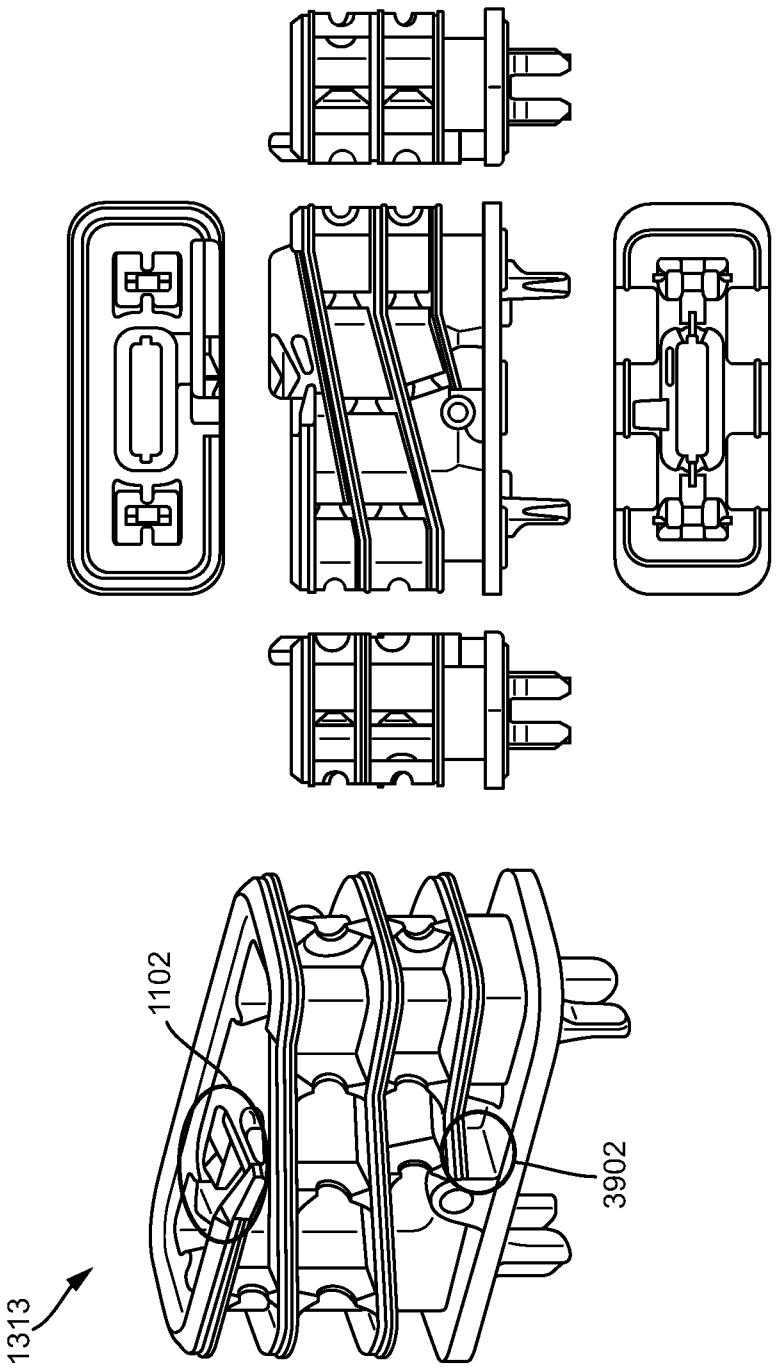


FIG. 42A

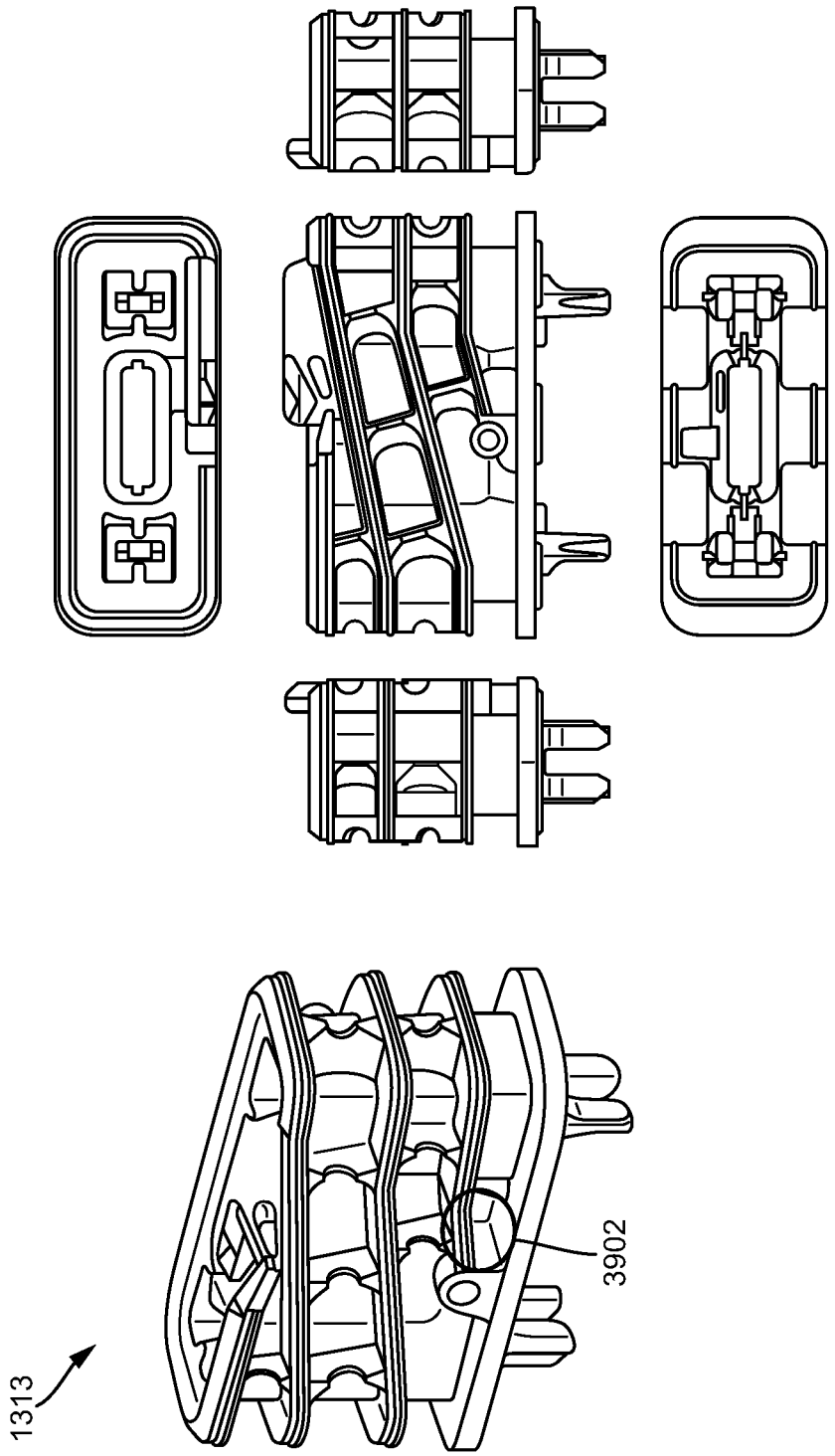


FIG. 42B

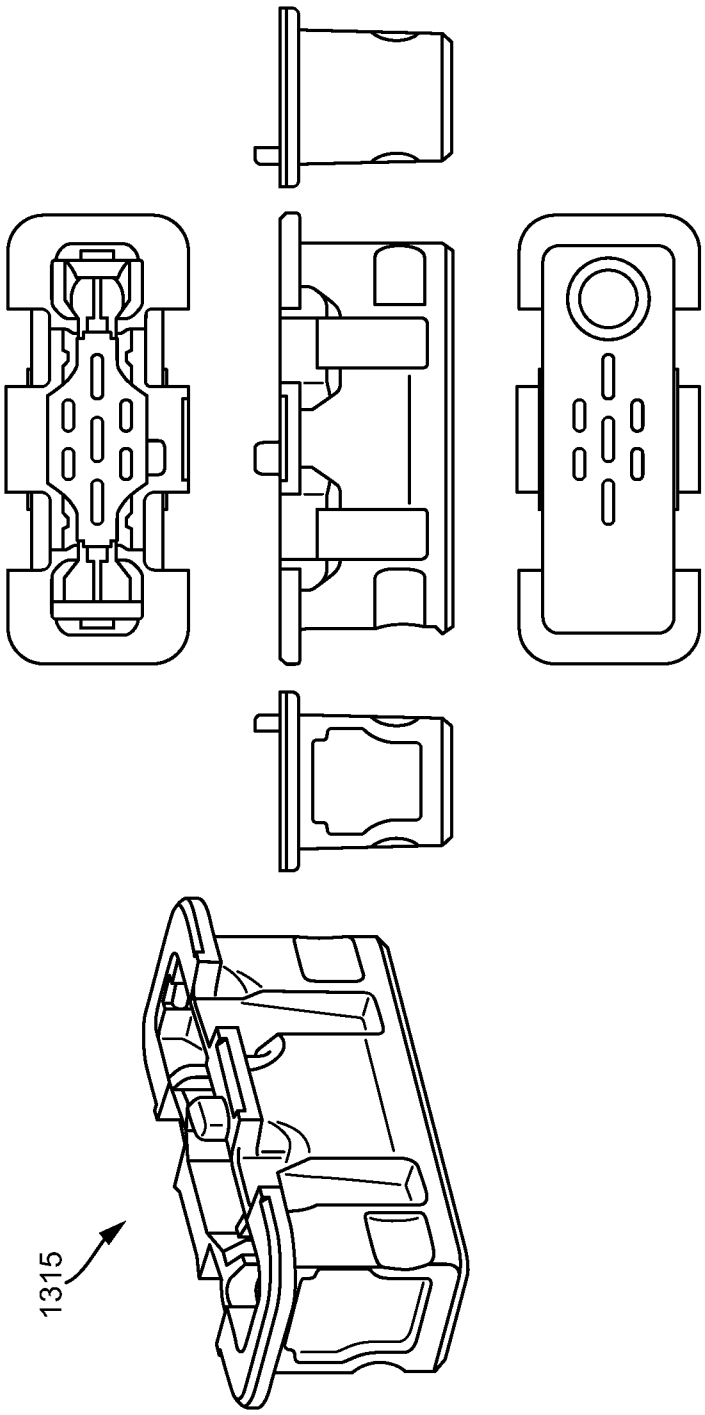


FIG. 43A

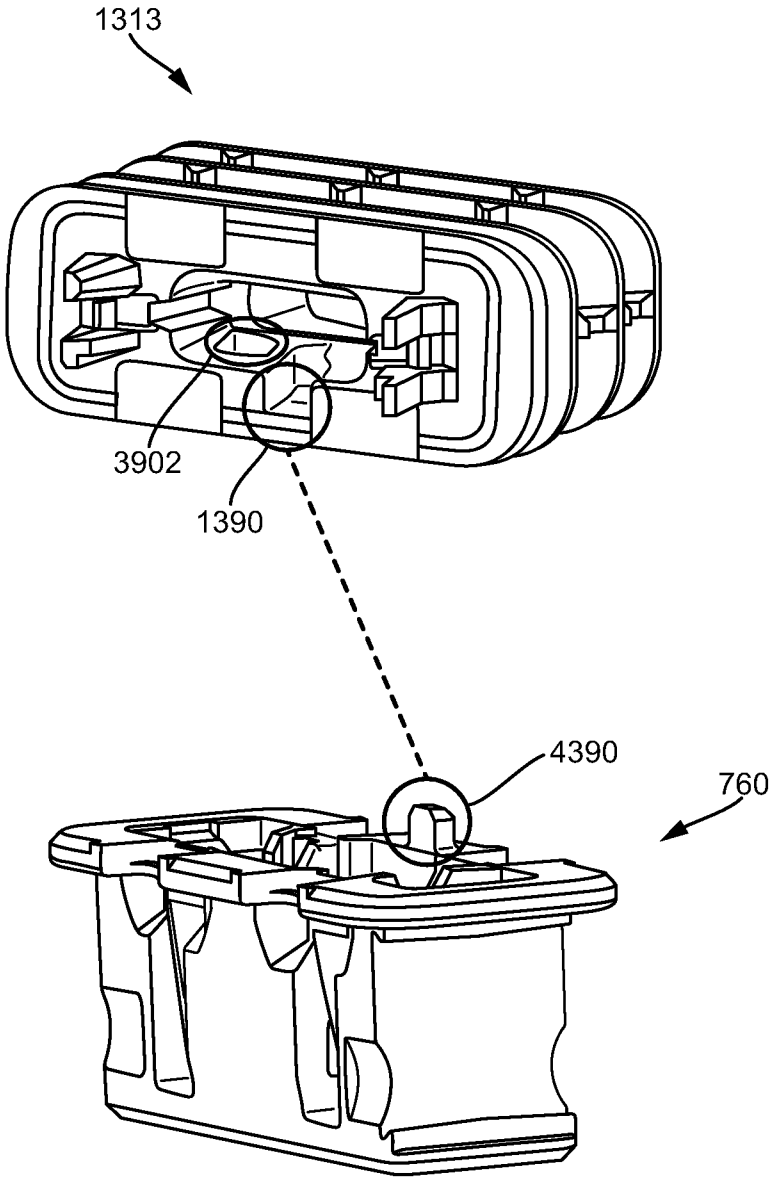


FIG. 43B

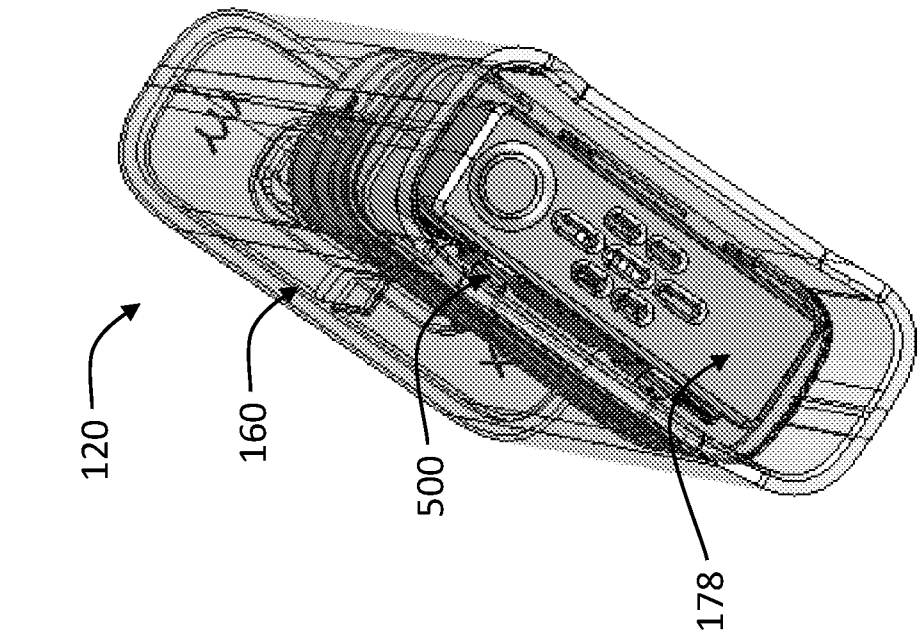


FIG. 44C

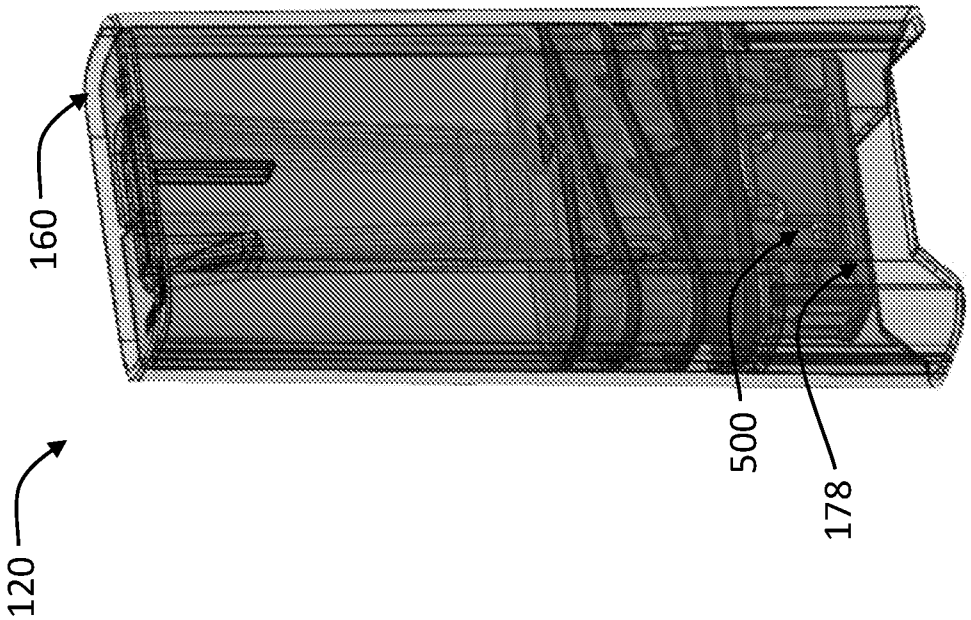


FIG. 44B

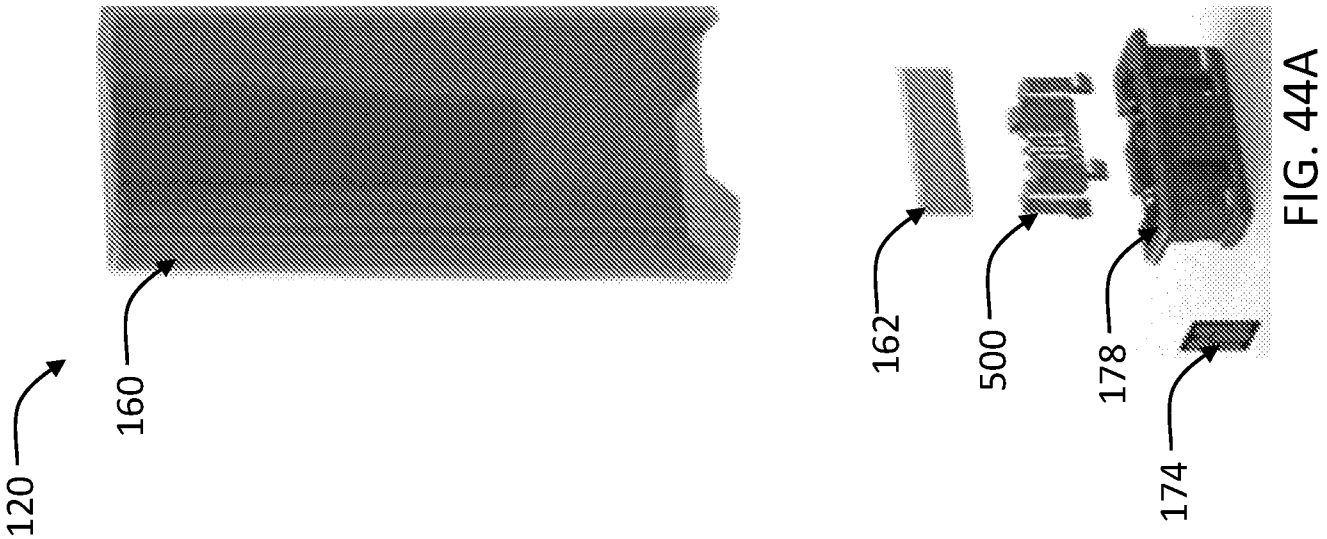


FIG. 44A

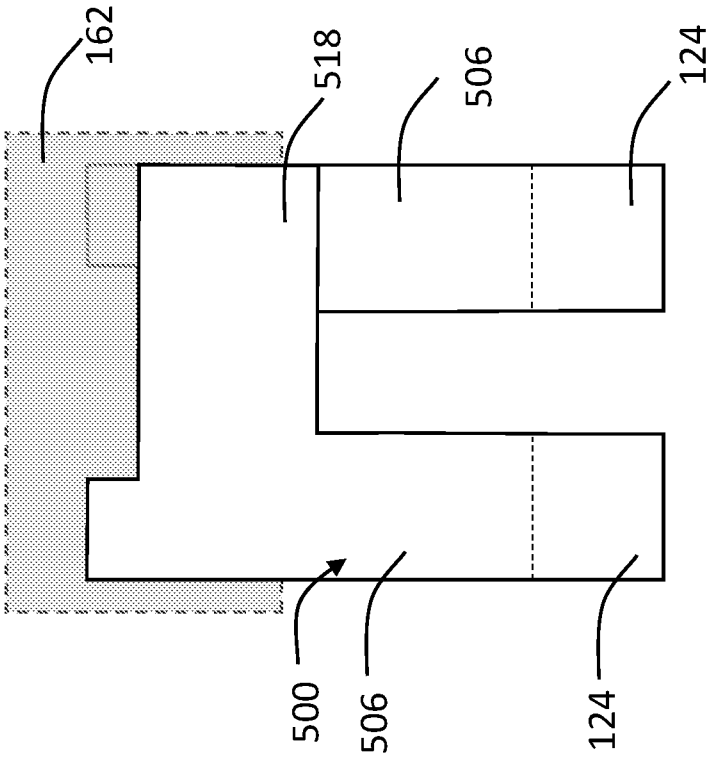

162
518
506
124
500
506
124

FIG. 46

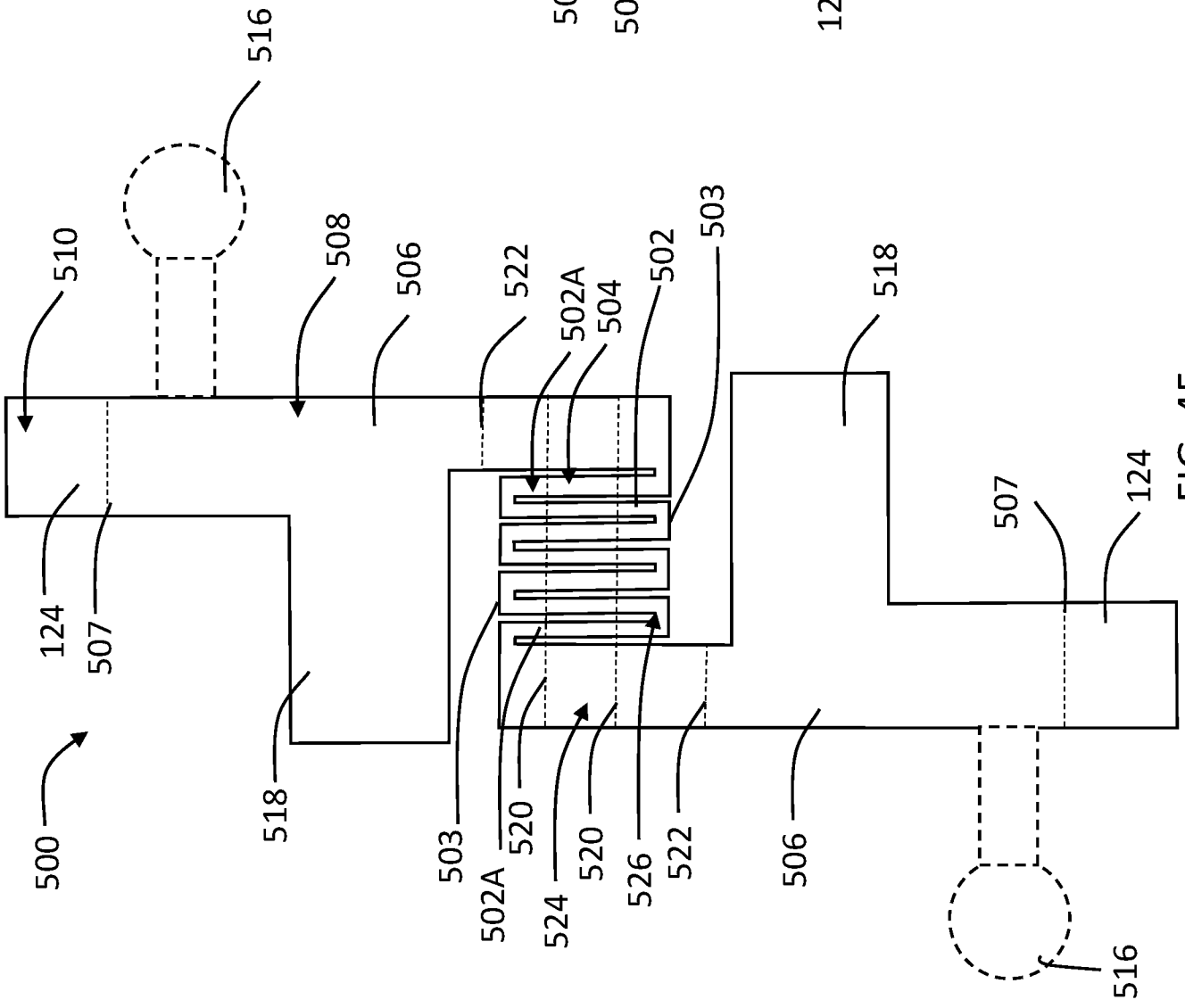

516
510
508
506
522
502A
504
502
503
518
124
507
500
518
503
502A
520
524
520
526
522
506
507
124
516

FIG. 45

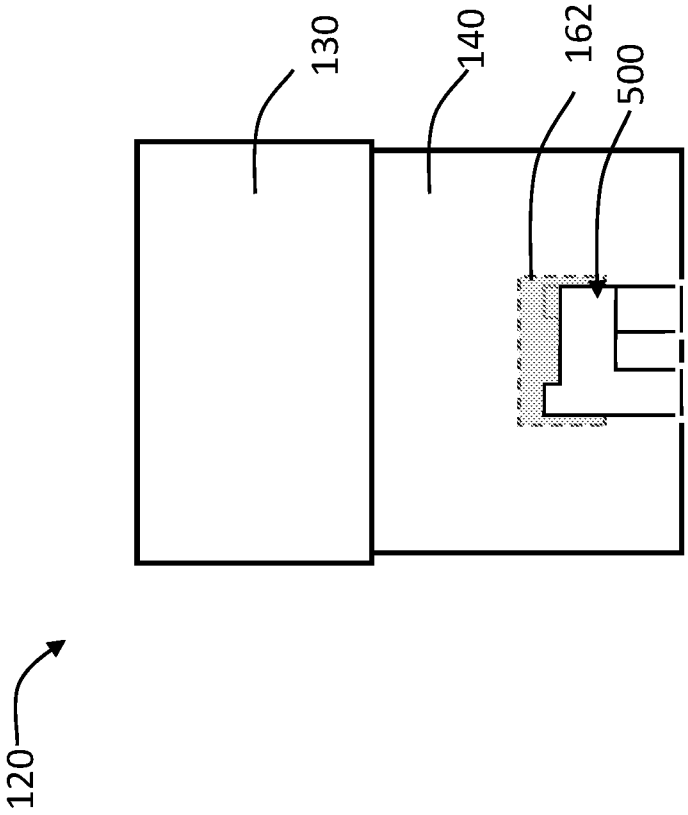


FIG. 48

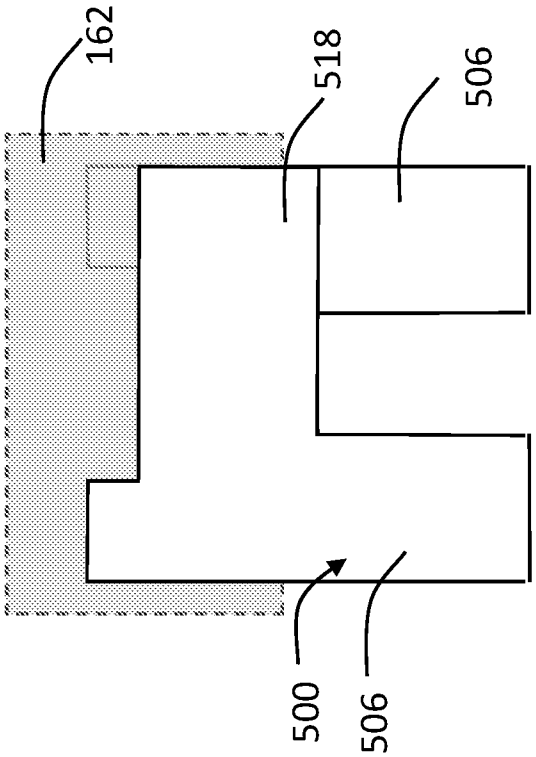


FIG. 47

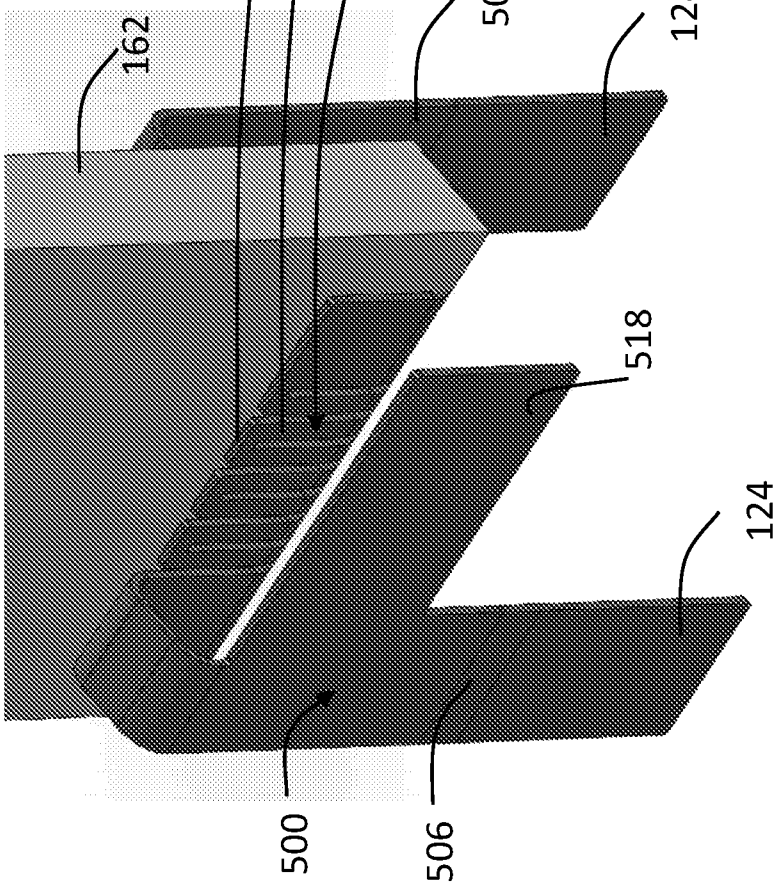

162
503
502
504
506
124
518
124
500
506

FIG. 49

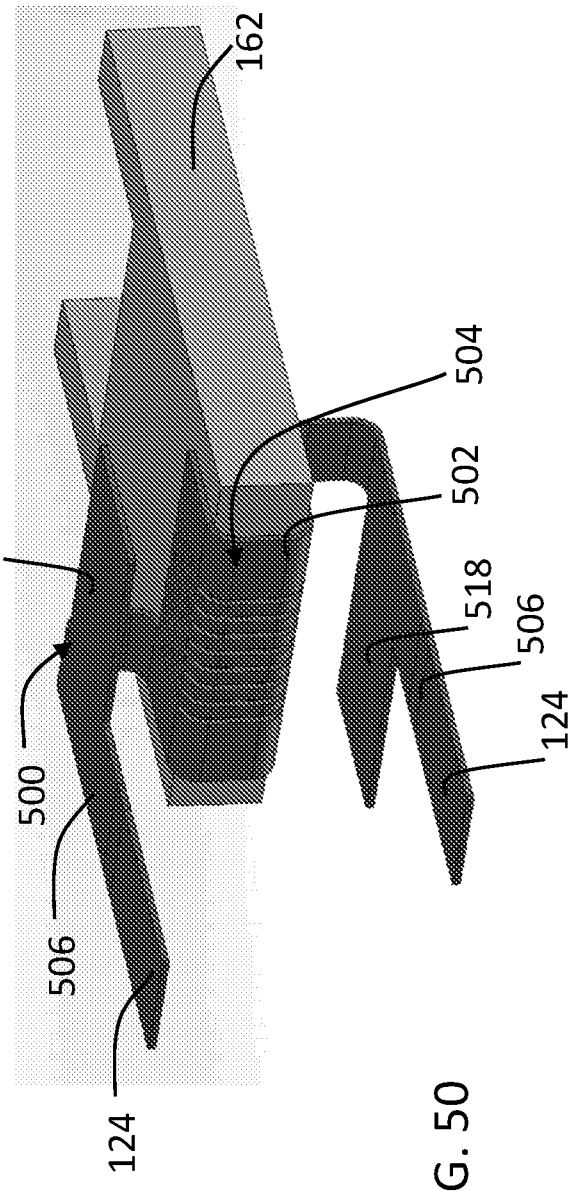

162
504
502
518
518
506
124
500
506
124

FIG. 50

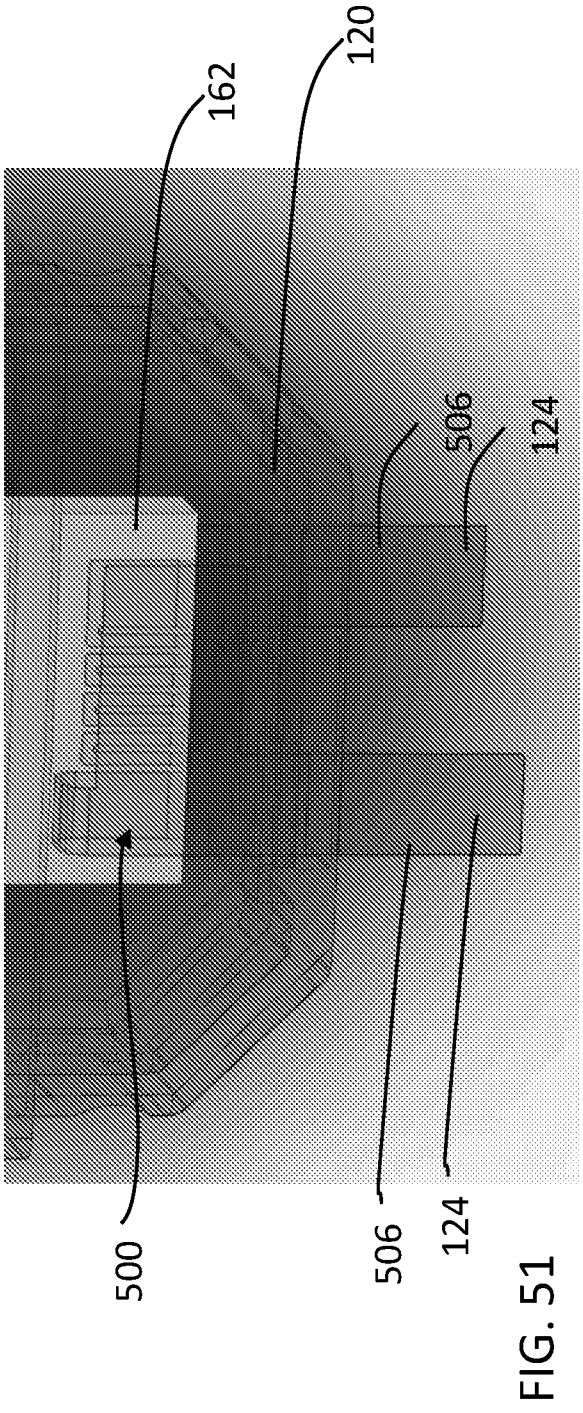


FIG. 51

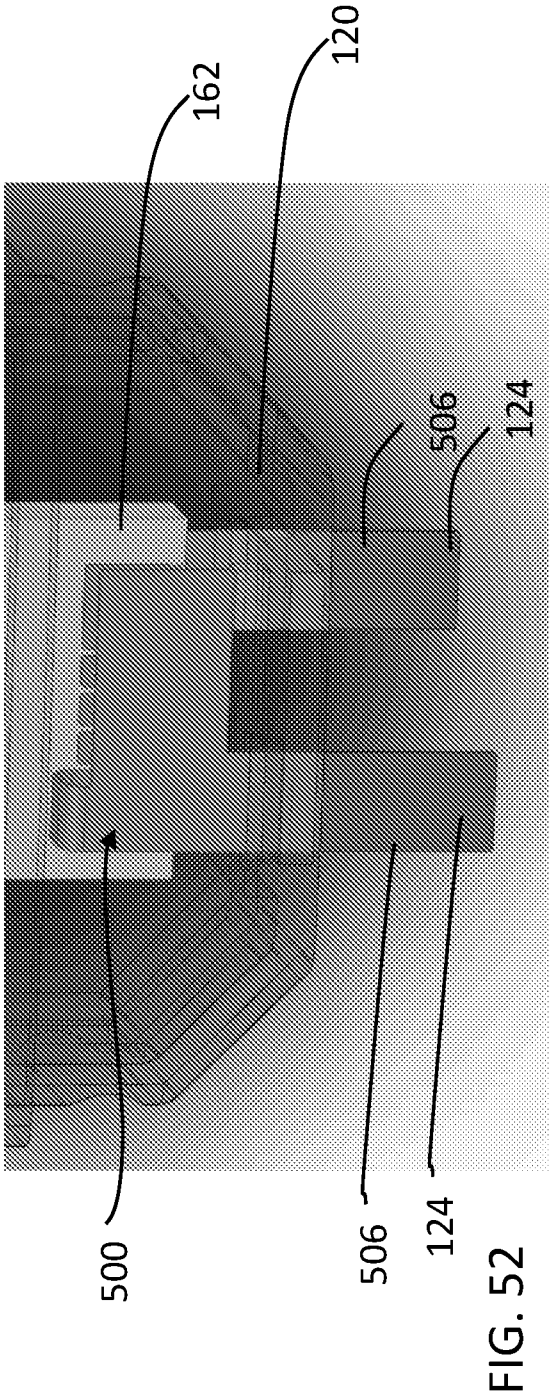


FIG. 52

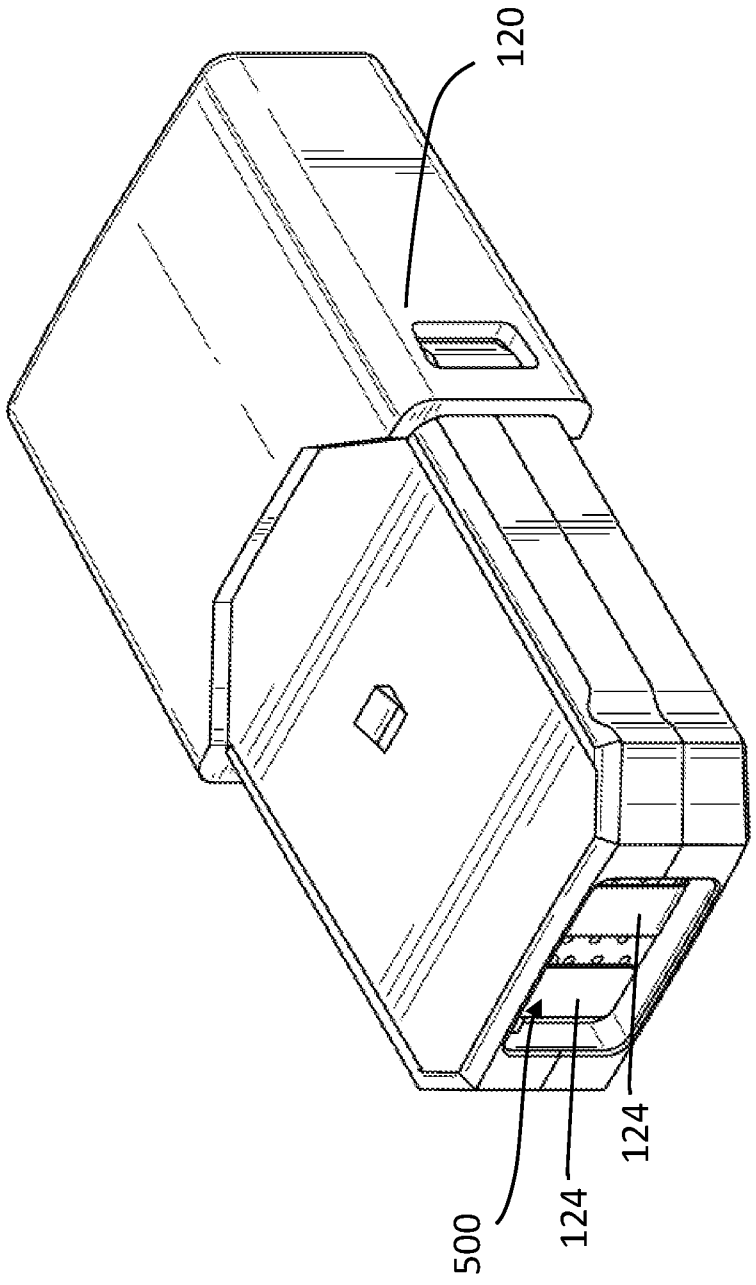


FIG. 53

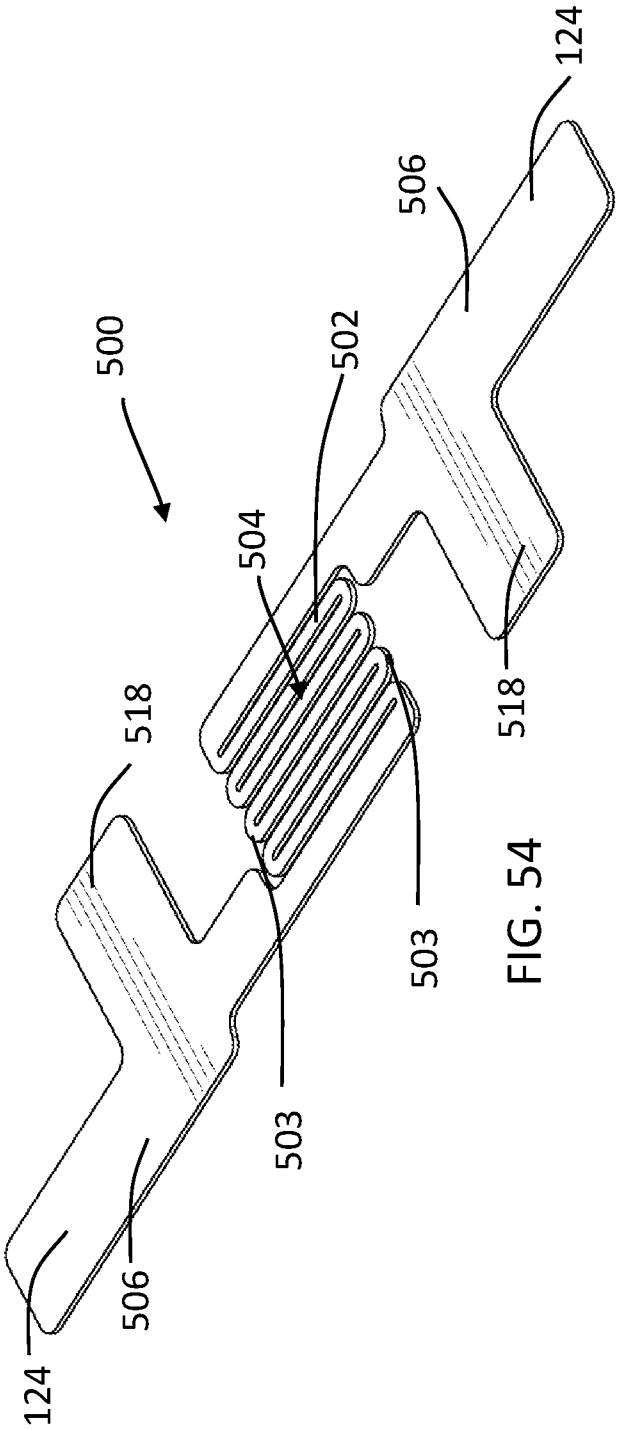


FIG. 54

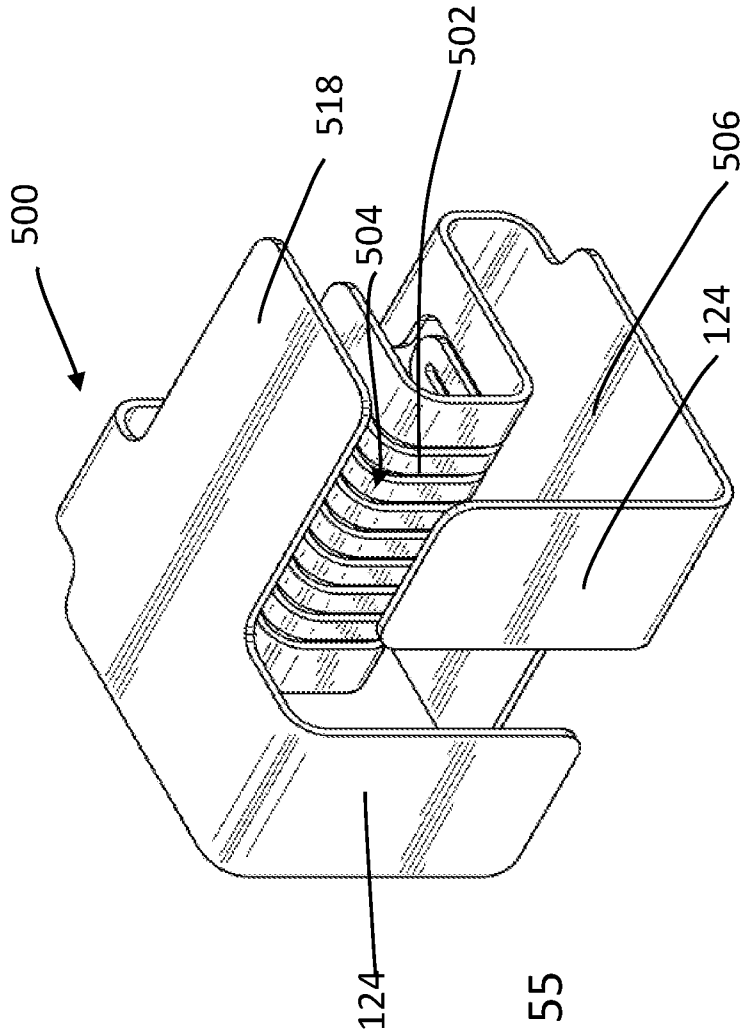


FIG. 55

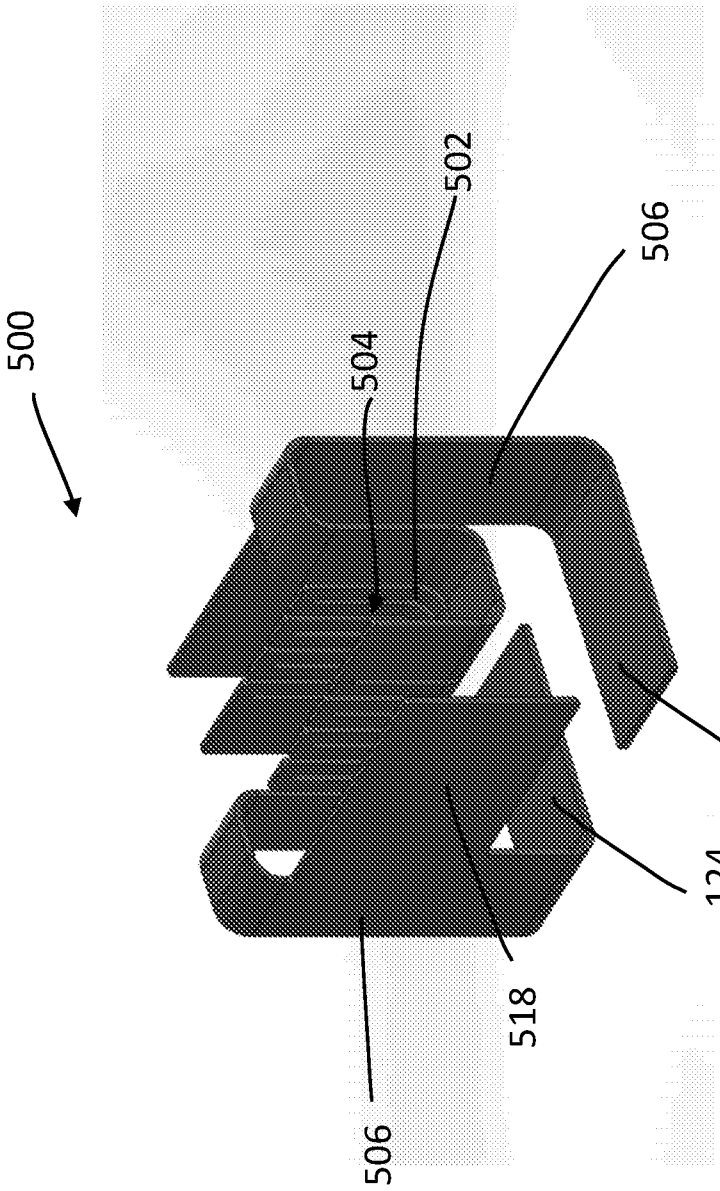


FIG. 56

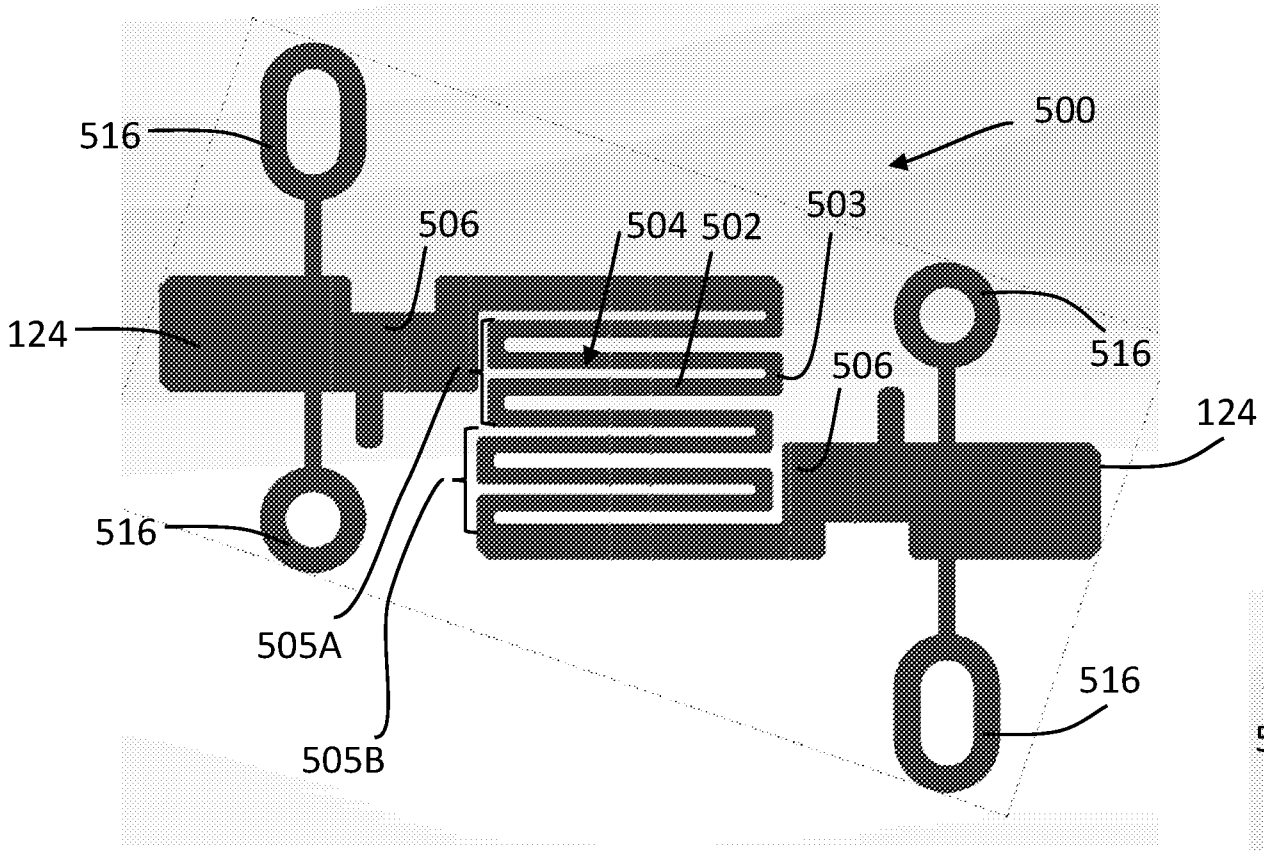

516
500
506
504
502
503
124
516
506
124
516
505A
516
505B

FIG. 57

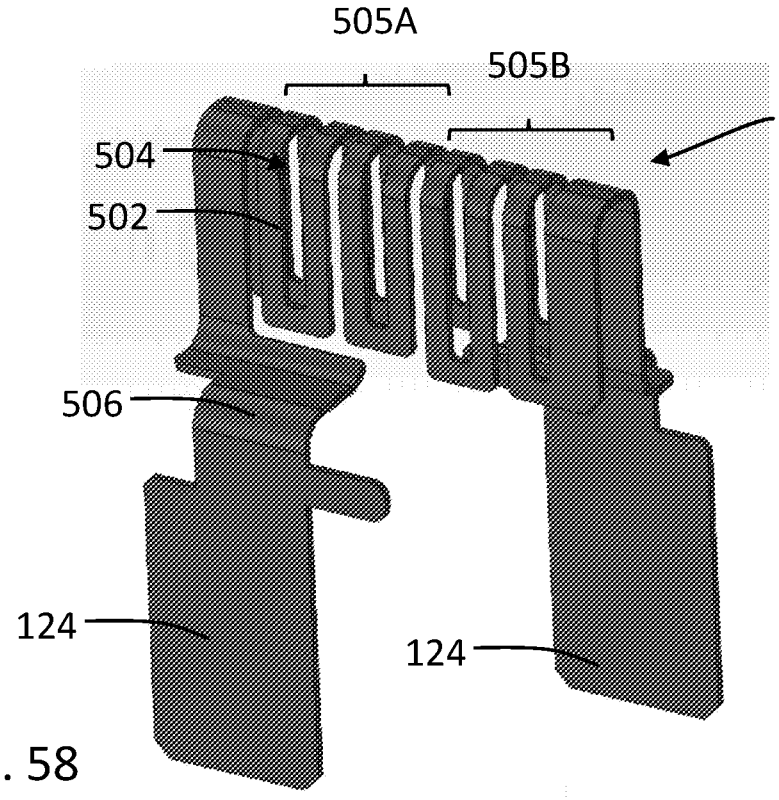

505A
505B
500
504
502
506
124
124

FIG. 58

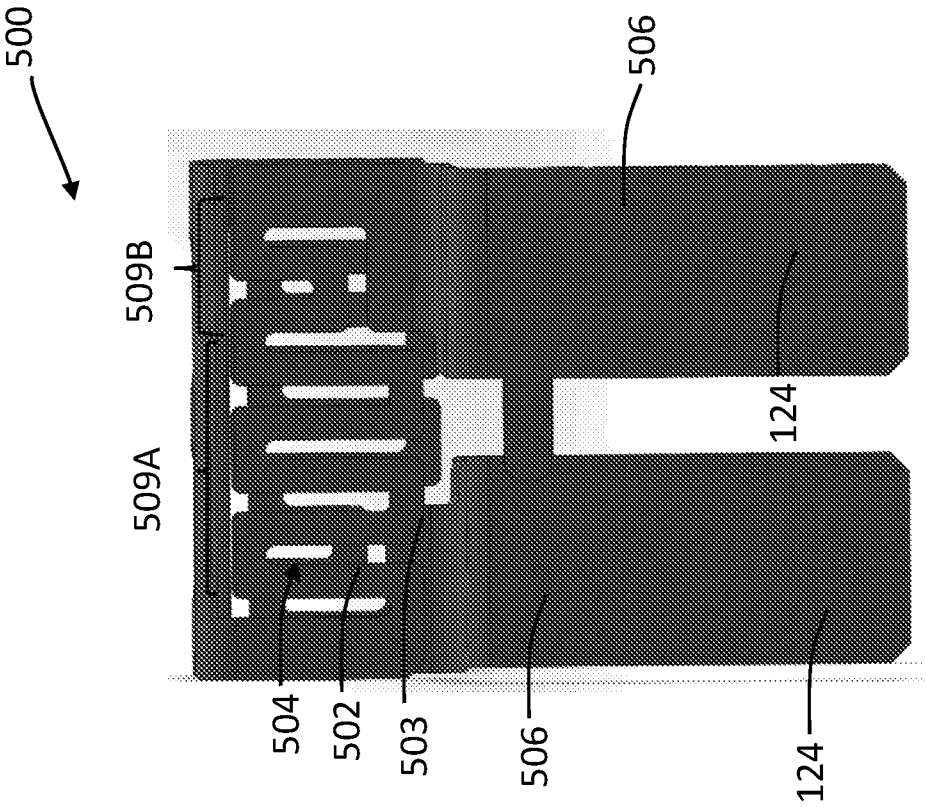

500
509B
509A
506
124
504
502
503
506
124

FIG. 60

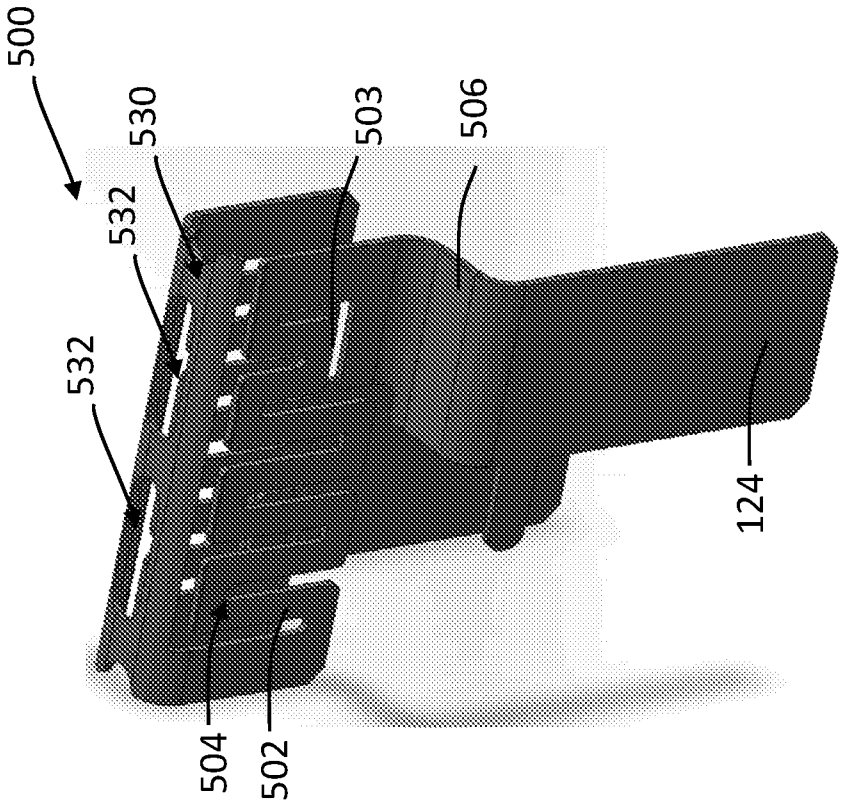

500
530
532
532
503
506
124
504
502

FIG. 59

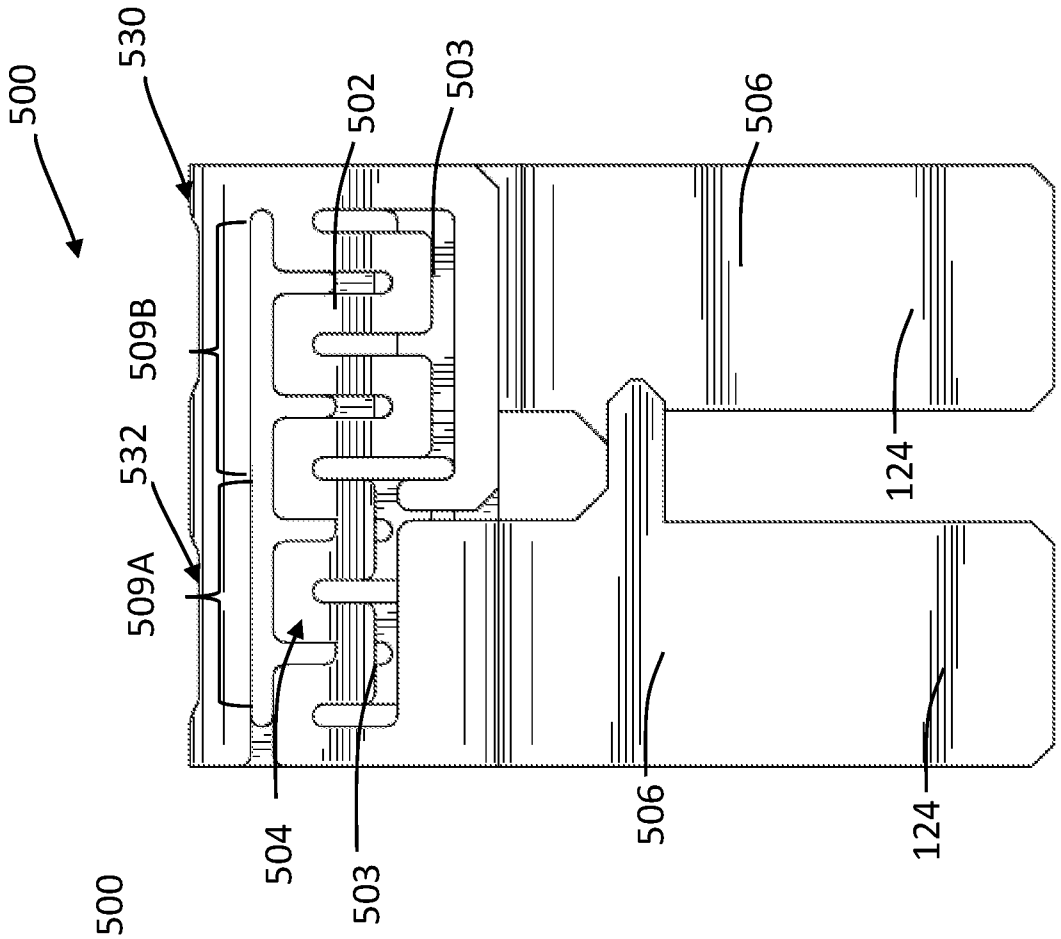

500
530
502
503
506
509B
532
509A
124
504
503
506
124

FIG. 62

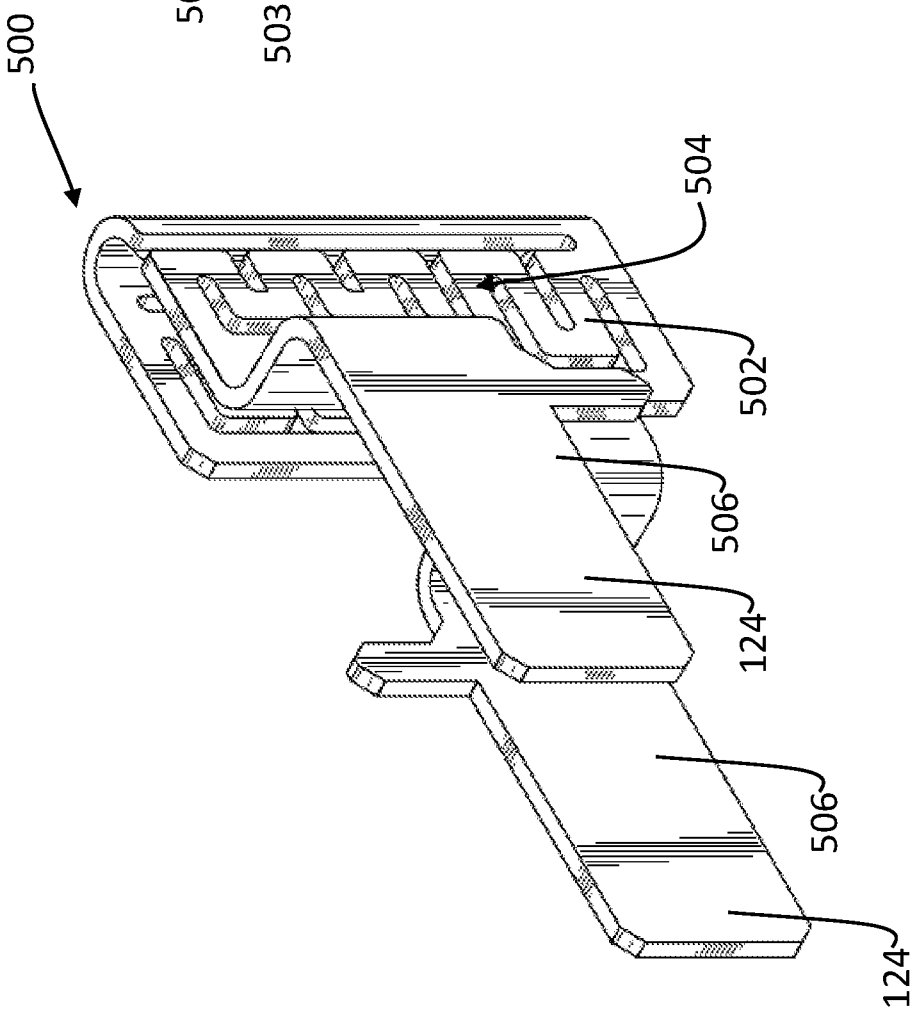

500
504
502
506
124
506
124

FIG. 61

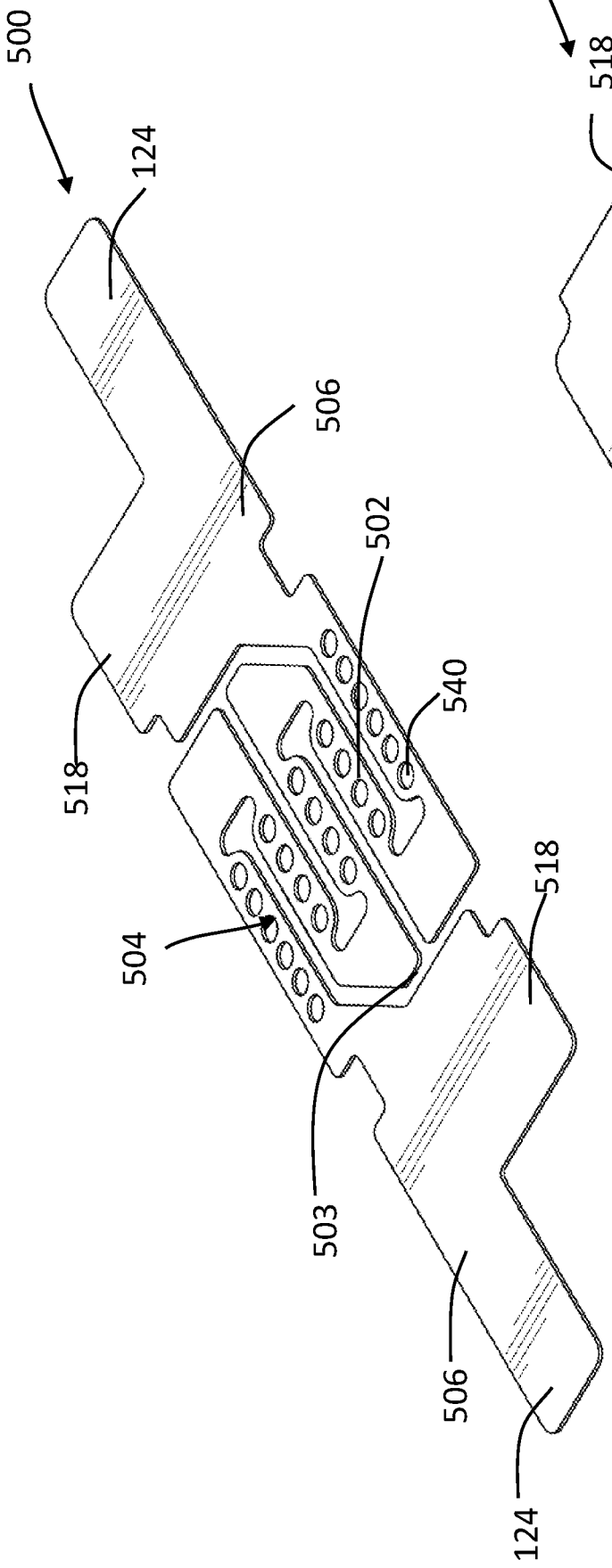

500
124
506
502
518
540
504
518
503
506
124

FIG. 63

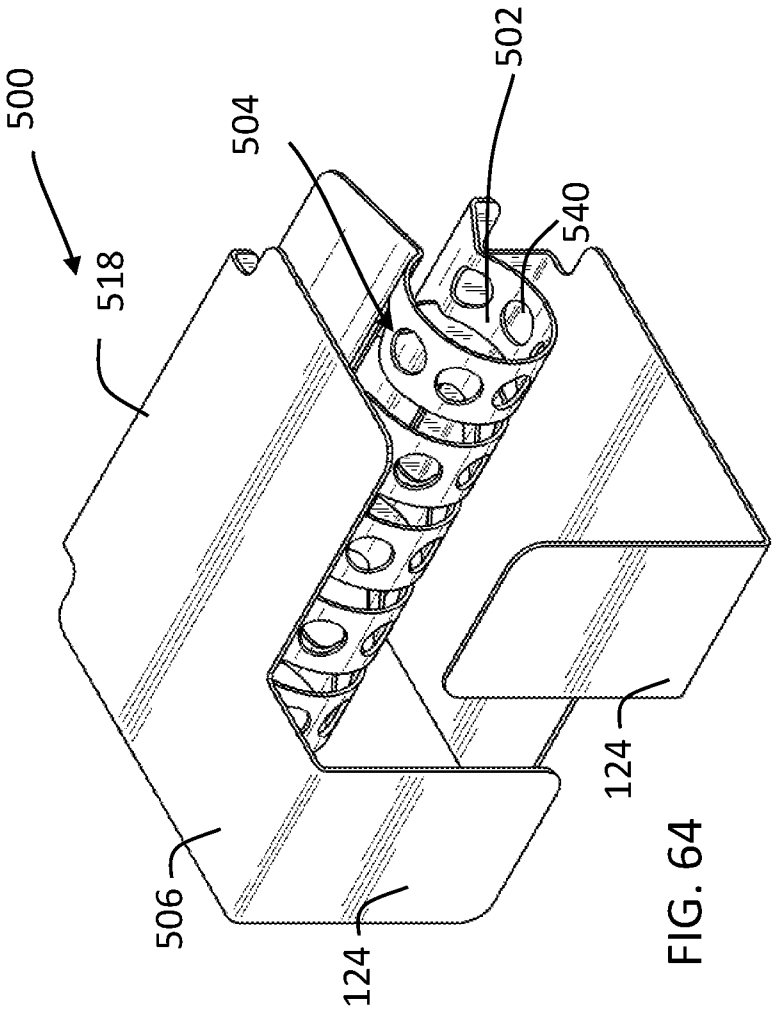

500
502
504
540
518
124
506
124

FIG. 64

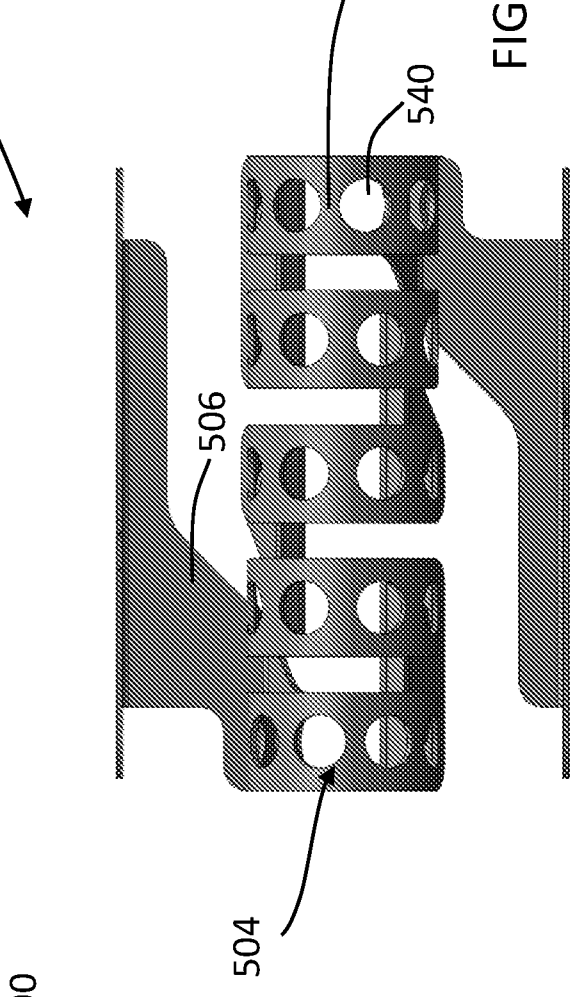


FIG. 66

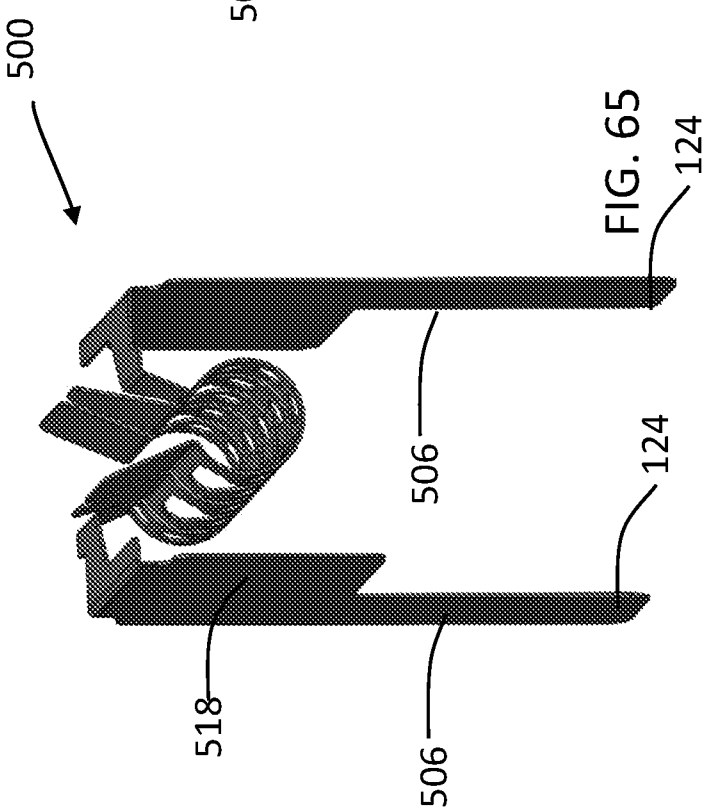


FIG. 65

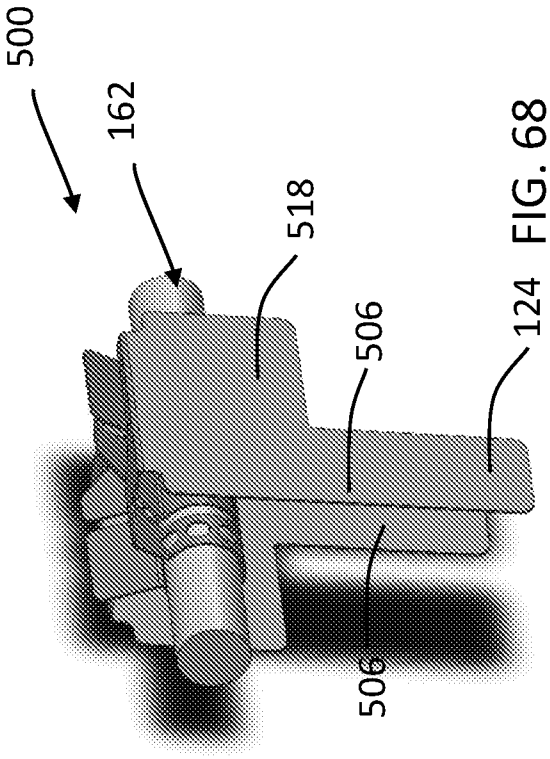


FIG. 68

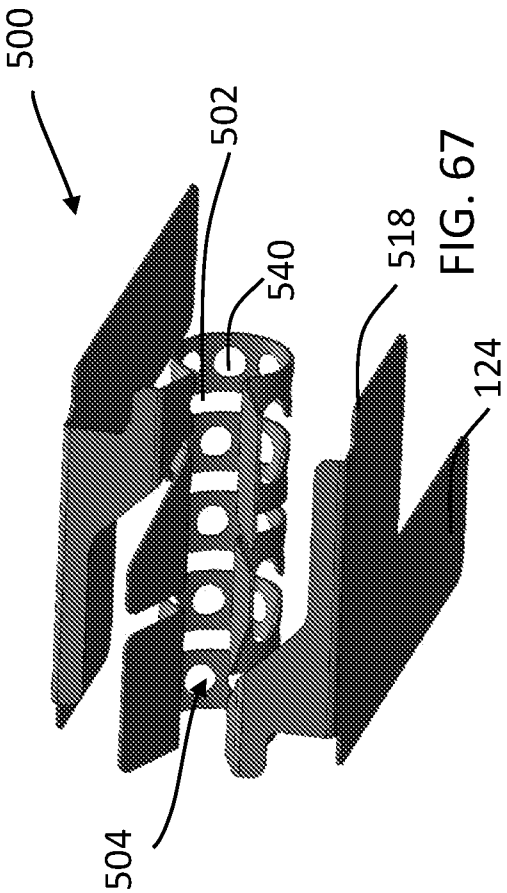


FIG. 67

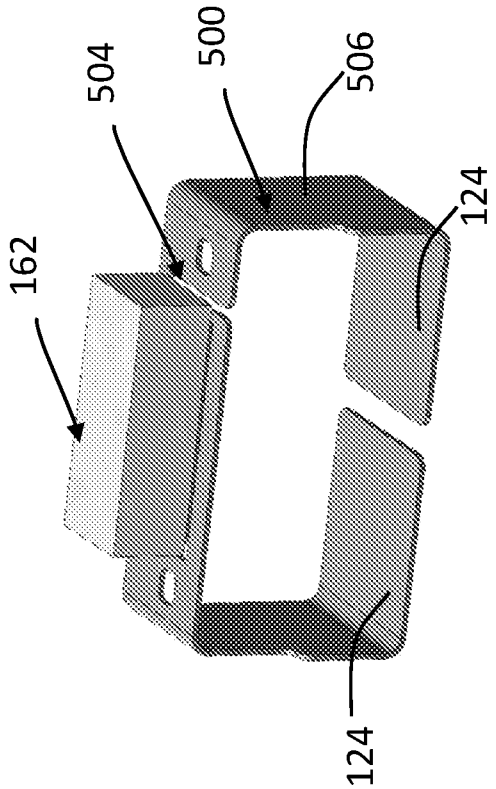


FIG. 70

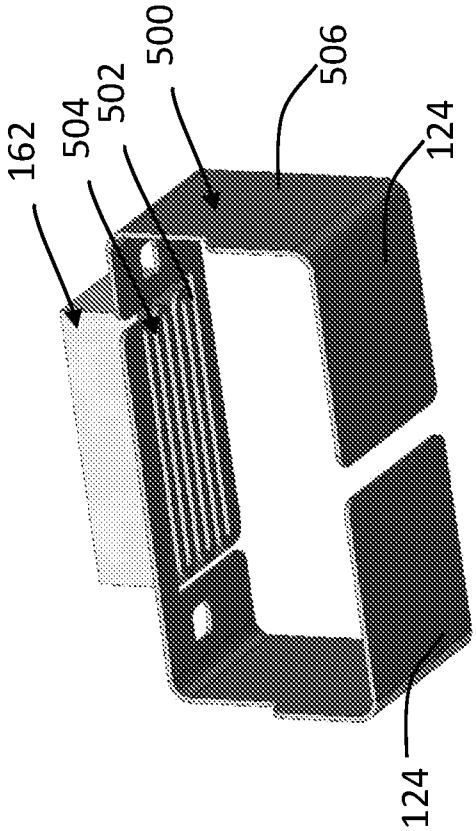


FIG. 69

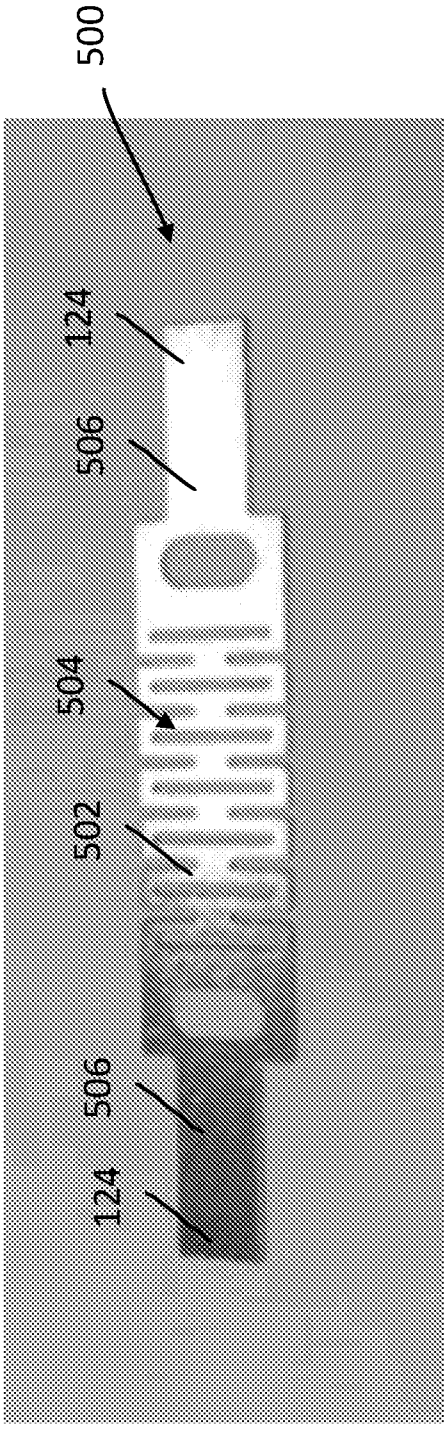


FIG. 71

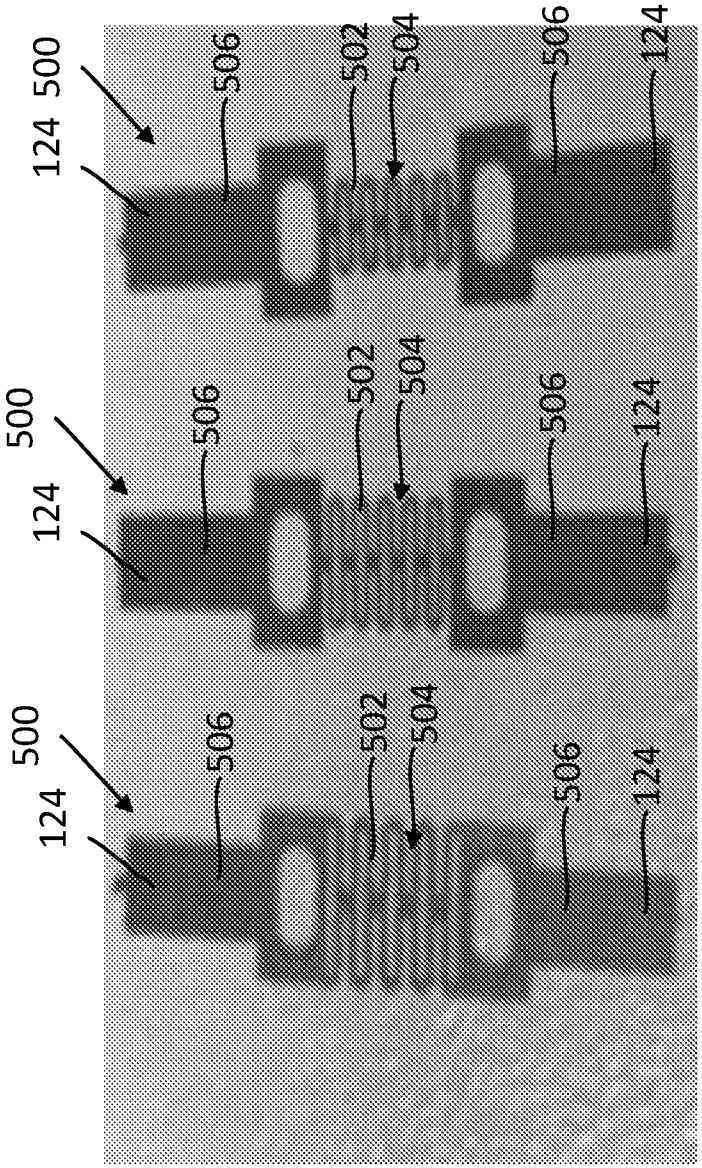


FIG. 72

FIG. 73

FIG. 74

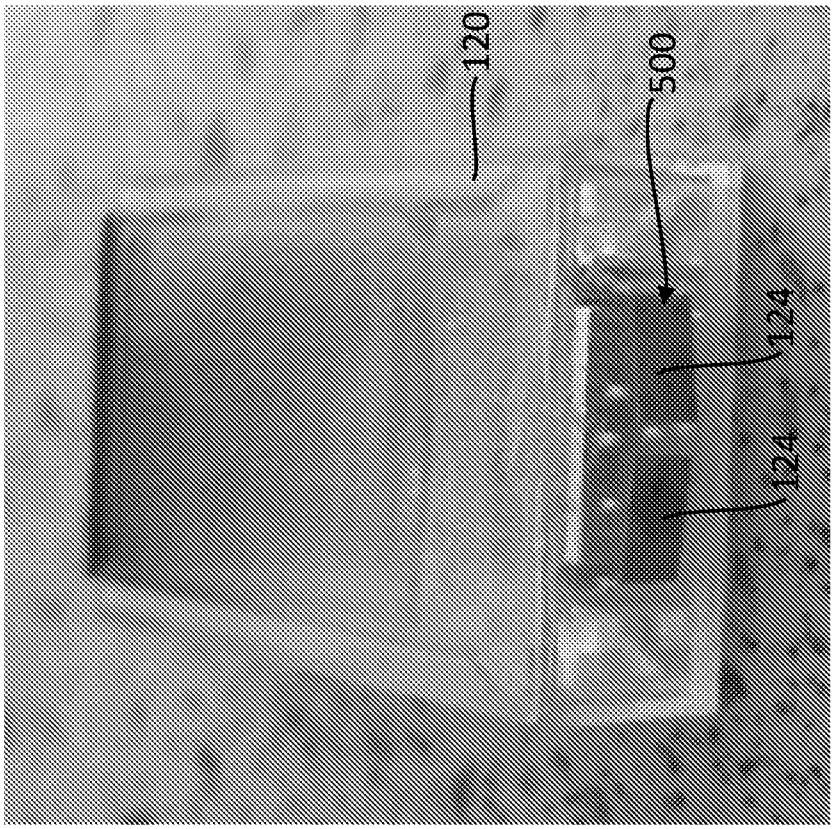


FIG. 76

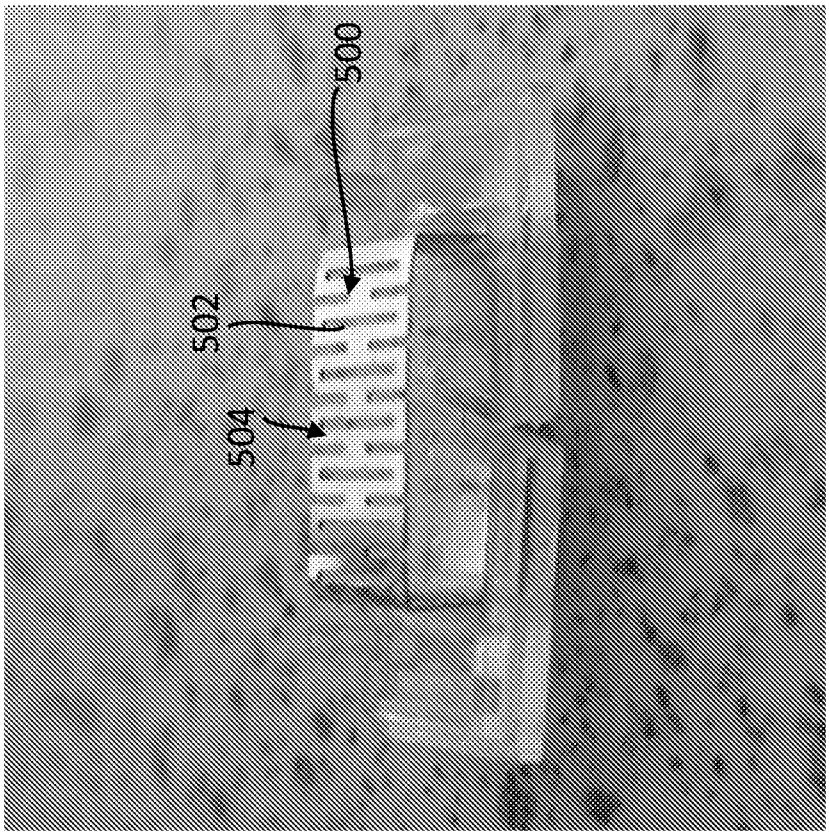


FIG. 75

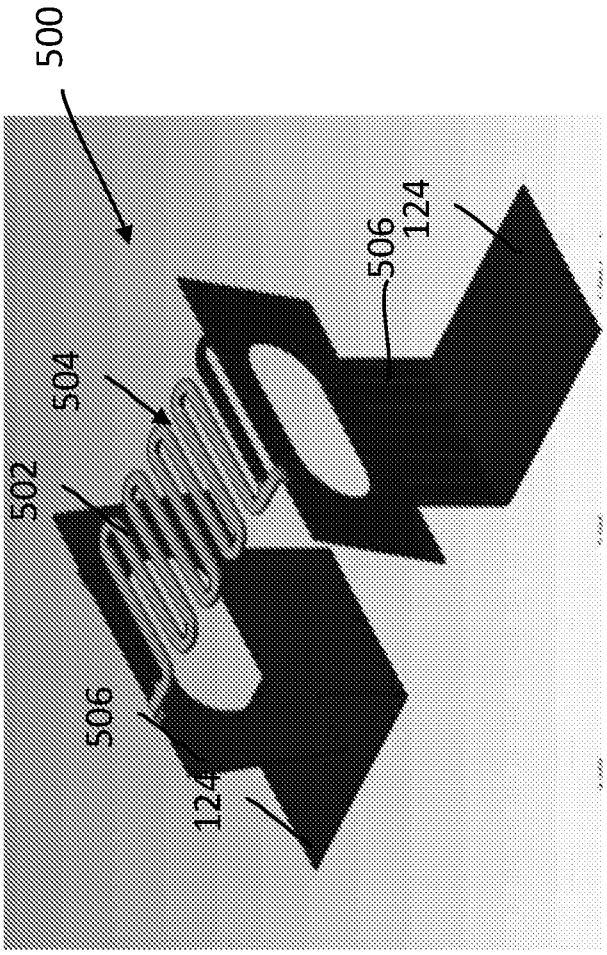


FIG. 77

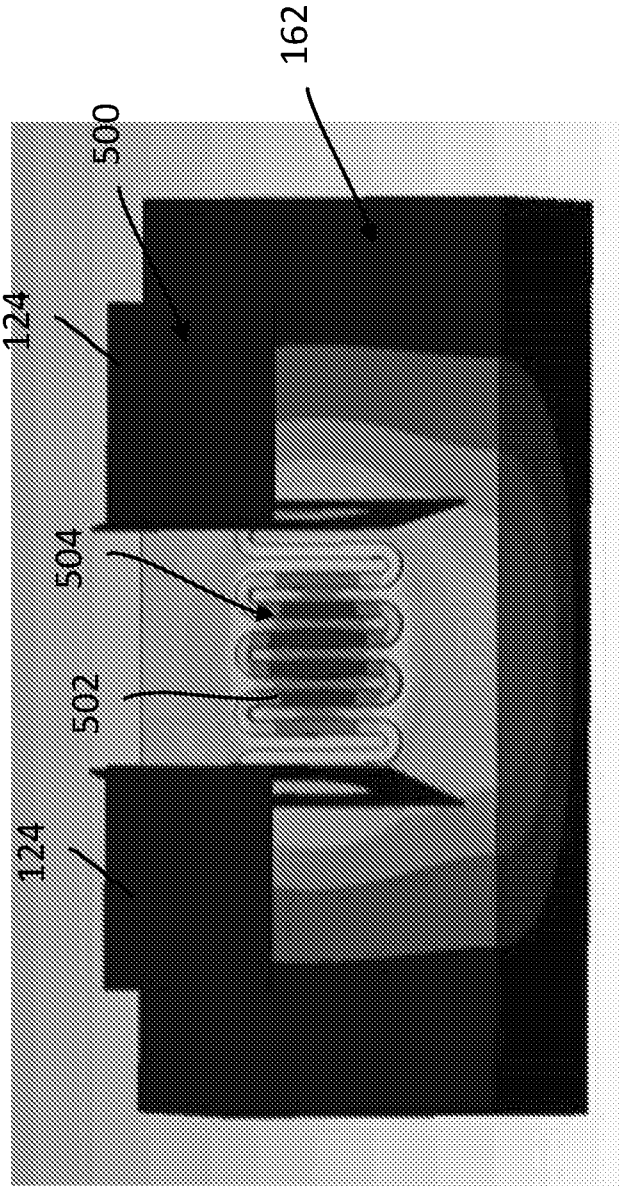


FIG. 78

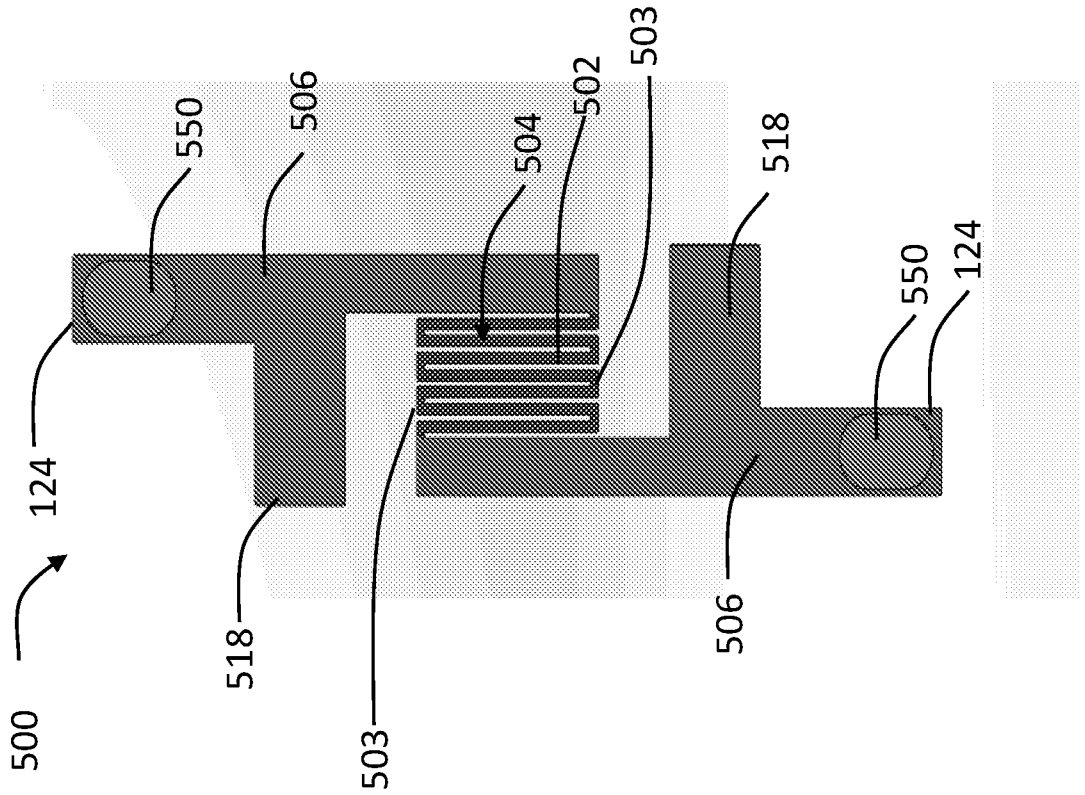


FIG. 79

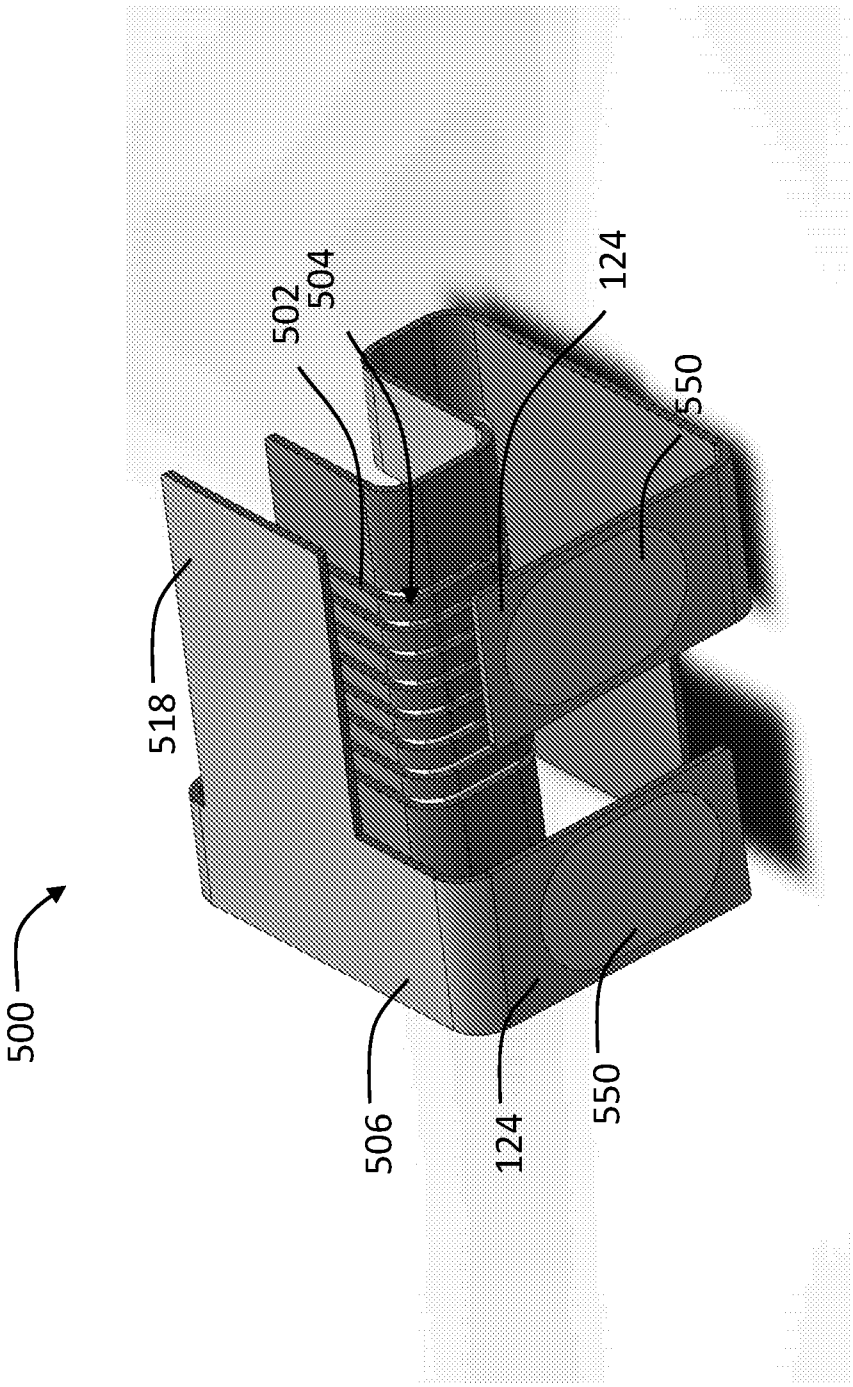


FIG. 80

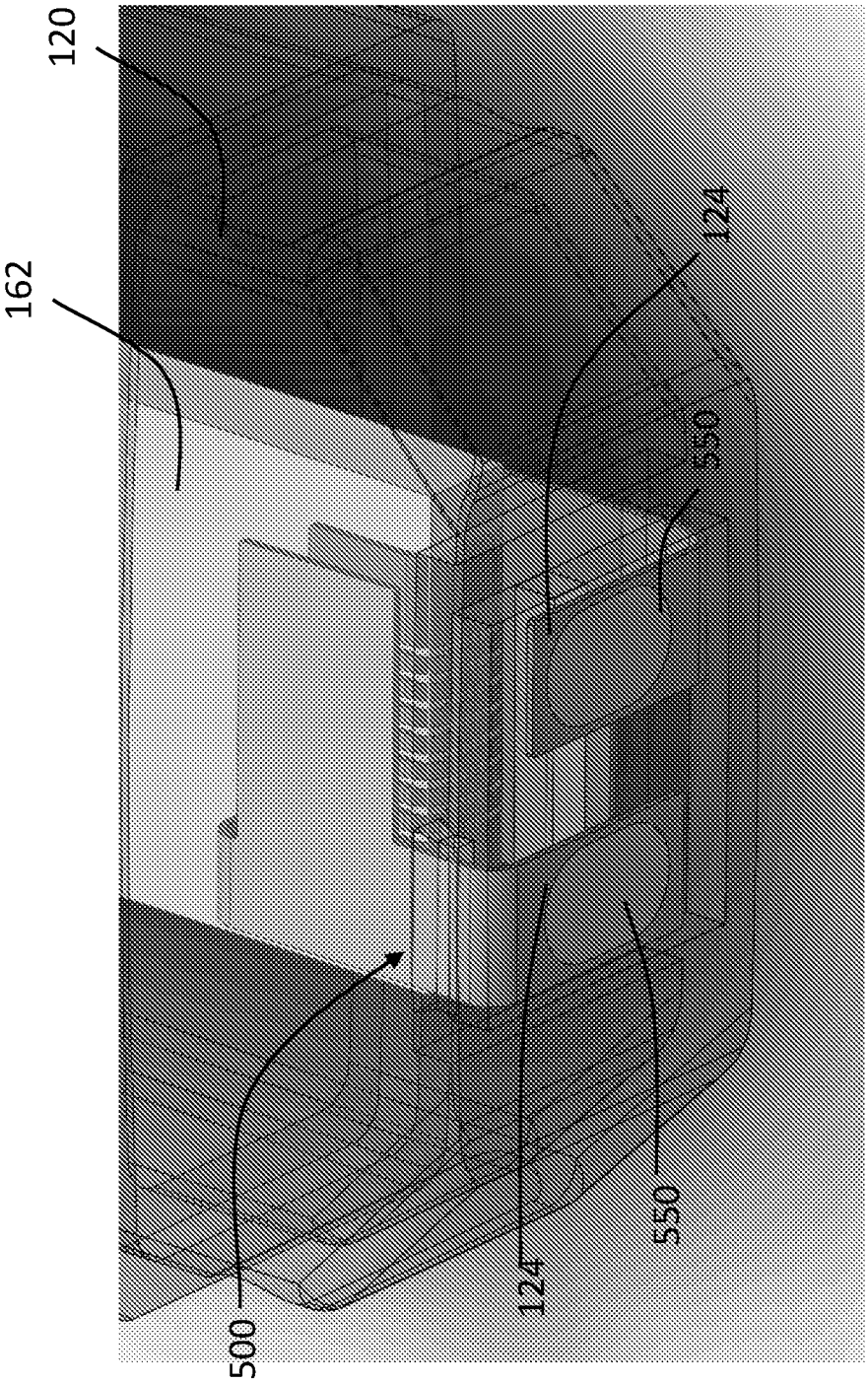


FIG. 81

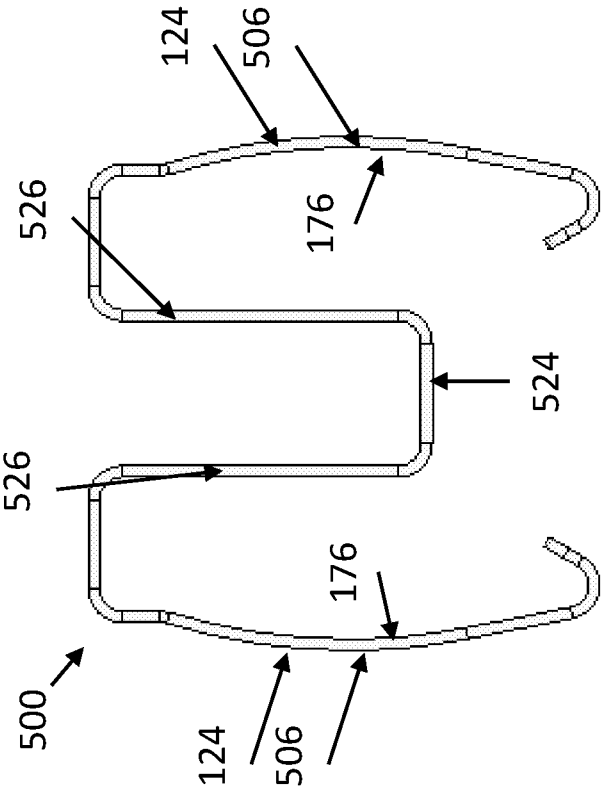


FIG. 83

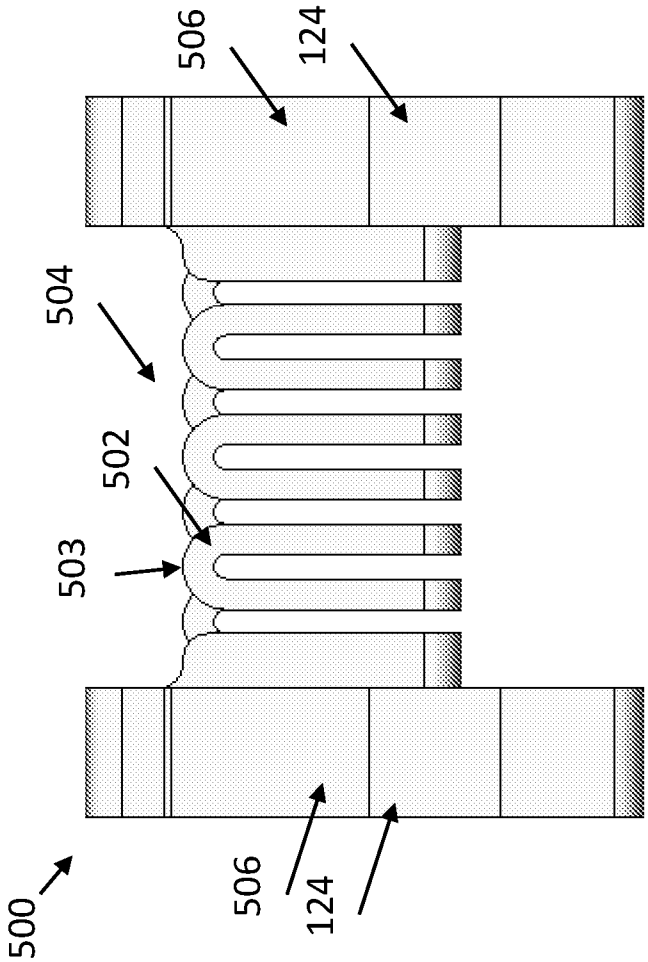


FIG. 84

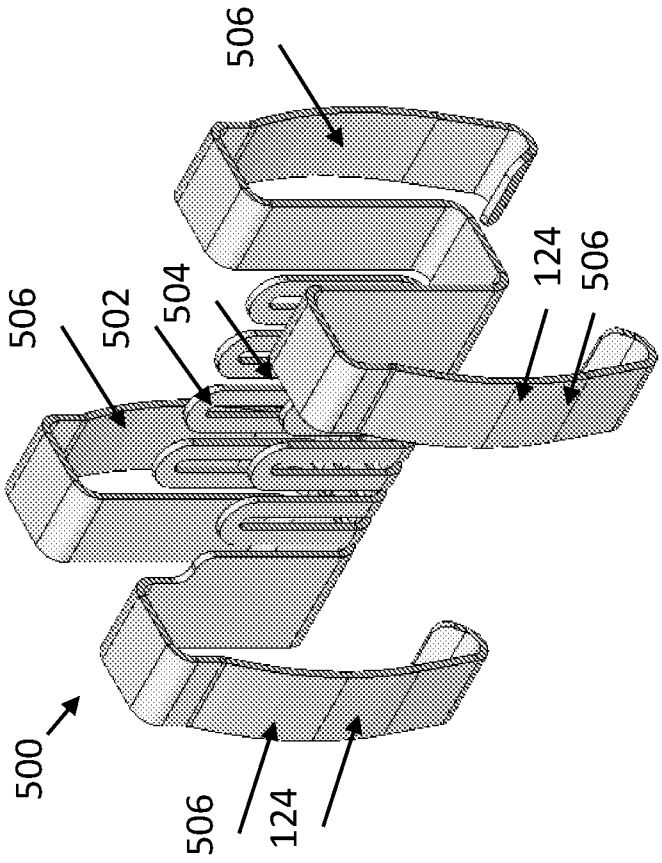


FIG. 82

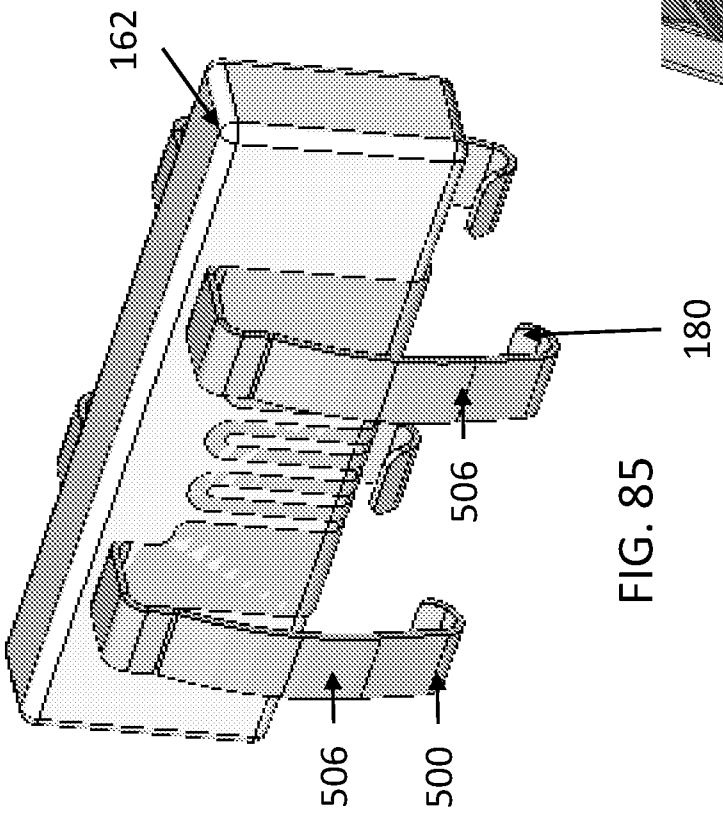


FIG. 85

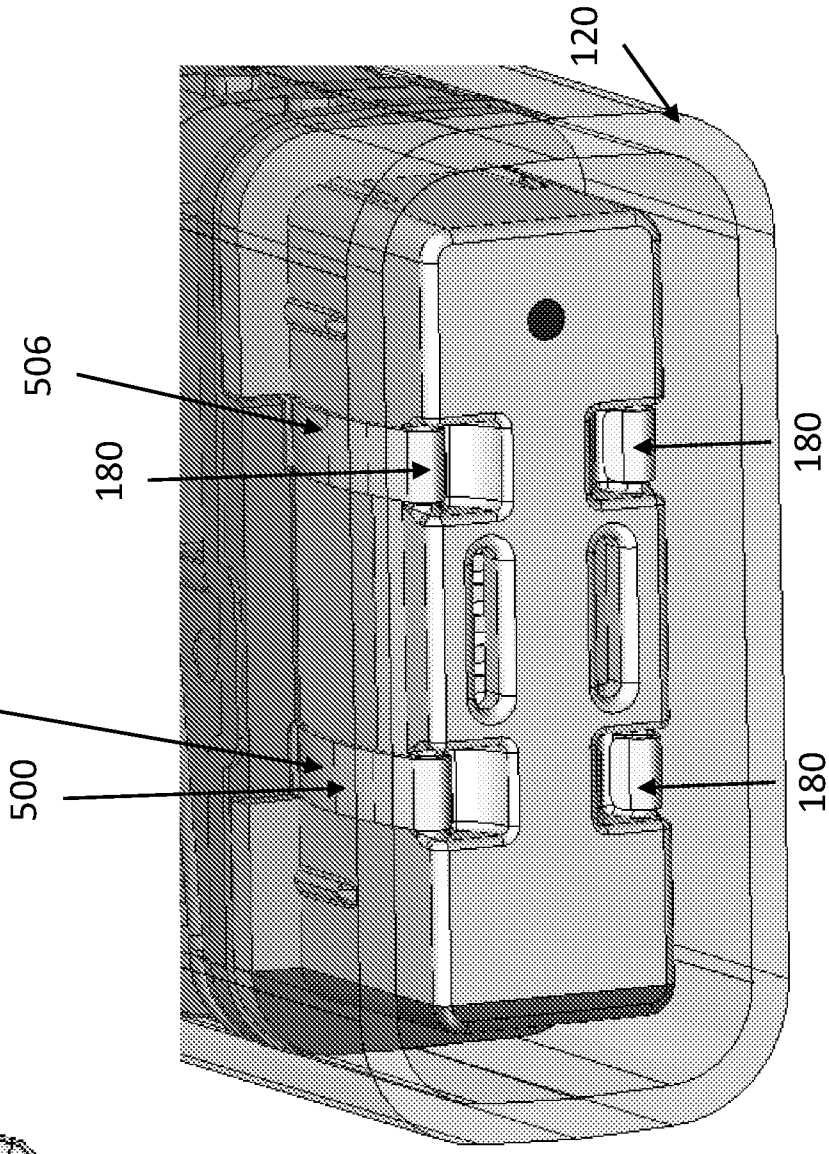


FIG. 86

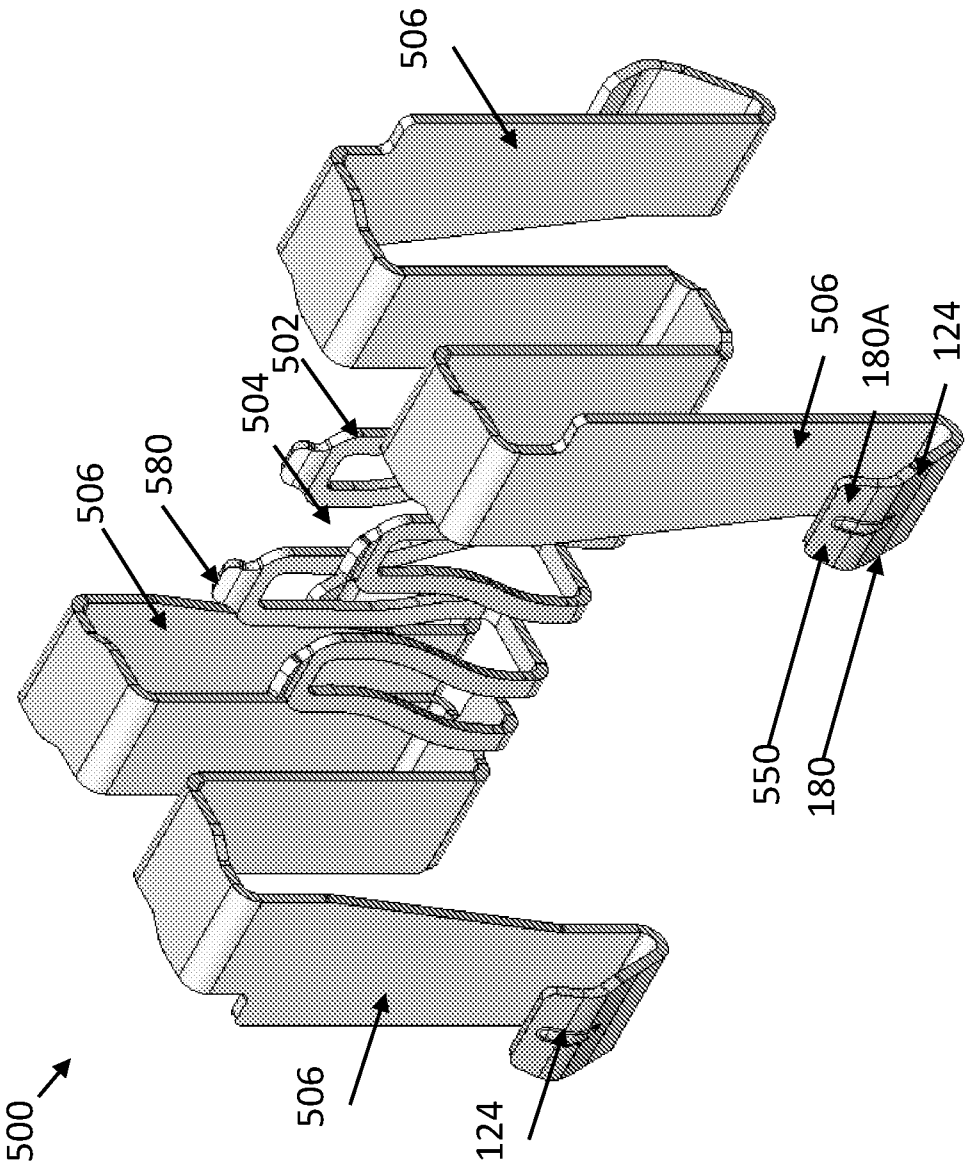


FIG. 87

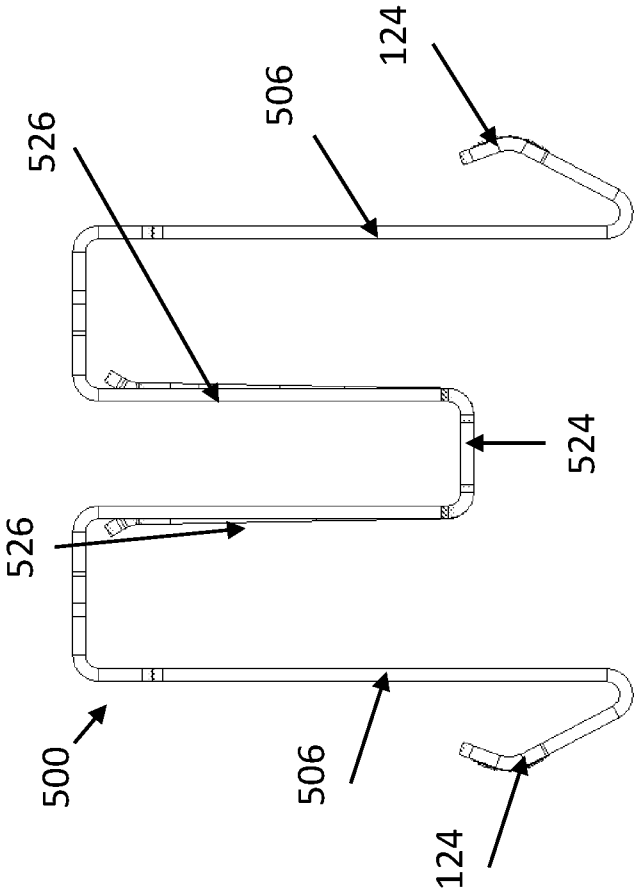


FIG. 88

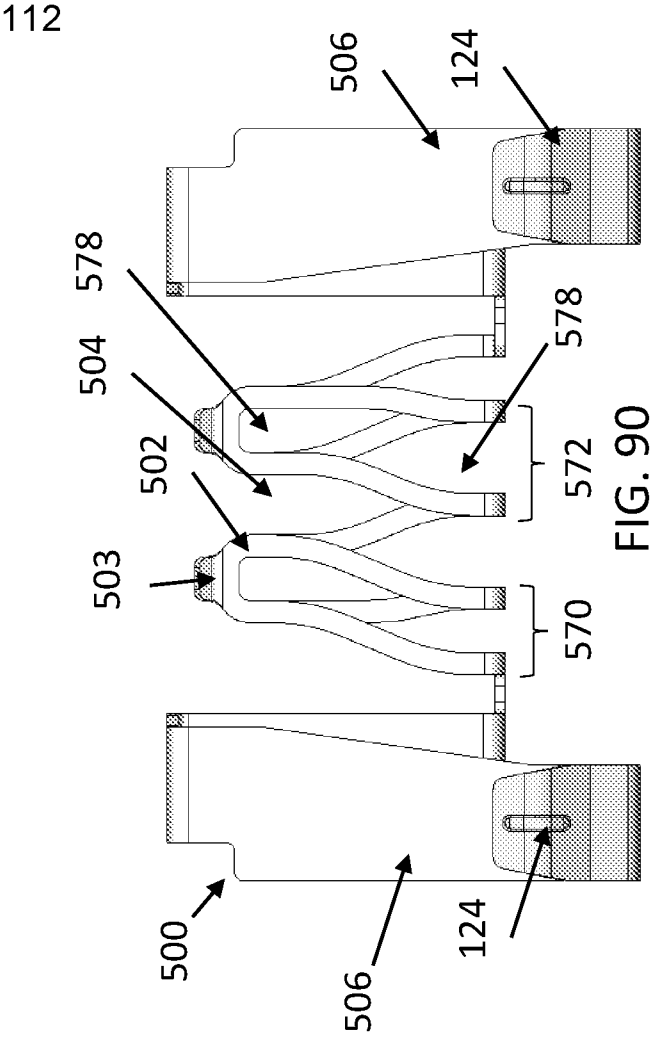


FIG. 90

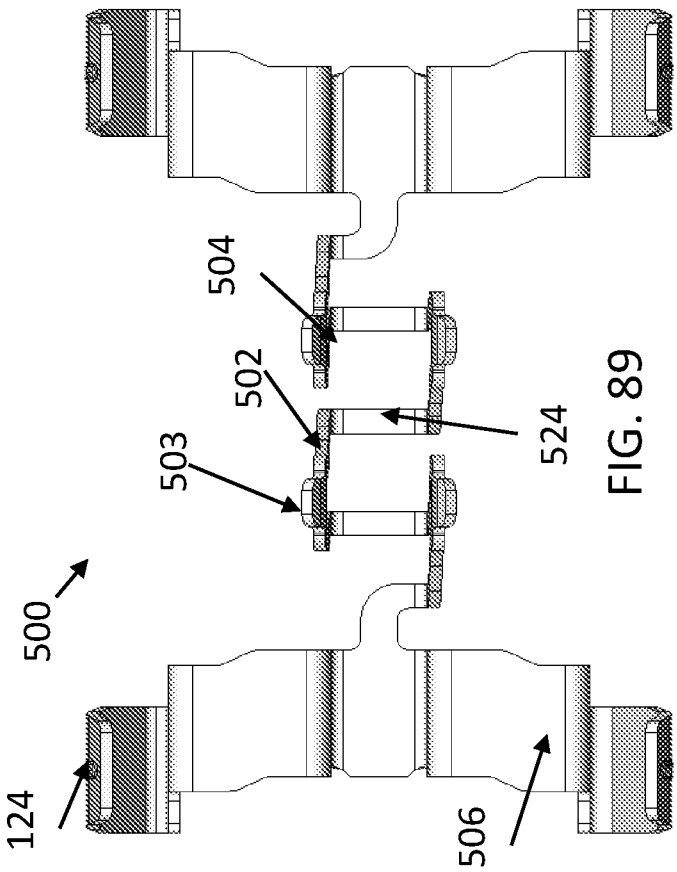


FIG. 89

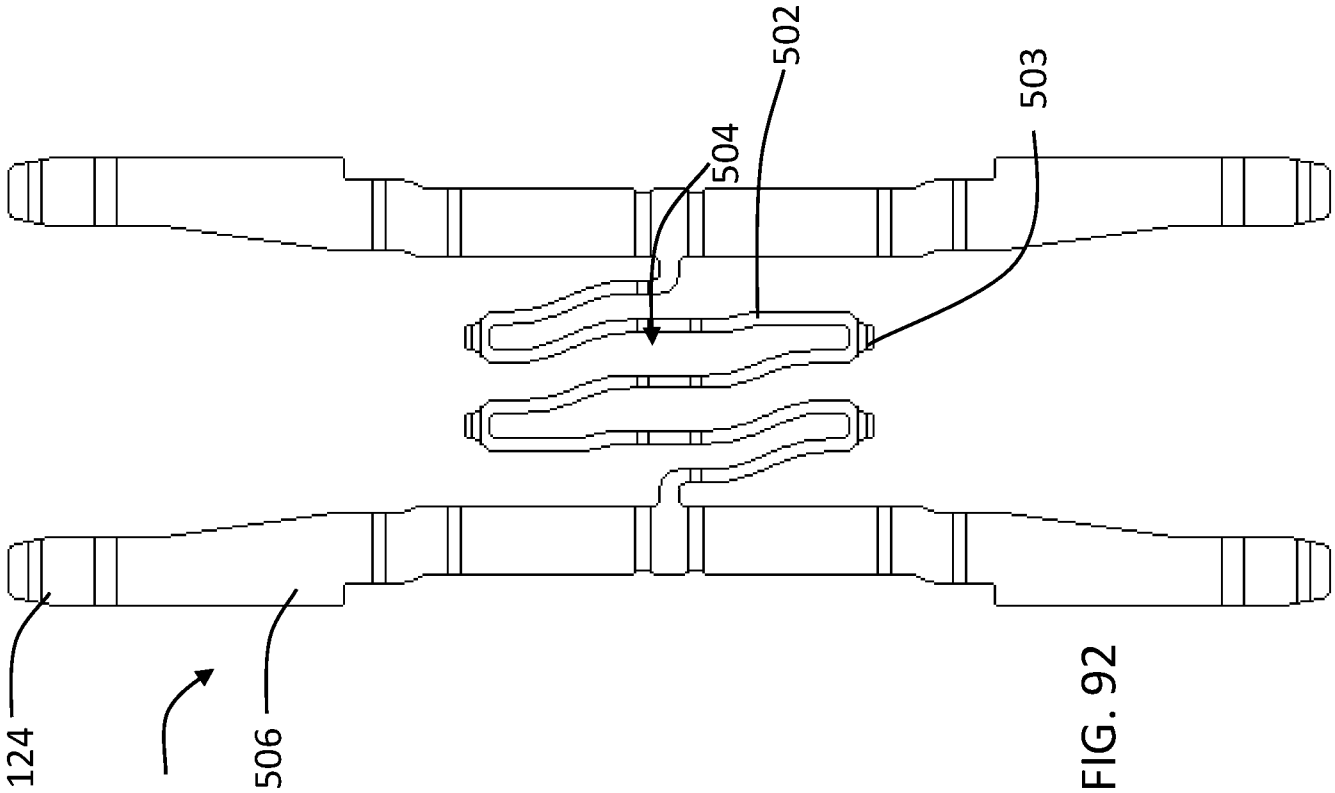


FIG. 92

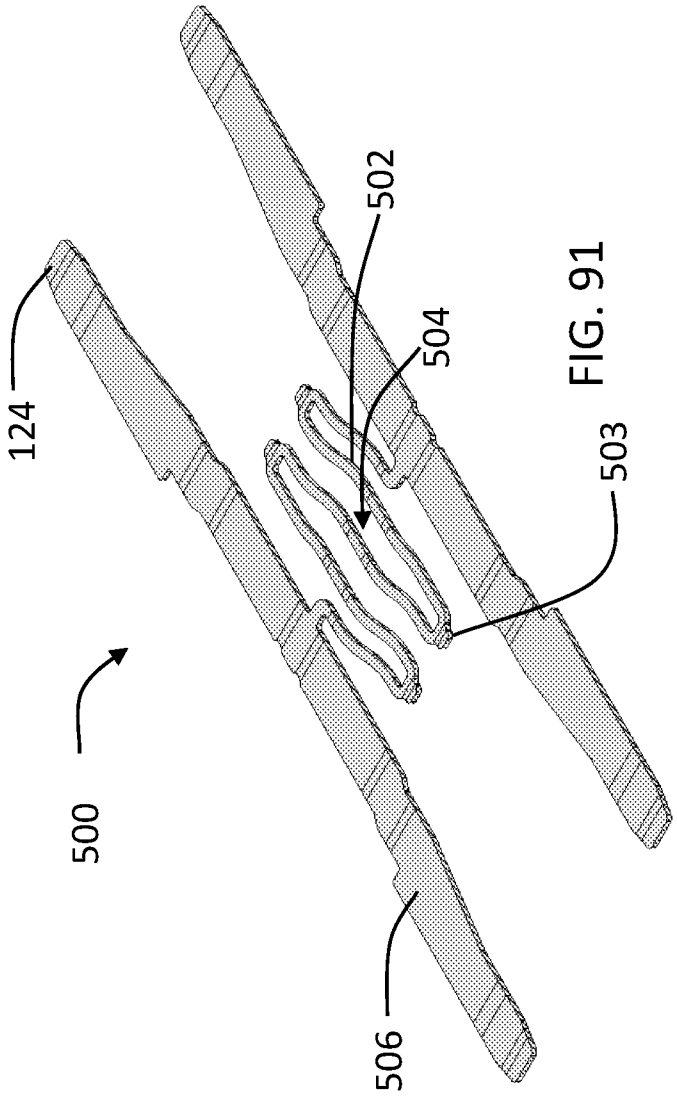


FIG. 91

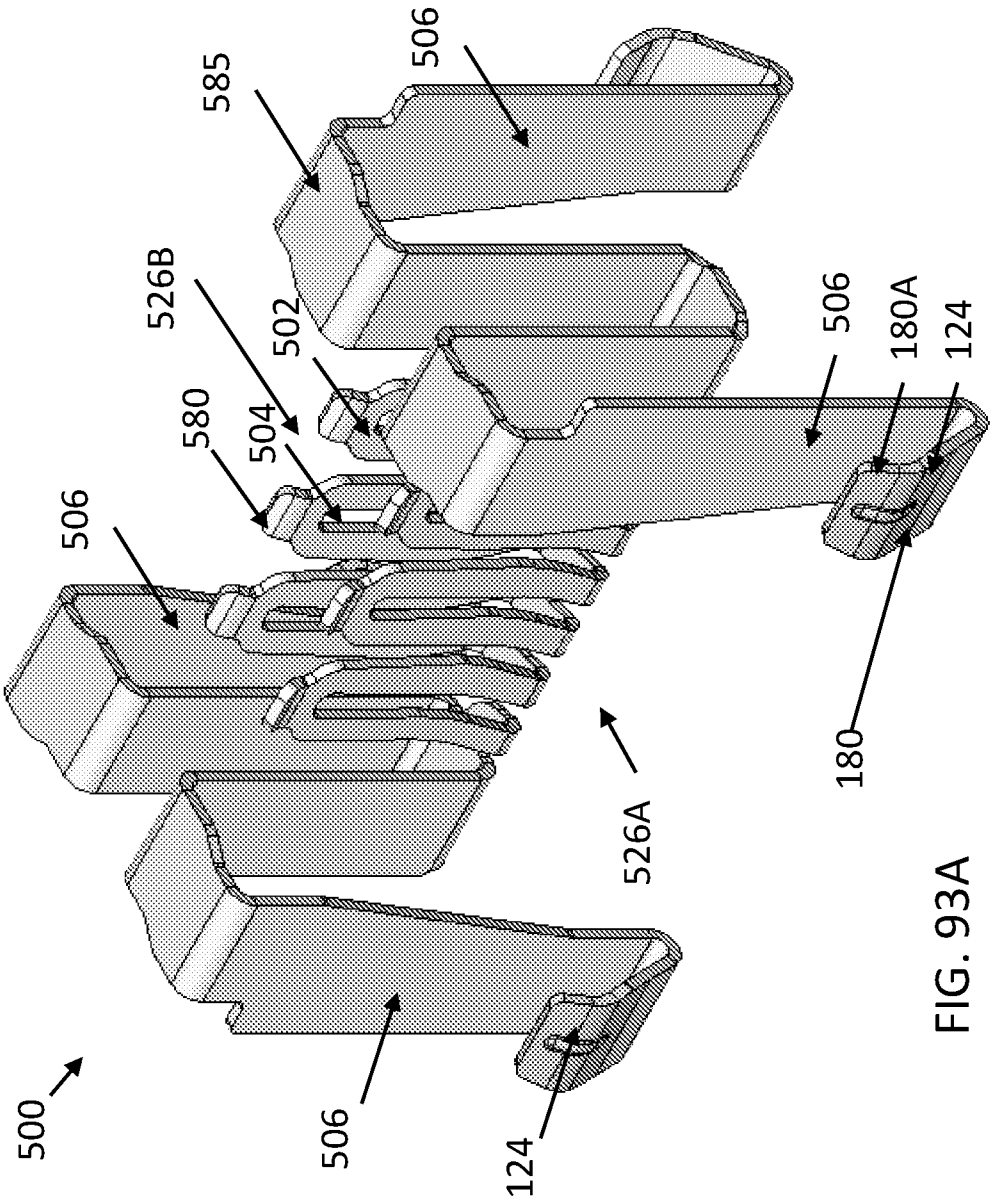


FIG. 93A

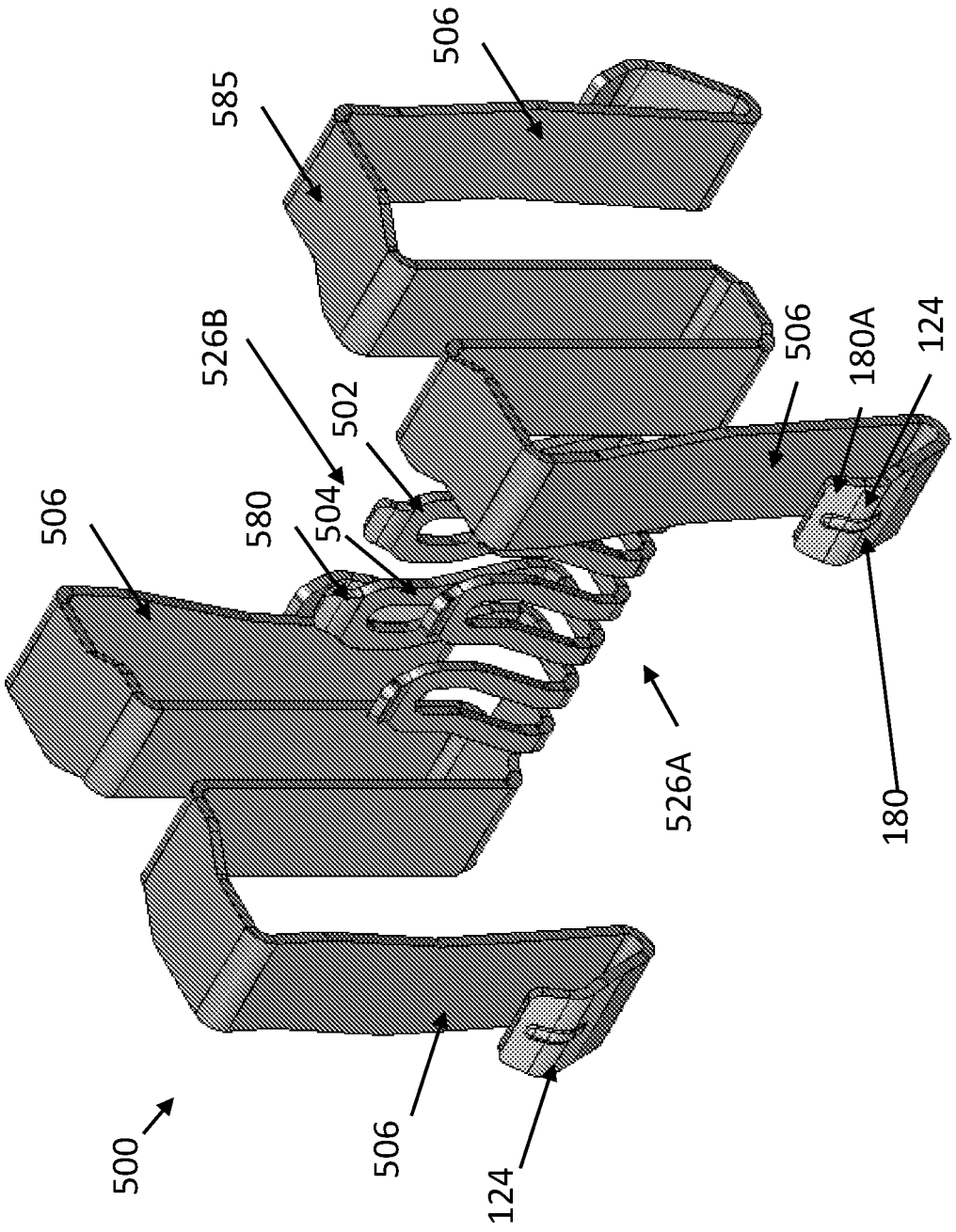


FIG. 93B

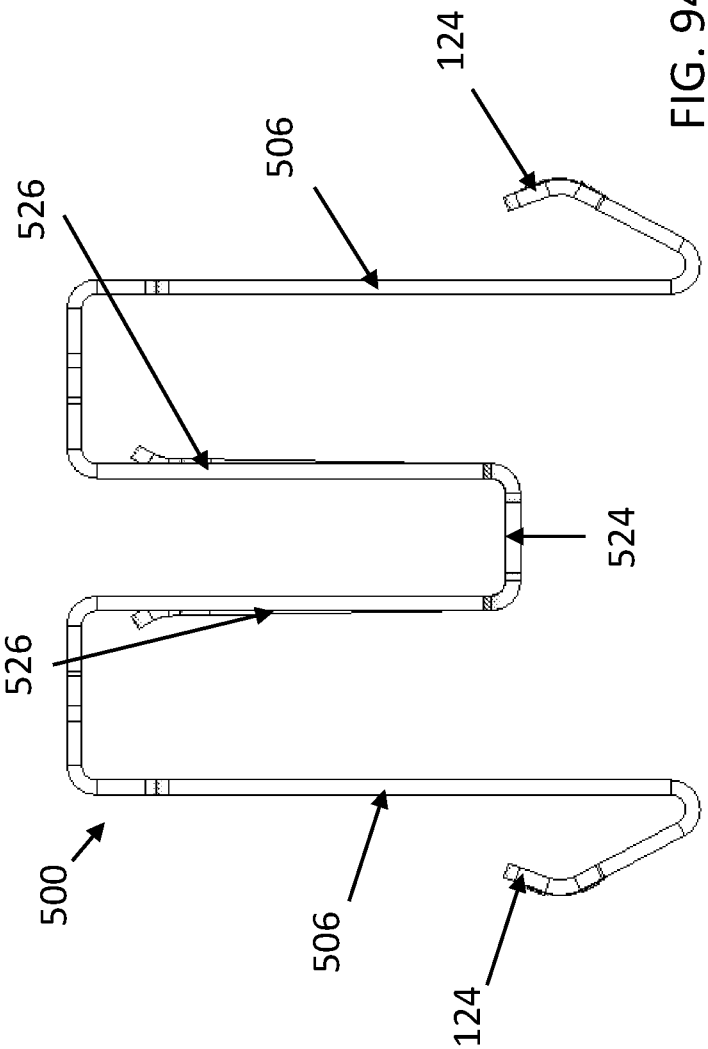


FIG. 94

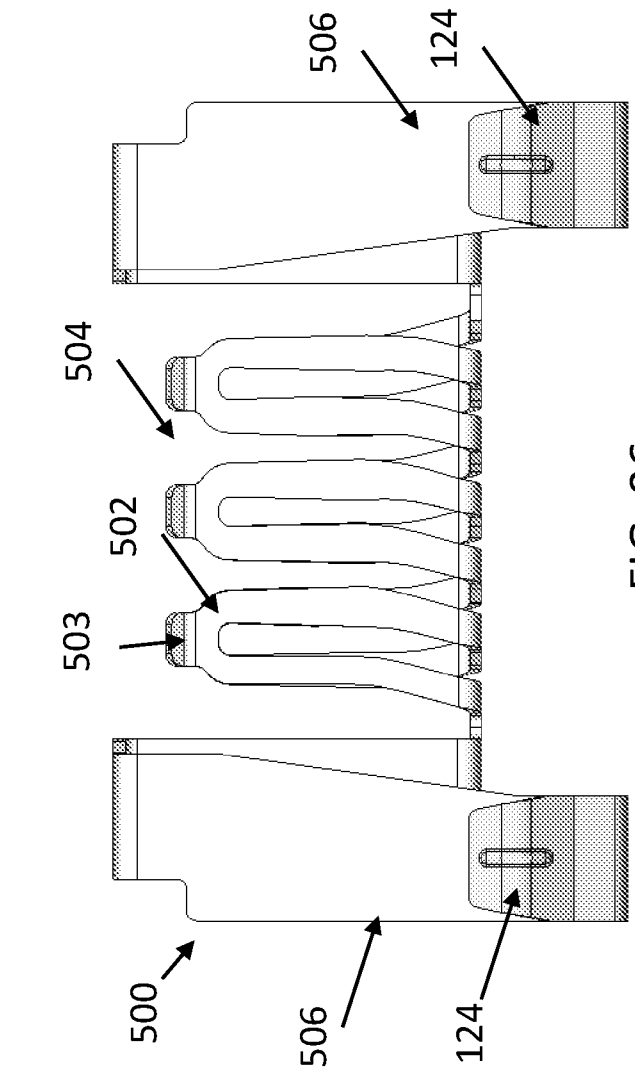


FIG. 96

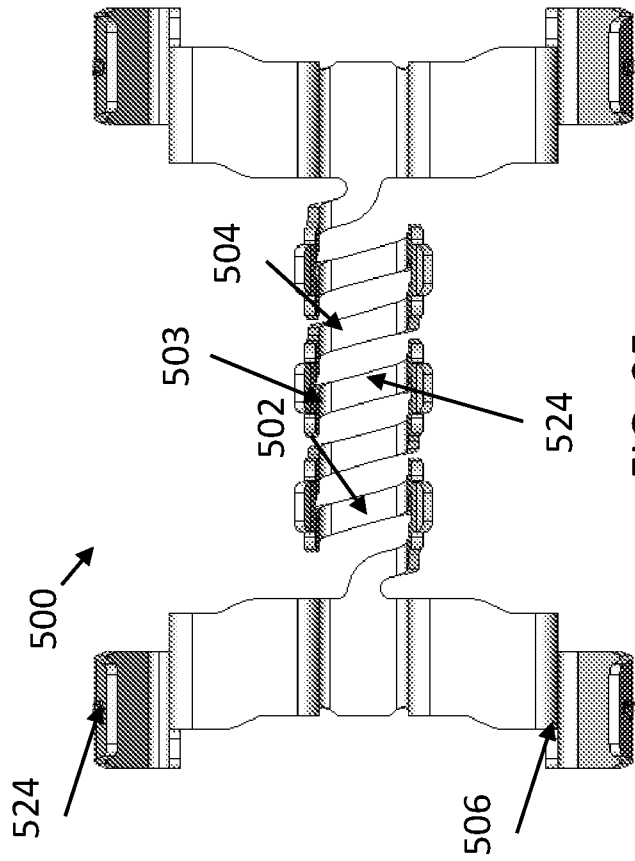


FIG. 95

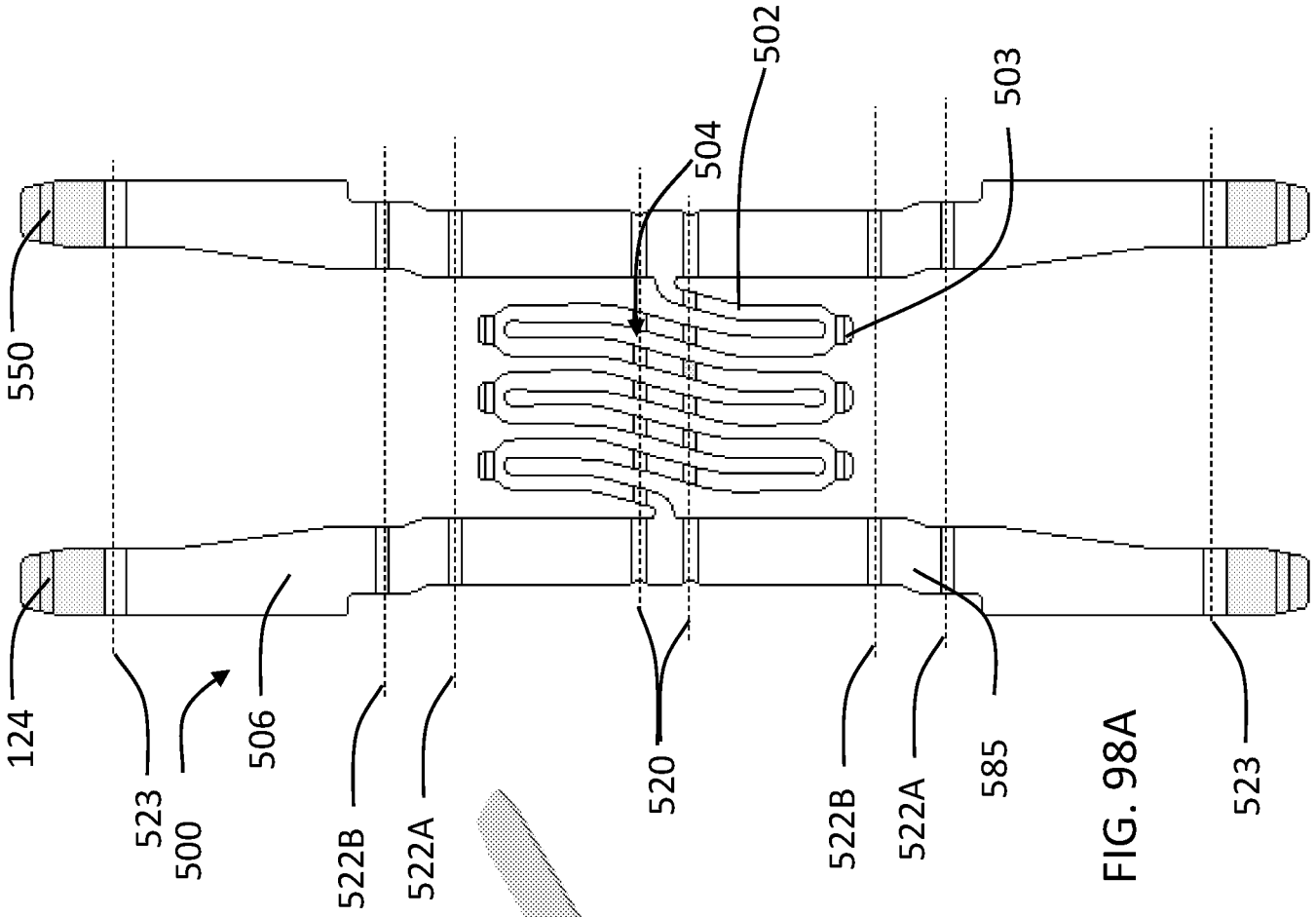


FIG. 98A

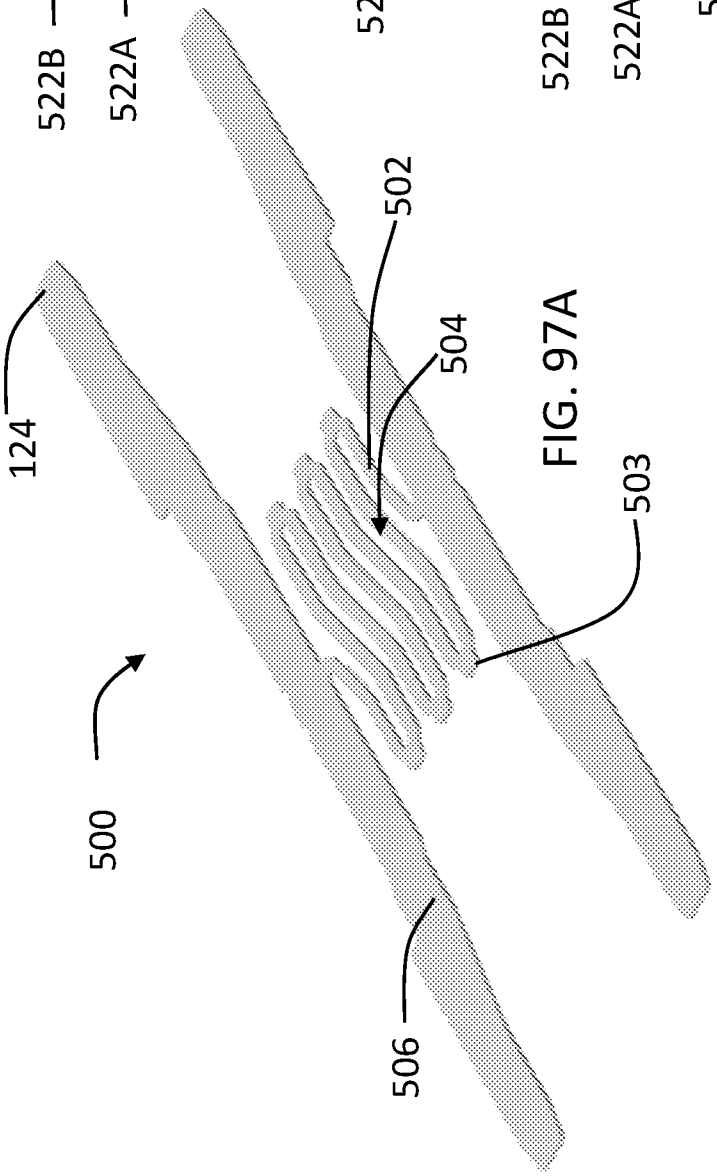


FIG. 97A

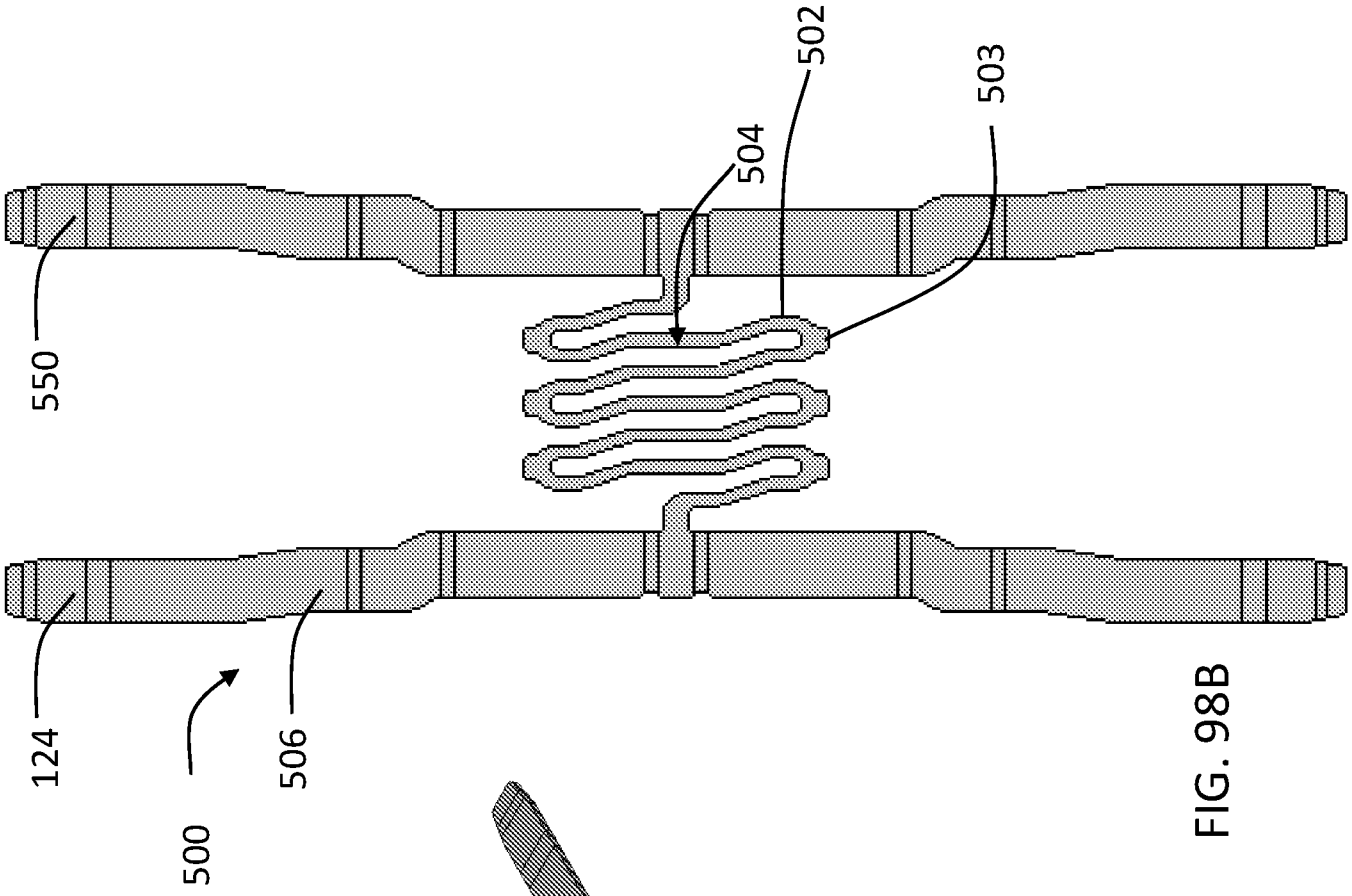


FIG. 98B

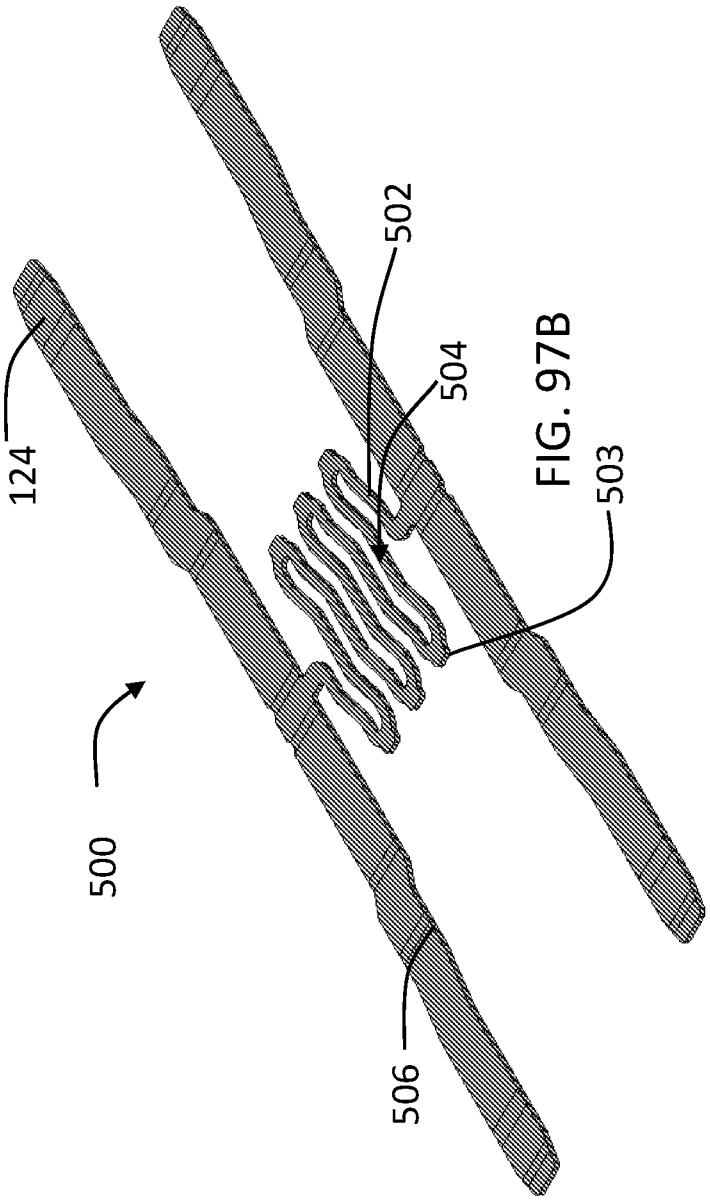


FIG. 97B

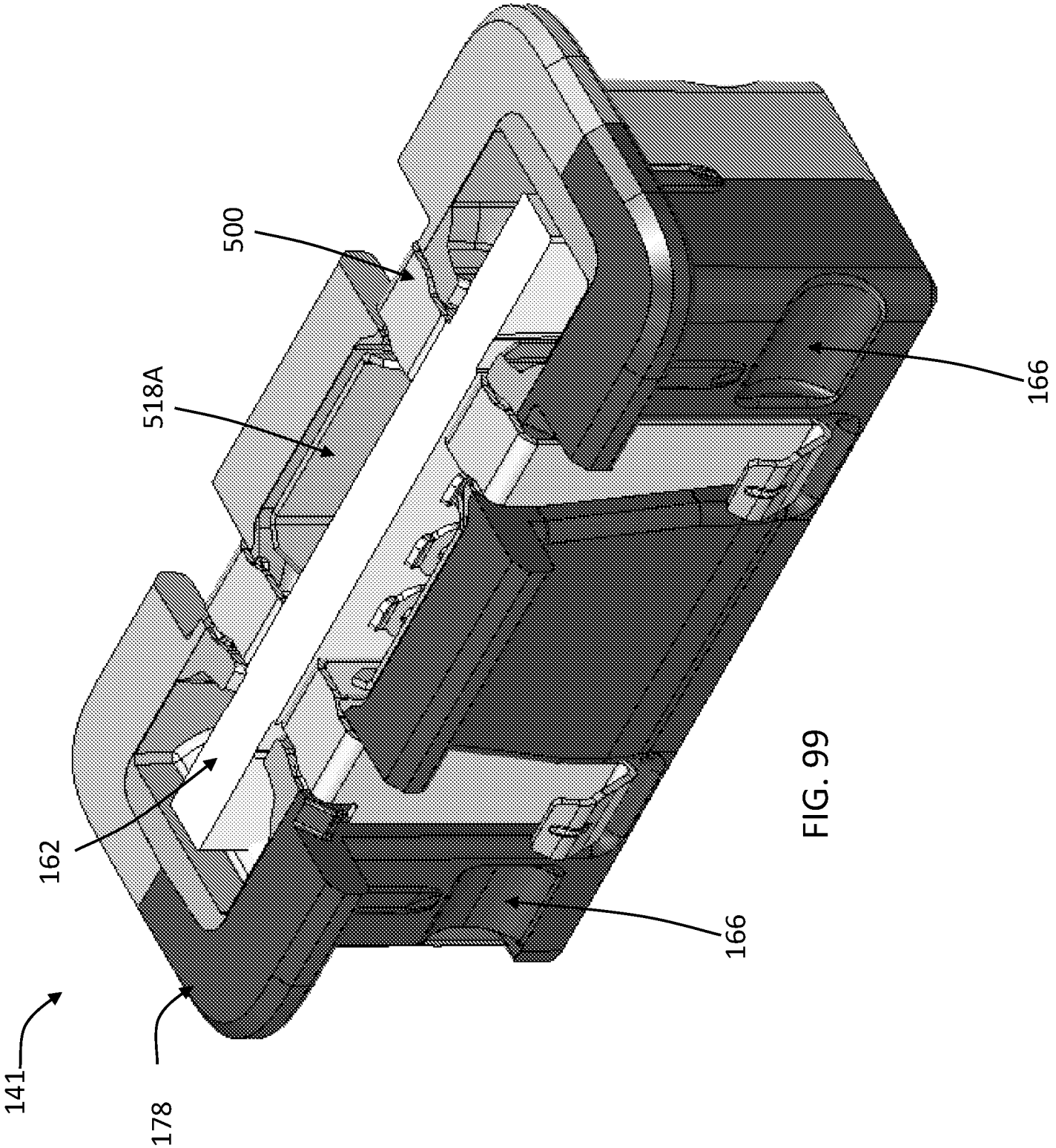


FIG. 99

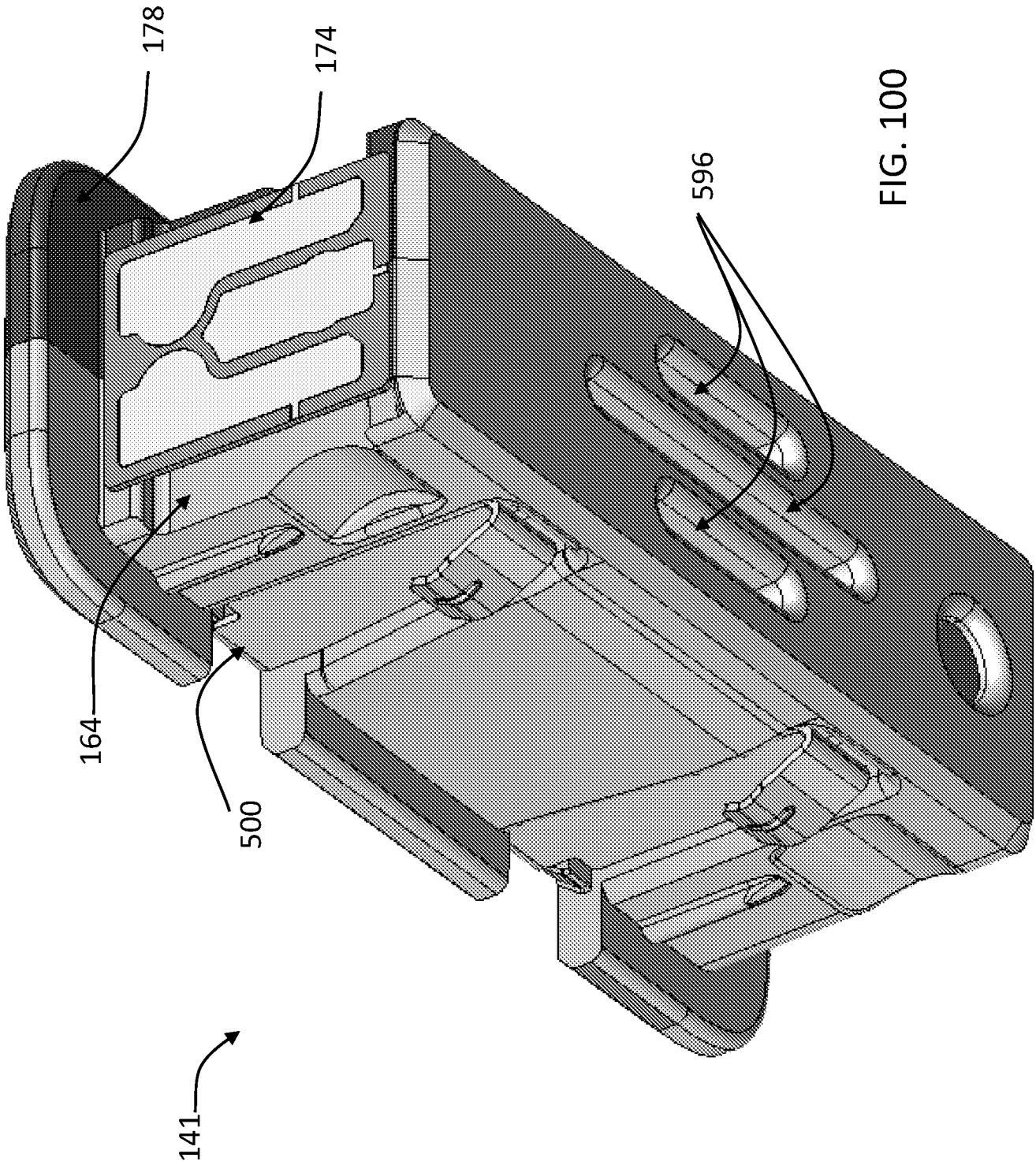


FIG. 100

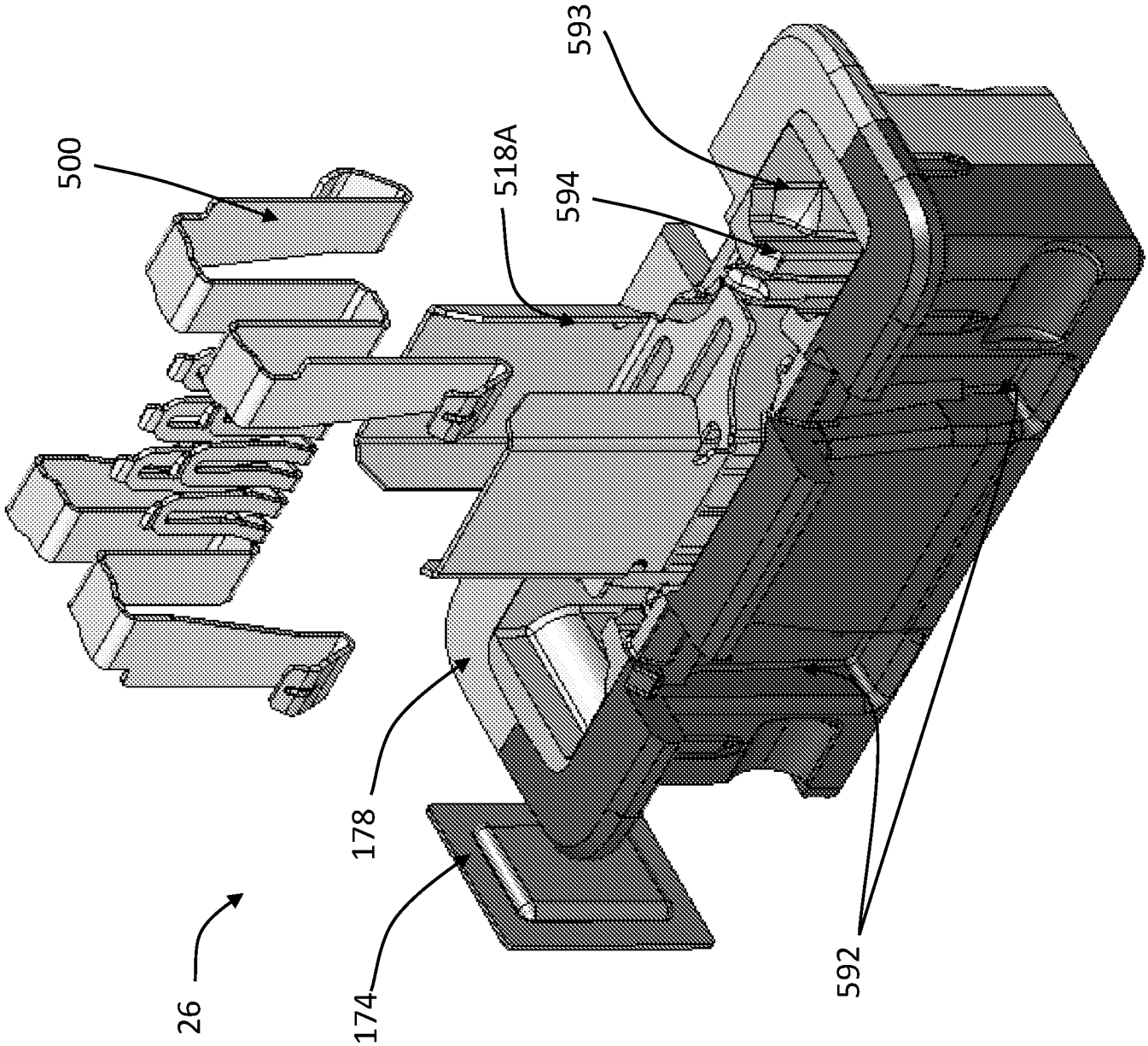


FIG. 101

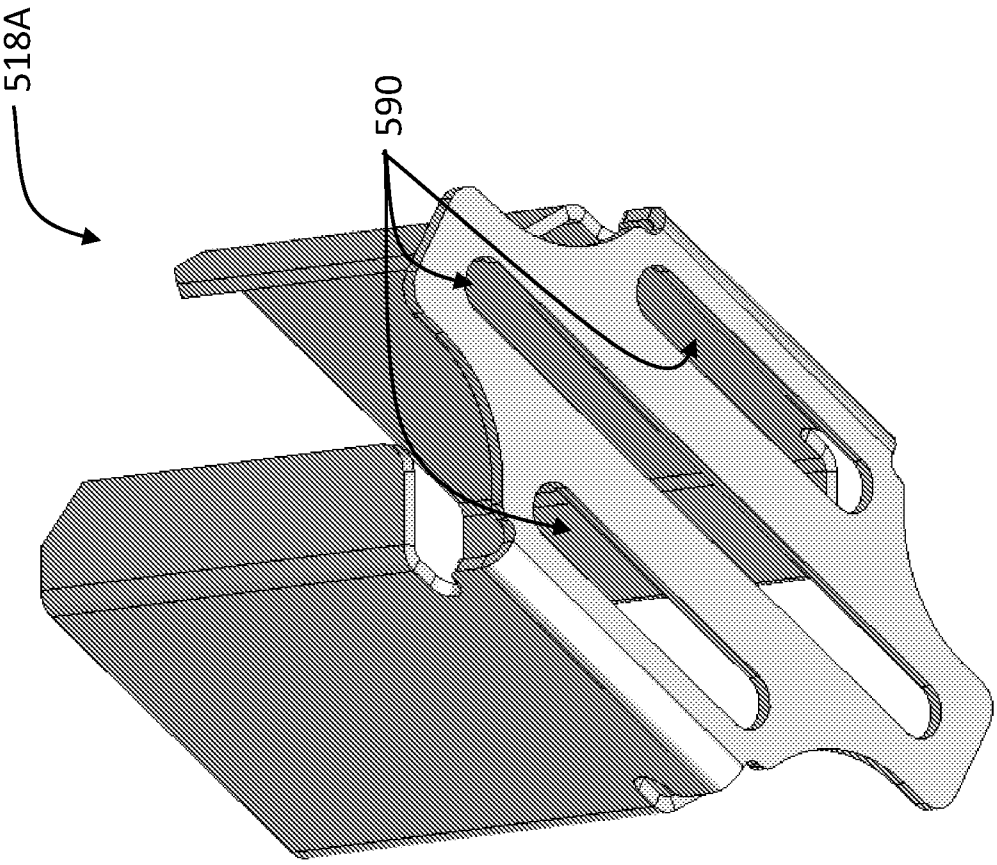


FIG. 102

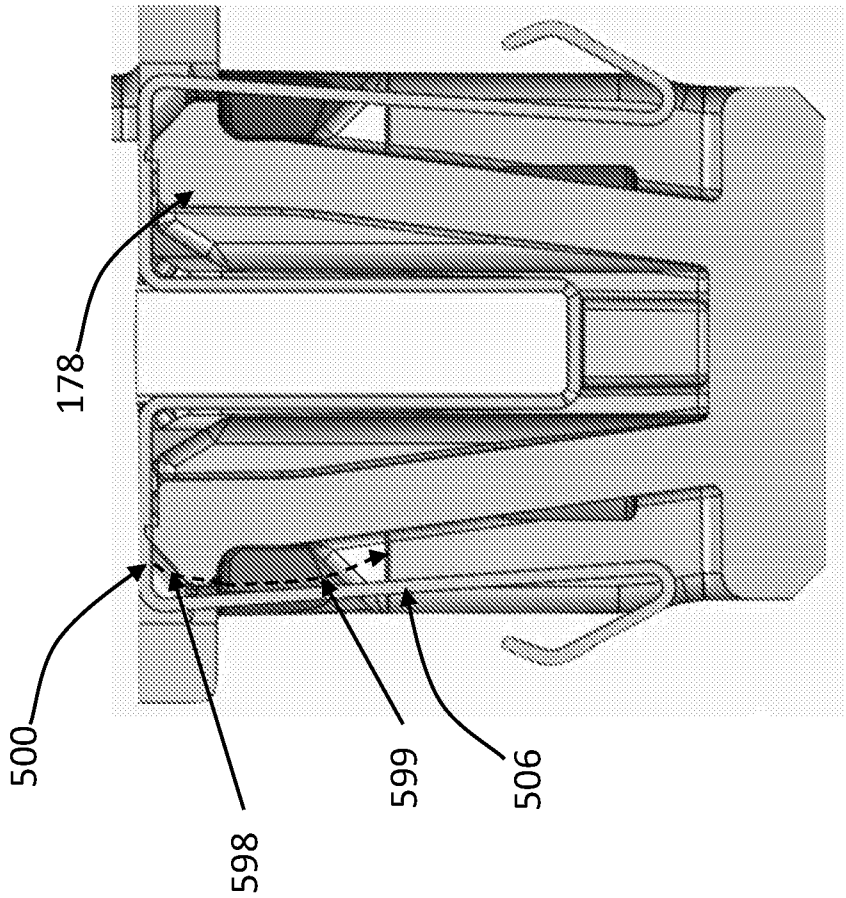


FIG. 103B

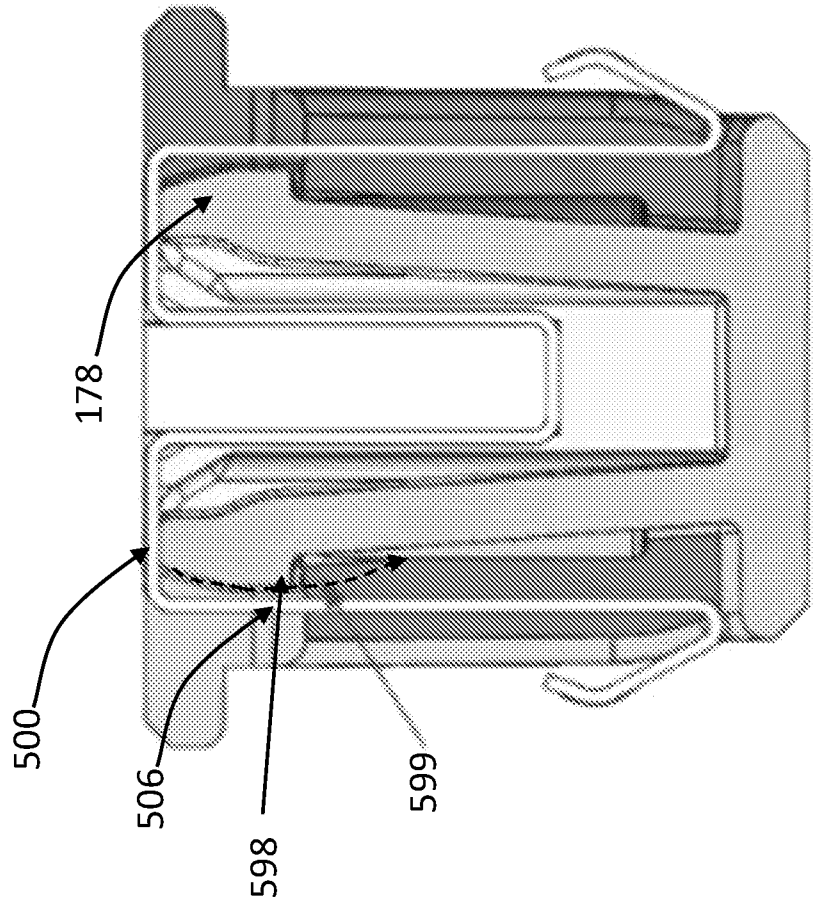


FIG. 103A

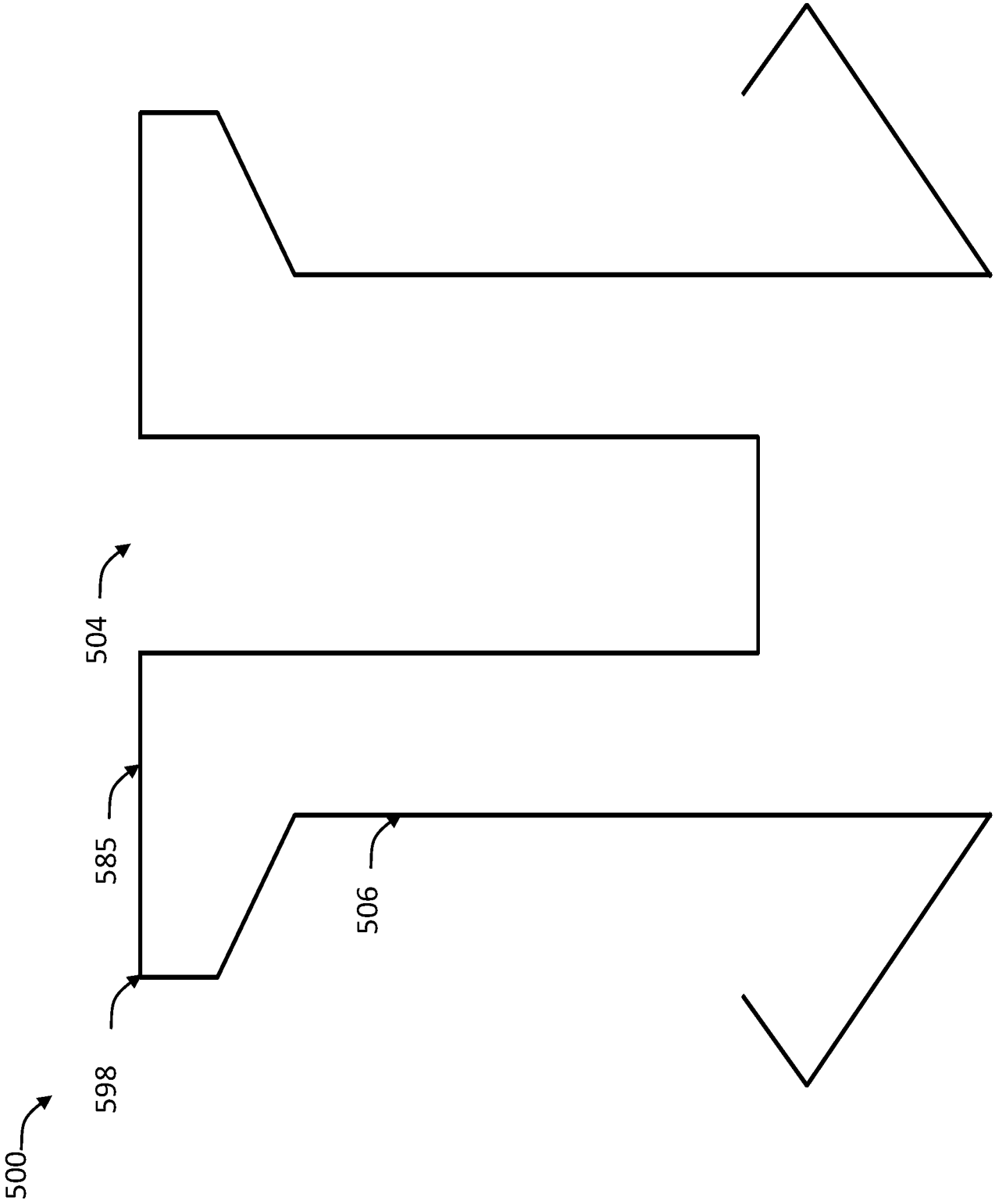


FIG. 104

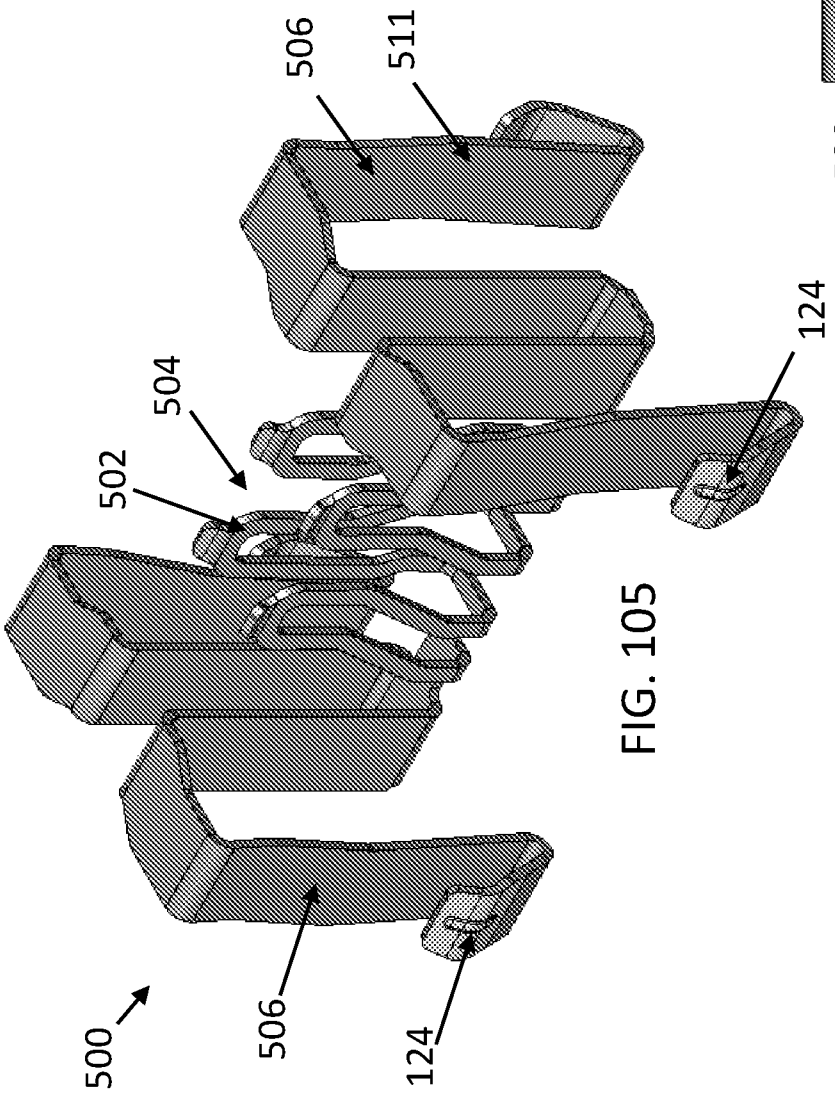


FIG. 105

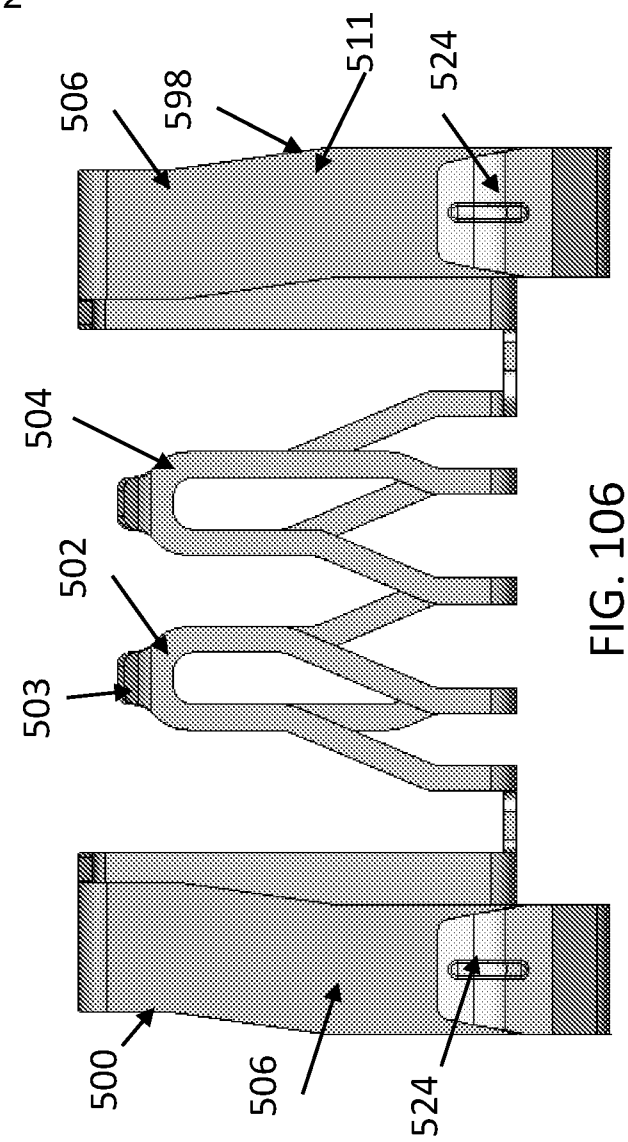


FIG. 106

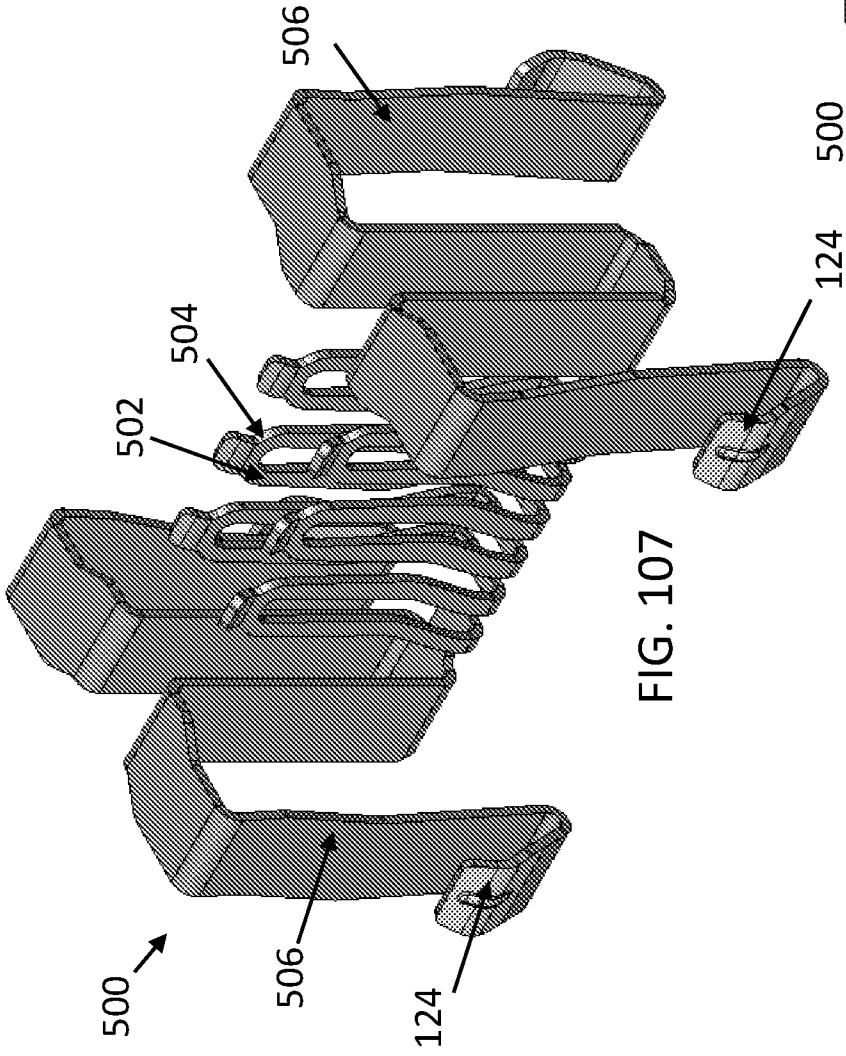


FIG. 107

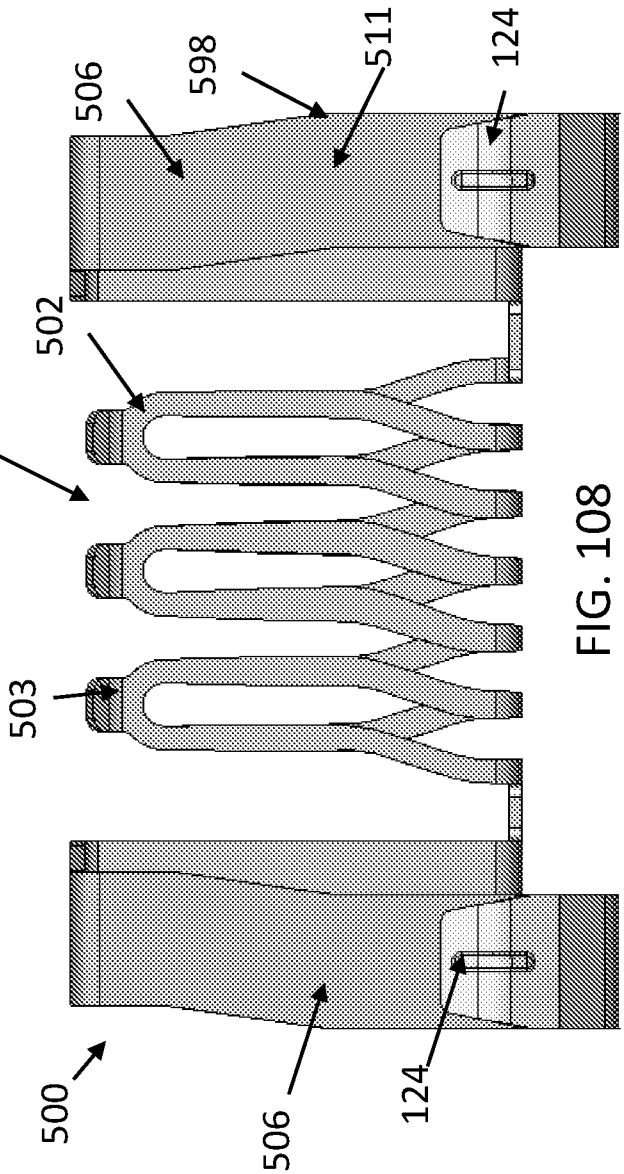


FIG. 108

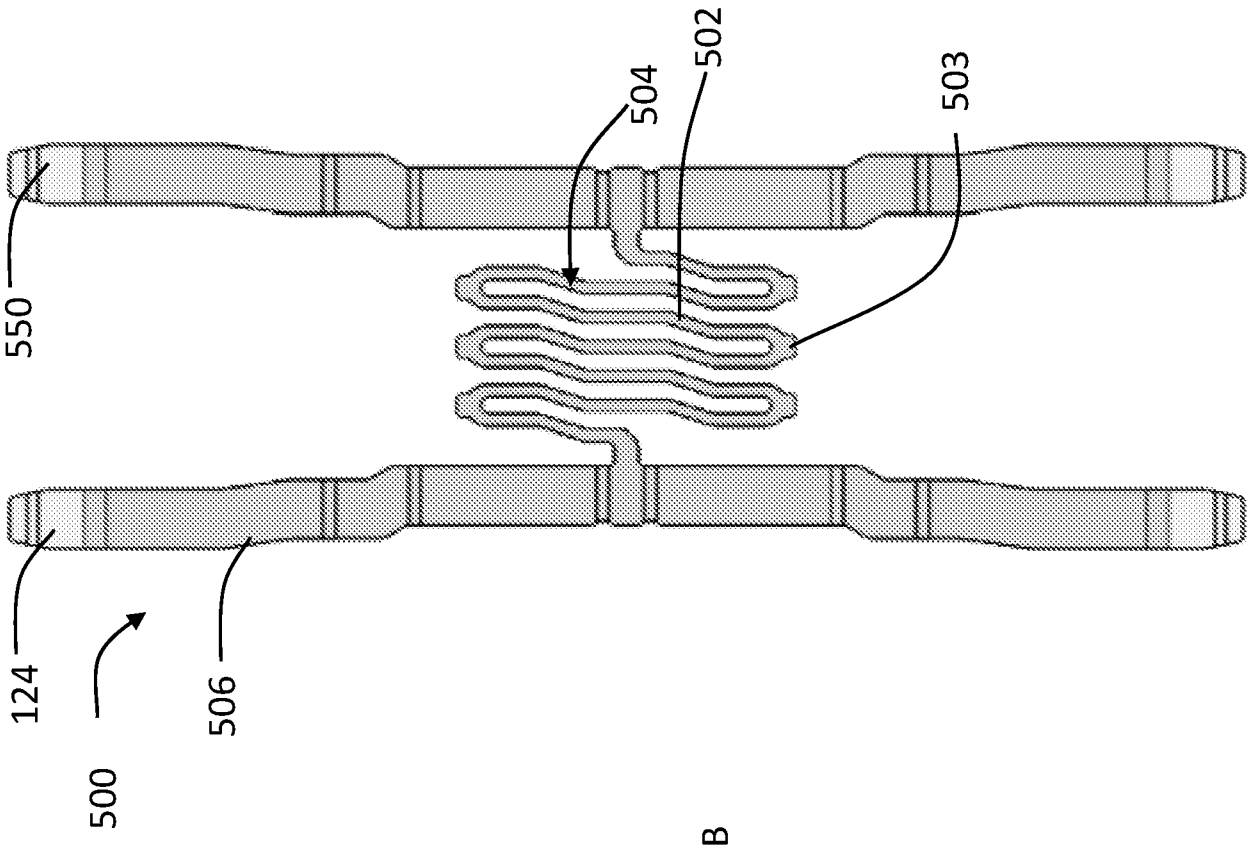


FIG. 110

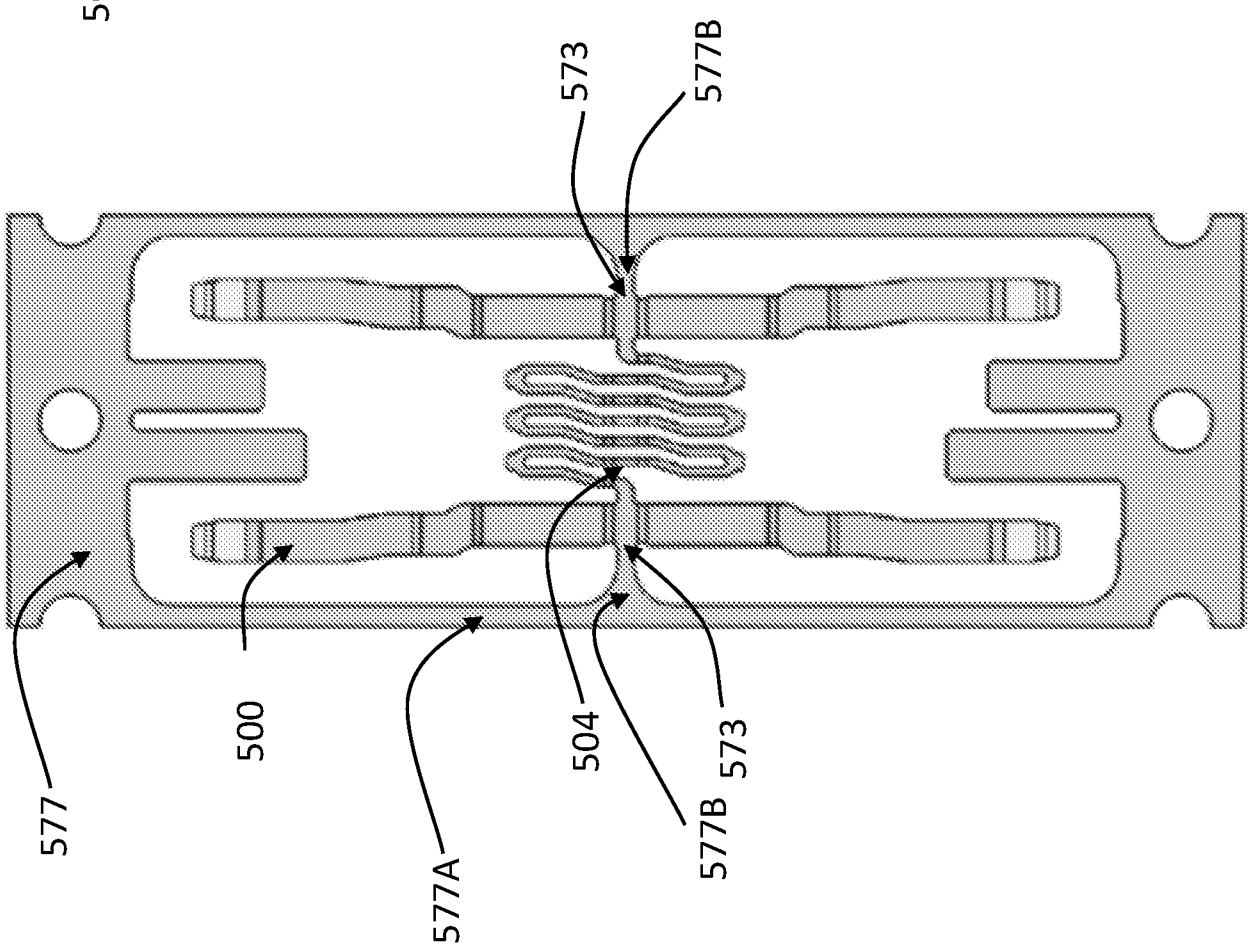


FIG. 109

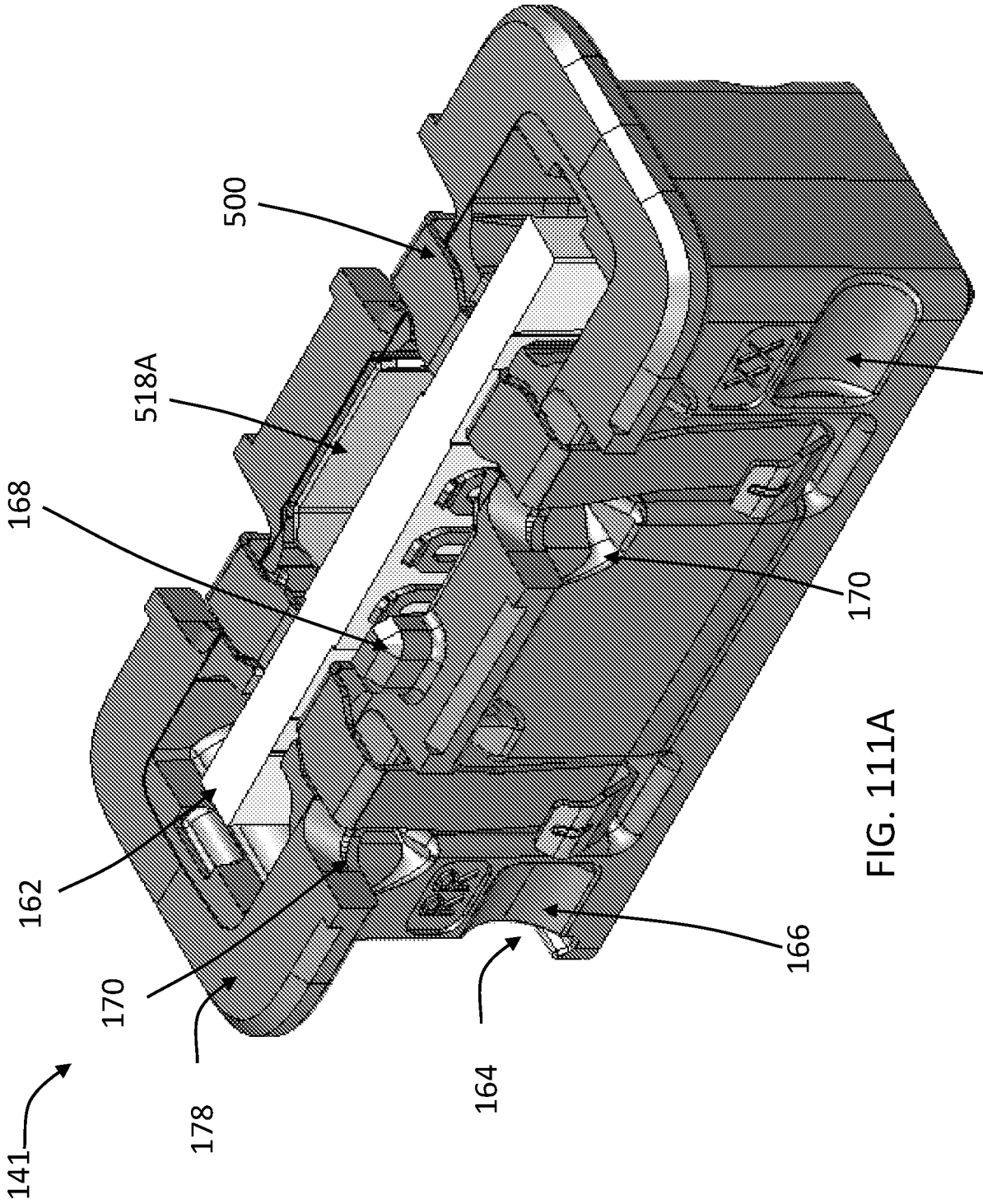


FIG. 111A

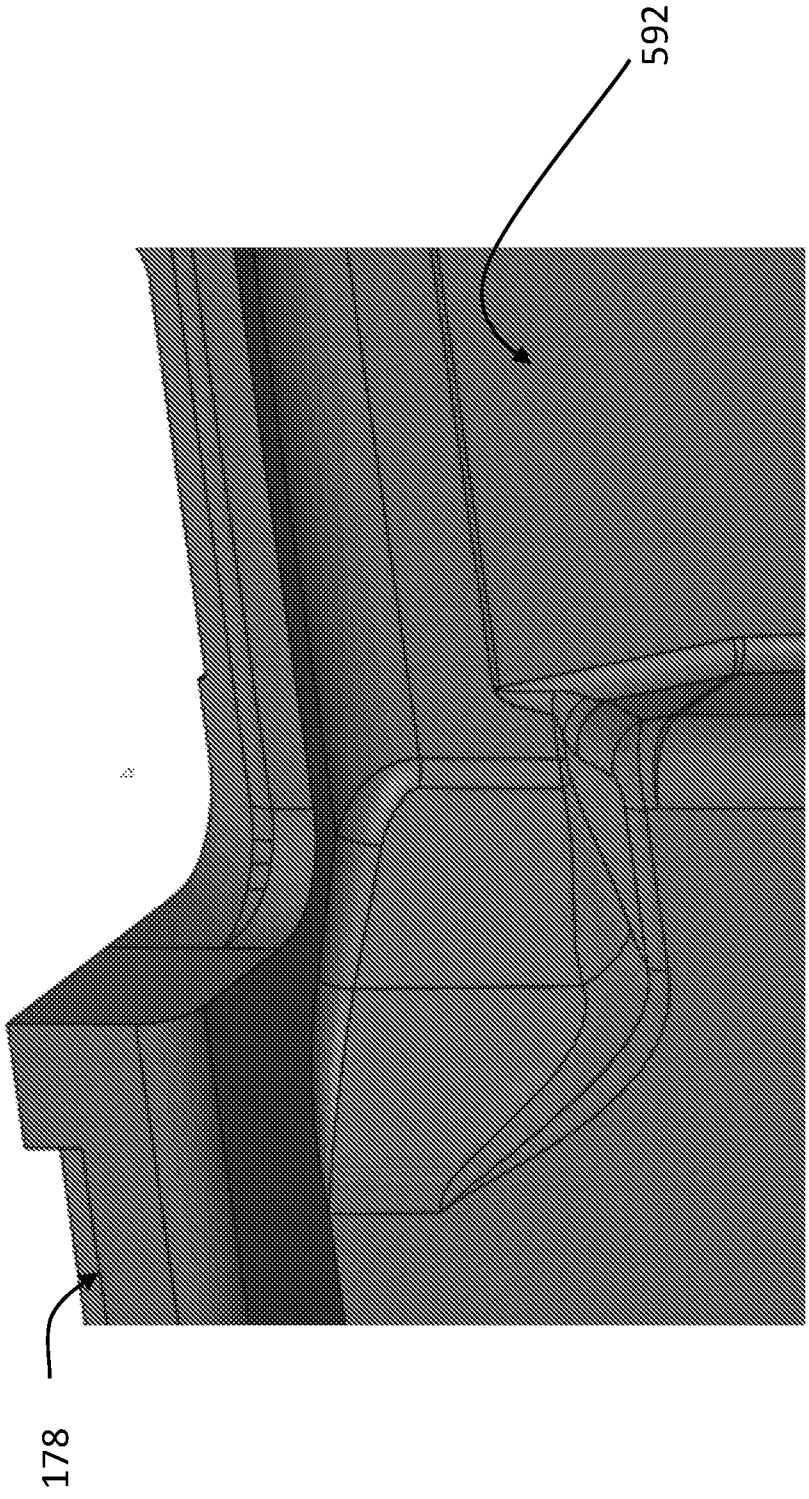


FIG. 111B

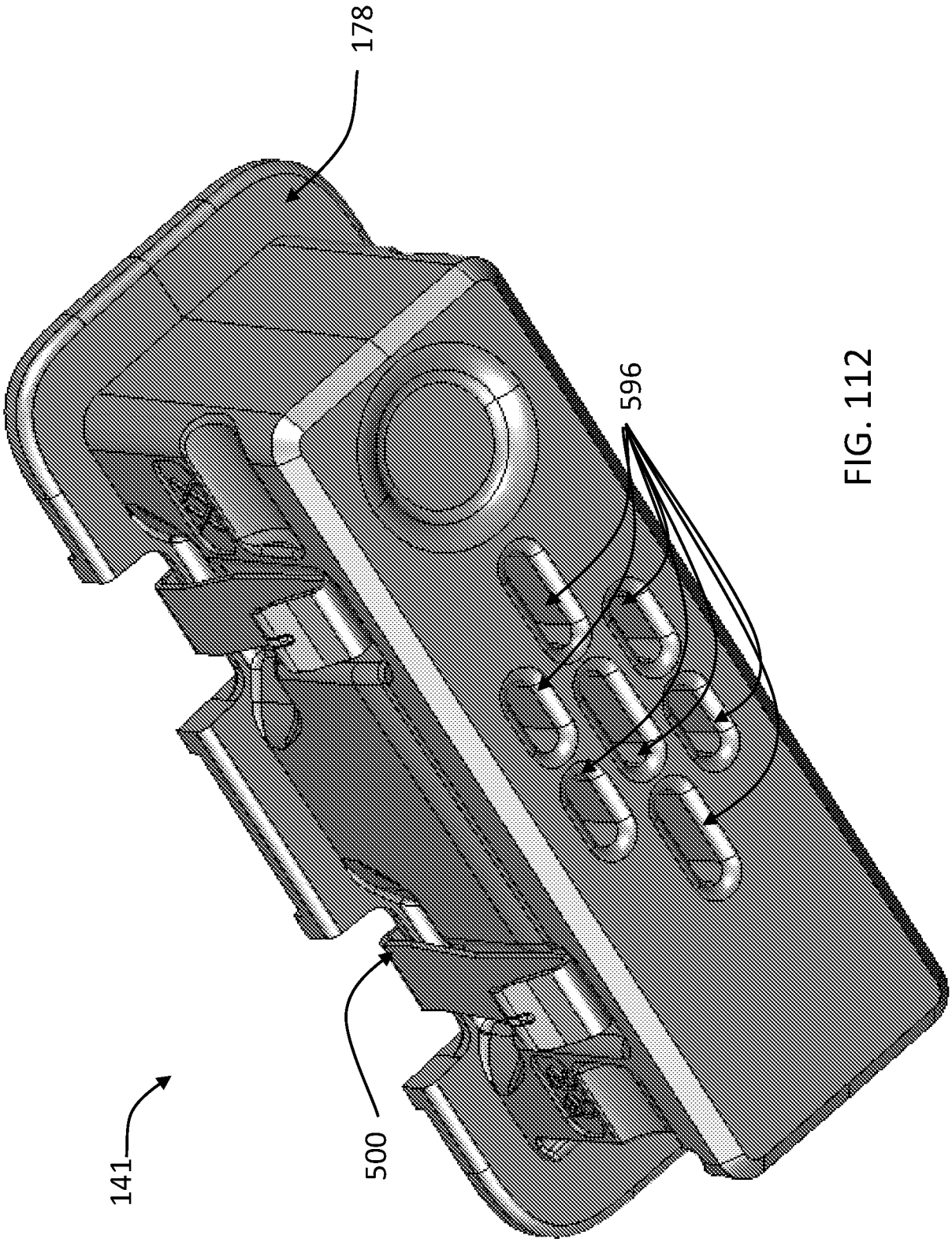


FIG. 112

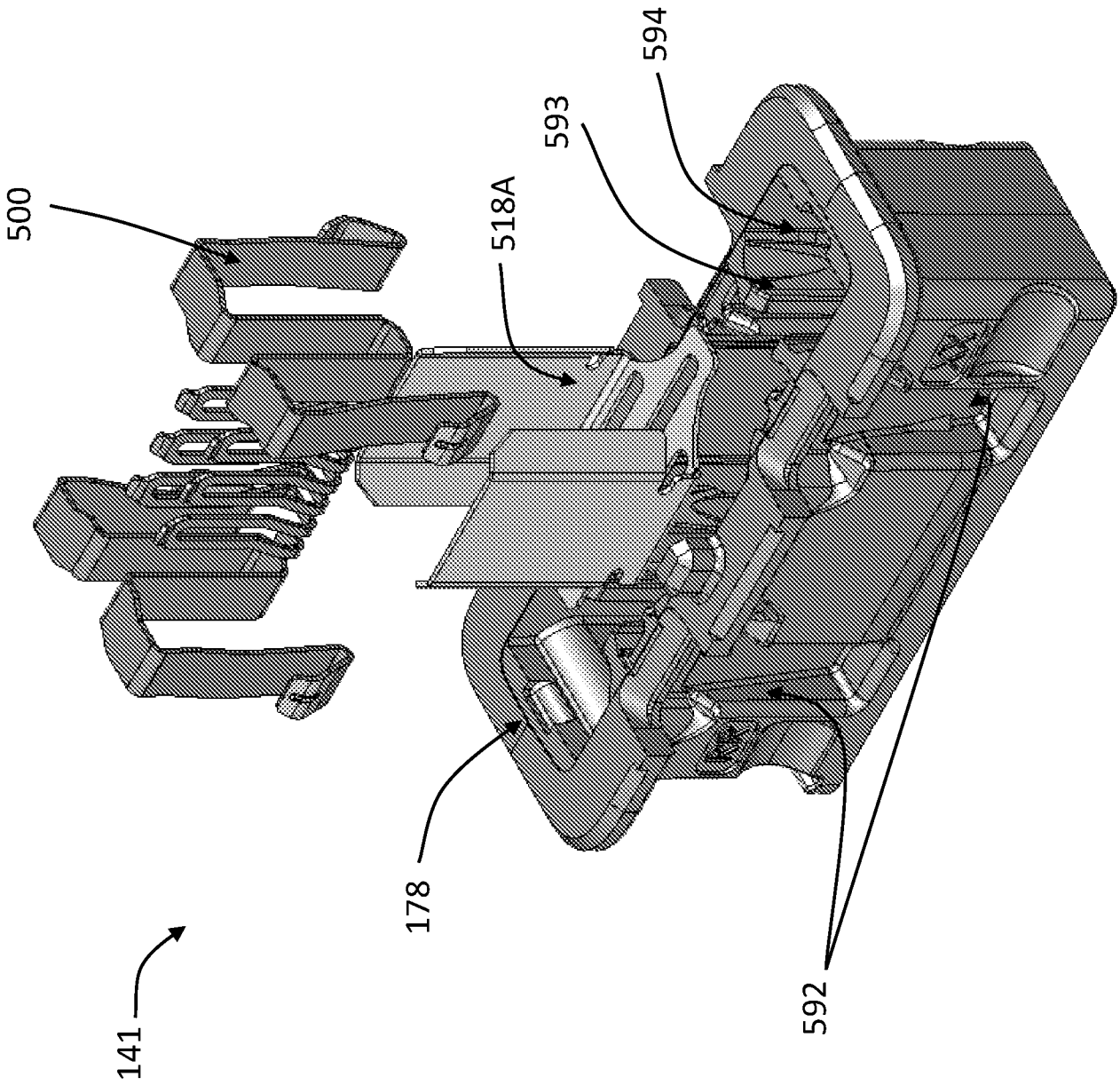


FIG. 113

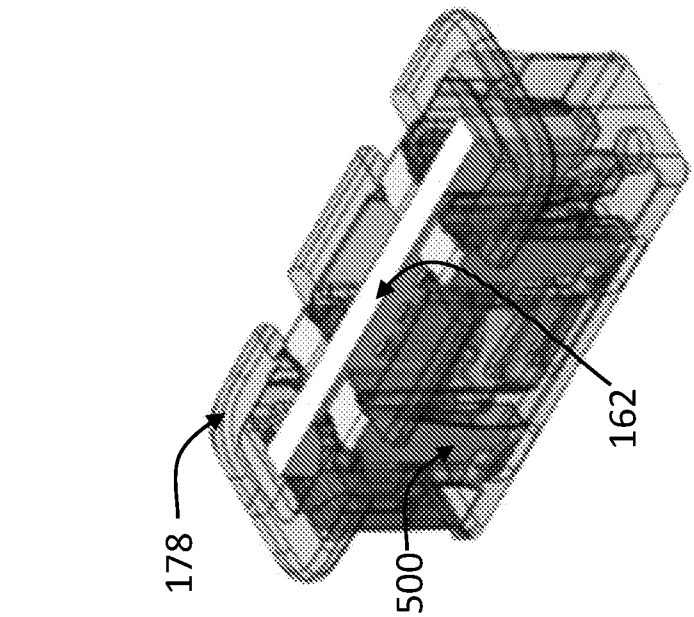


FIG. 114C

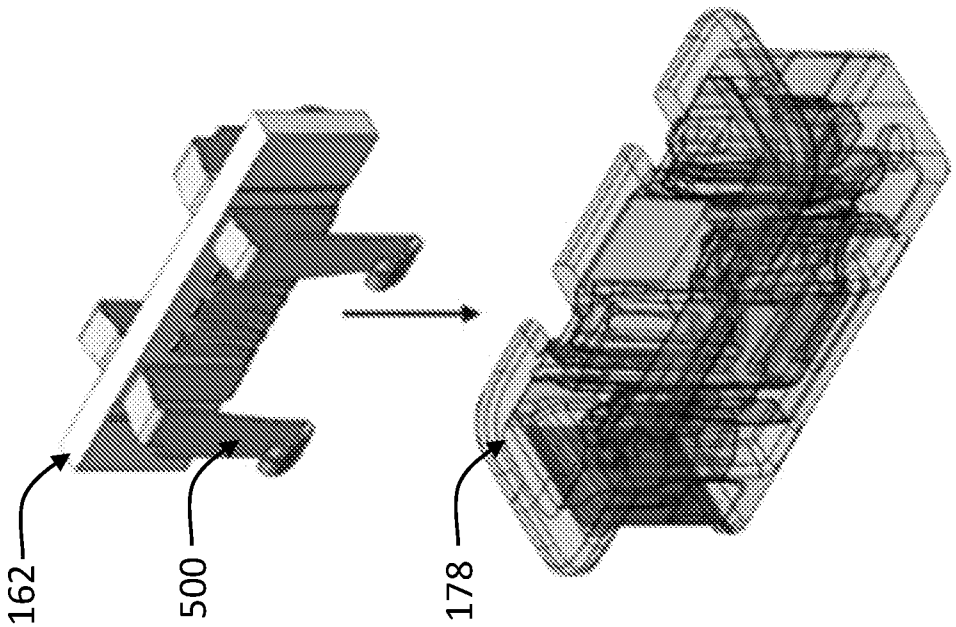


FIG. 114B

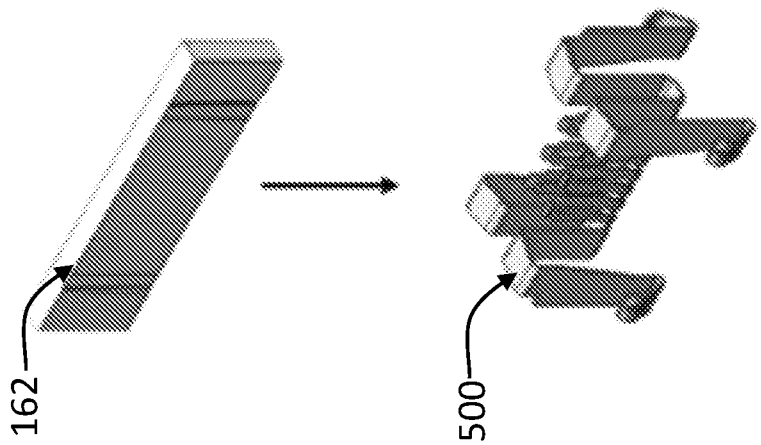


FIG. 114A

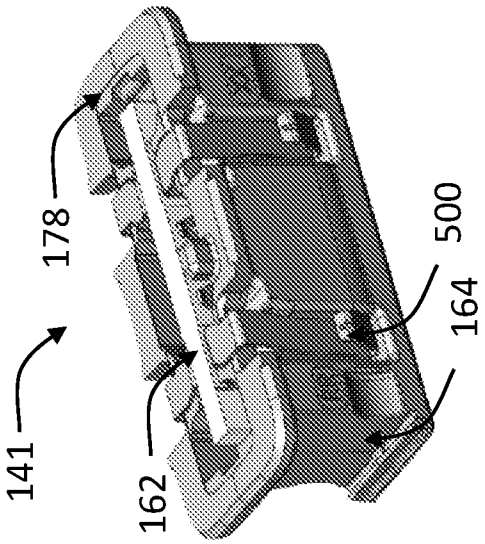


FIG. 115C

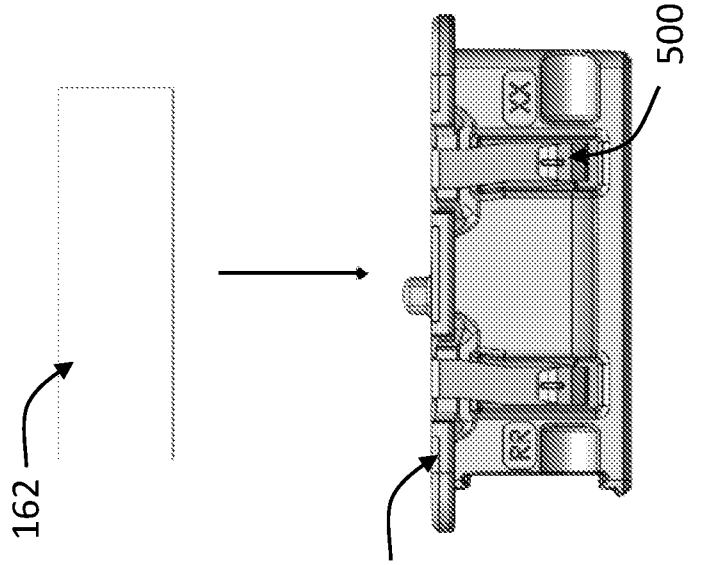


FIG. 115B

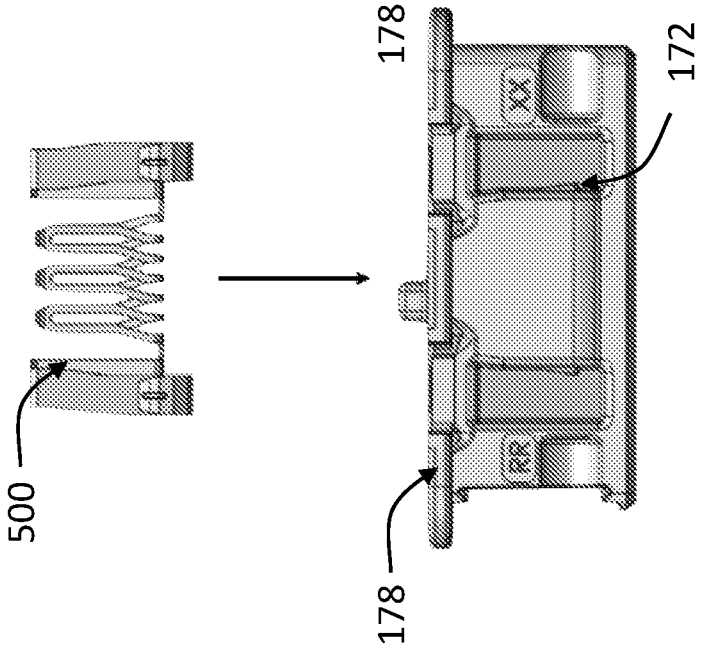


FIG. 115A

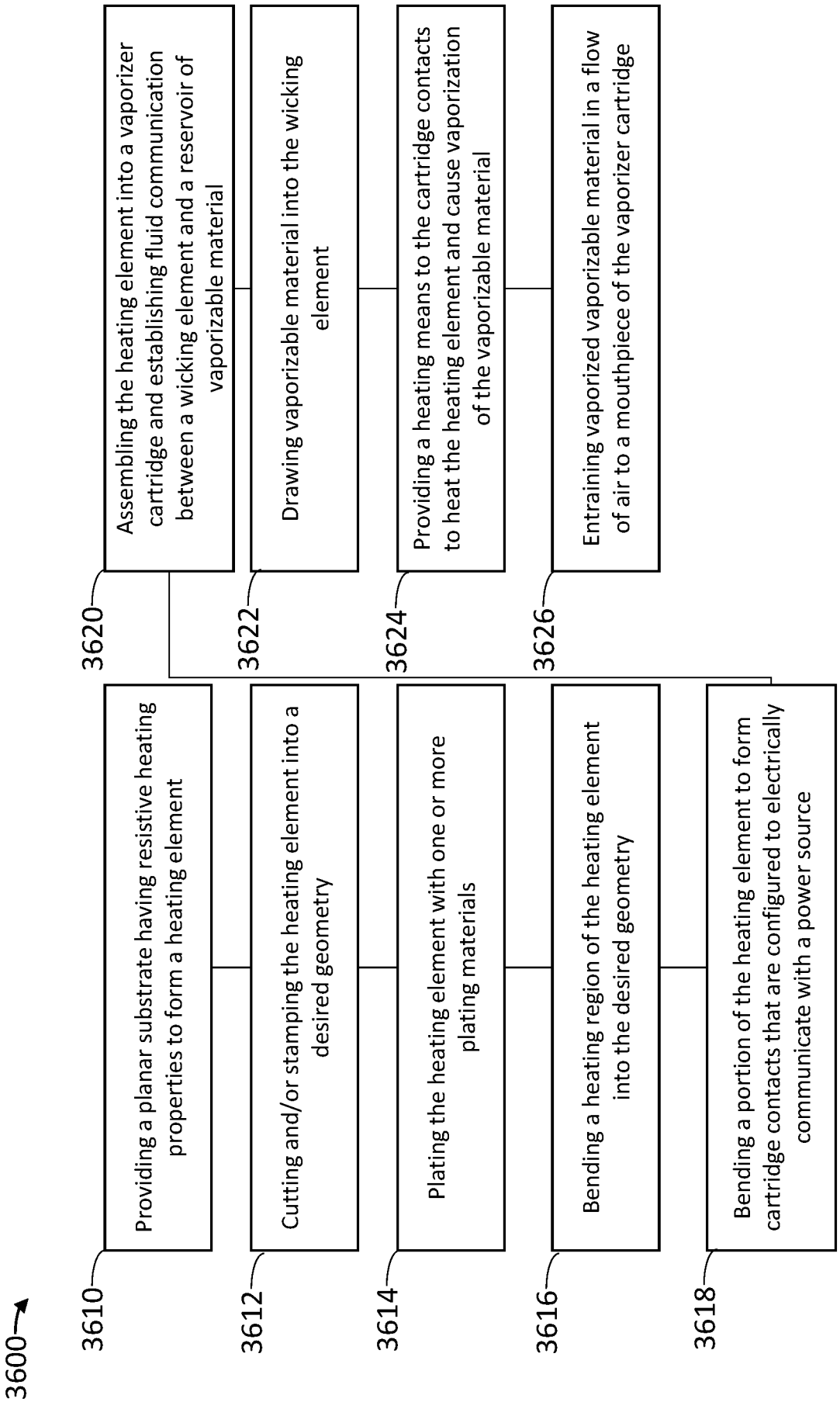

3600
3610
Providing a planar substrate having resistive heating properties to form a heating element
3612
Cutting and/or stamping the heating element into a desired geometry
3614
Plating the heating element with one or more plating materials
3616
Bending a heating region of the heating element into the desired geometry
3618
Bending a portion of the heating element to form cartridge contacts that are configured to electrically communicate with a power source
3620
Assembling the heating element into a vaporizer cartridge and establishing fluid communication between a wicking element and a reservoir of vaporizable material
3622
Drawing vaporizable material into the wicking element
3624
Providing a heating means to the cartridge contacts to heat the heating element and cause vaporization of the vaporizable material
3626
Entraining vaporized vaporizable material in a flow of air to a mouthpiece of the vaporizer cartridge

FIG. 116

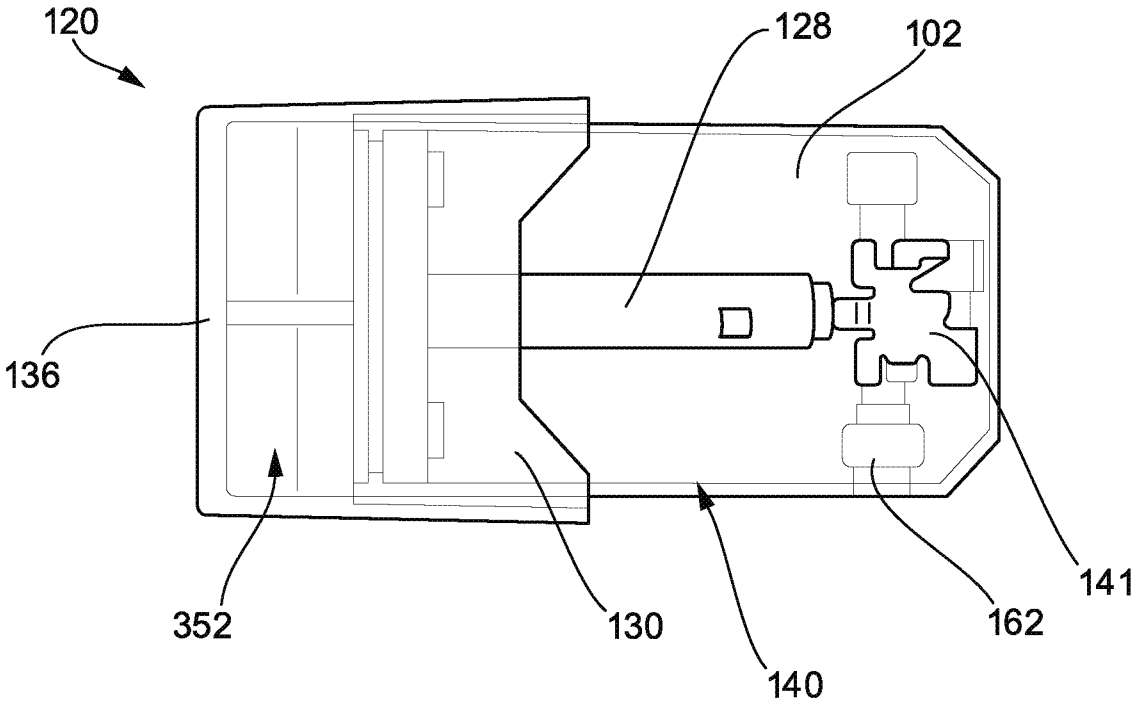


FIG. 117

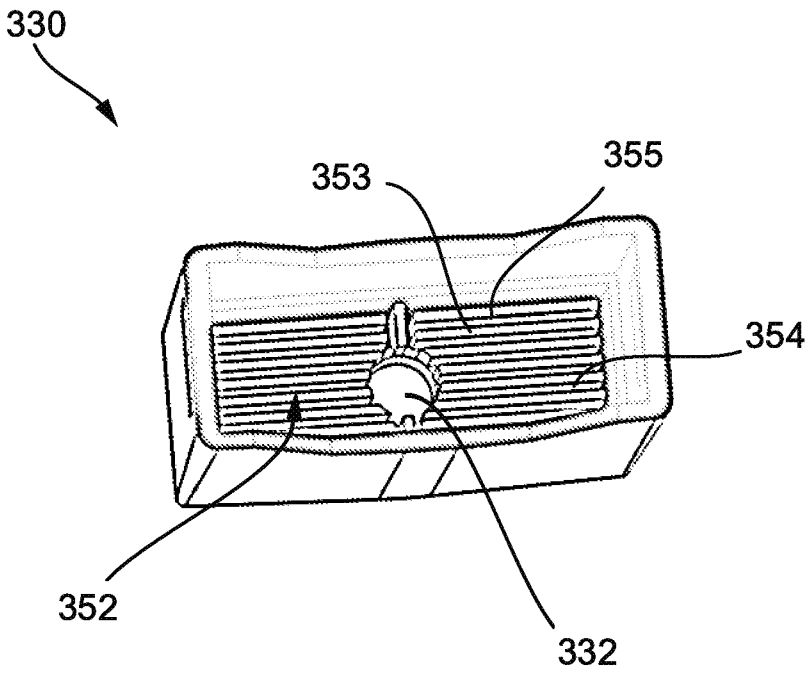


FIG. 118

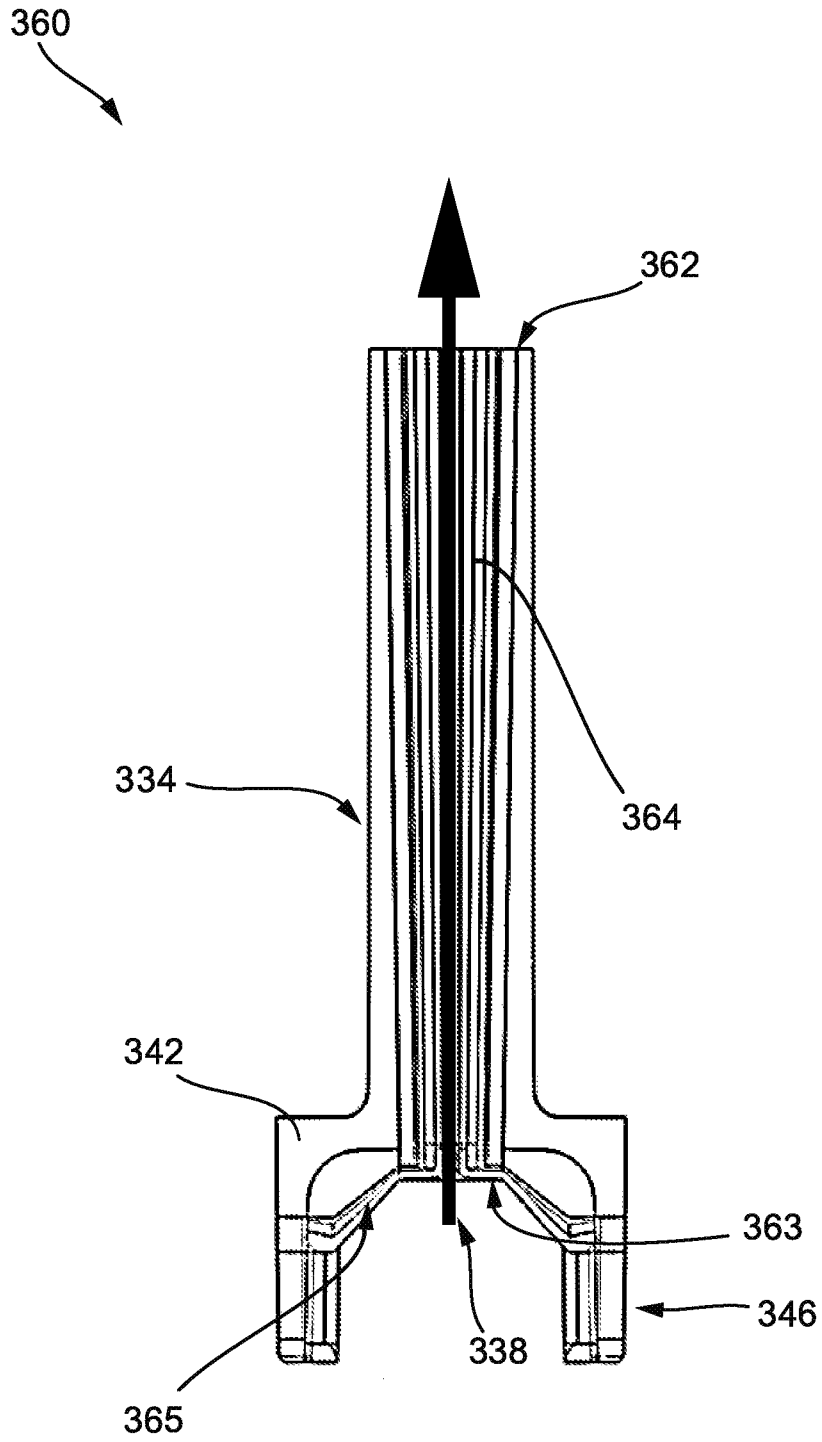


FIG. 119A

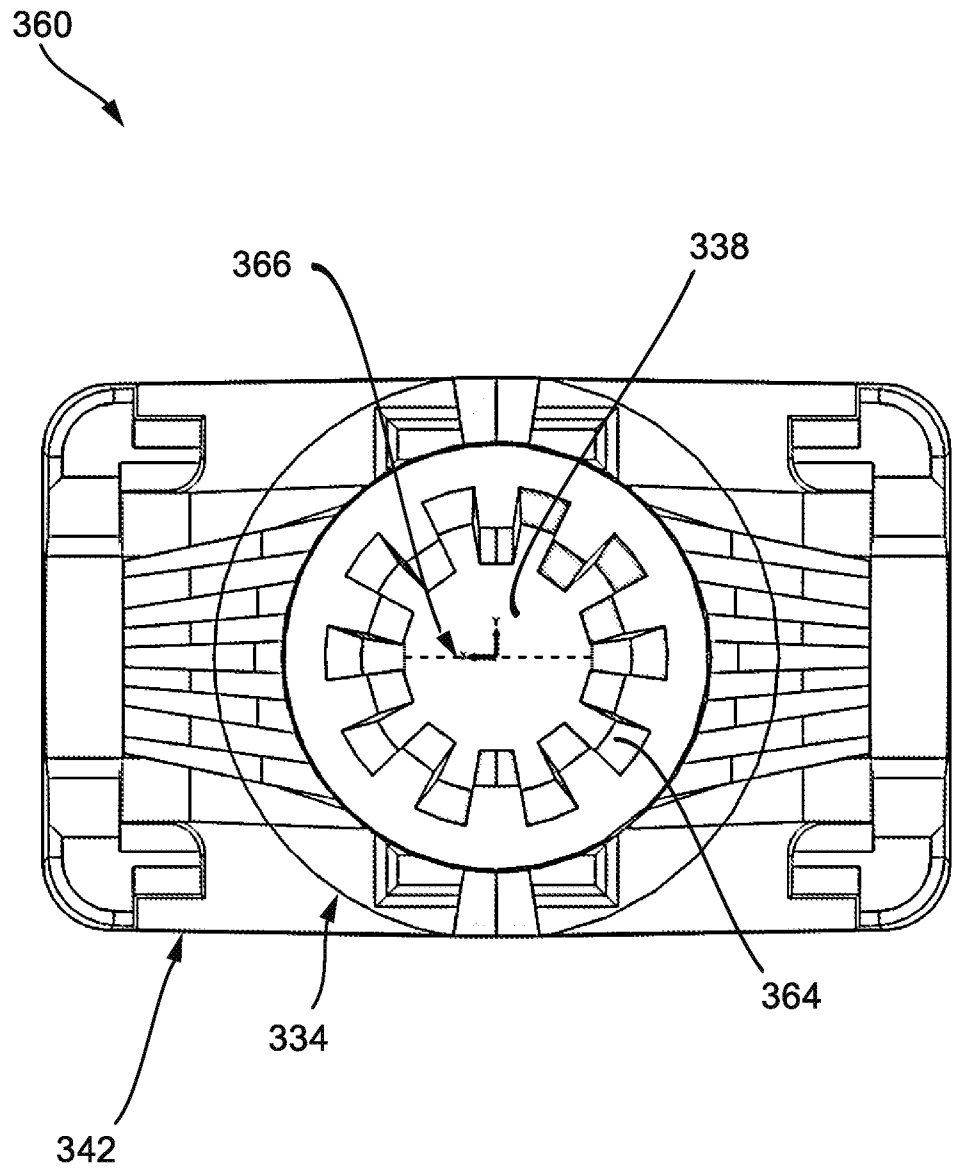


FIG. 119B

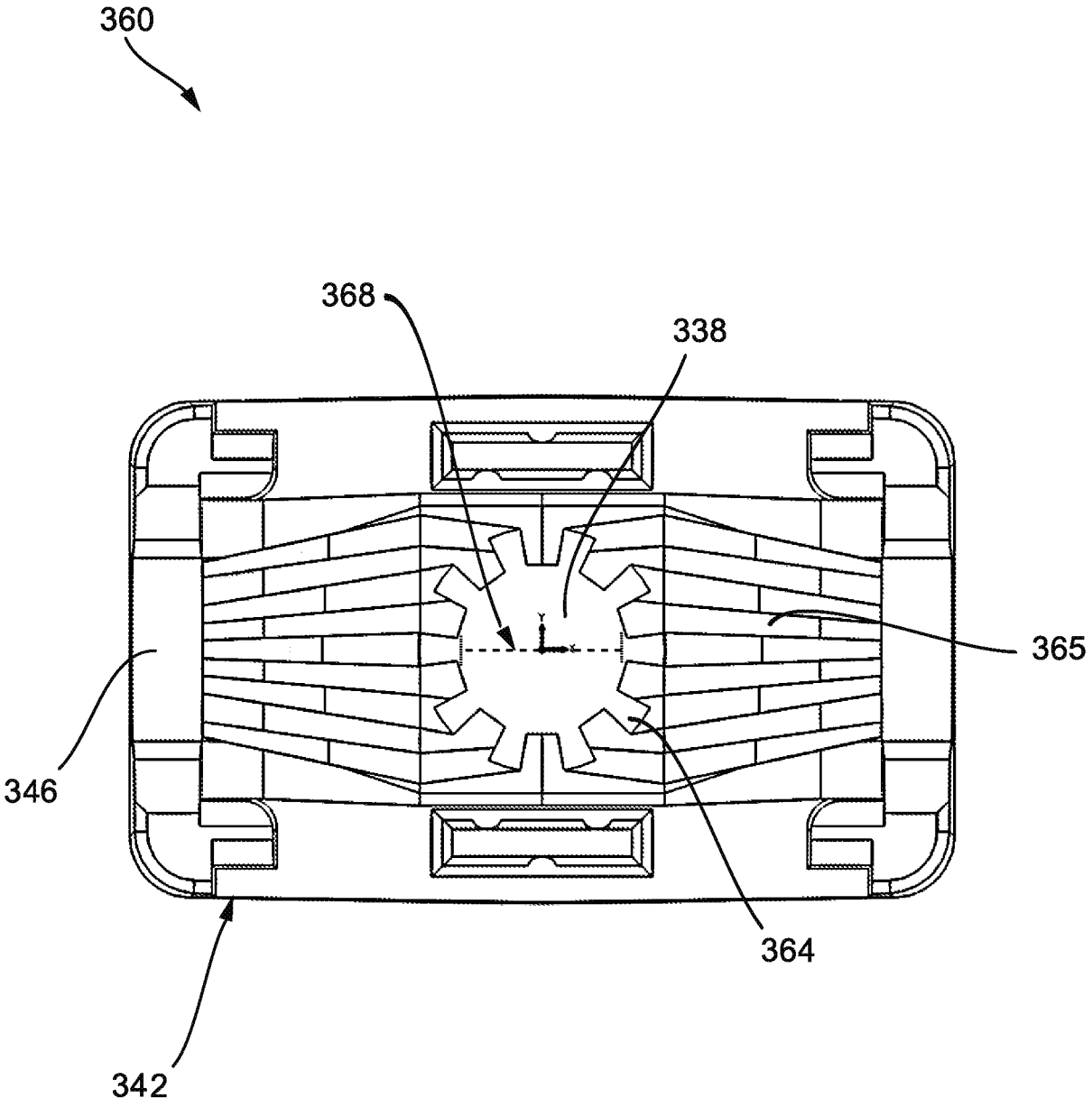


FIG. 119C