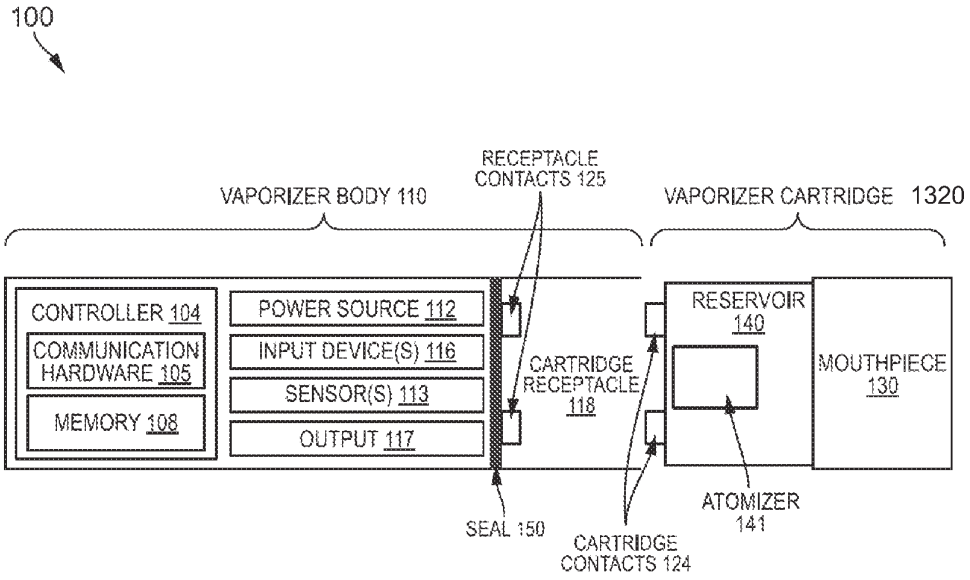

100
RECEPTACLE CONTACTS 125
VAPORIZER BODY 110
VAPORIZER CARTRIDGE 1320
CONTROLLER 104
COMMUNICATION HARDWARE 105
MEMORY 108
POWER SOURCE 112
INPUT DEVICE(S) 116
SENSOR(S) 113
OUTPUT 117
CARTRIDGE RECEPTACLE 118
RESERVOIR 140
MOUTHPIECE 130
ATOMIZER 141
SEAL 150
CARTRIDGE CONTACTS 124

FIG. 1

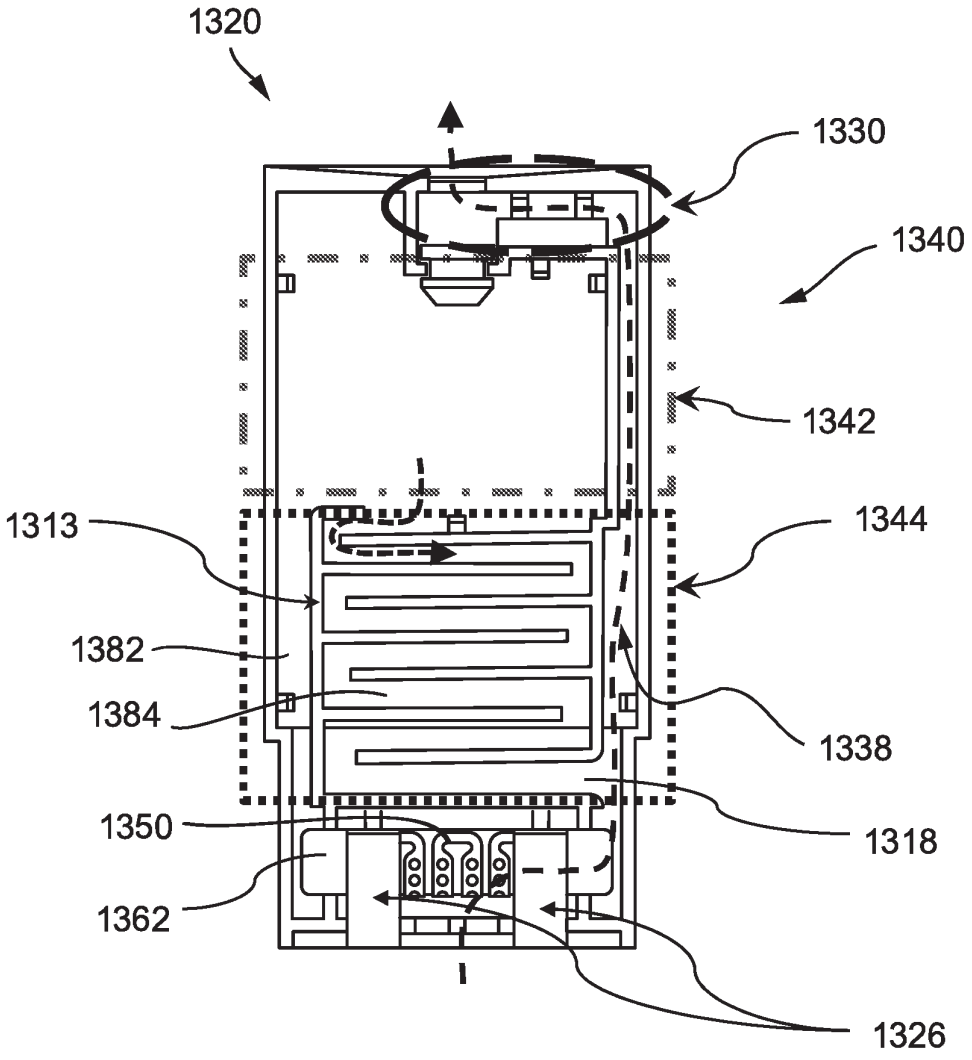

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FIG. 2A

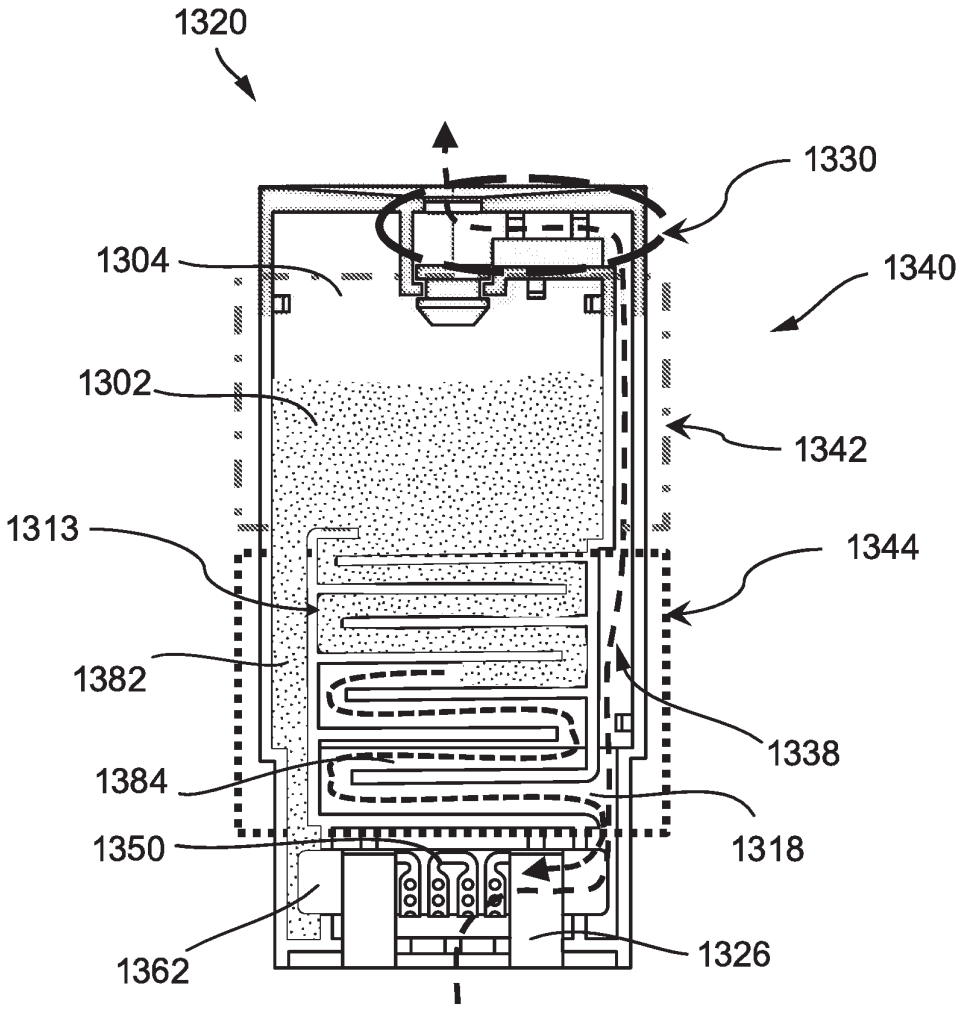

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FIG. 2B

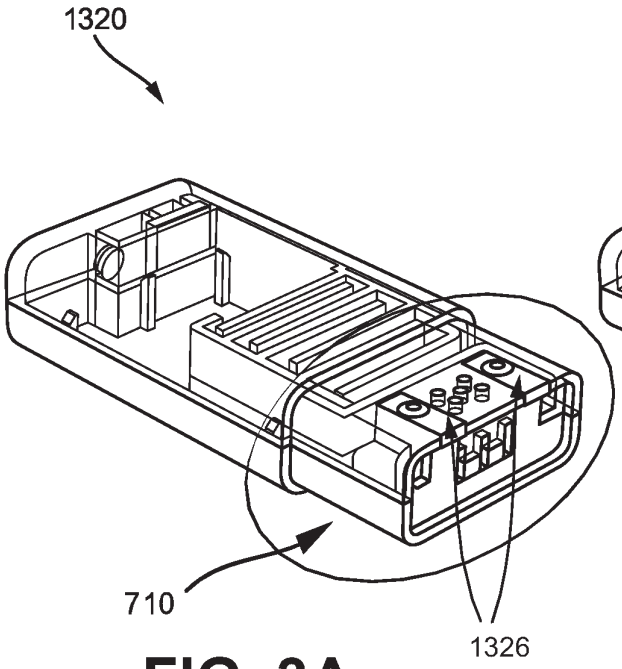


FIG. 3A

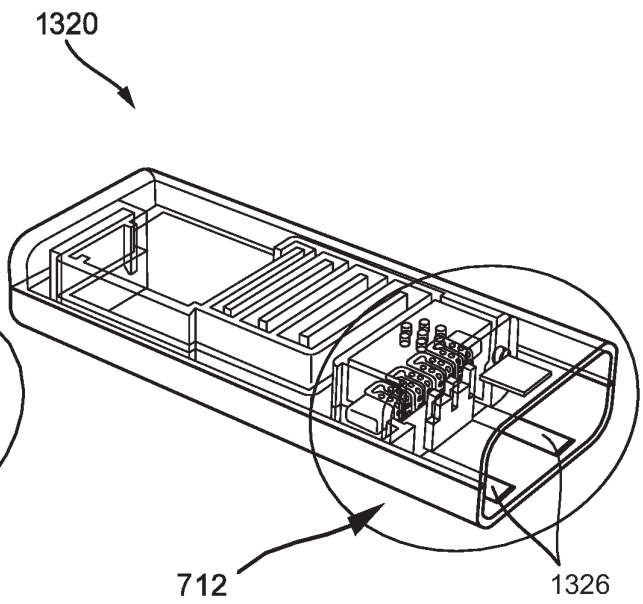


FIG. 3B

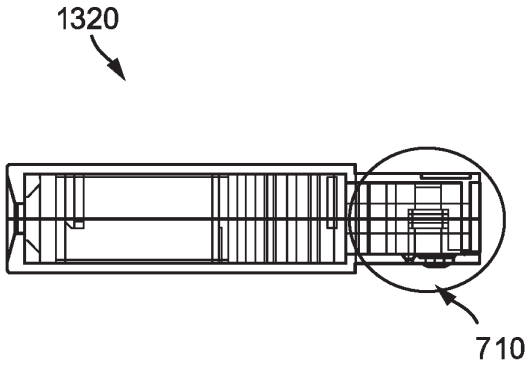


FIG. 3C

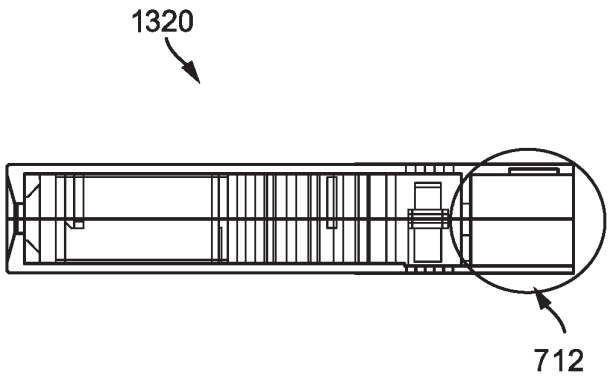


FIG. 3D

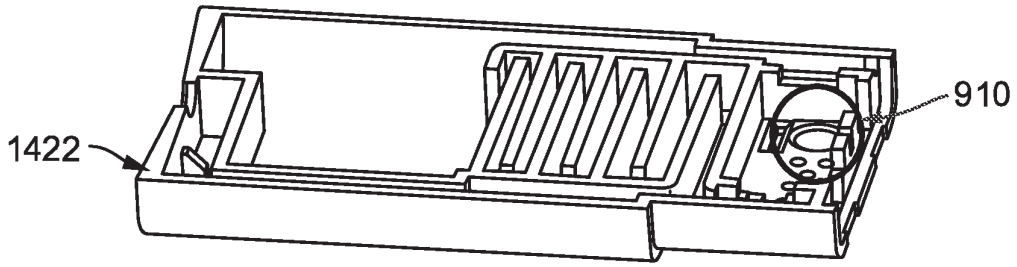


FIG. 3E

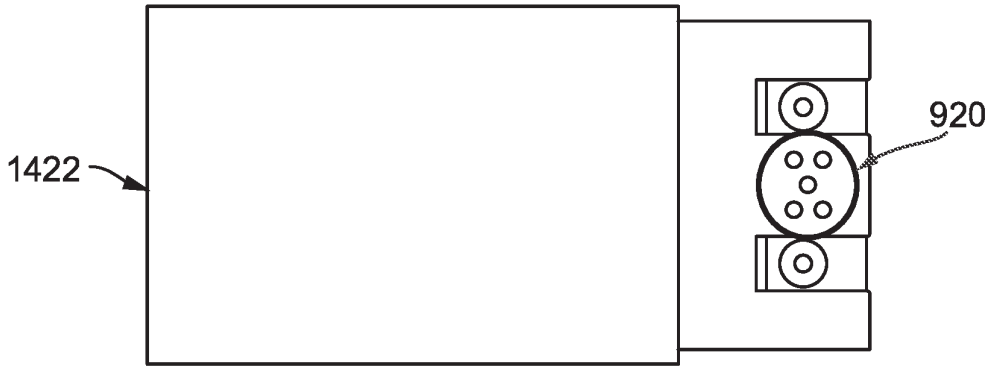


FIG. 3F

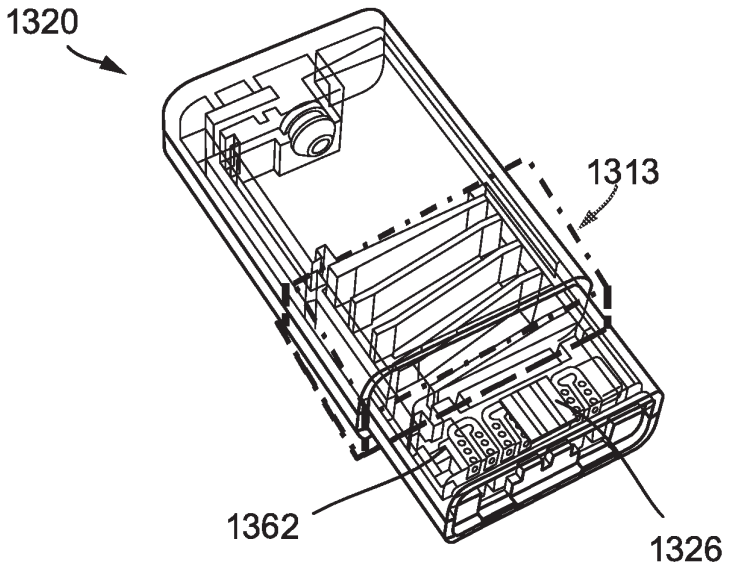


FIG. 4A

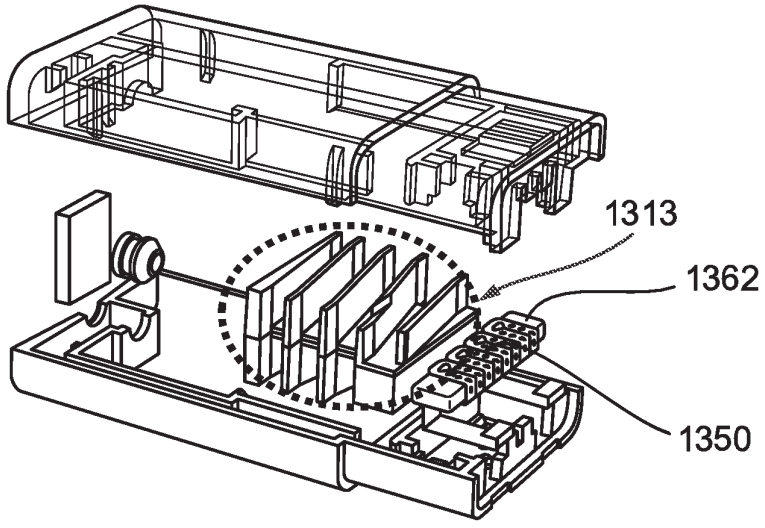


FIG. 4B

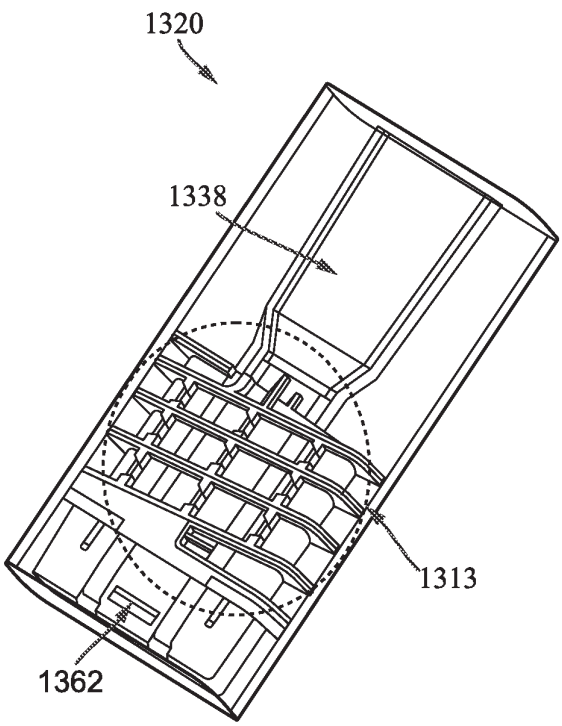


FIG. 4C

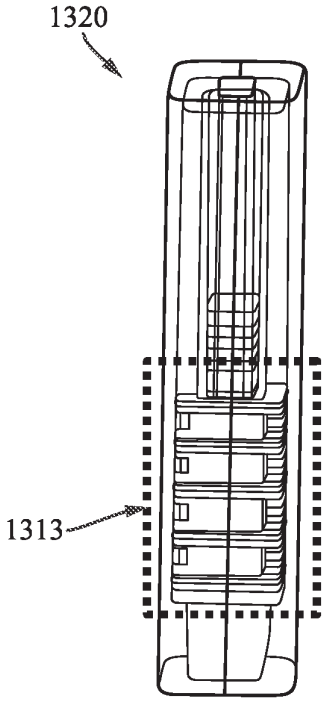


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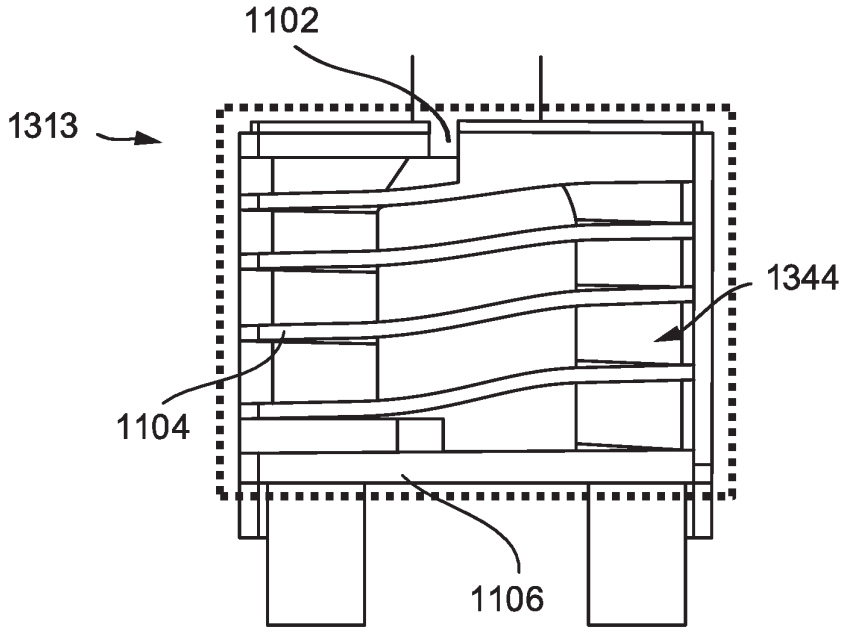


FIG. 5A

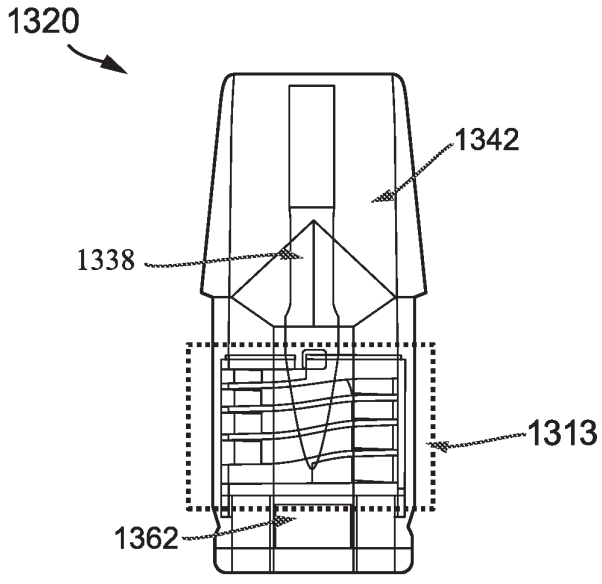


FIG. 5B

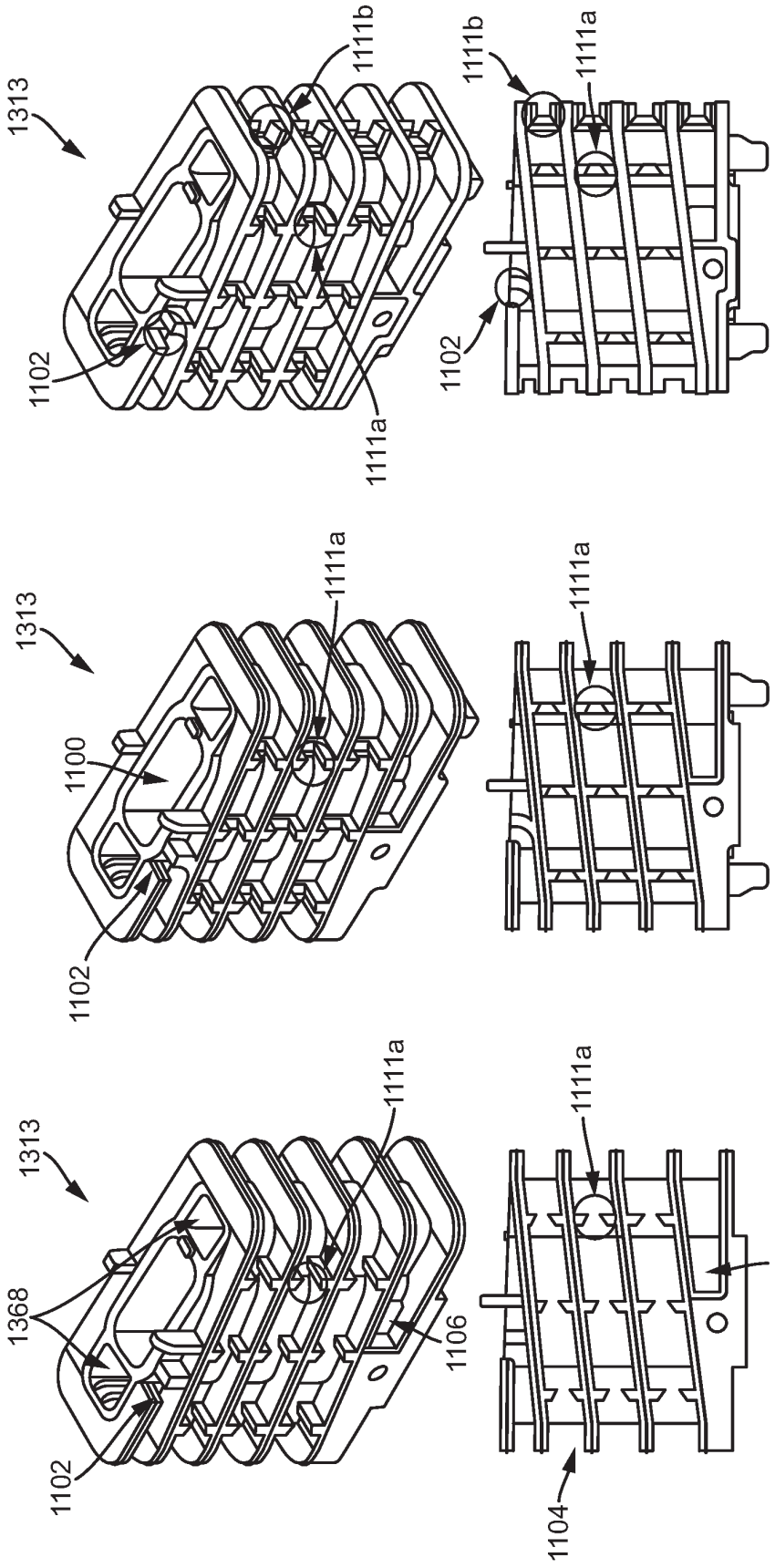


FIG. 5E

FIG. 5D

FIG. 5C

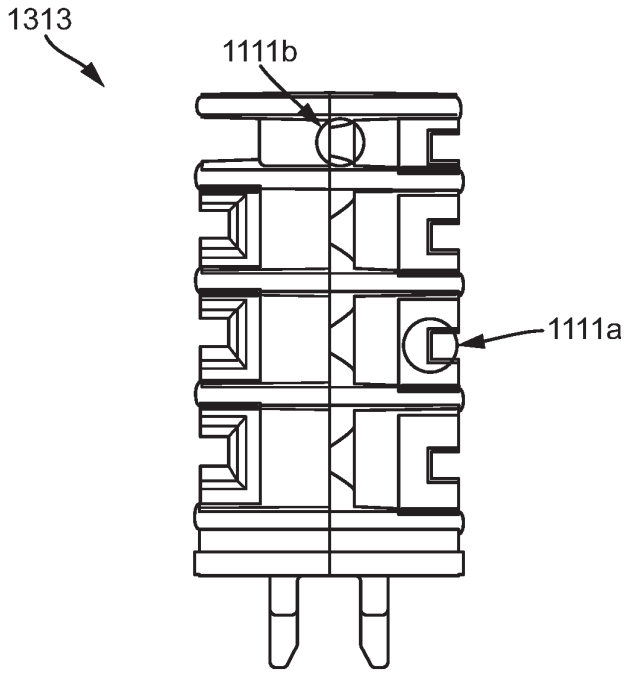


FIG. 5F

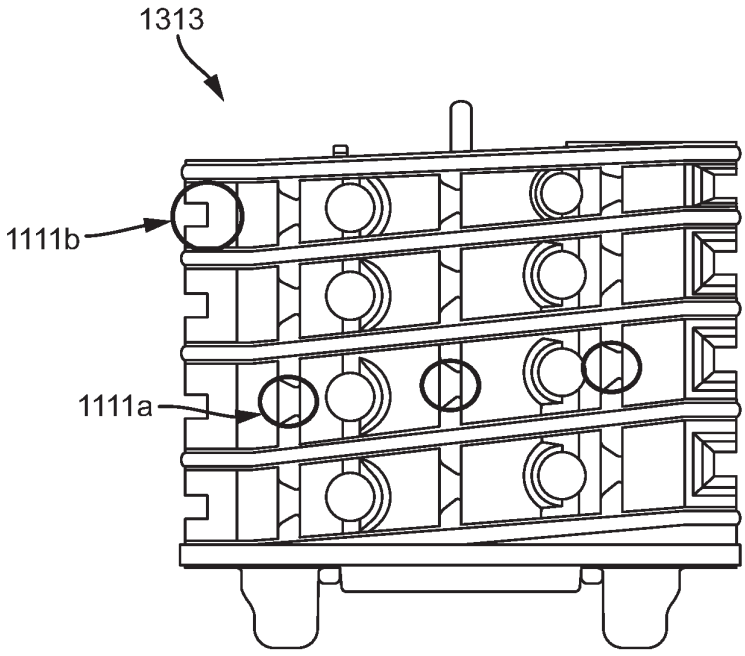


FIG. 5G

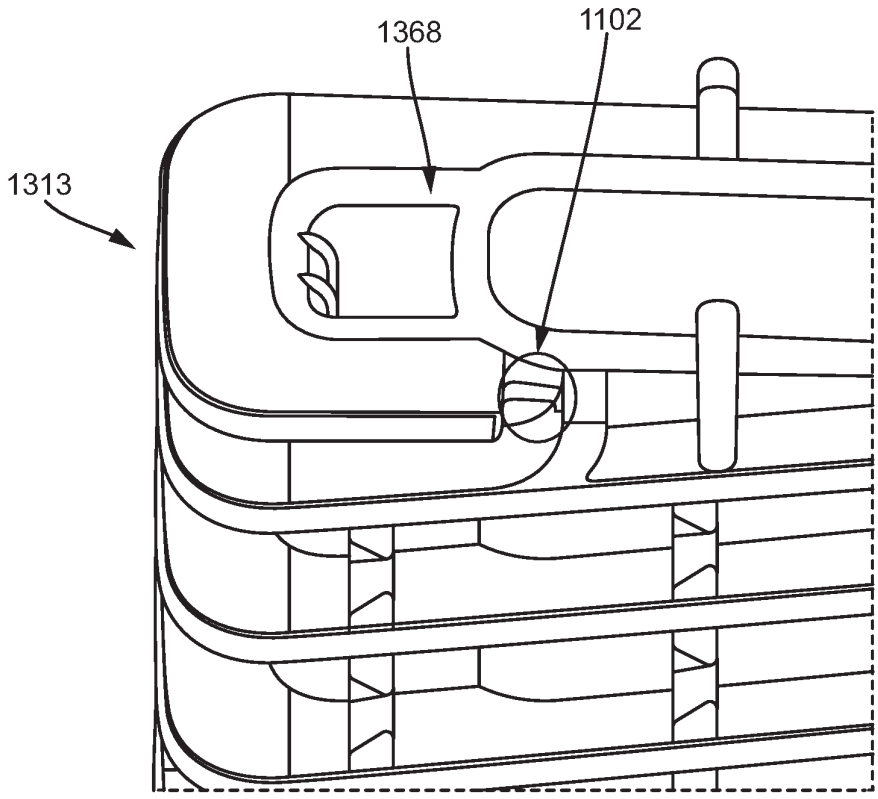


FIG. 5H

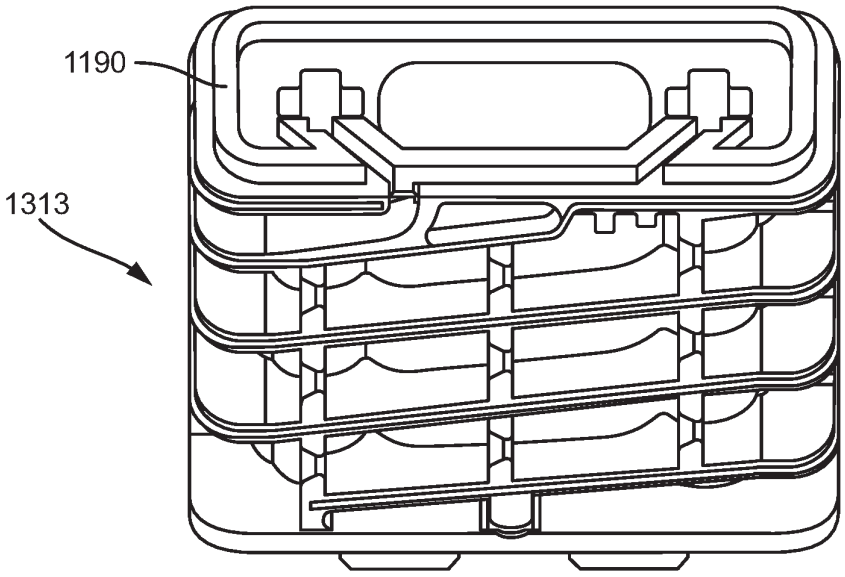


FIG. 5I

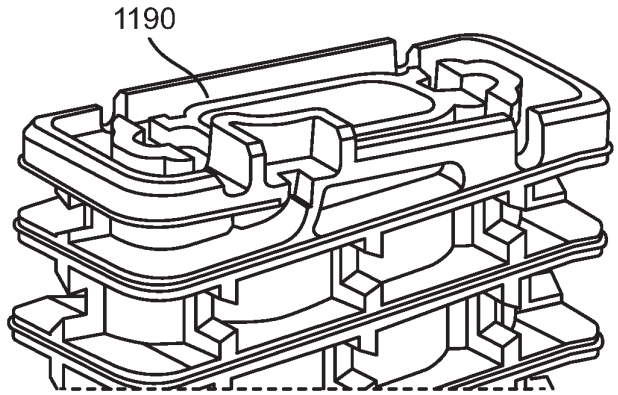


FIG. 5J

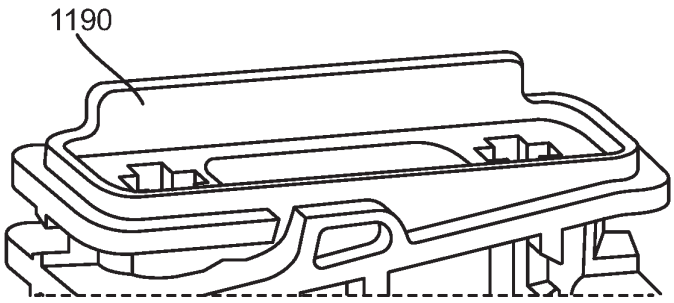


FIG. 5K

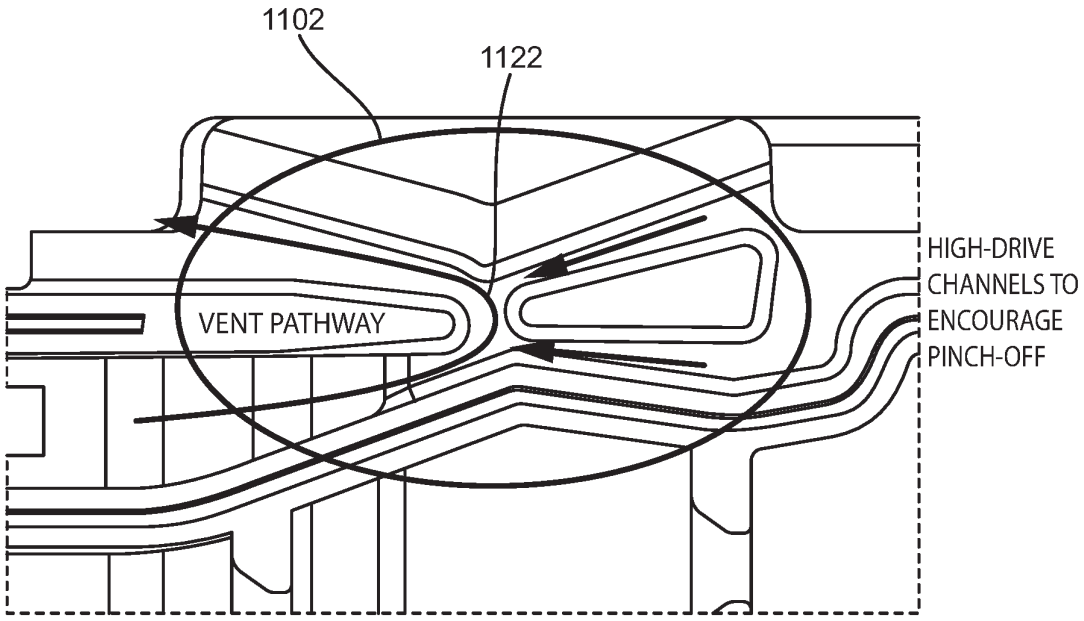

1102
1122
VENT PATHWAY
HIGH-DRIVE
CHANNELS TO
ENCOURAGE
PINCH-OFF

FIG. 5L

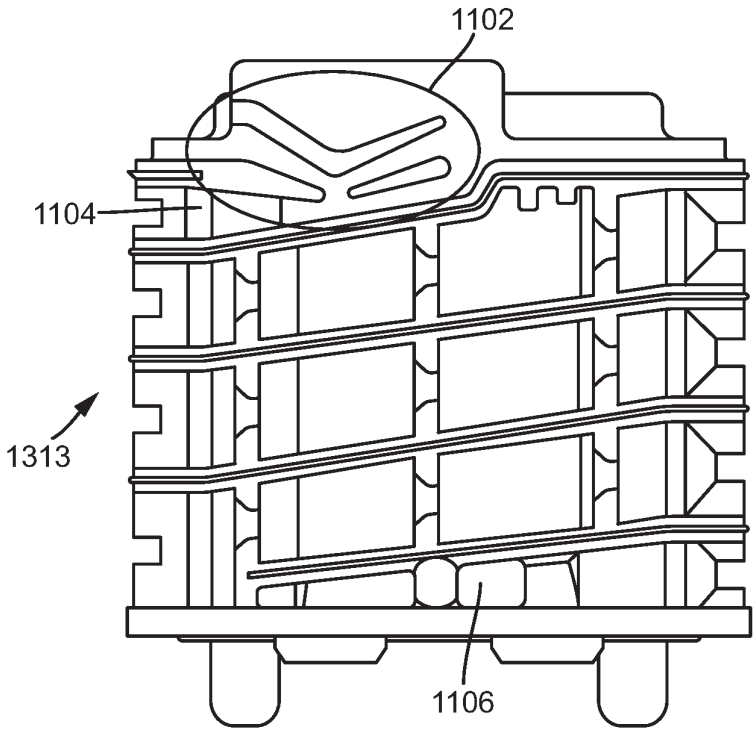


FIG. 5M

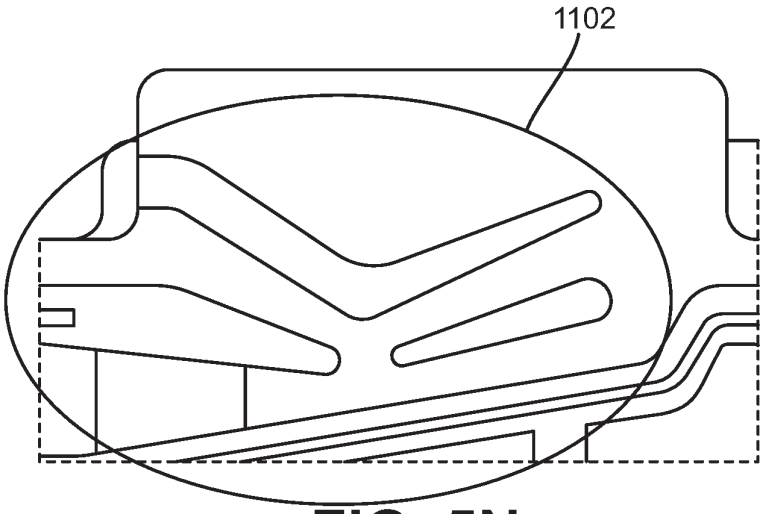


FIG. 5N

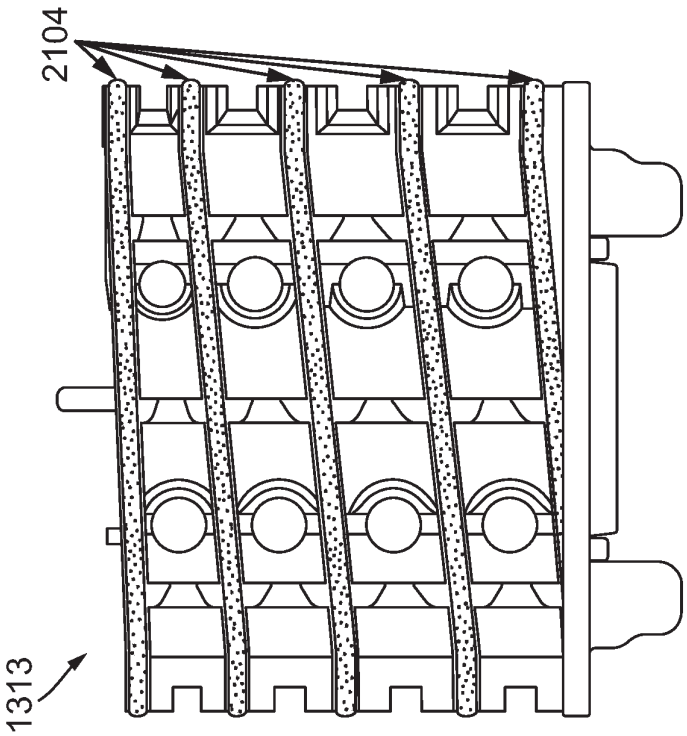


FIG. 6B

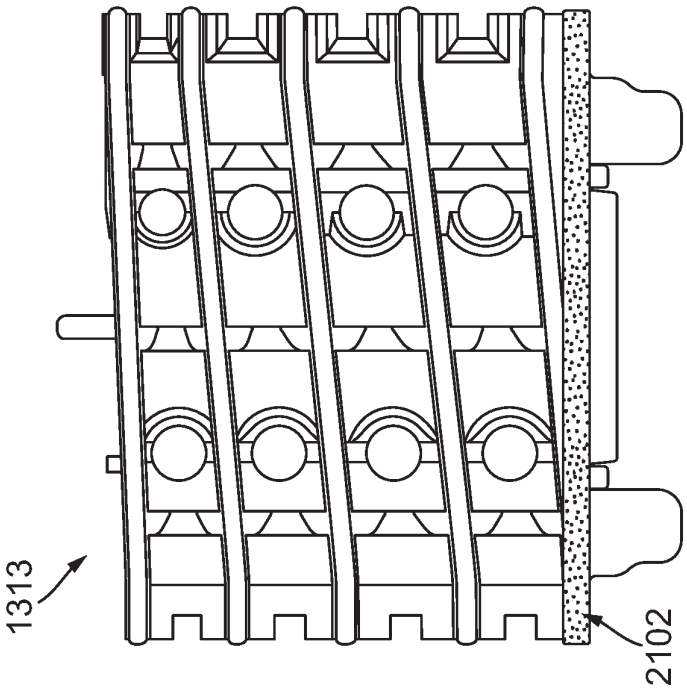


FIG. 6A

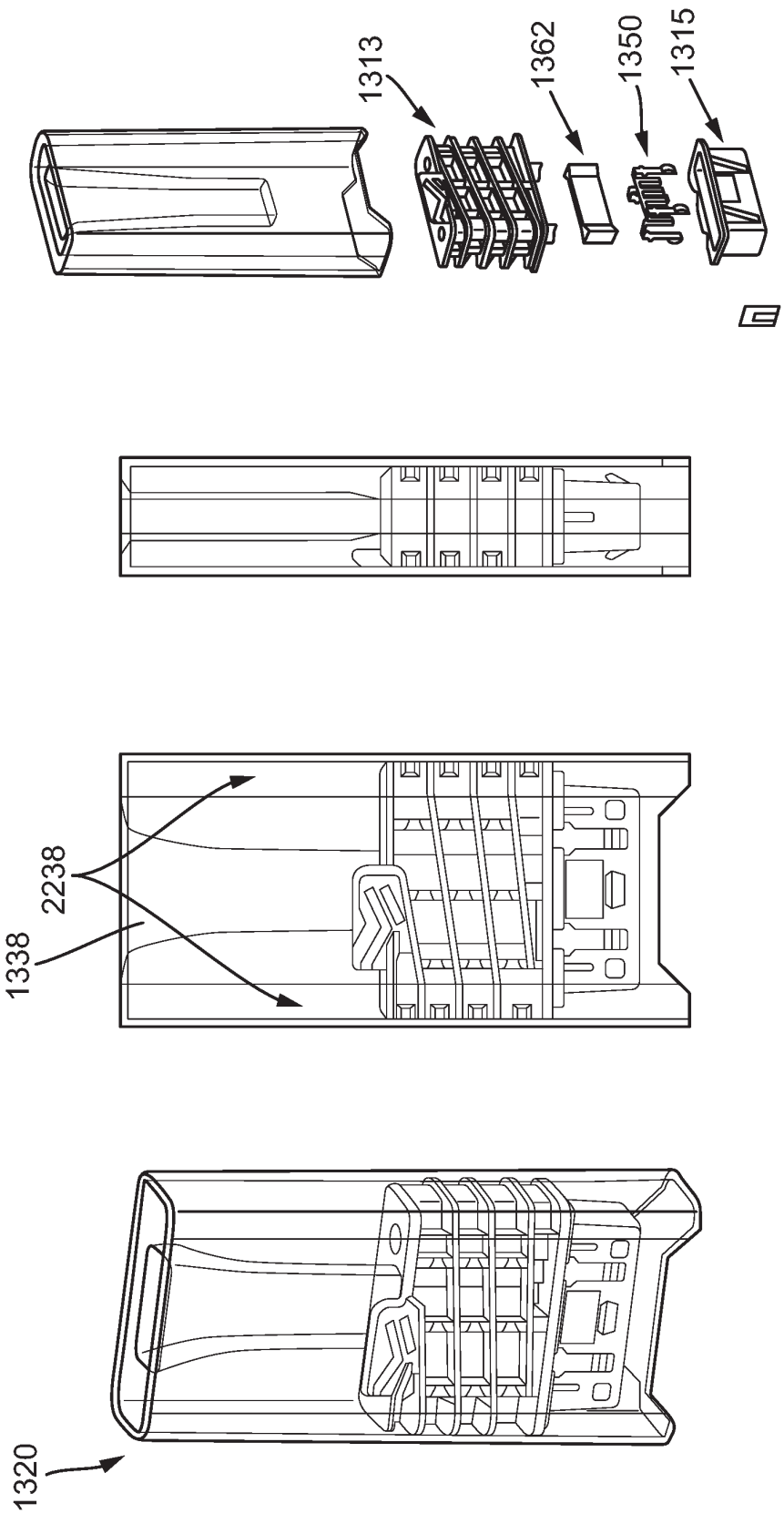


FIG. 7

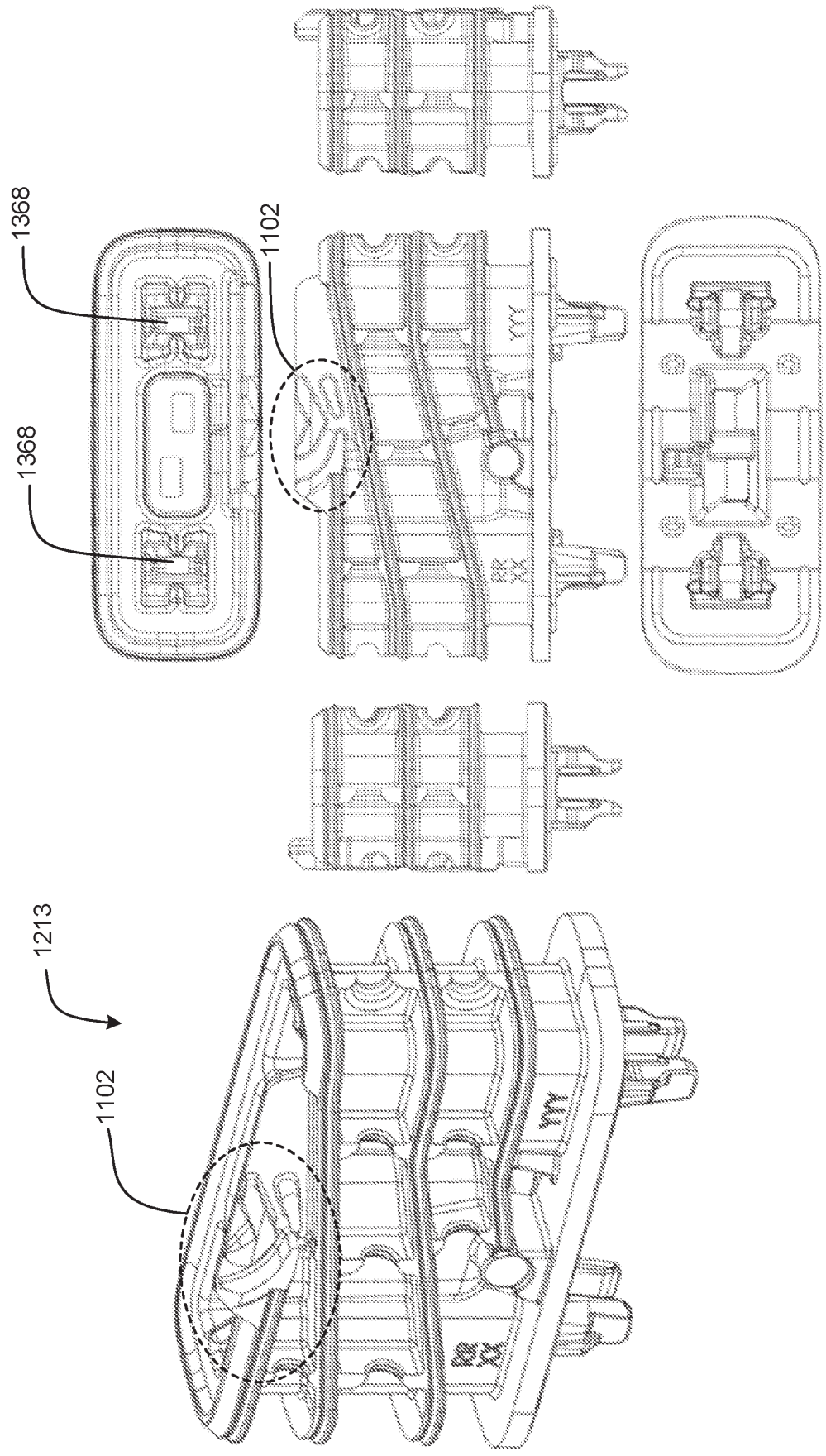


FIG. 8A

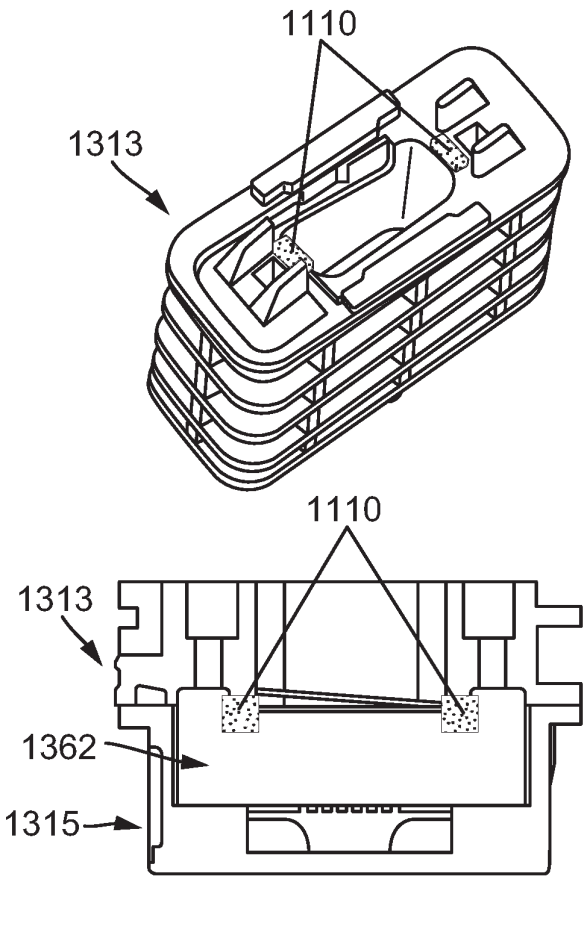


FIG. 8B

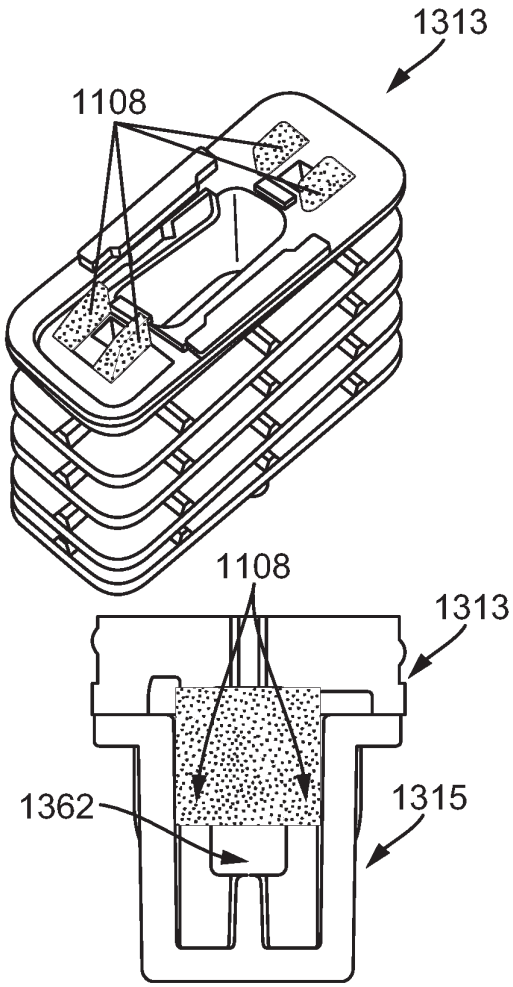


FIG. 8C

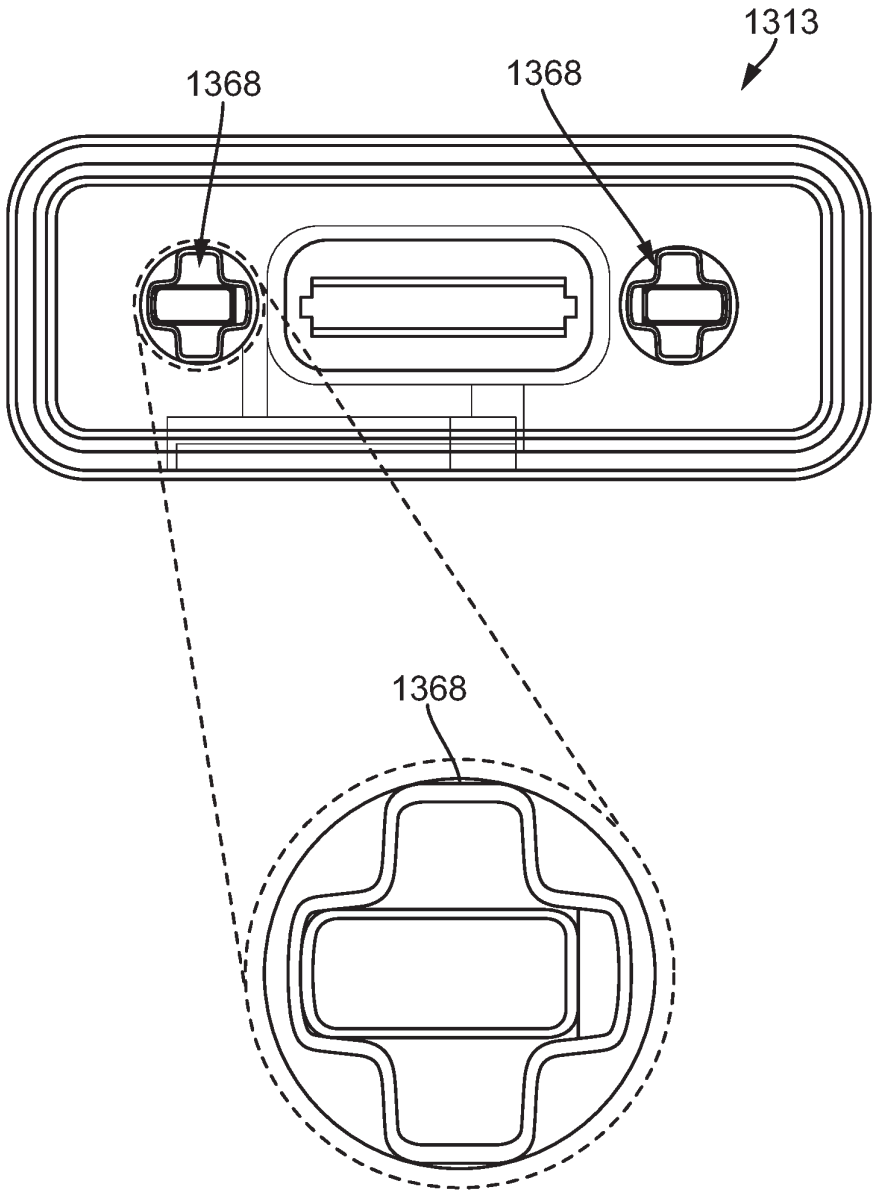


FIG. 8D

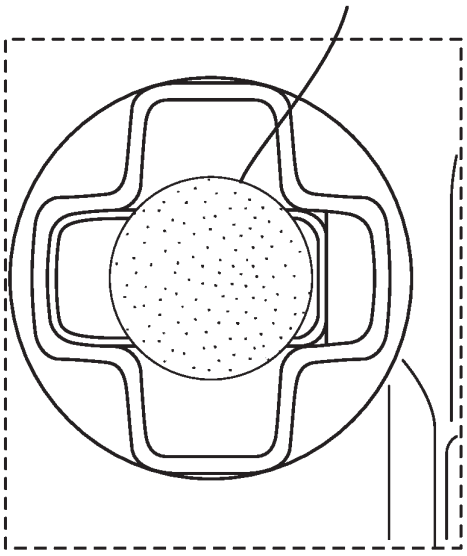


FIG. 8E

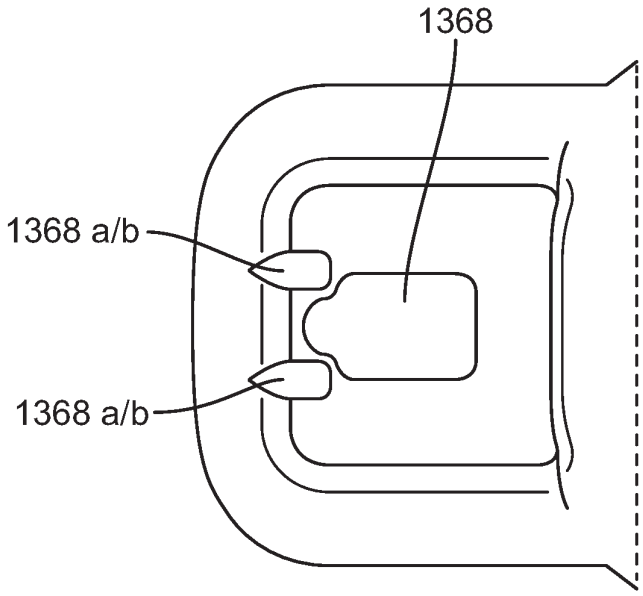


FIG. 8F

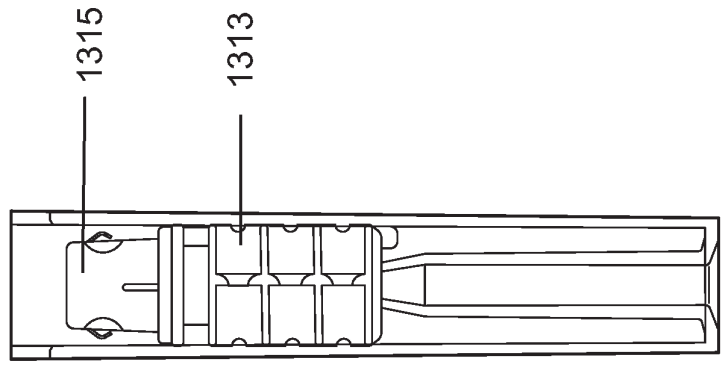


FIG. 9C

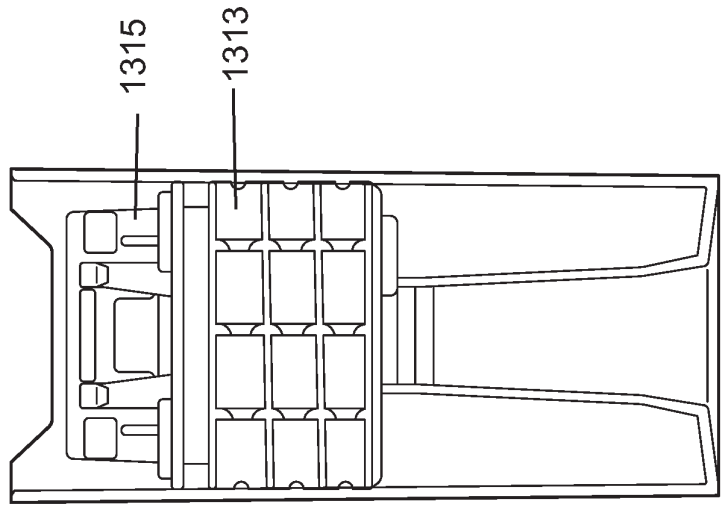


FIG. 9B

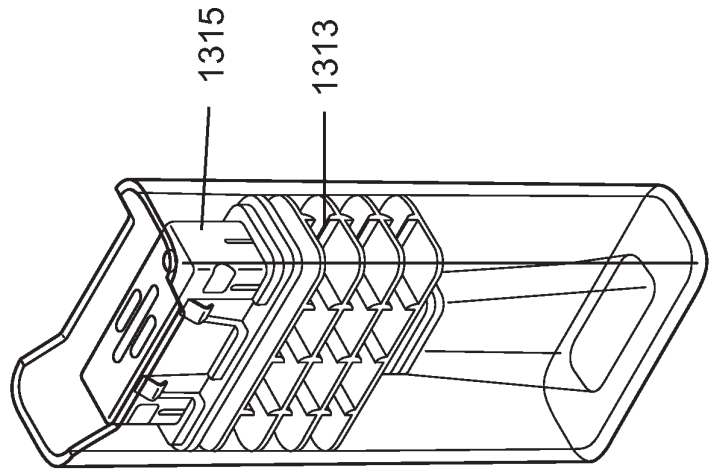


FIG. 9A

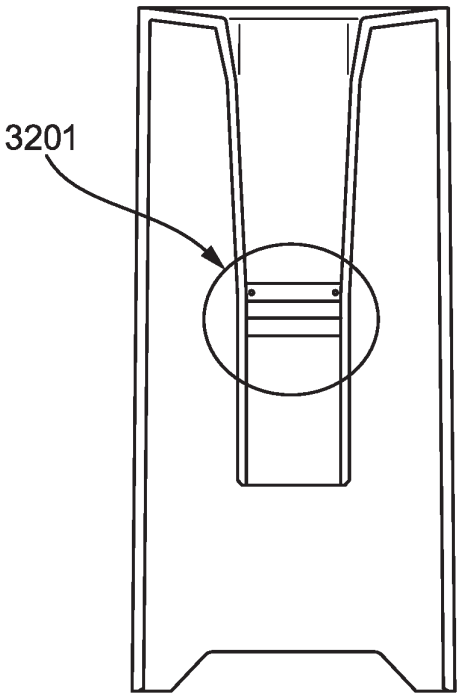


FIG. 10A

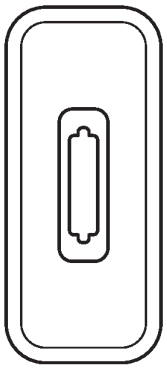


FIG. 10B

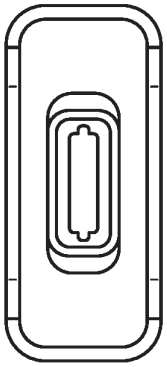


FIG. 10C

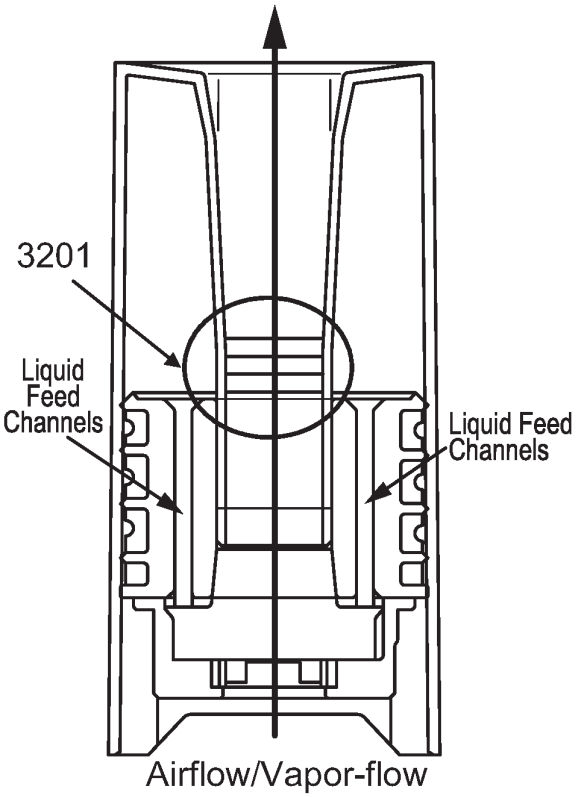


FIG. 10D

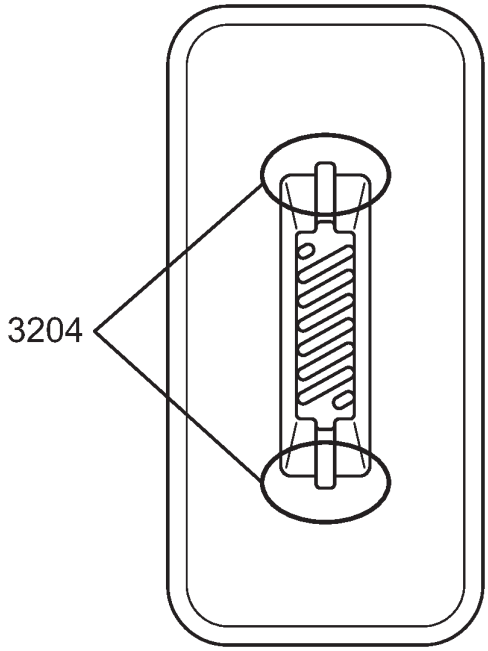


FIG. 10E

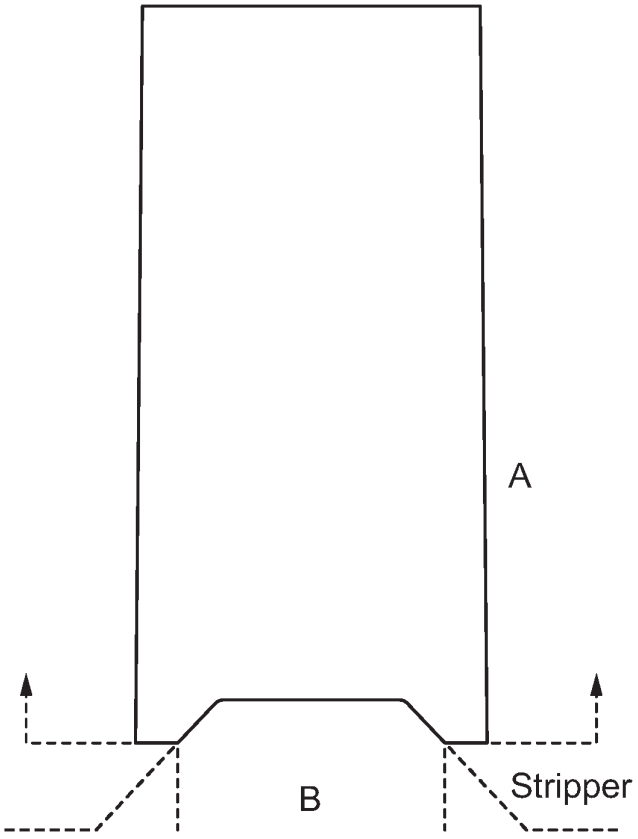


FIG. 11A

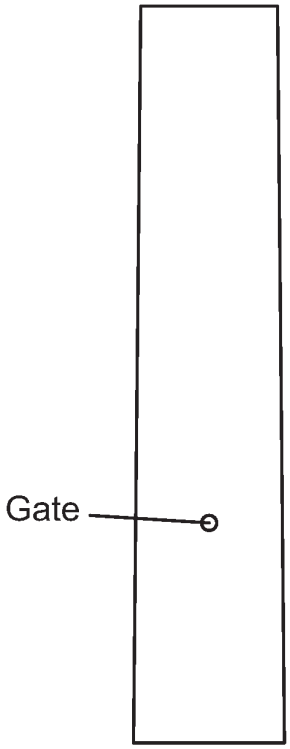


FIG. 11B

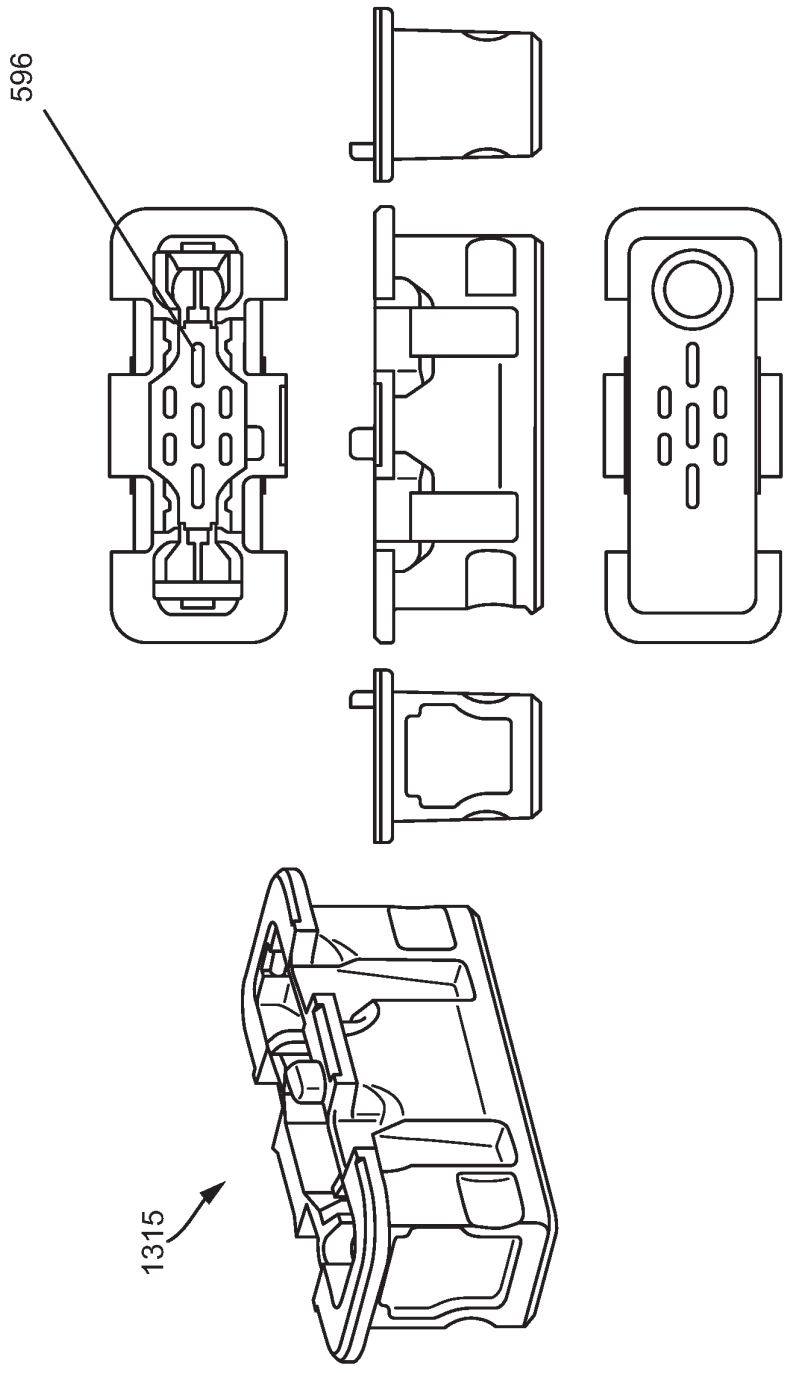


FIG. 12A

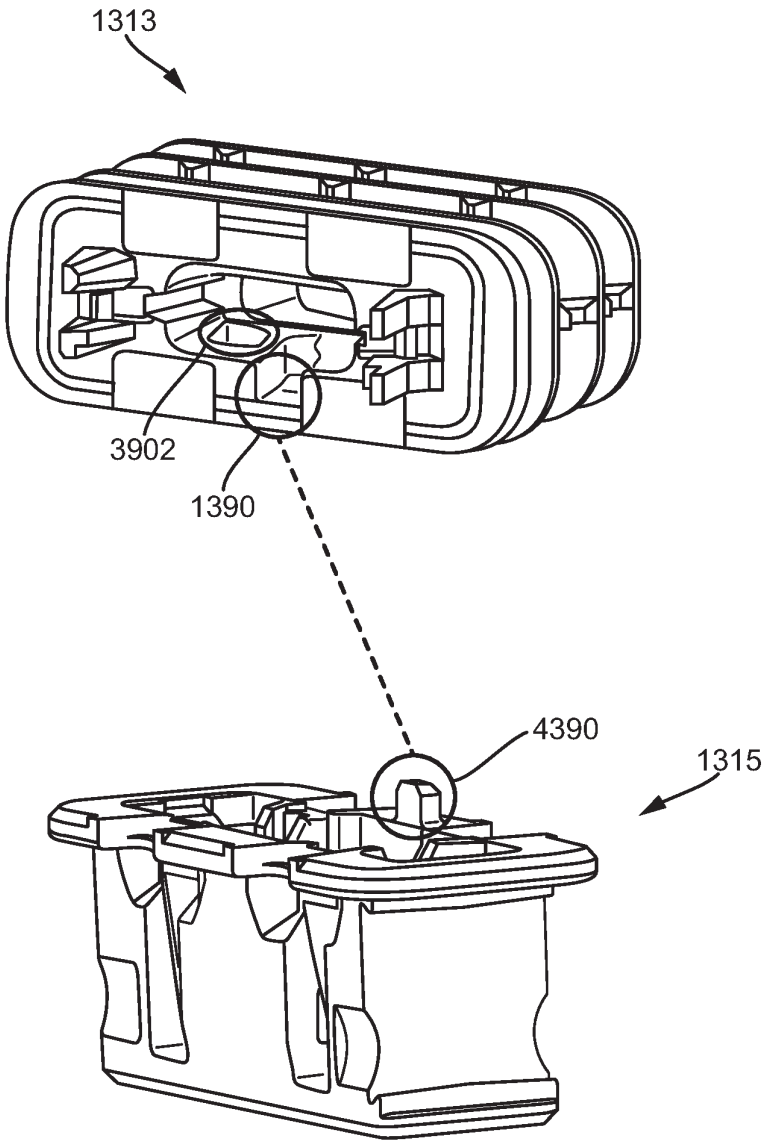


FIG. 12B

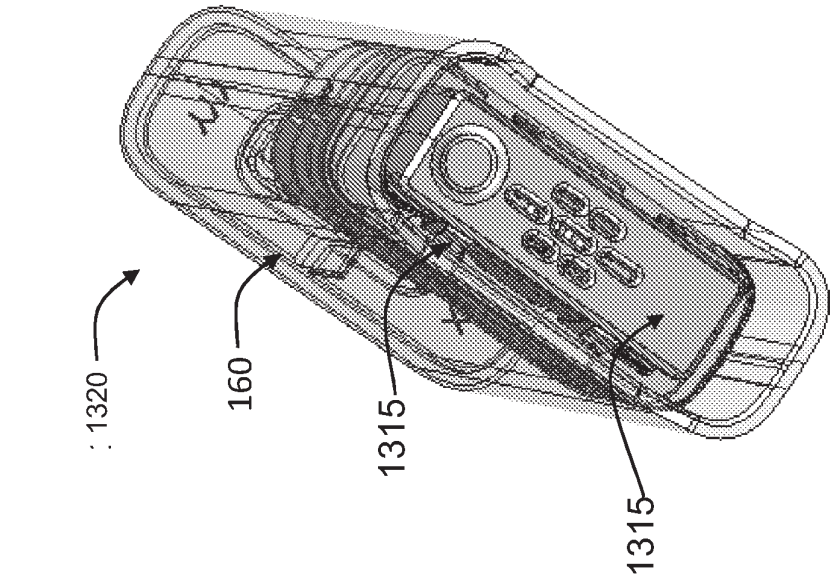


FIG. 13C

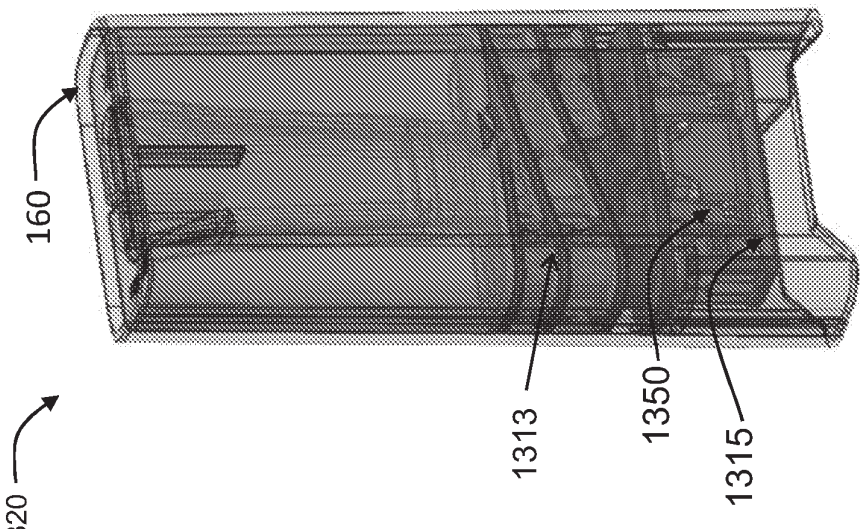


FIG. 13B

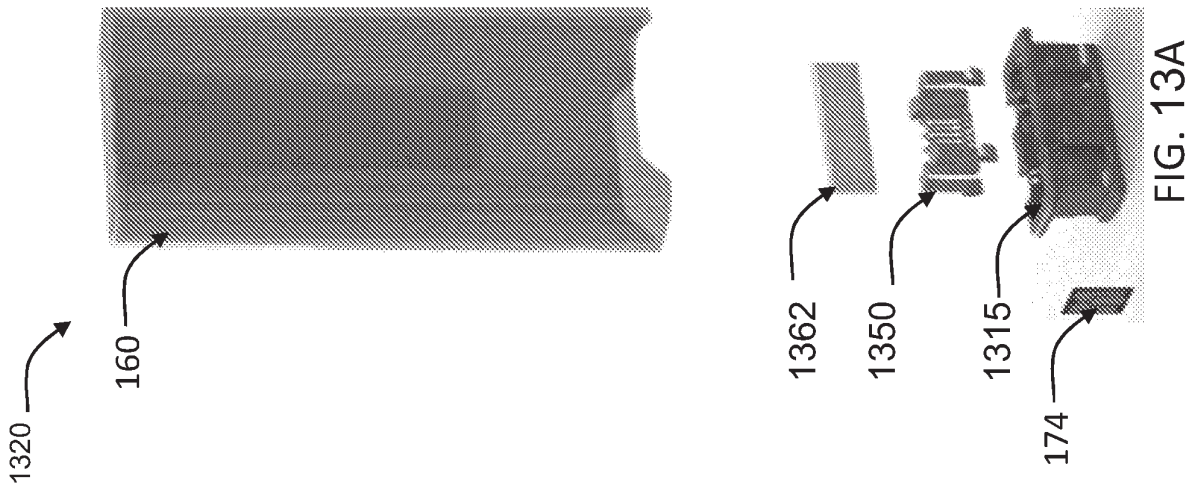


FIG. 13A

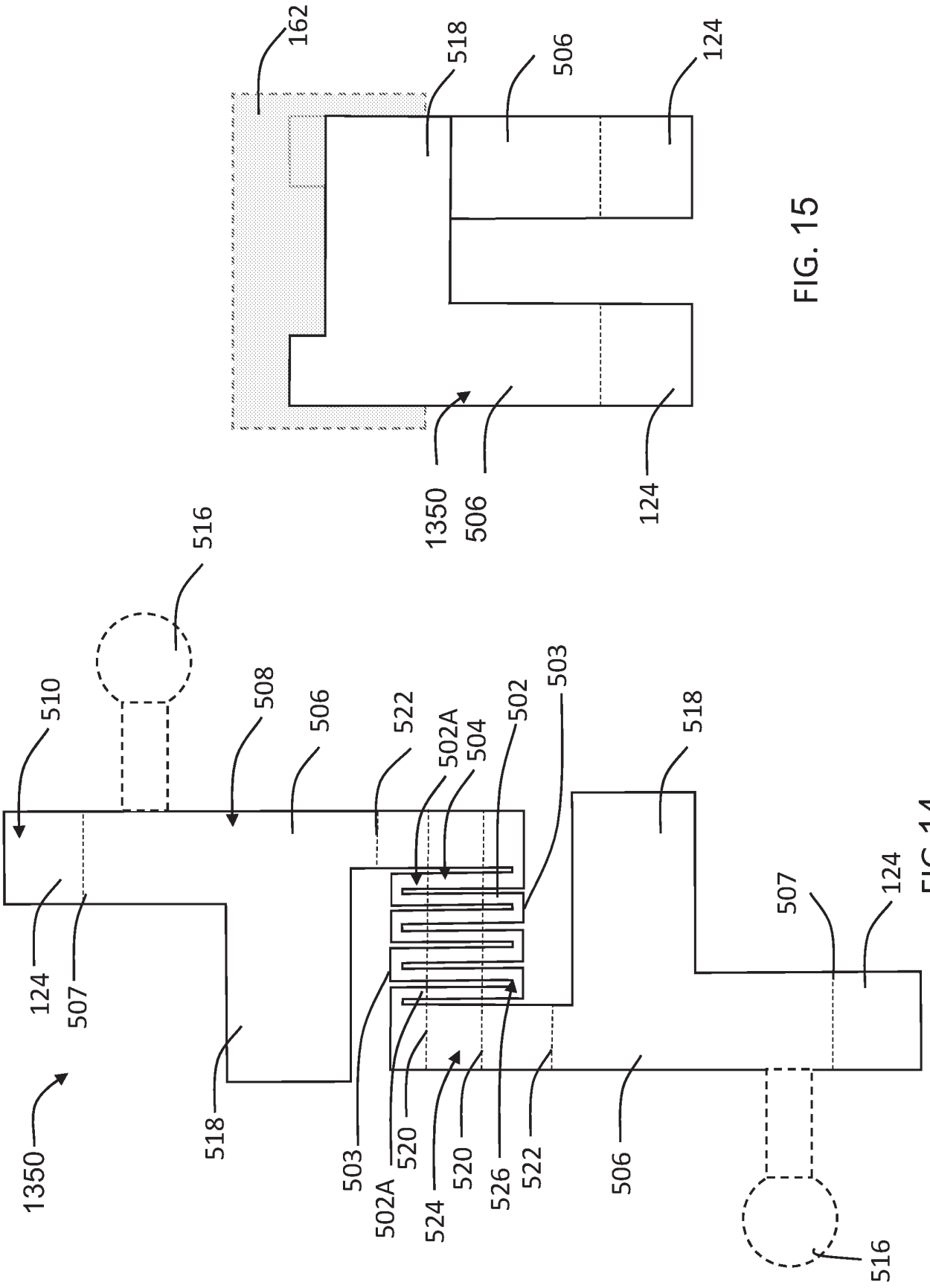

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FIG.14

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124

FIG. 15

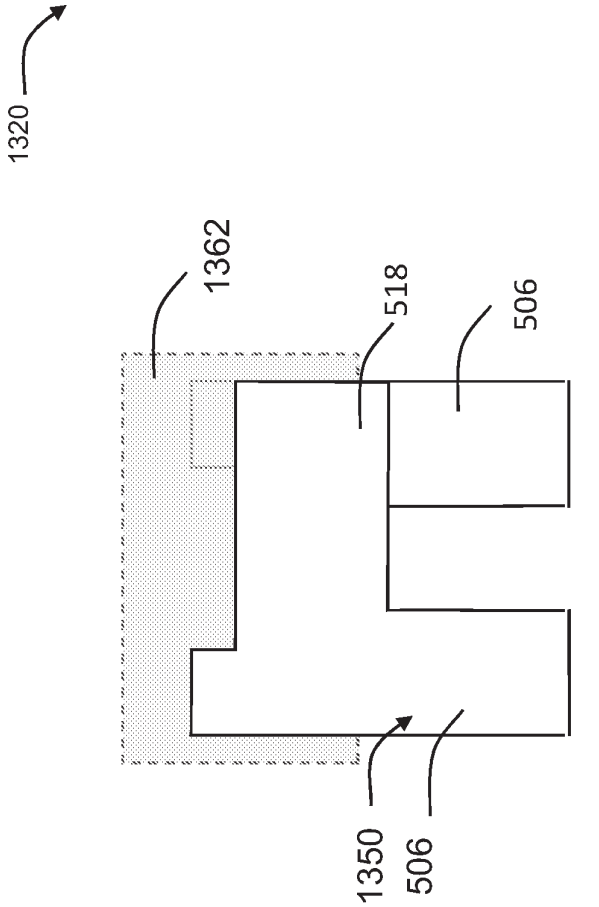


FIG. 16

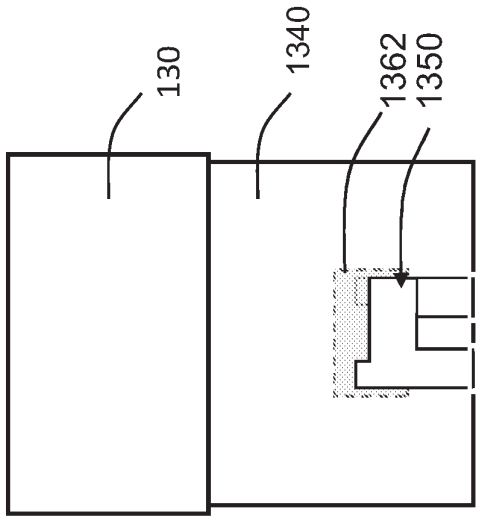


FIG. 17

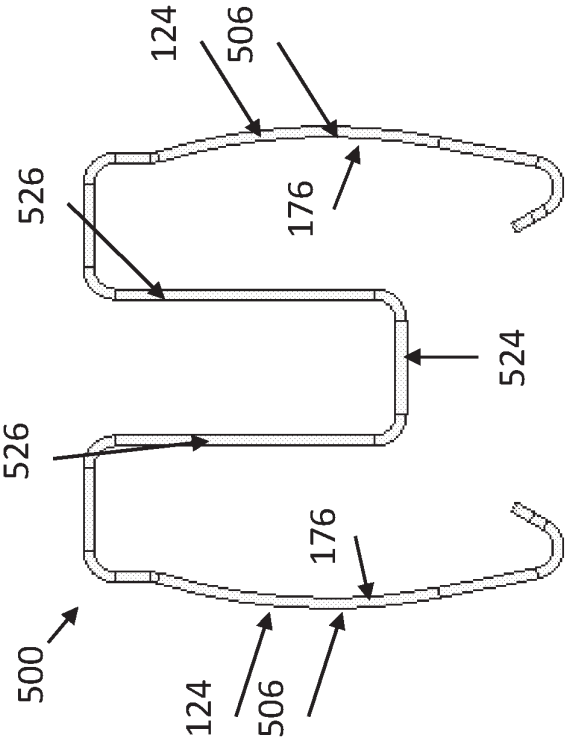


FIG. 18B

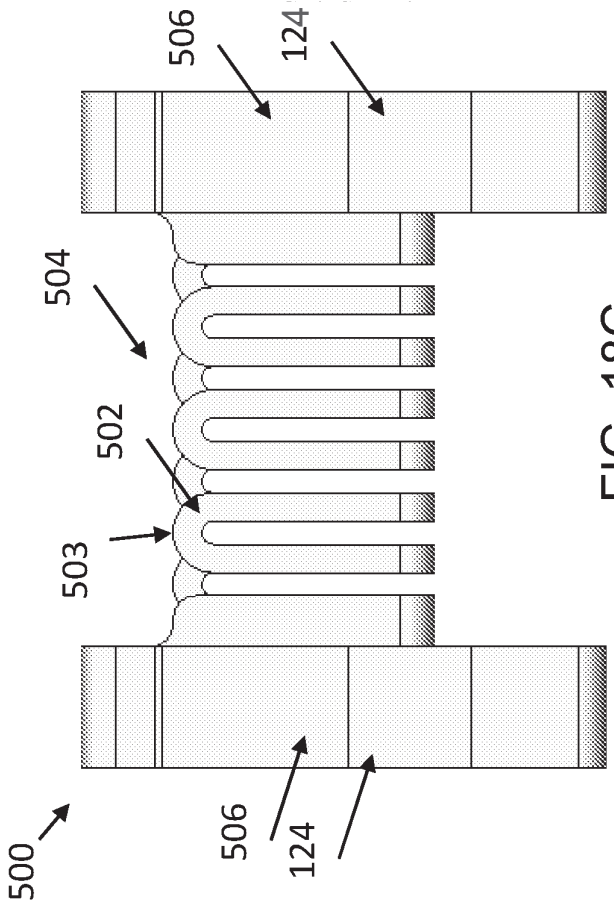


FIG. 18C

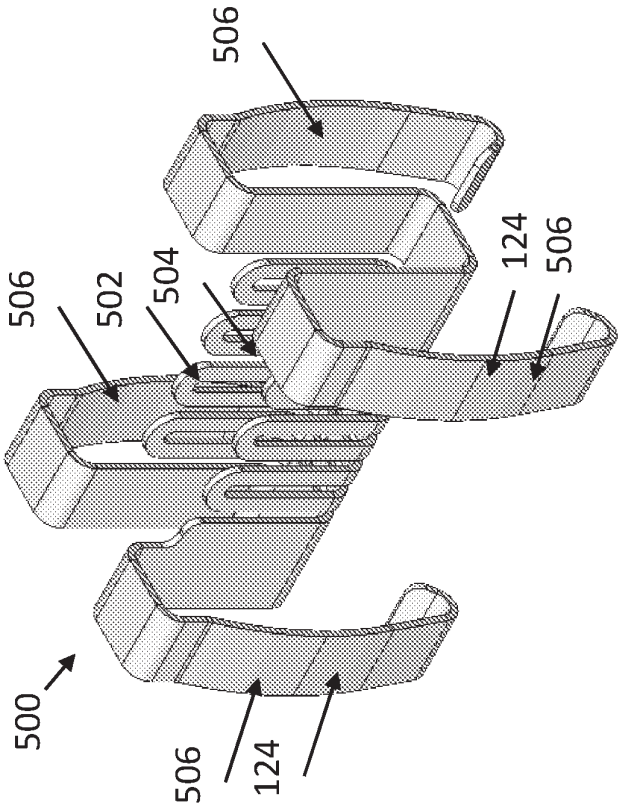


FIG. 18A

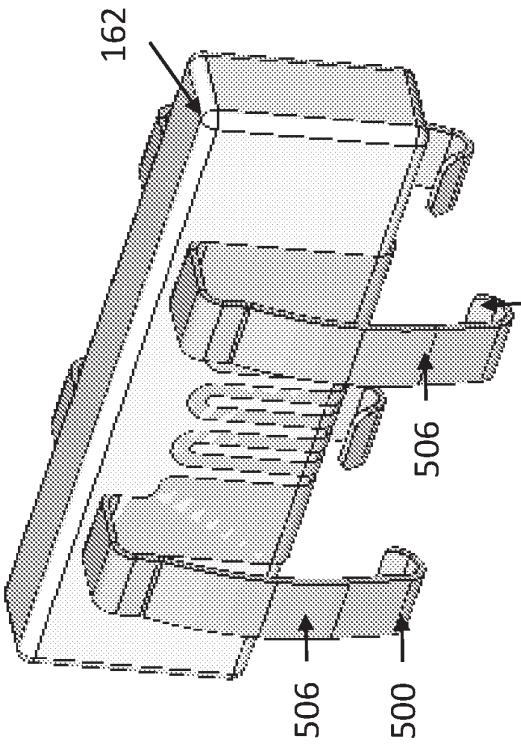


FIG. 18D

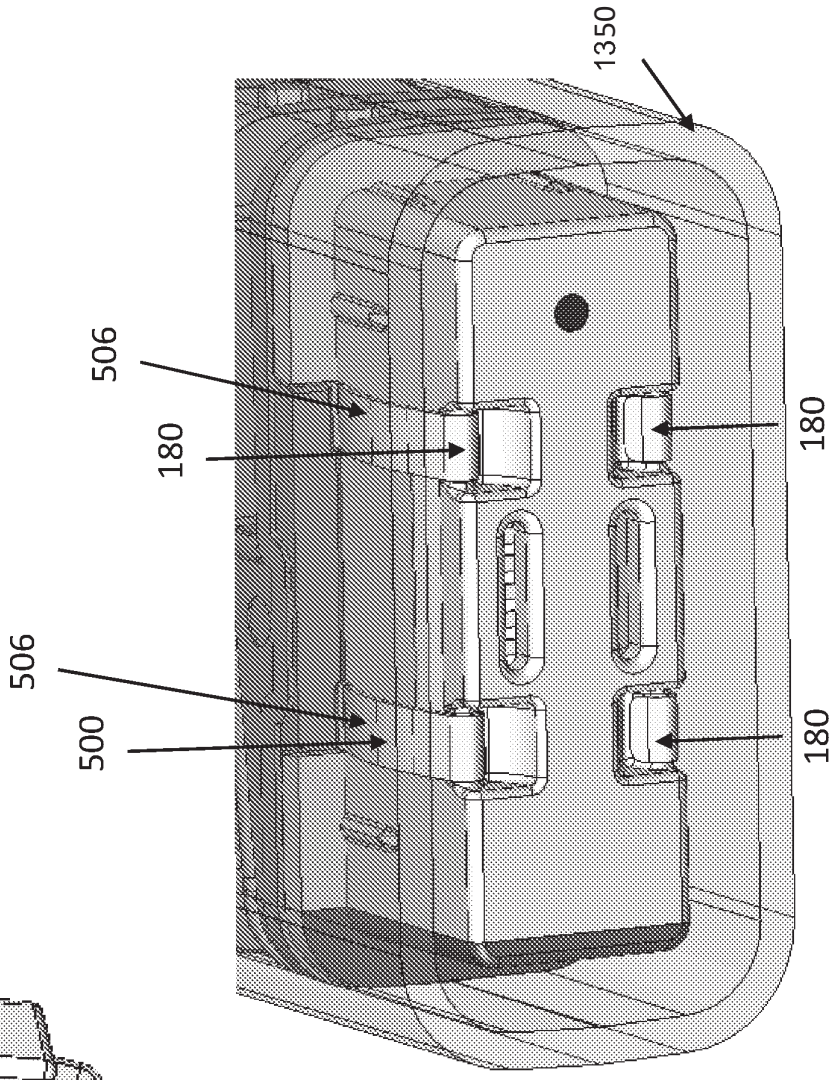


FIG. 18E

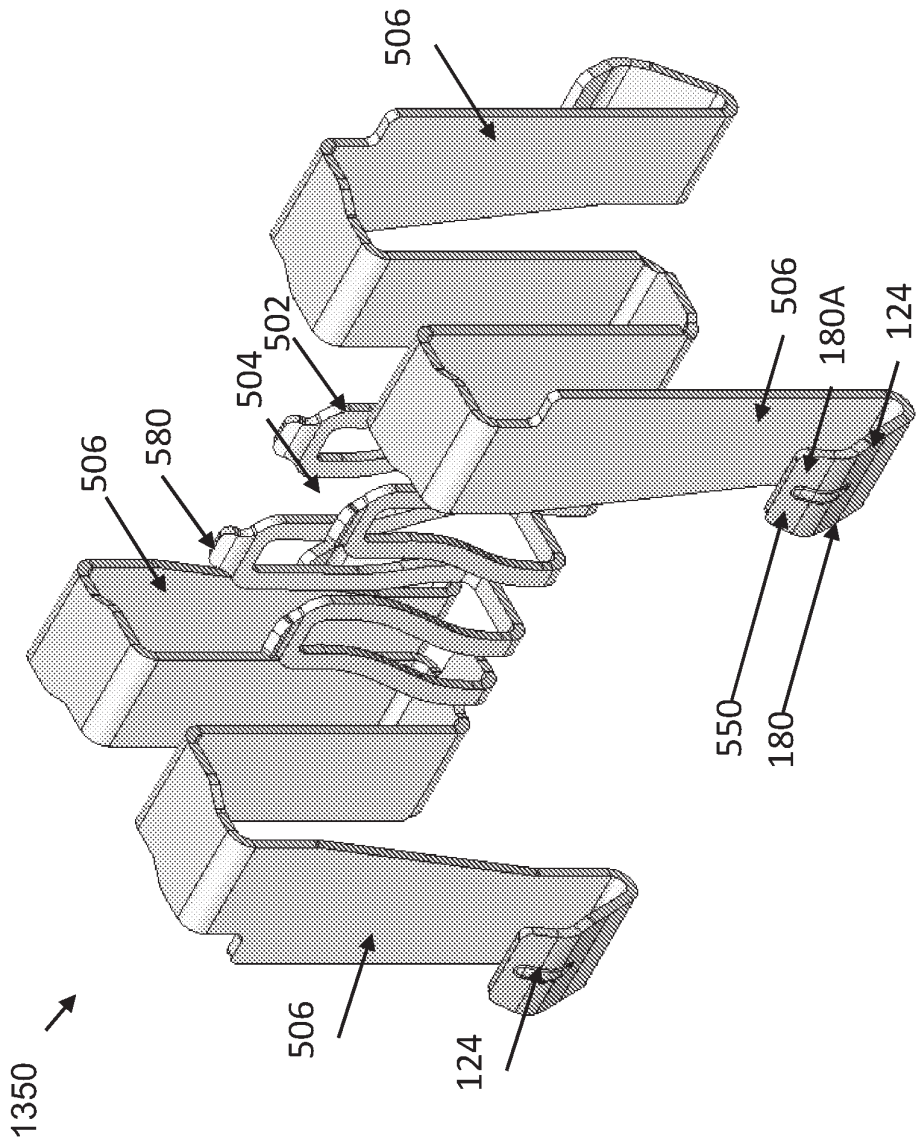


FIG. 19

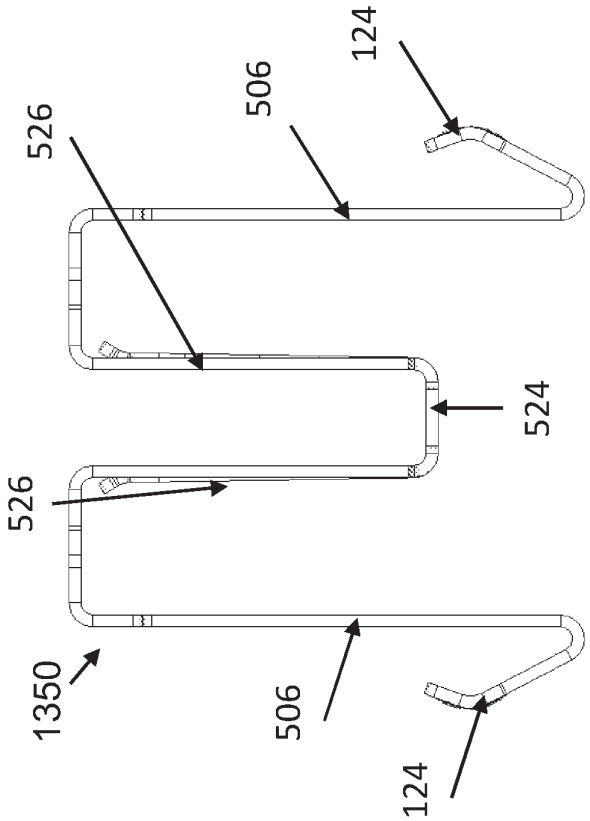


FIG. 20

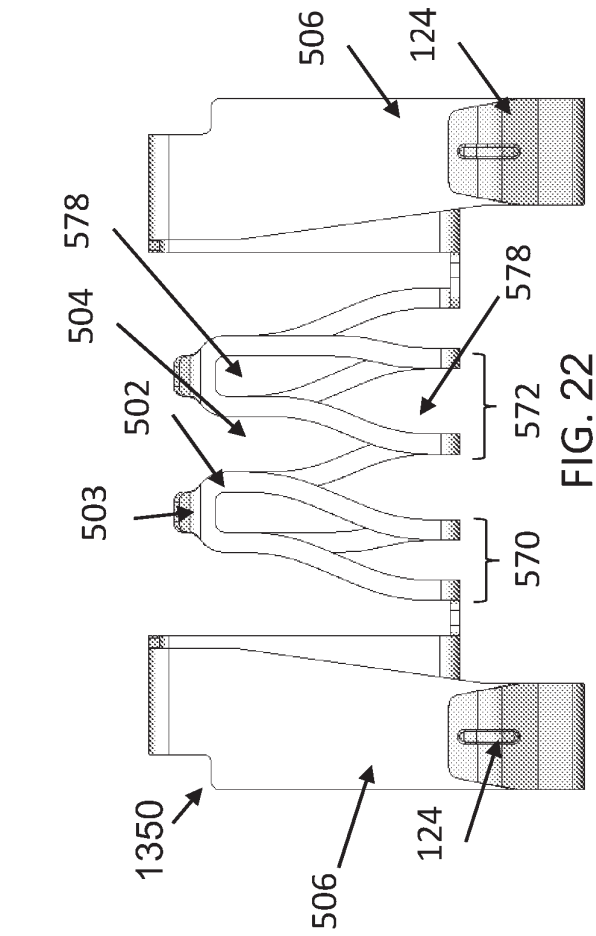


FIG. 22

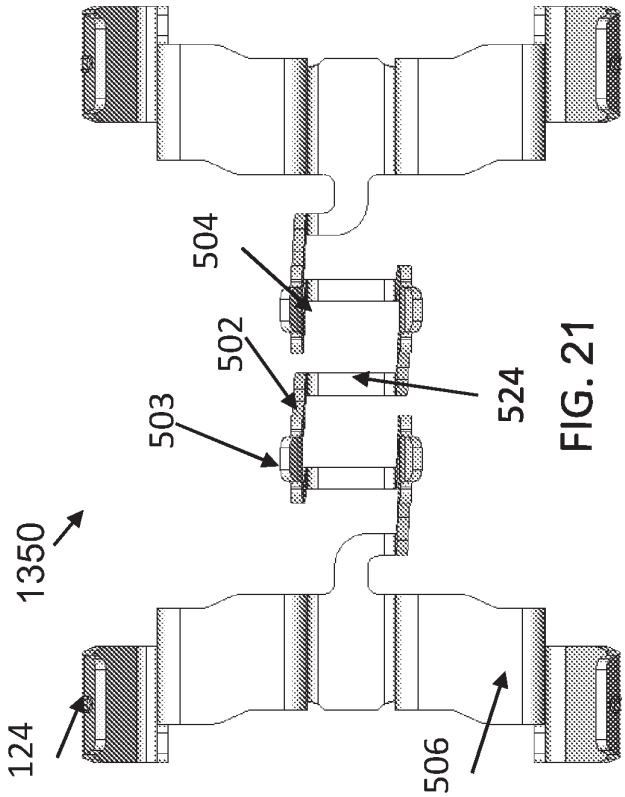


FIG. 21

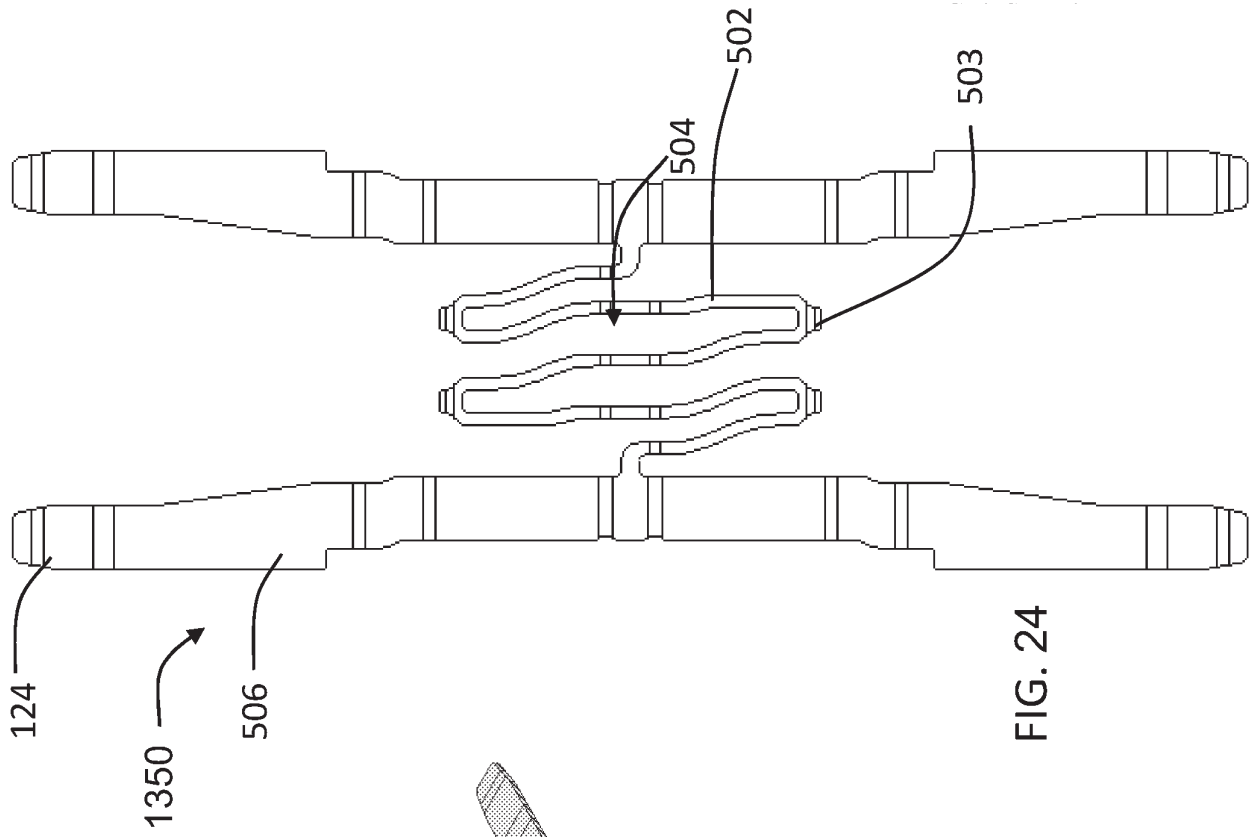


FIG. 24

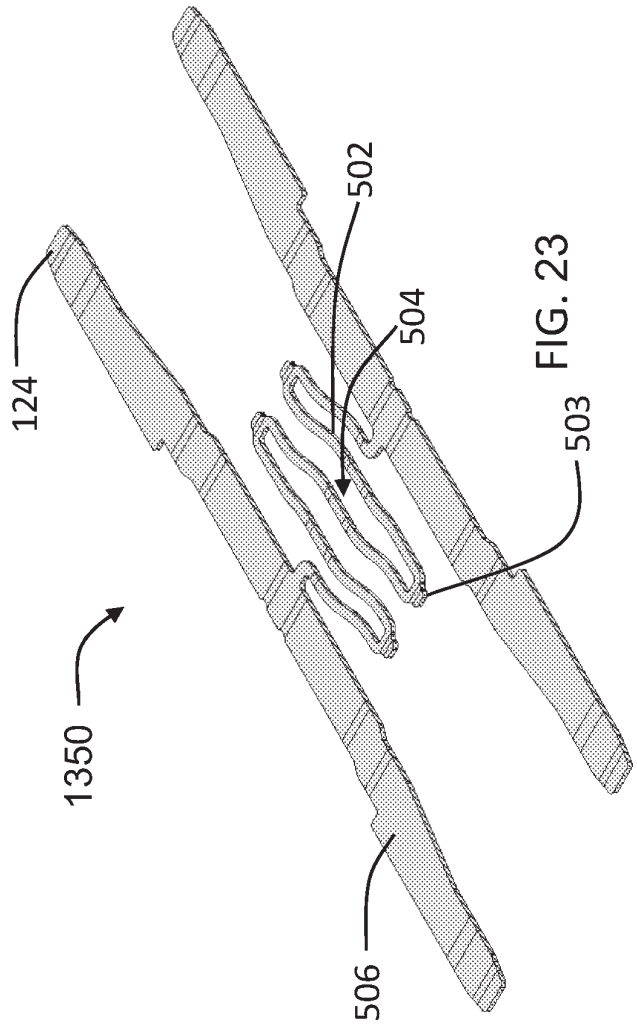


FIG. 23

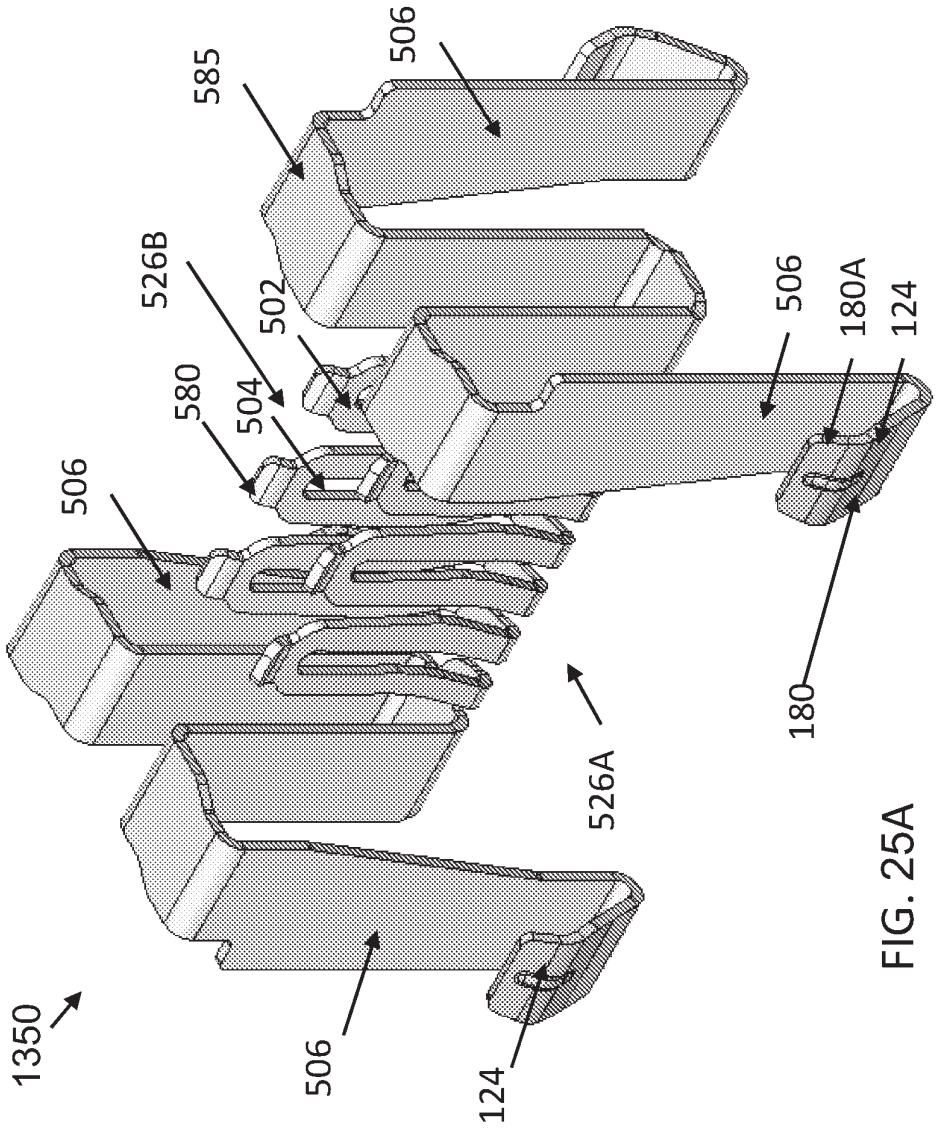

1350
506
124
526A
180
506
180A
124
506
585
506
526B
502
580
504
506

FIG. 25A

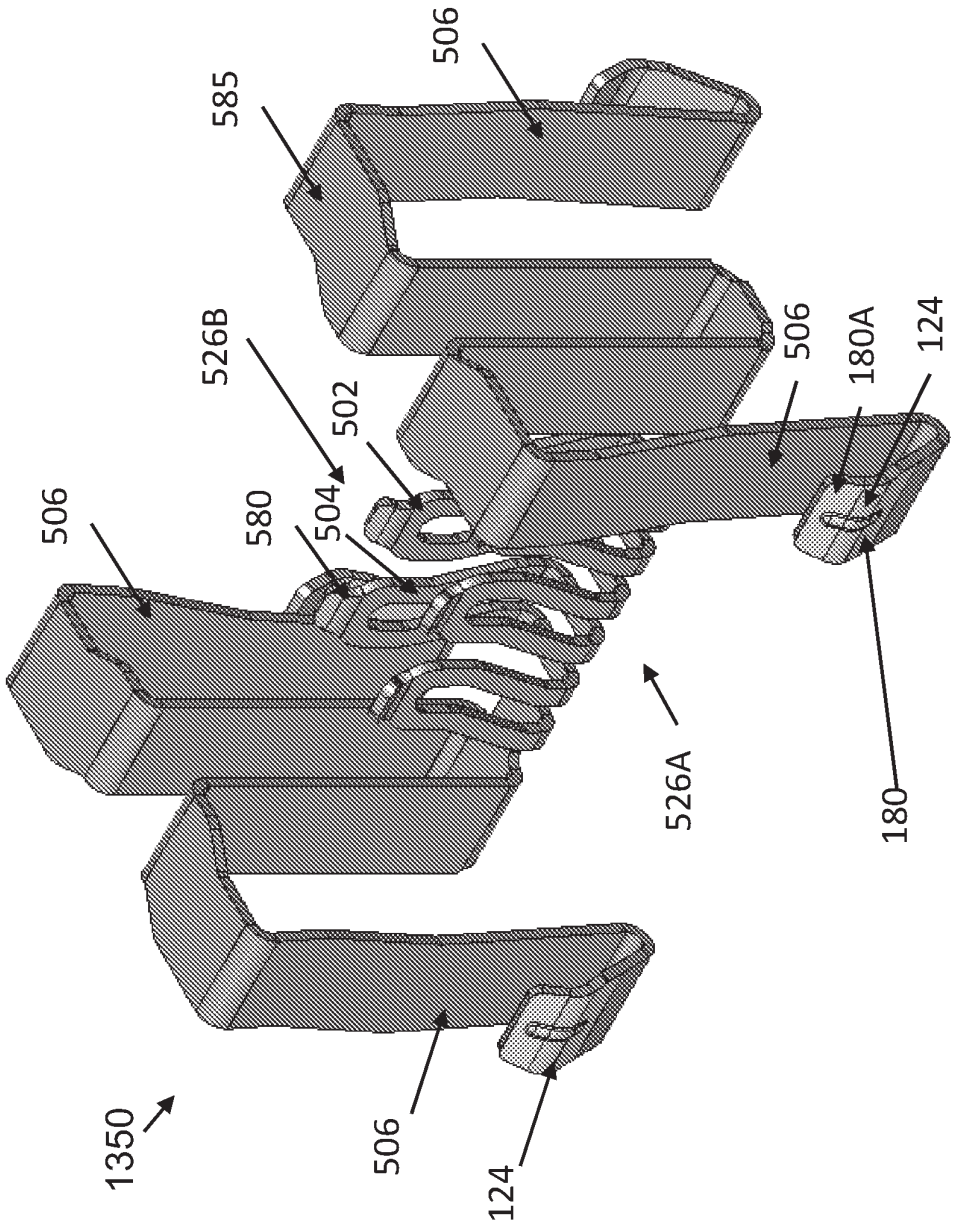


FIG. 25B

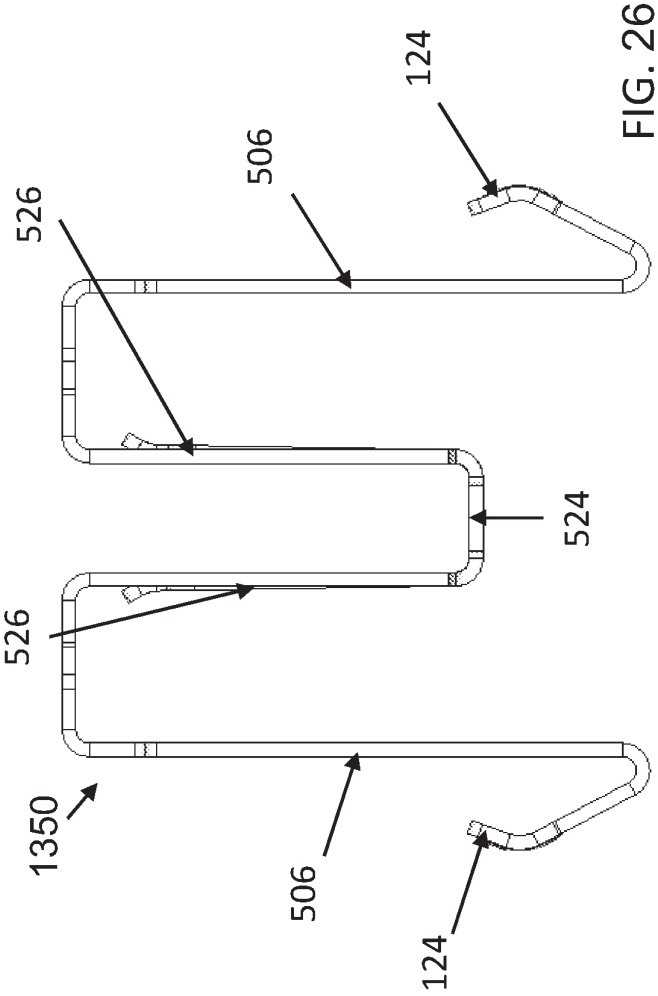


FIG. 26

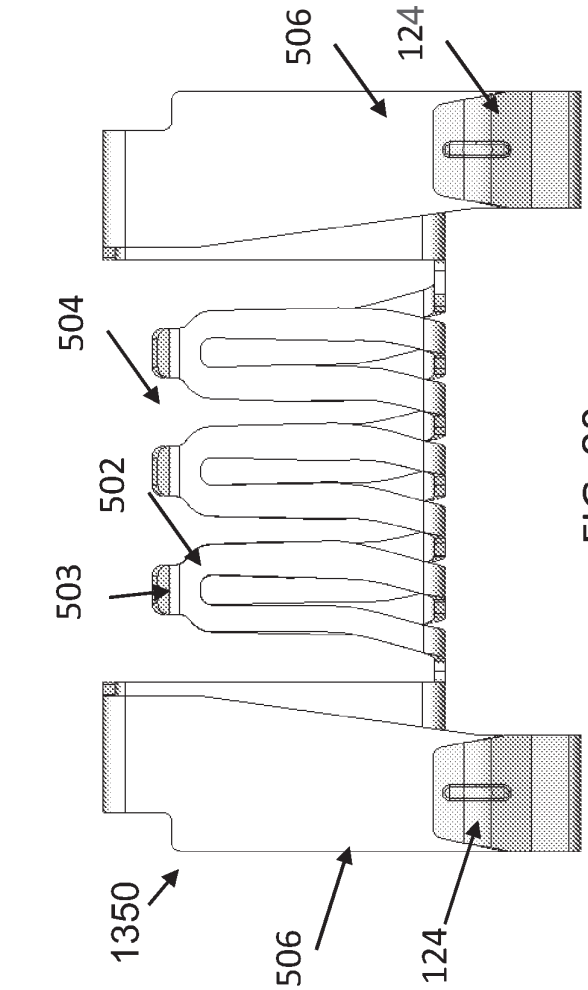


FIG. 28

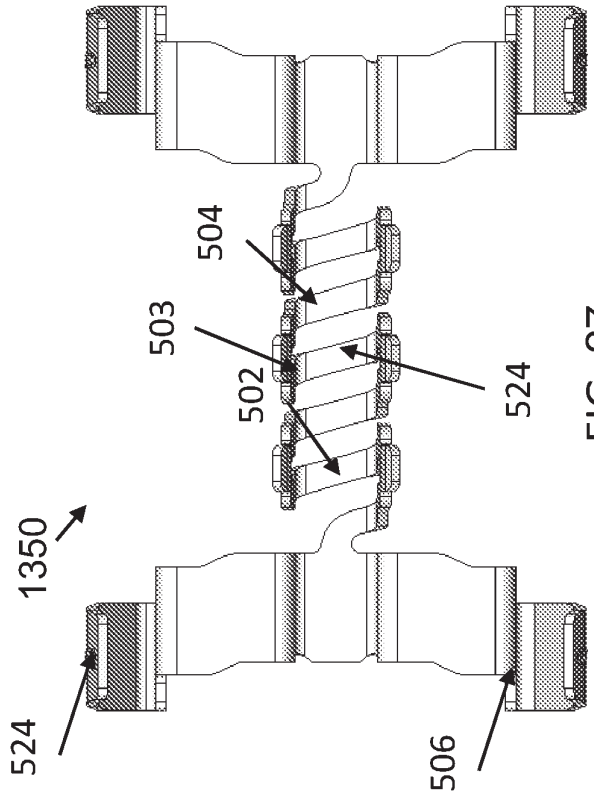


FIG. 27

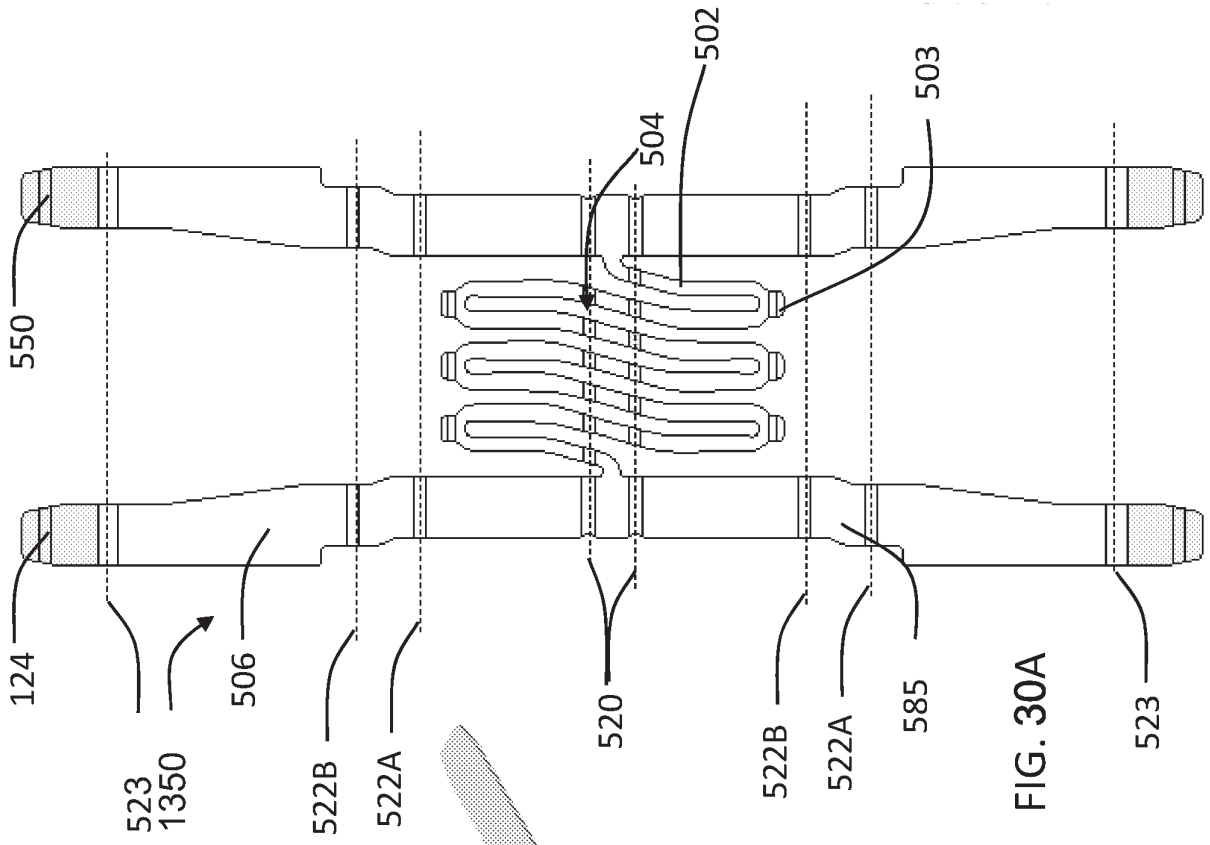


FIG. 30A

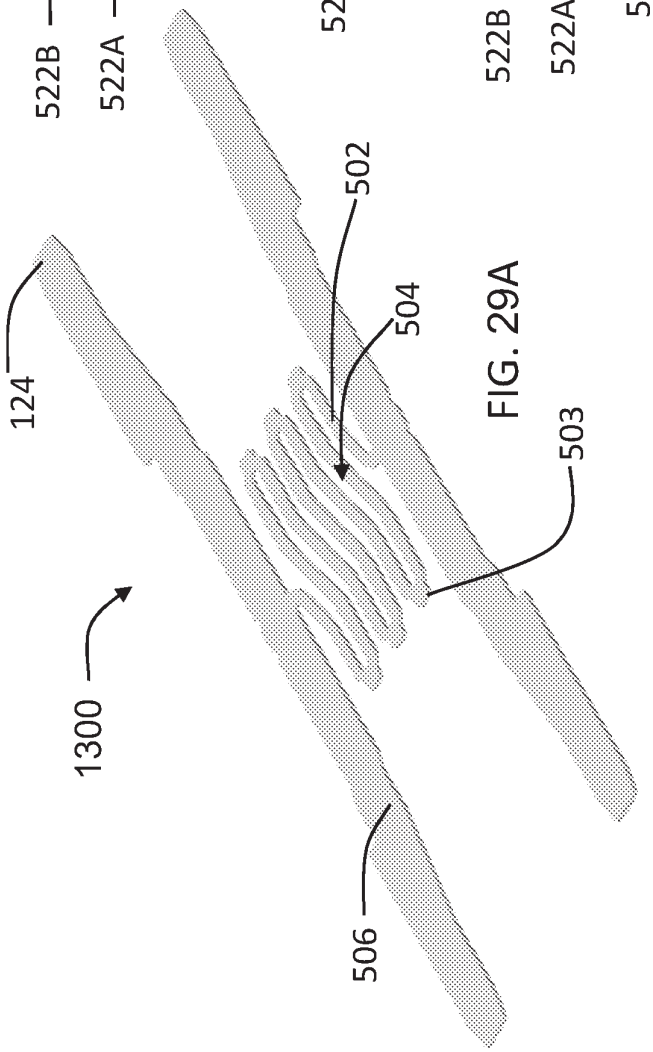


FIG. 29A

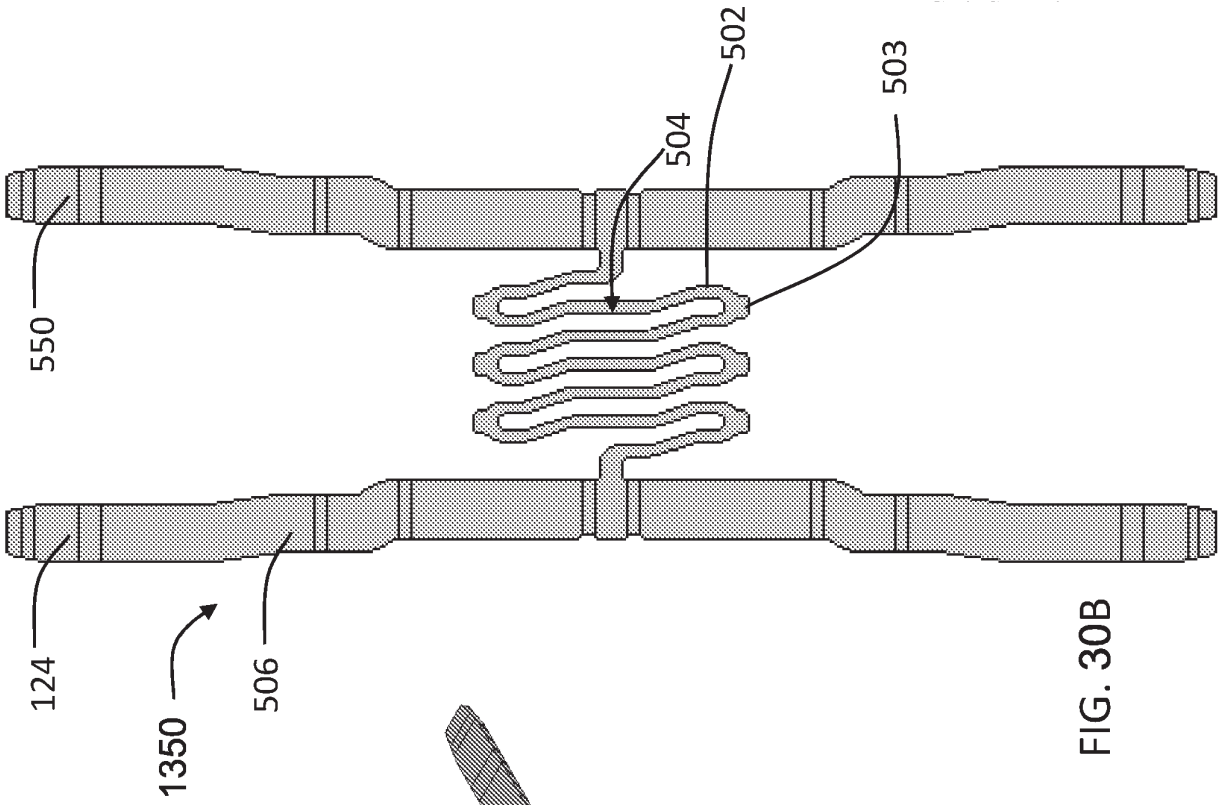


FIG. 30B

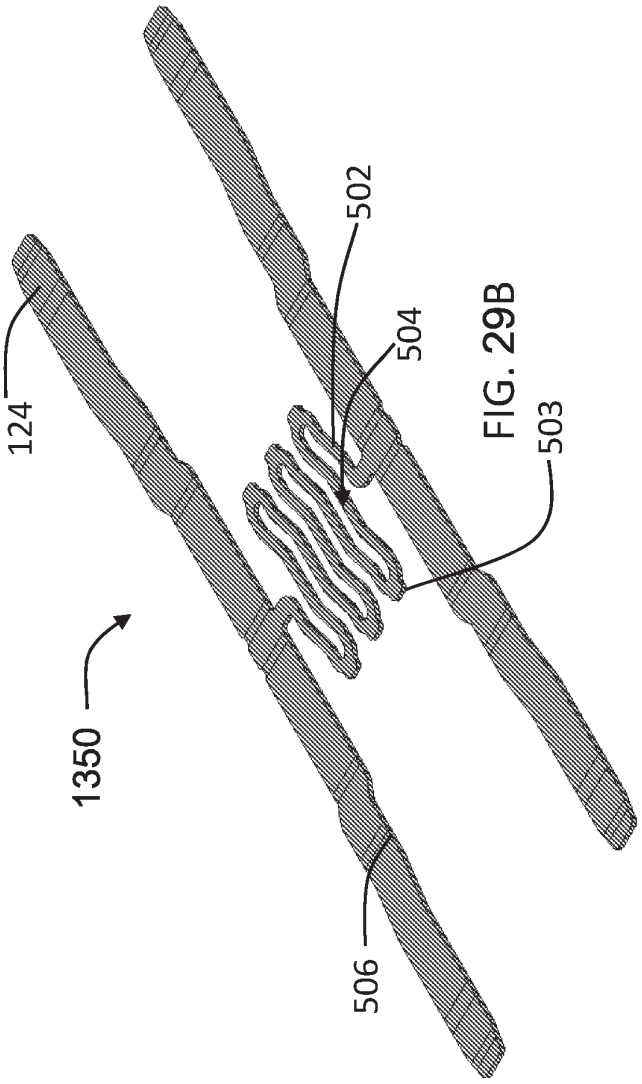


FIG. 29B

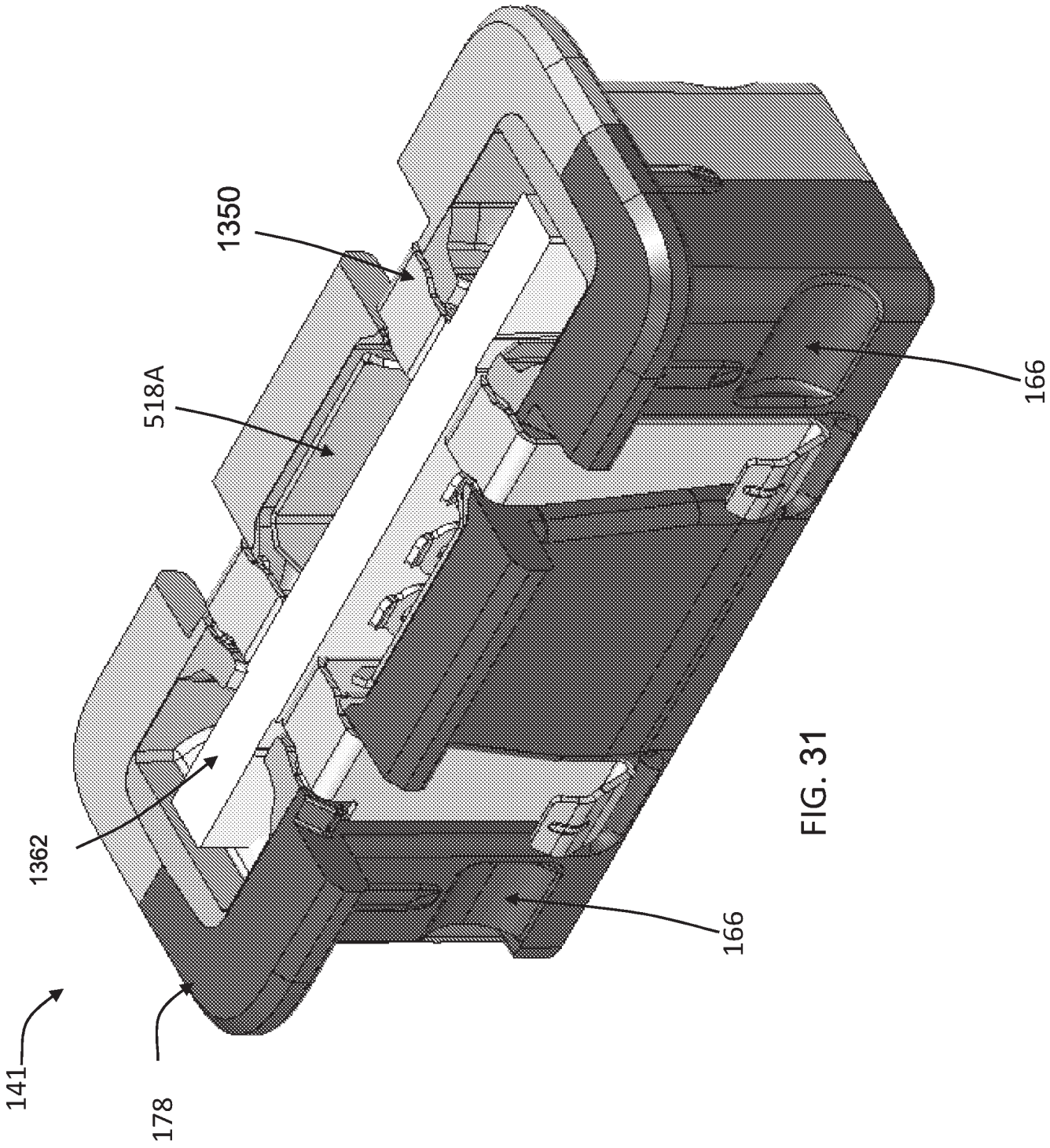


FIG. 31

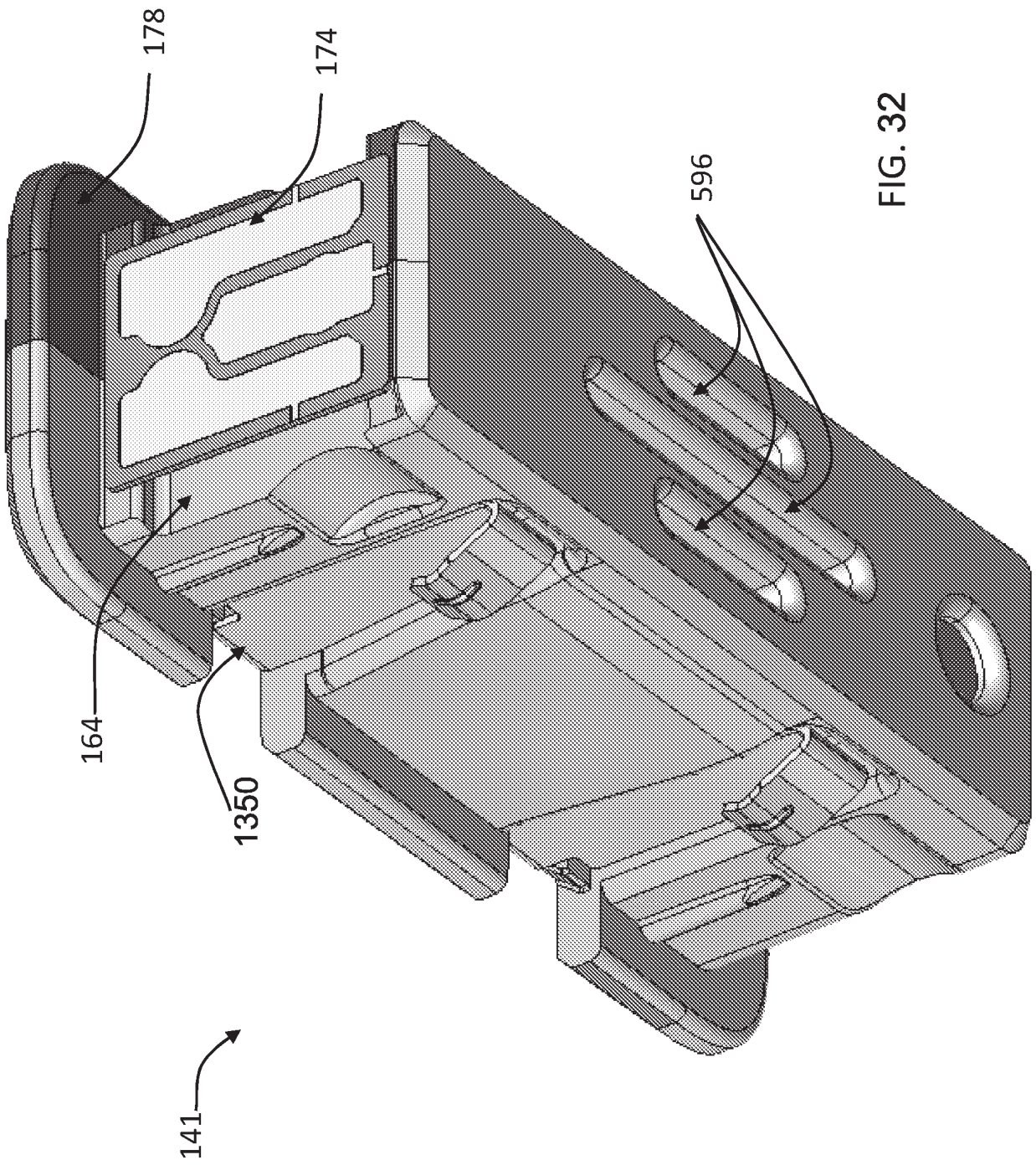


FIG. 32

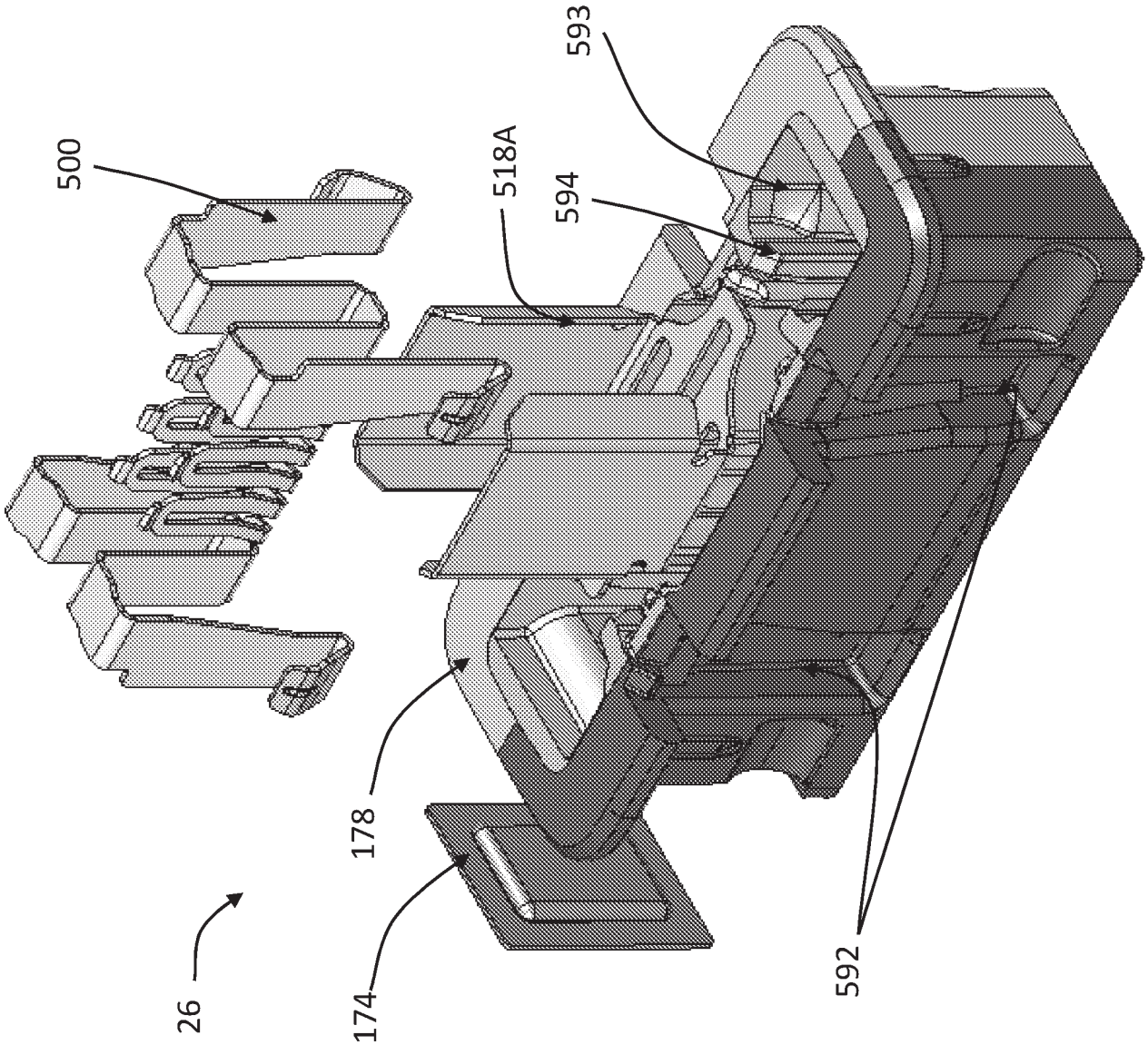


FIG. 33

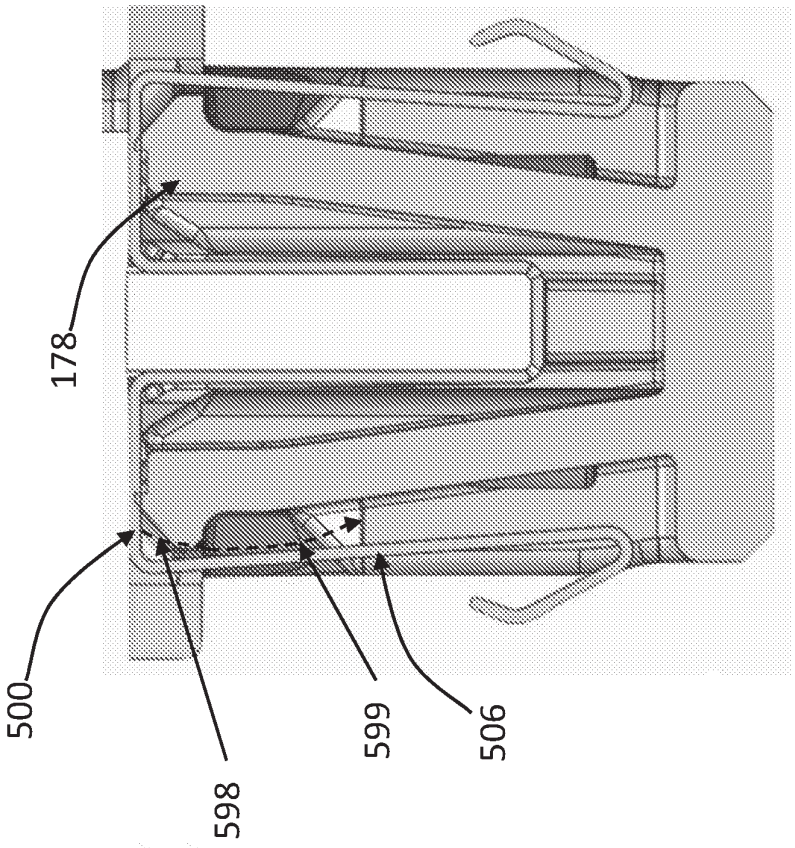


FIG. 34B

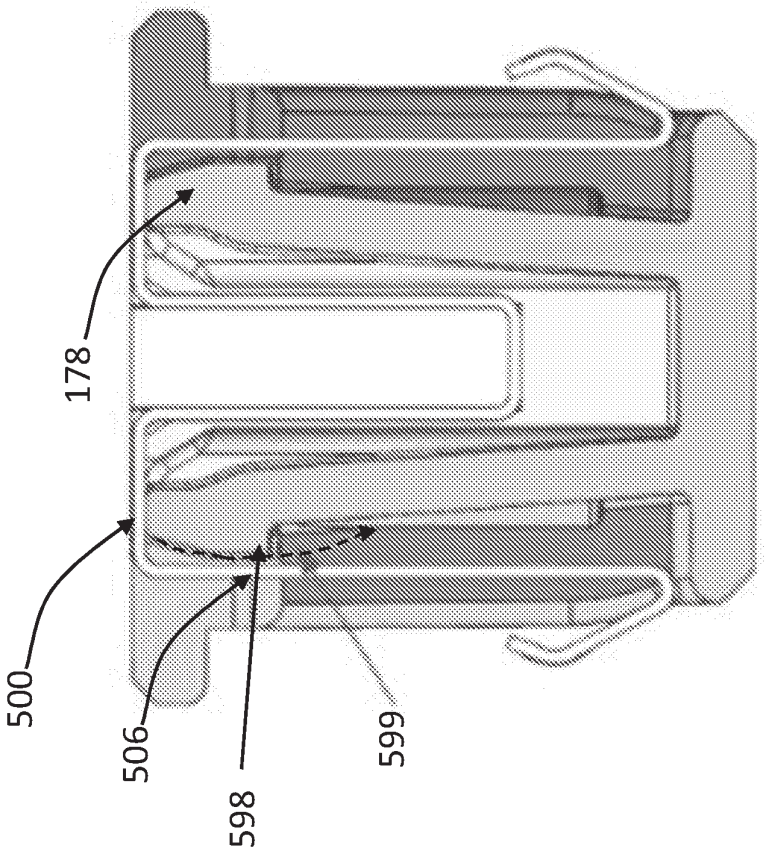


FIG. 34A

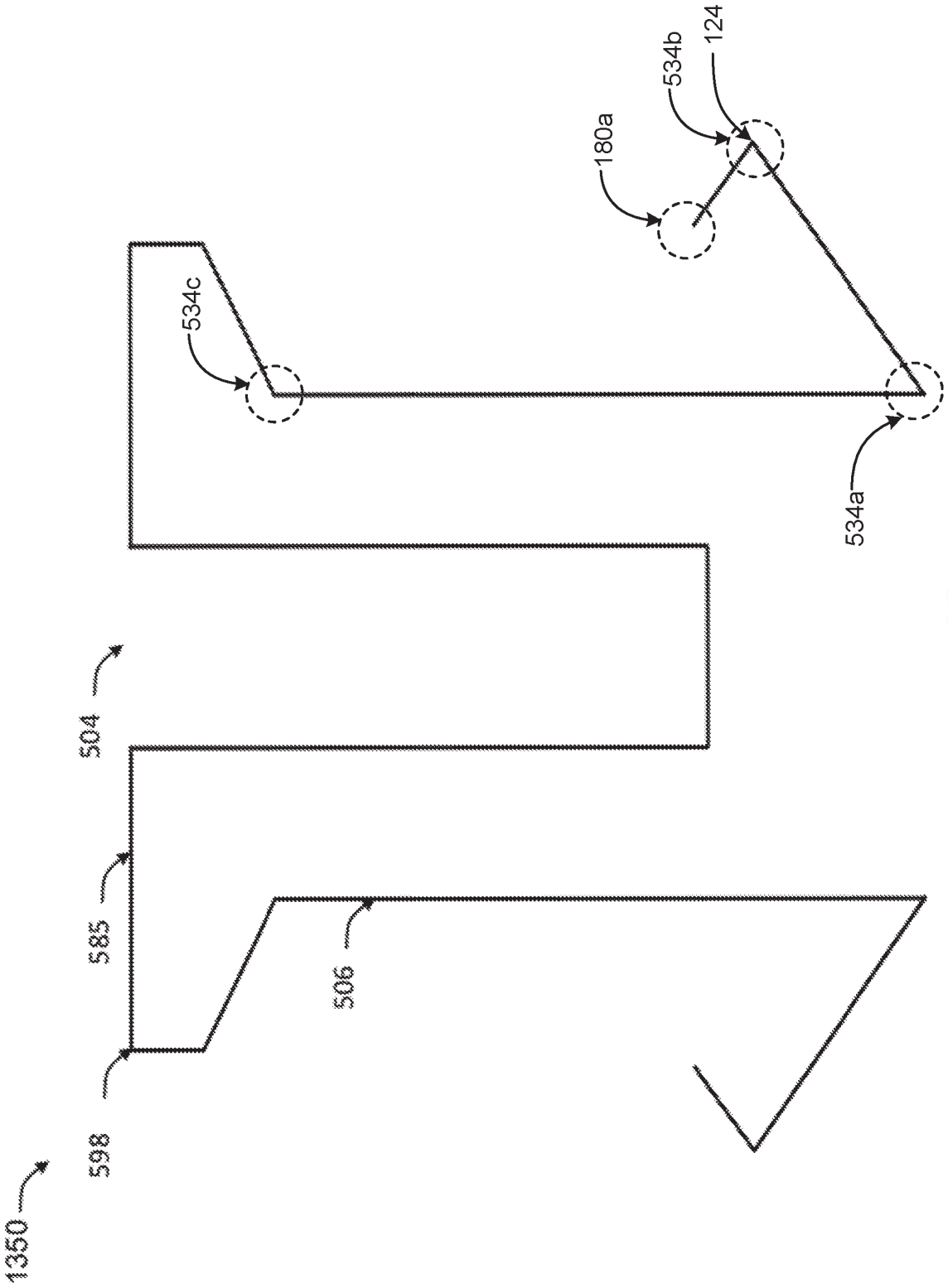


FIG. 35

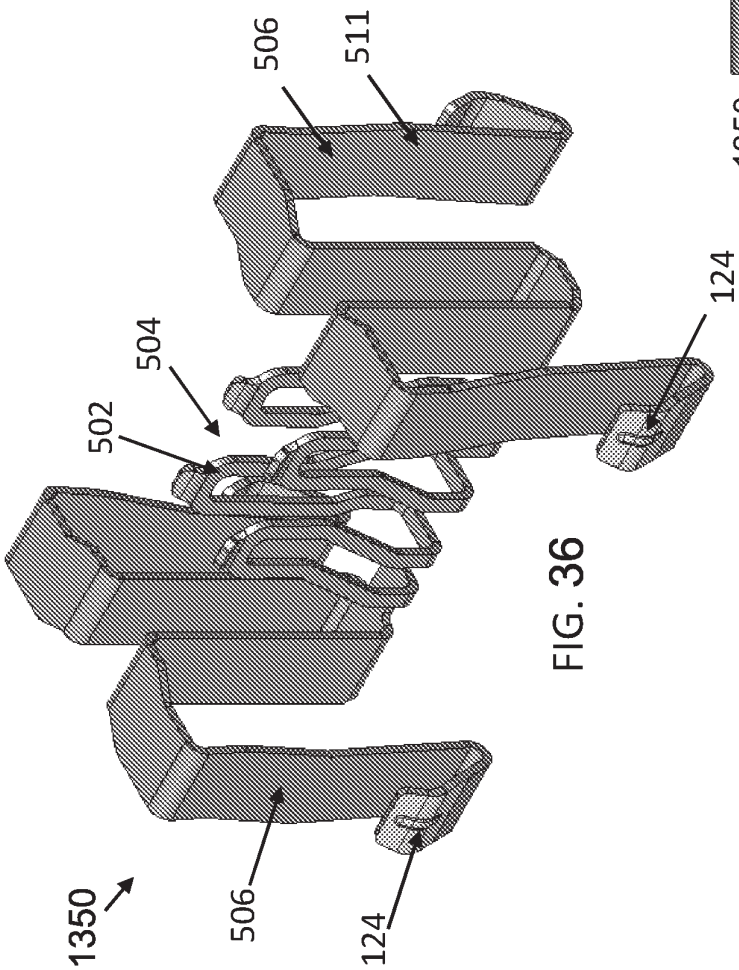

1350
506
124
502
504
506
511
124

FIG. 36

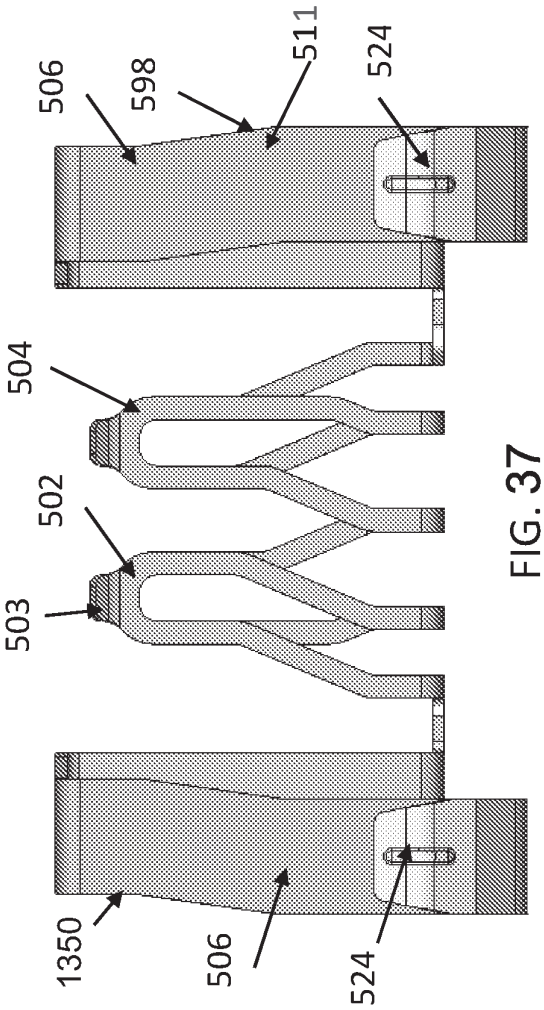

1350
506
524
503
502
504
506
598
511
524

FIG. 37

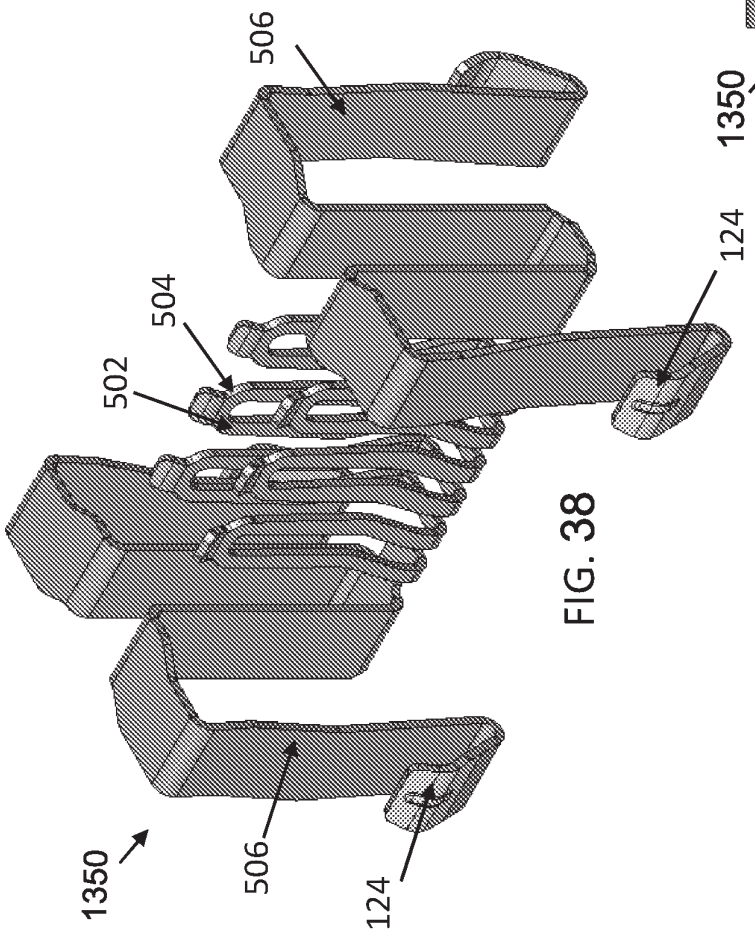

1350
506
124
506
504
502
124

FIG. 38

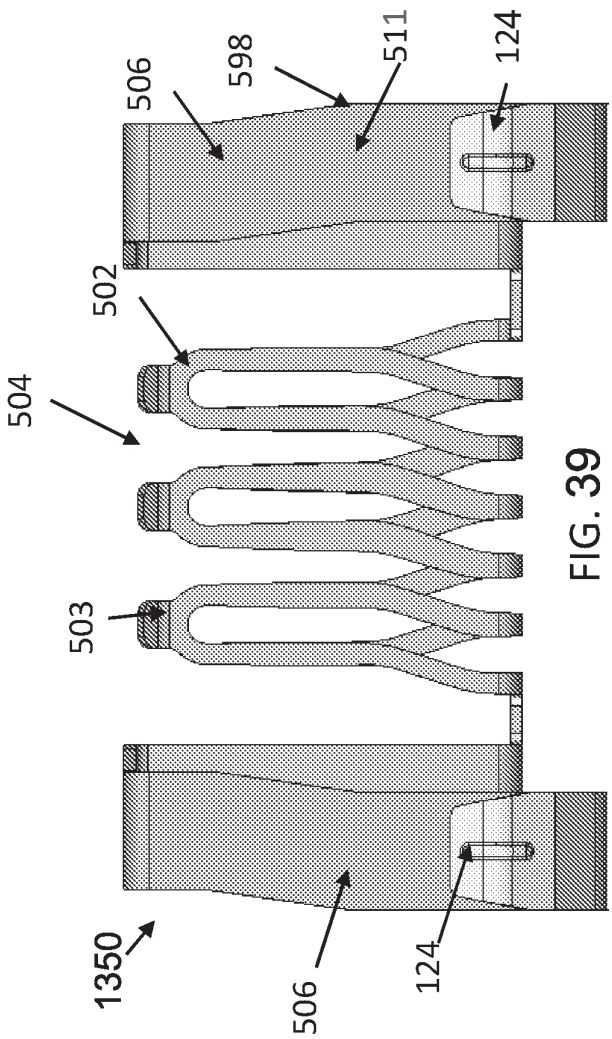

506
598
511
124
502
504
503
1350
506
124

FIG. 39

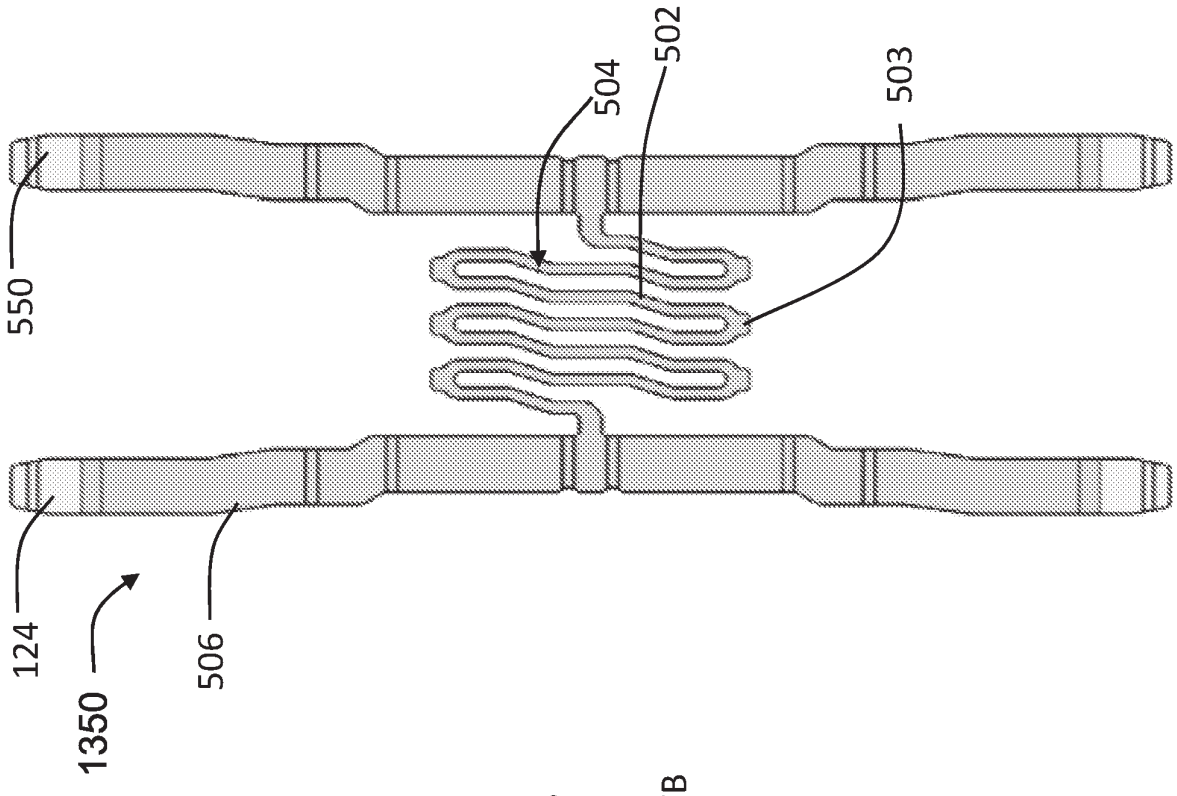

550
504
502
503
124
1350
506

FIG. 41

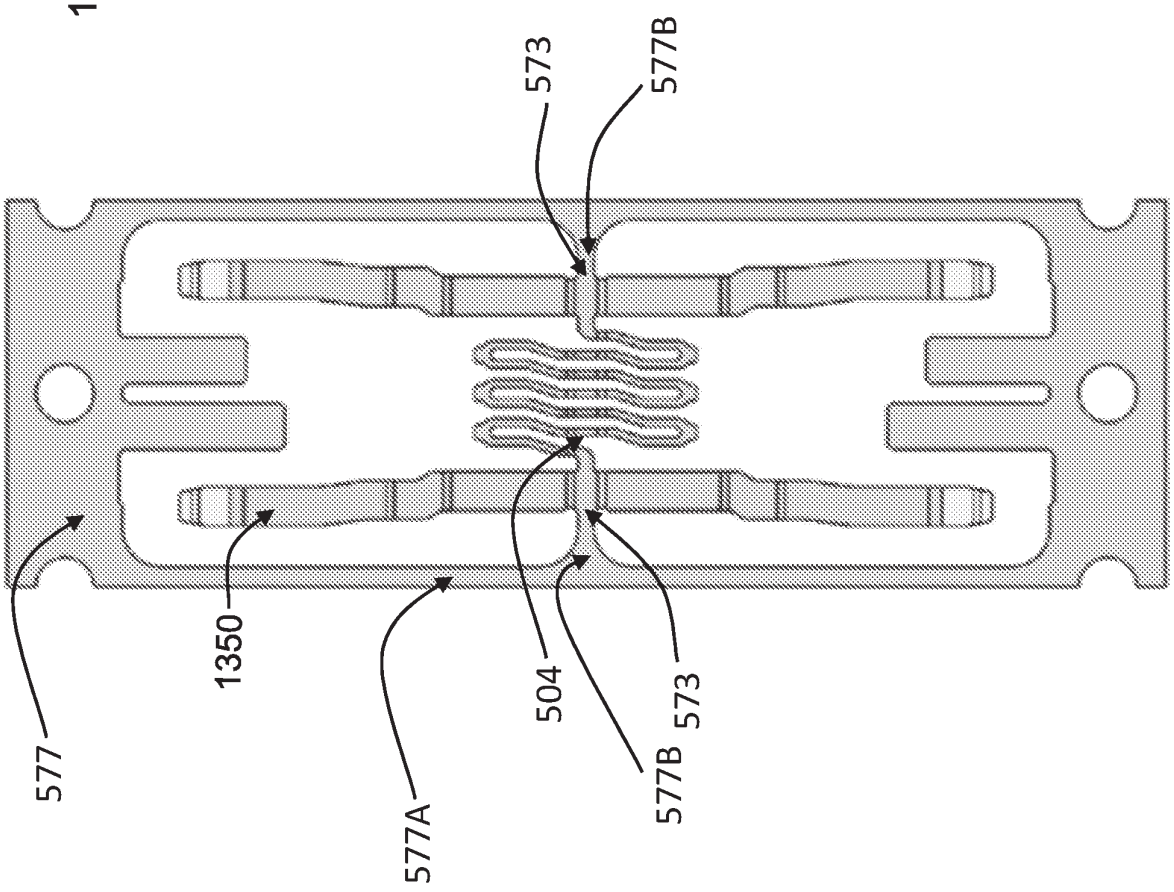

573
577B
577
1350
577A
504
573
577B

FIG. 40

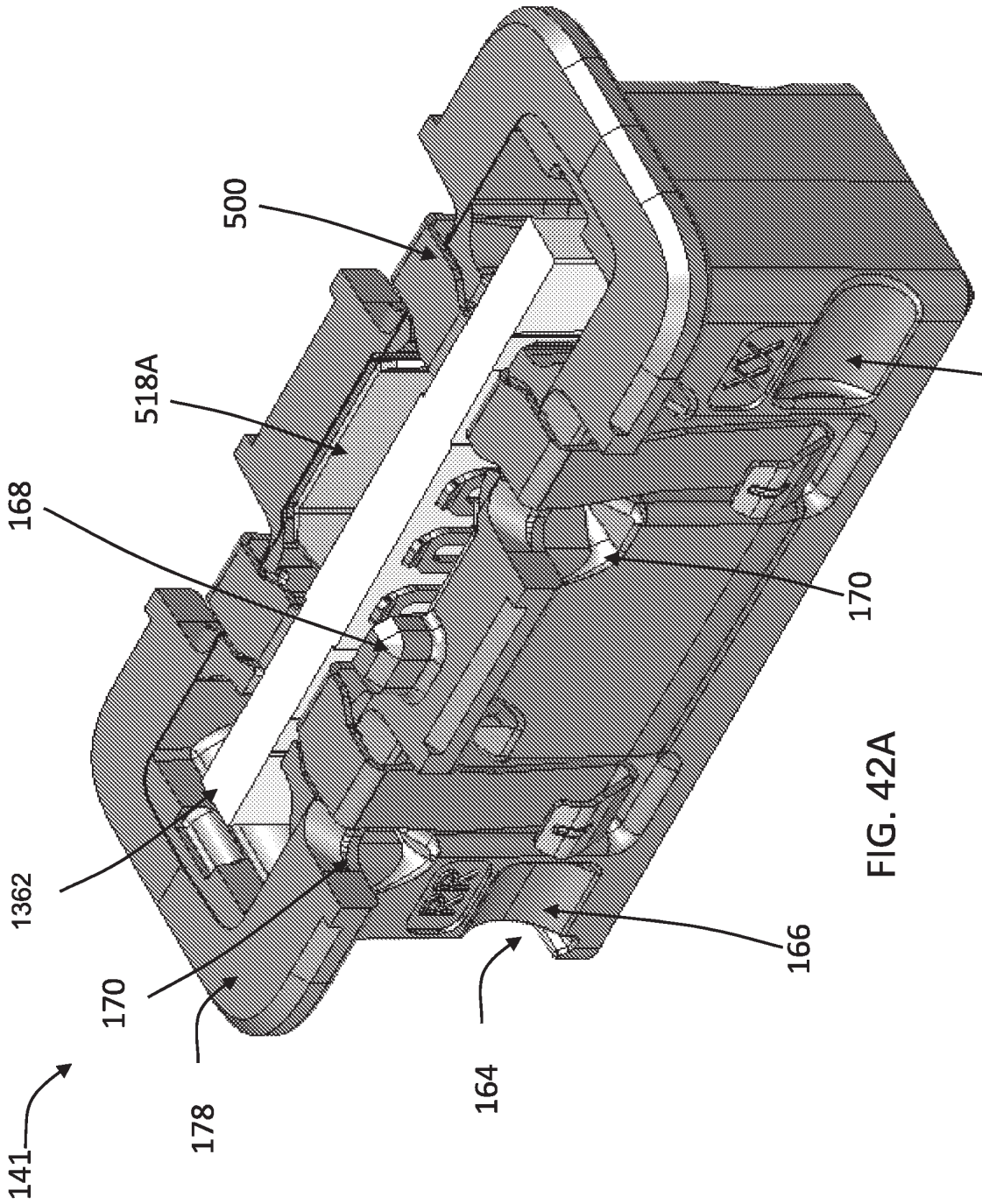


FIG. 42A

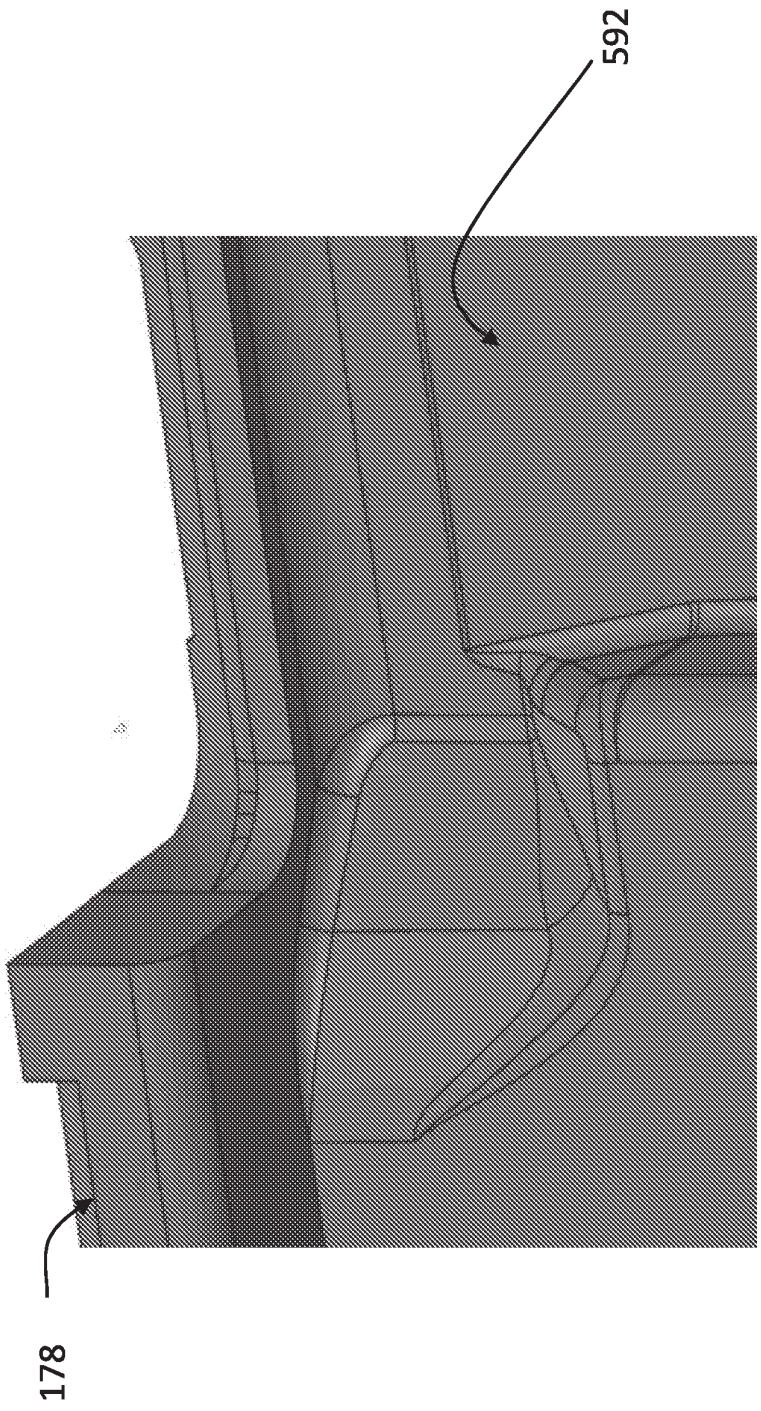


FIG. 42B

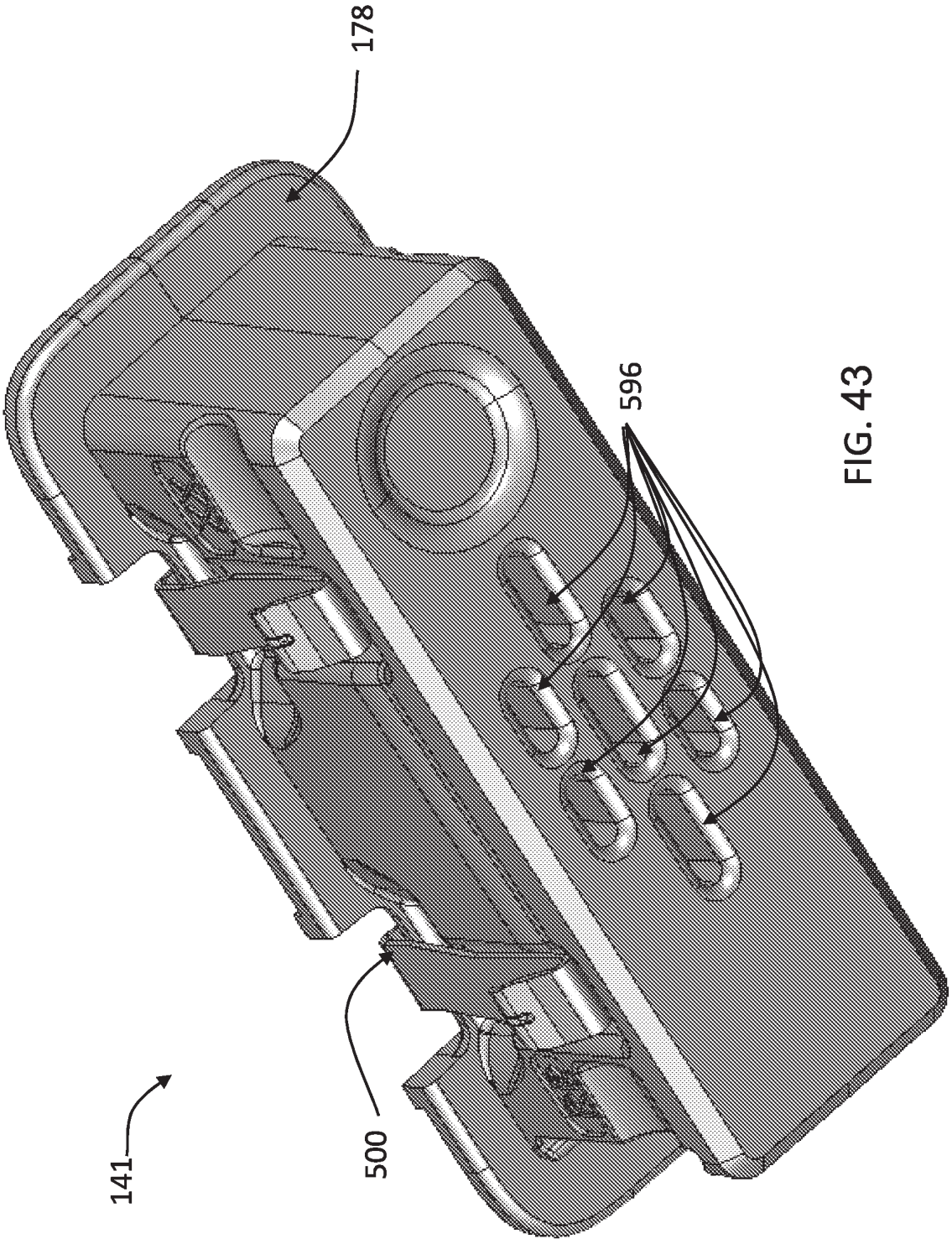


FIG. 43

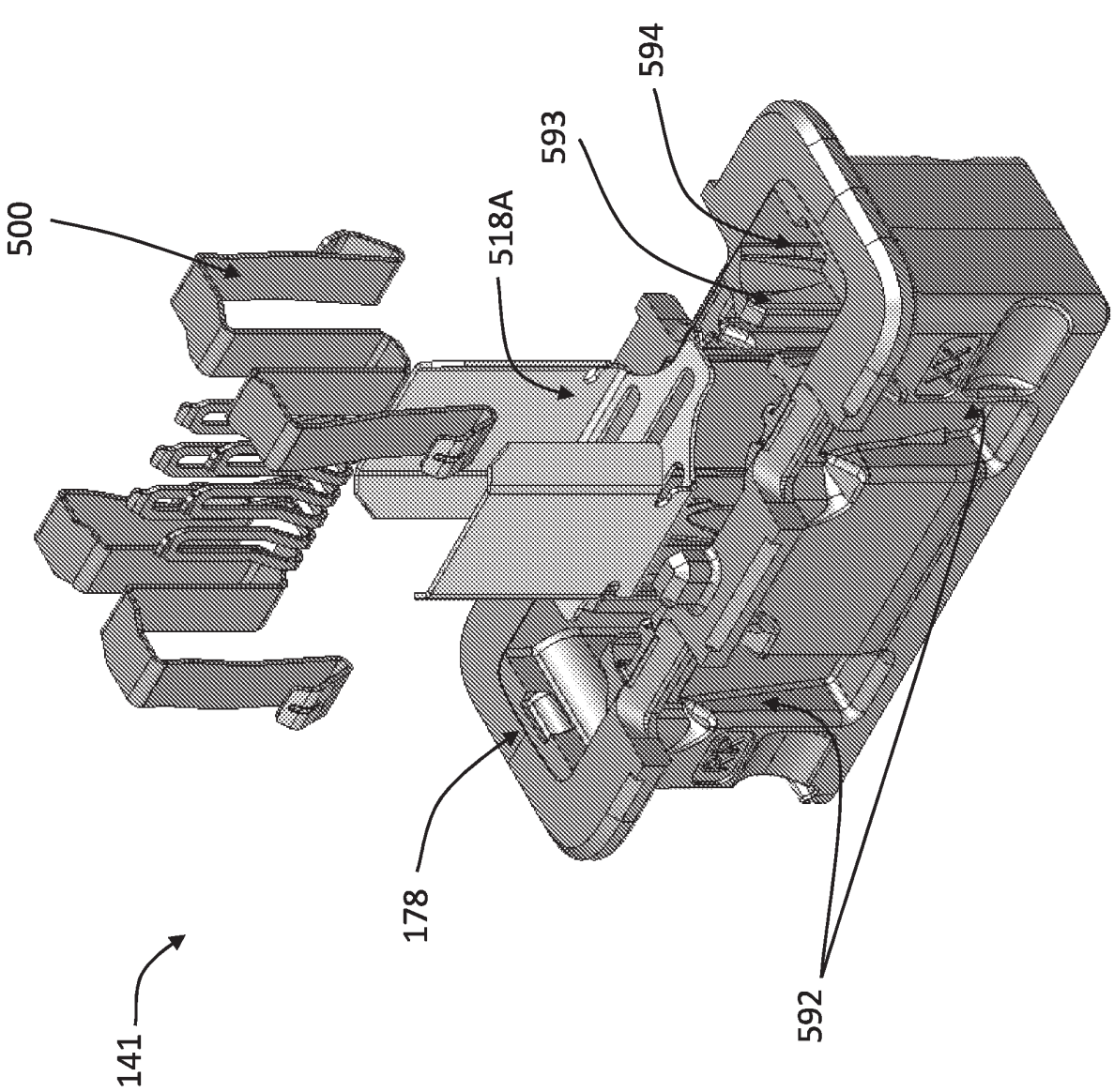


FIG. 44

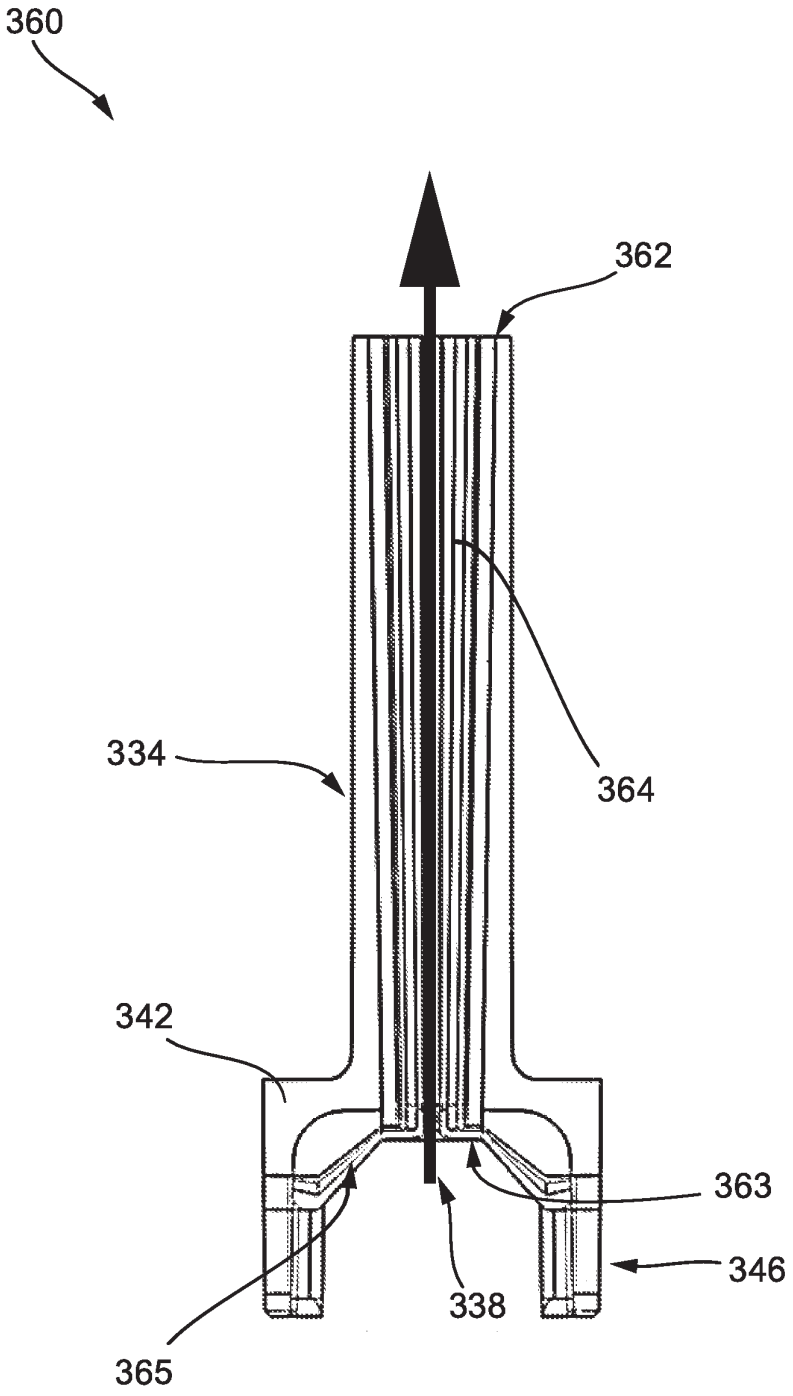


FIG. 45A

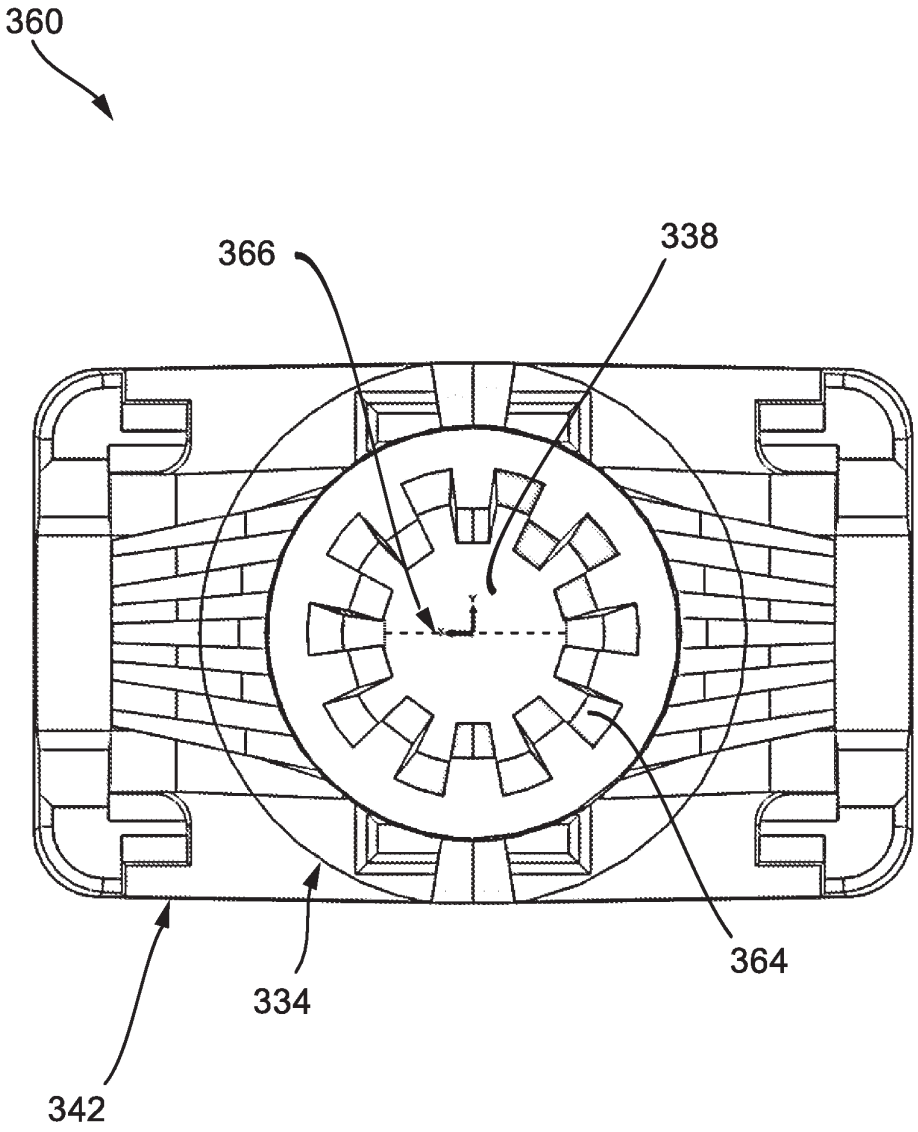


FIG. 45B

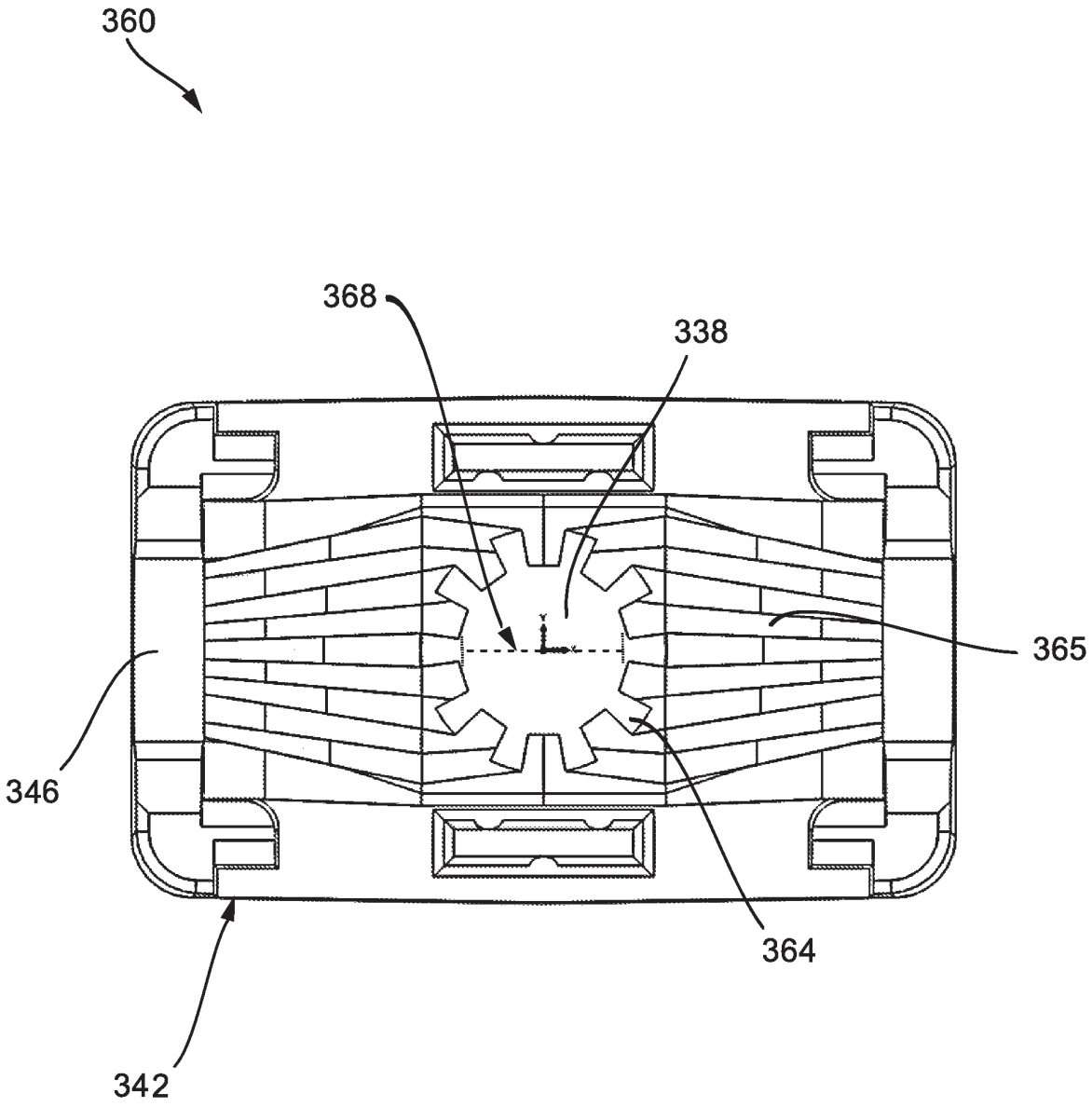


FIG. 45C

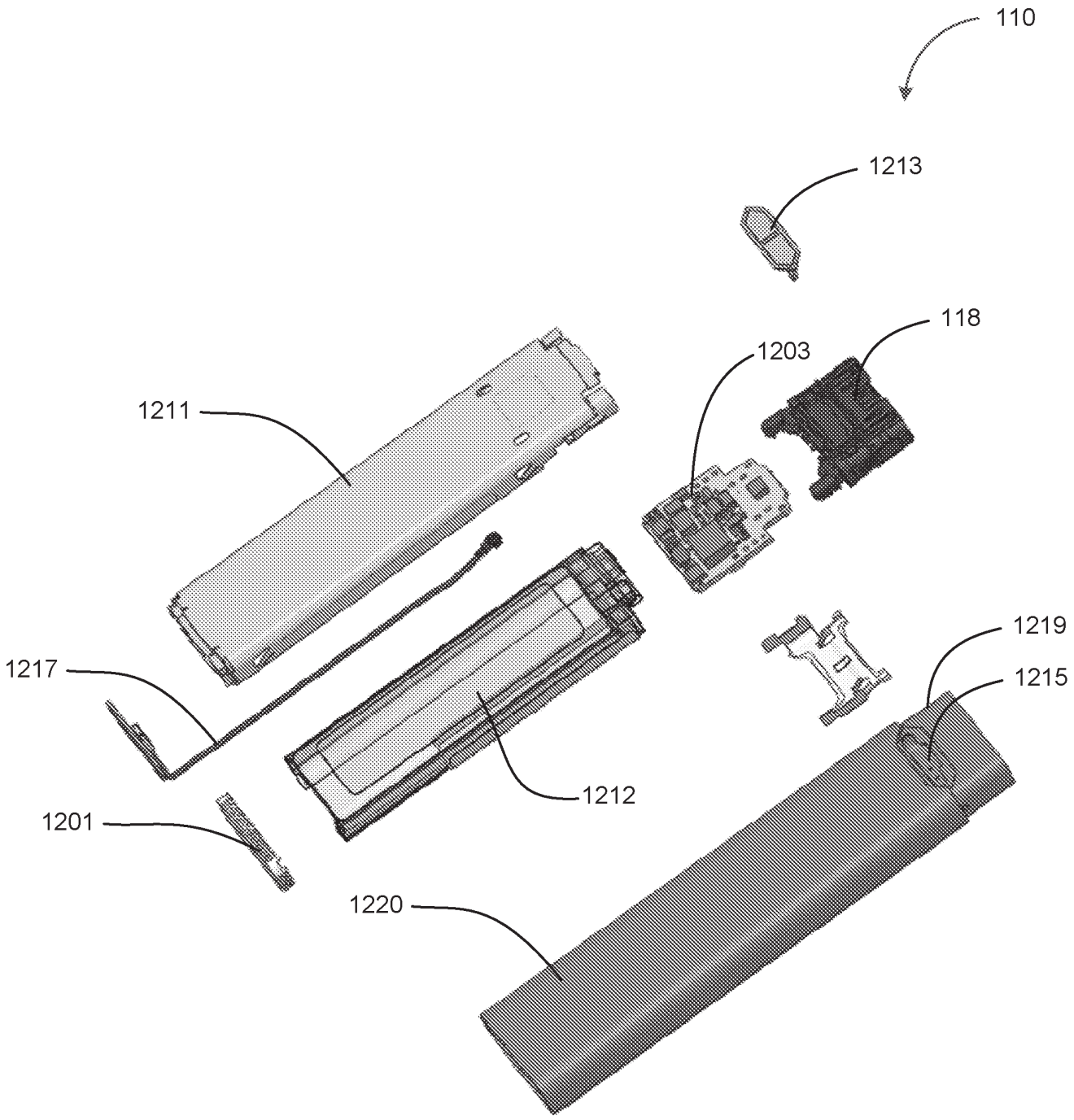


FIG. 46

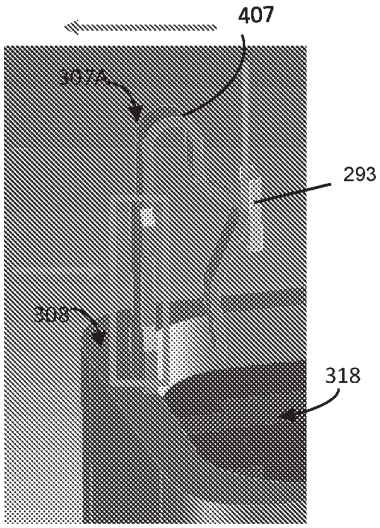


FIG. 47A

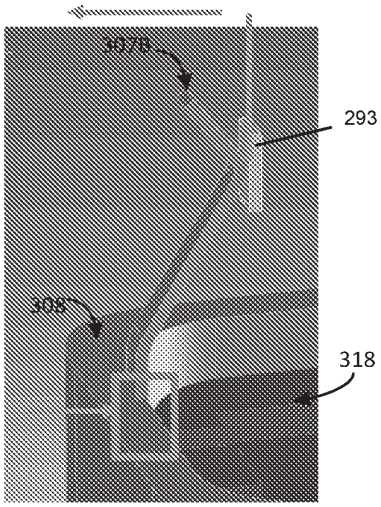


FIG. 47B

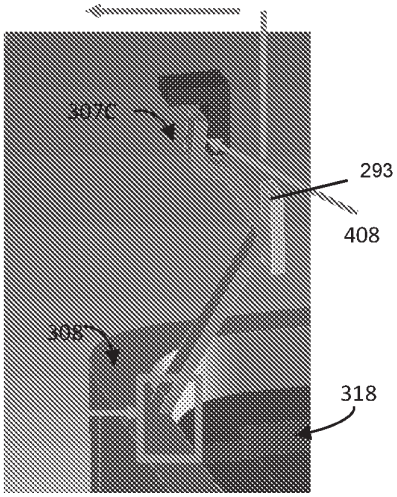


FIG. 47C

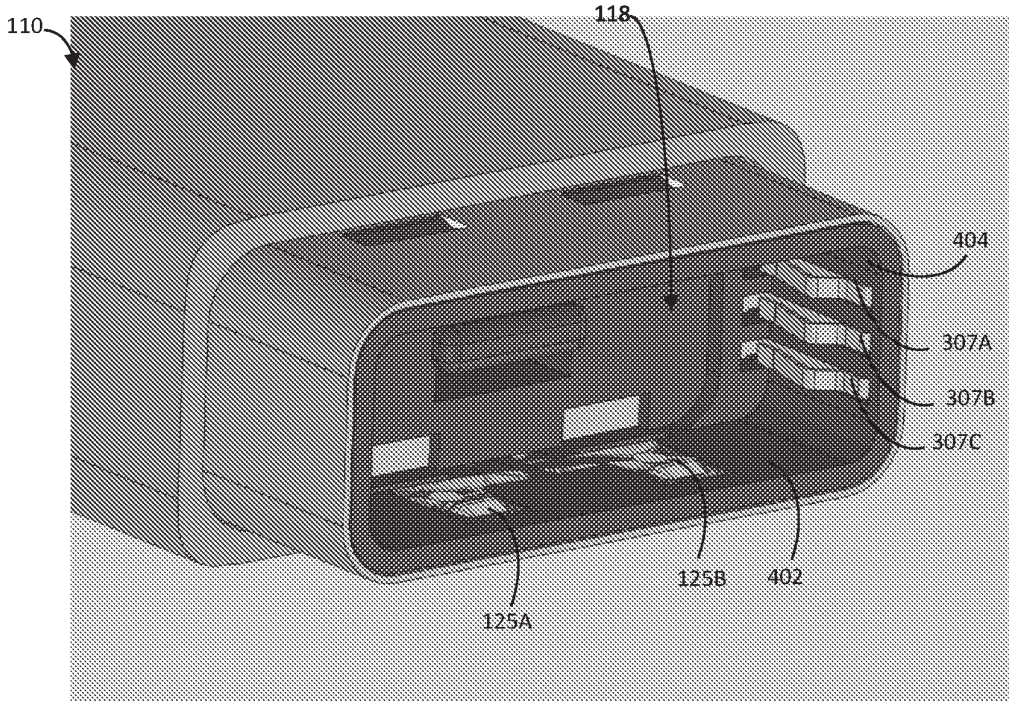


FIG. 47D

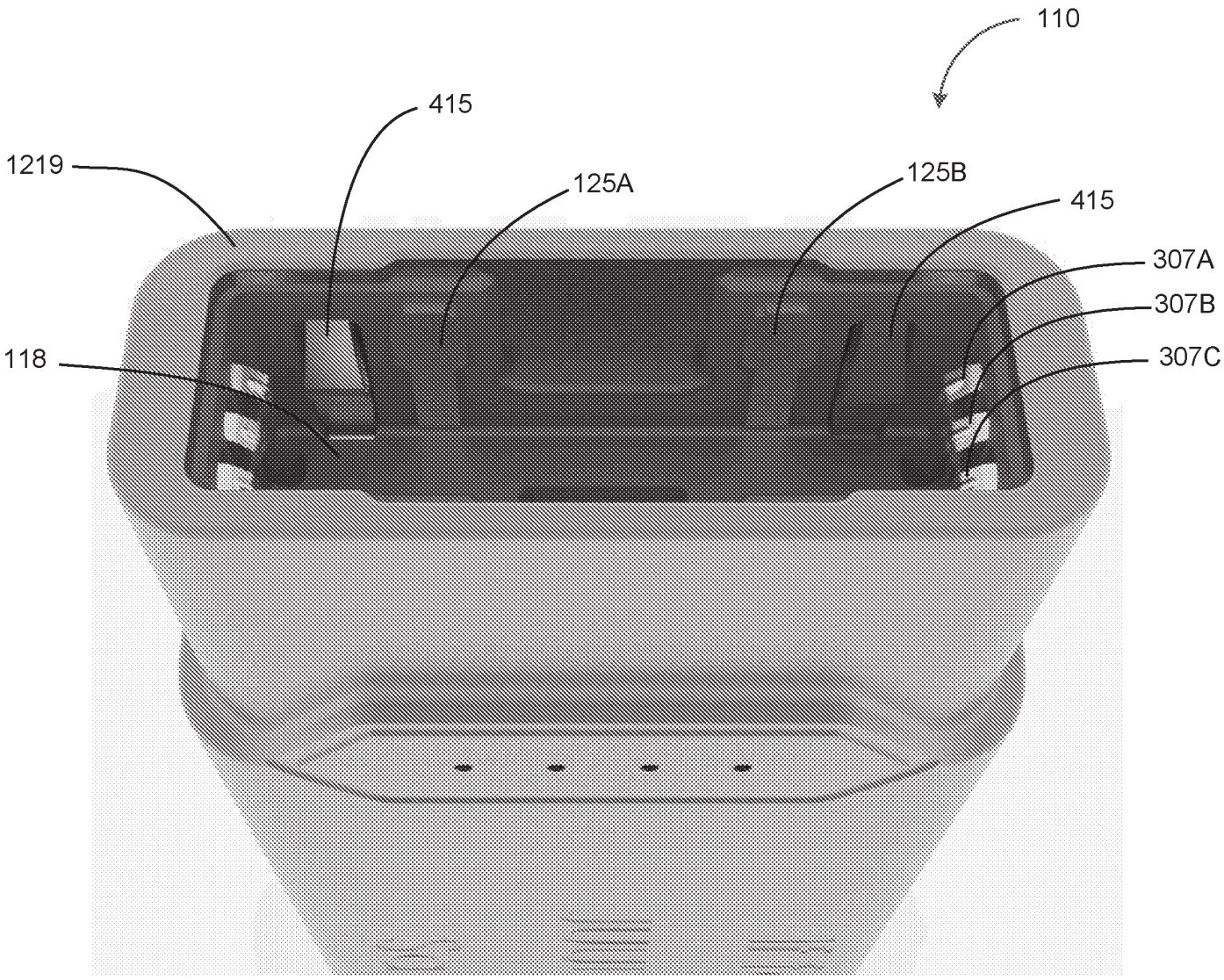


FIG. 47E

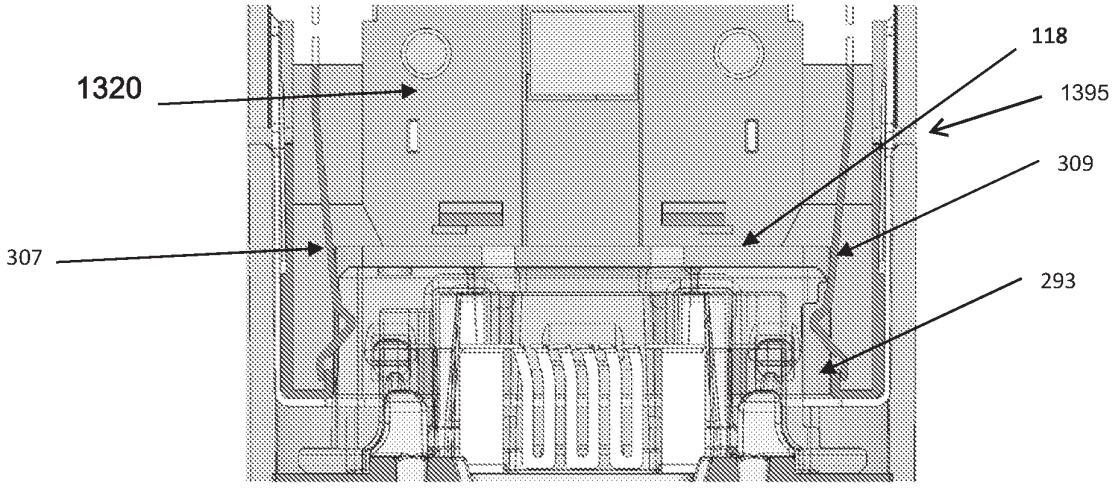


FIG. 48A

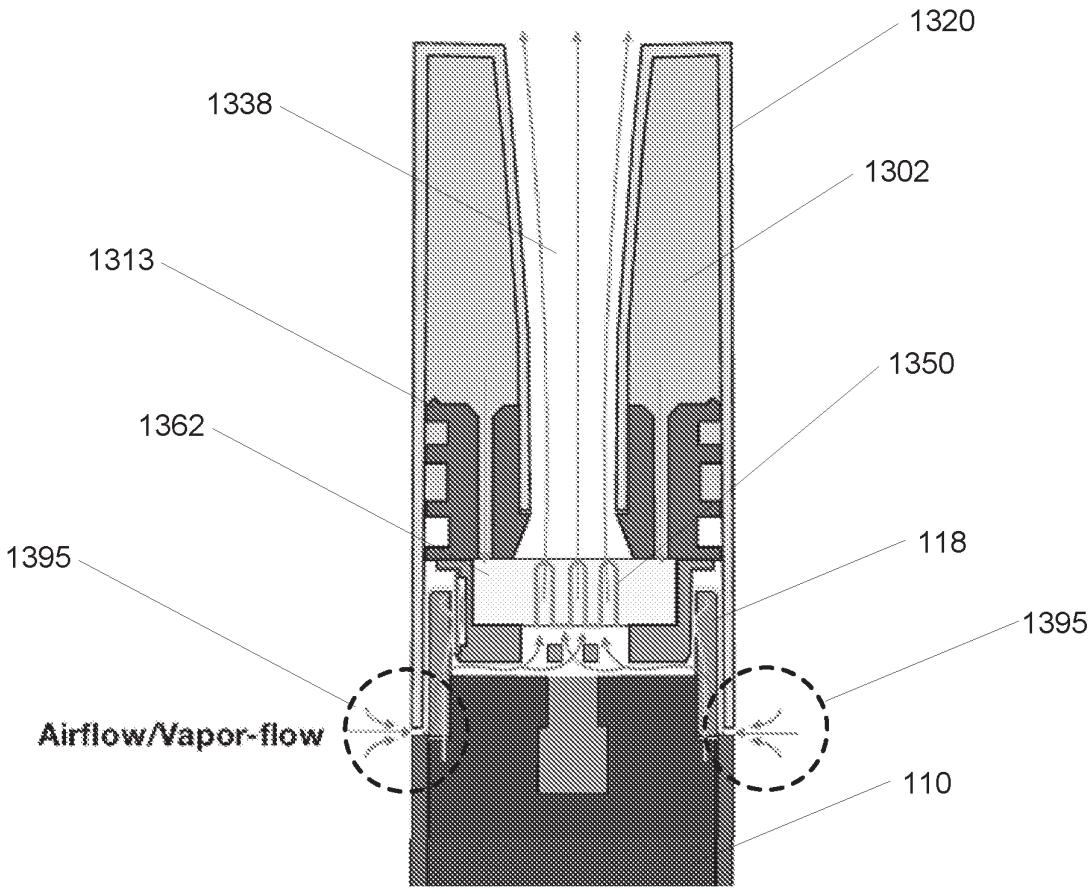

1320
1338
1302
1313
1350
1362
118
1395
1395
Airflow/Vapor-flow
110

FIG. 48B

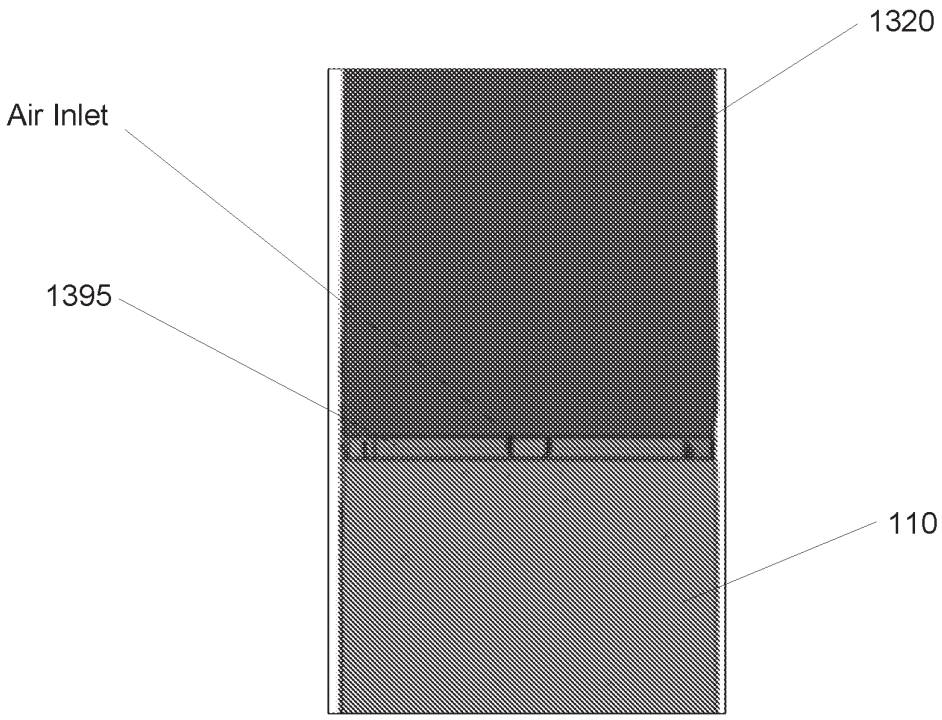


FIG. 48C

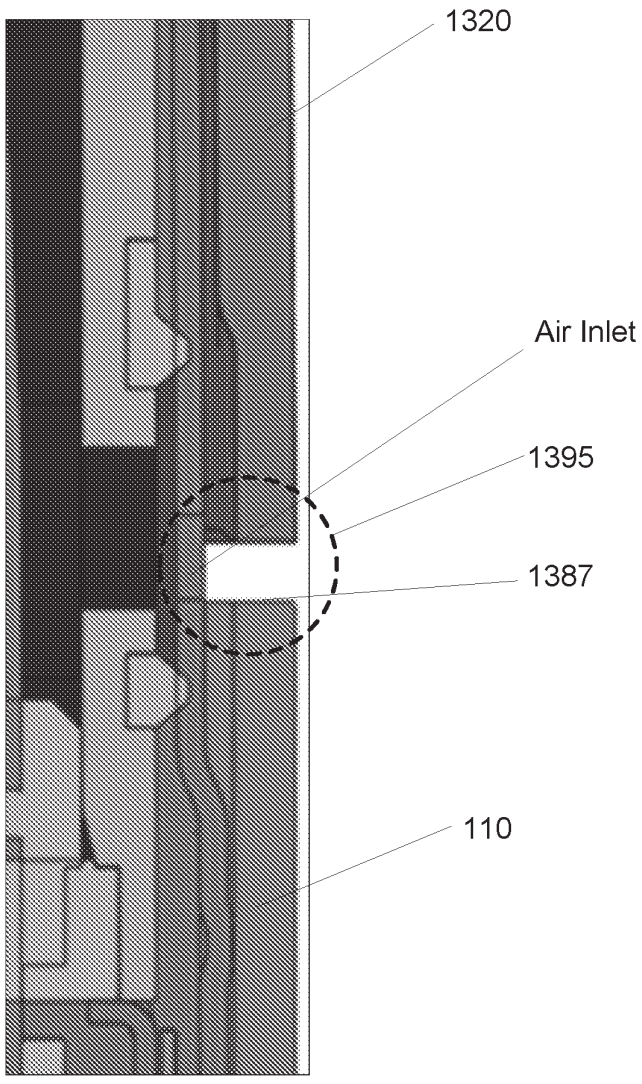


FIG. 48D

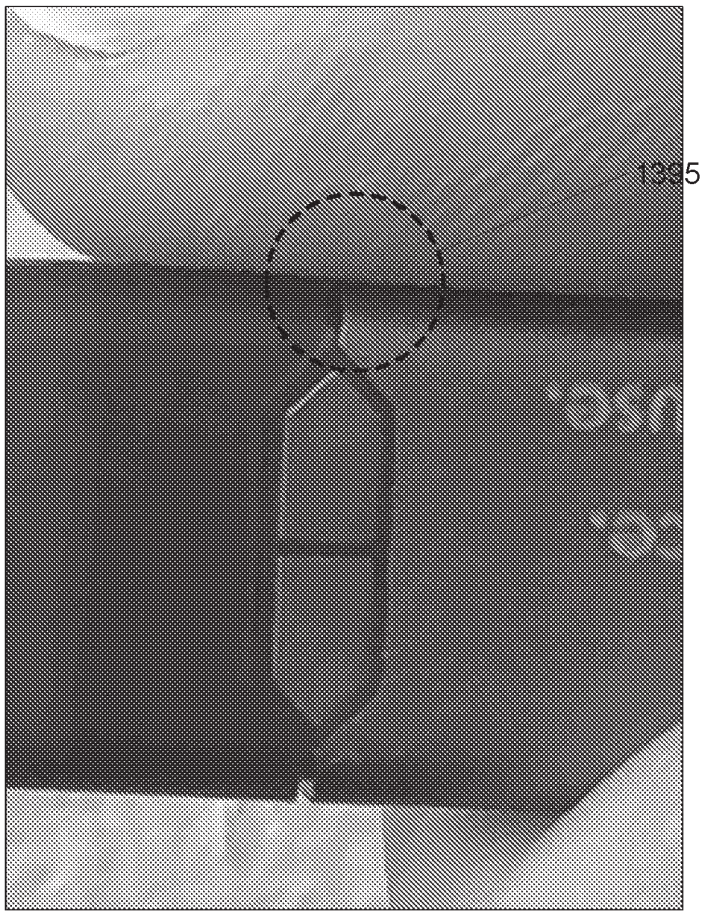


FIG. 48E

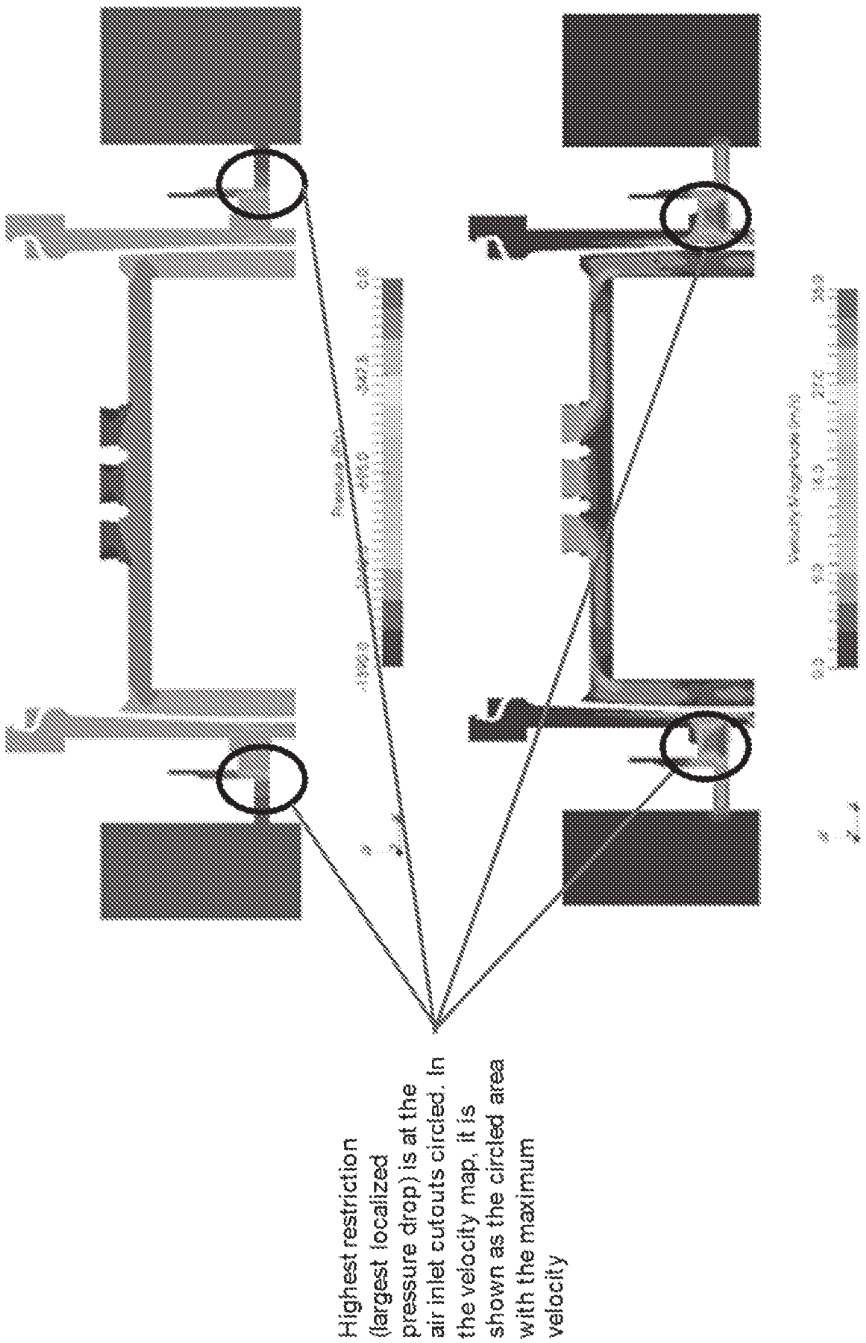

Highest restriction (largest localized pressure drop) is at the air inlet cutouts circled. In the velocity map, it is shown as the circled area with the maximum velocity

FIG. 48F

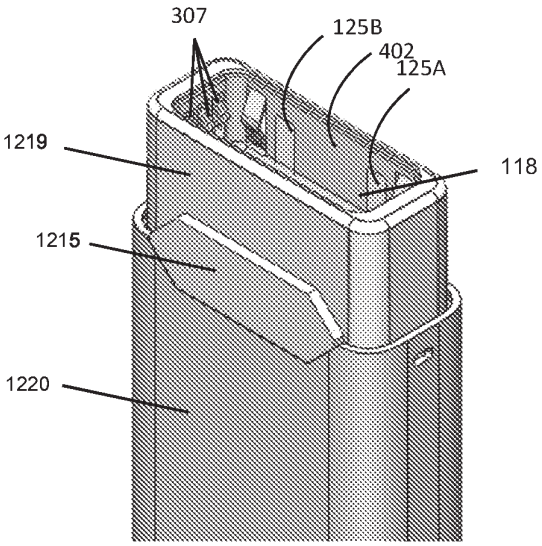


FIG. 49A

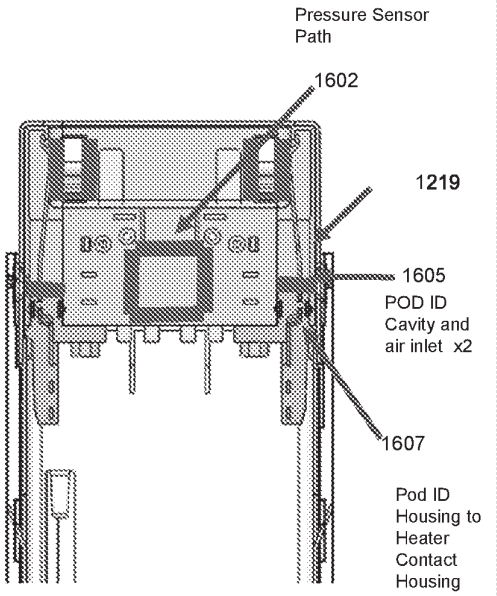


FIG. 49B

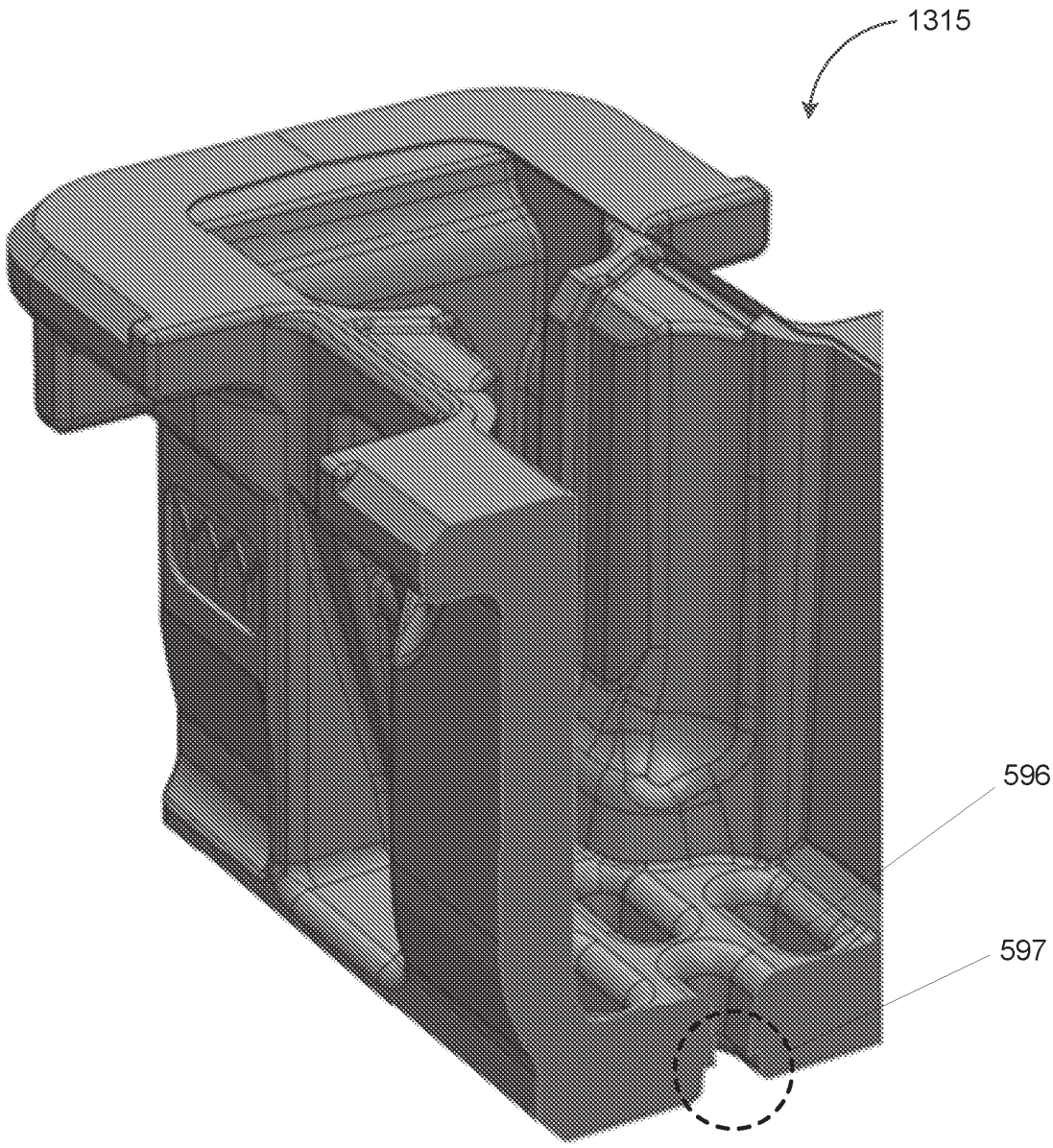


FIG. 50A

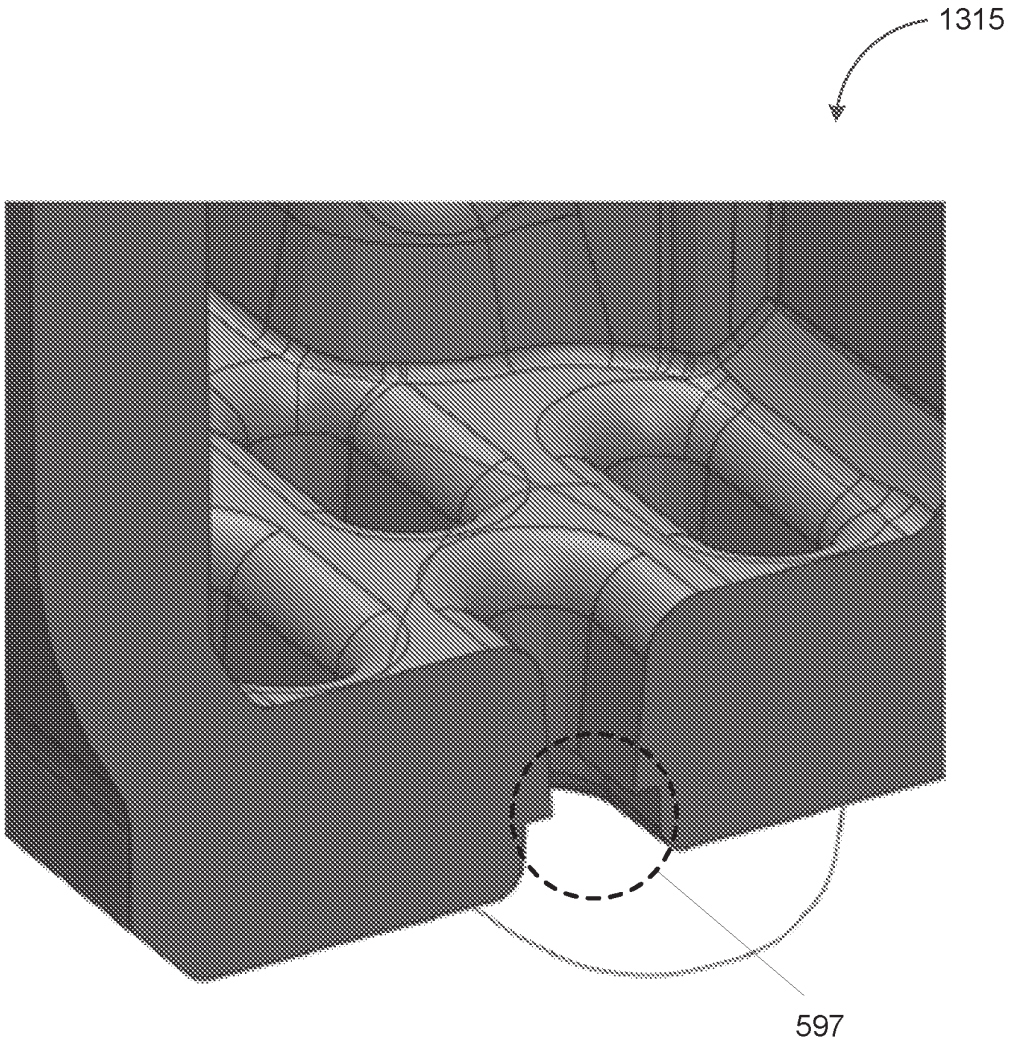


FIG. 50B

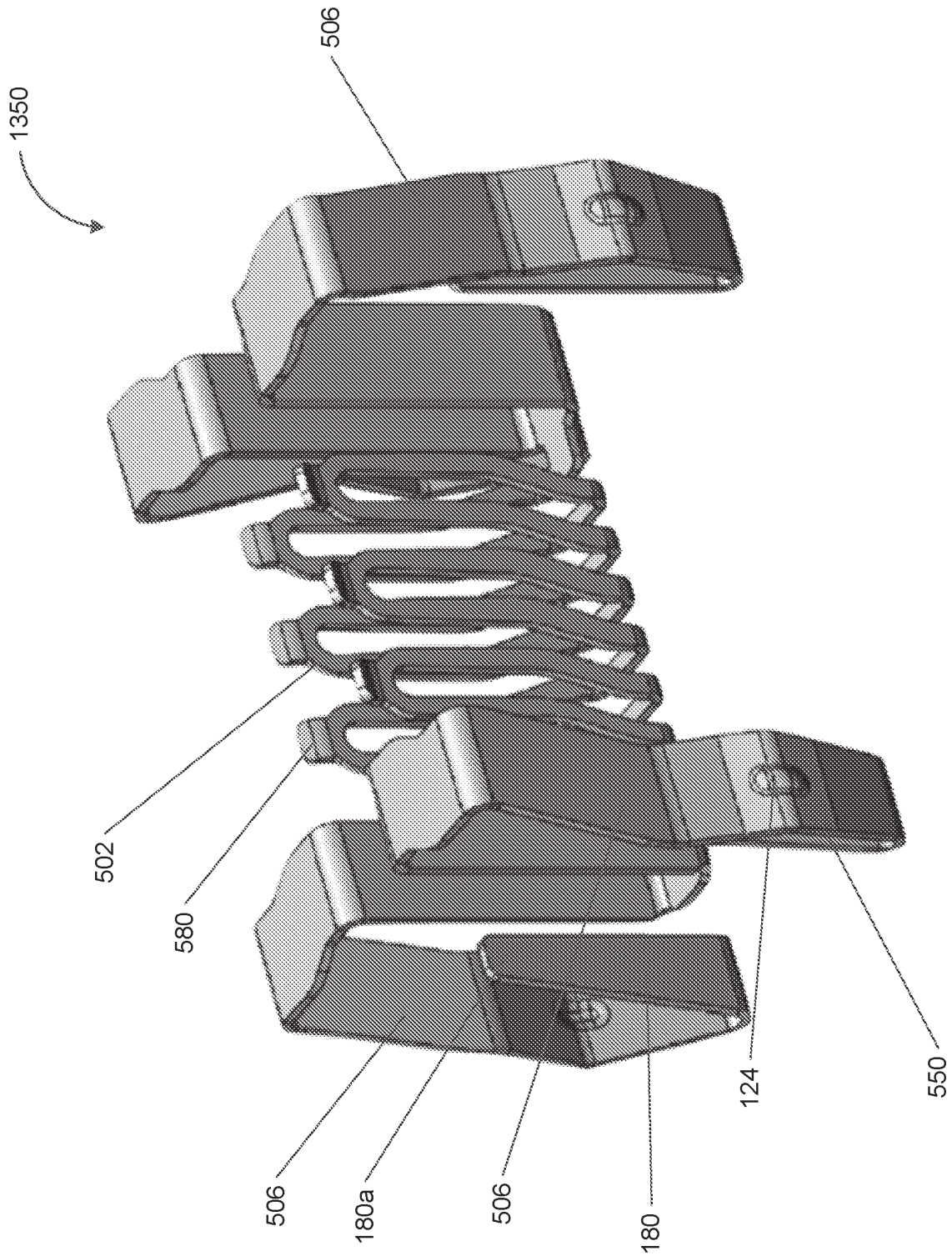


FIG. 51A

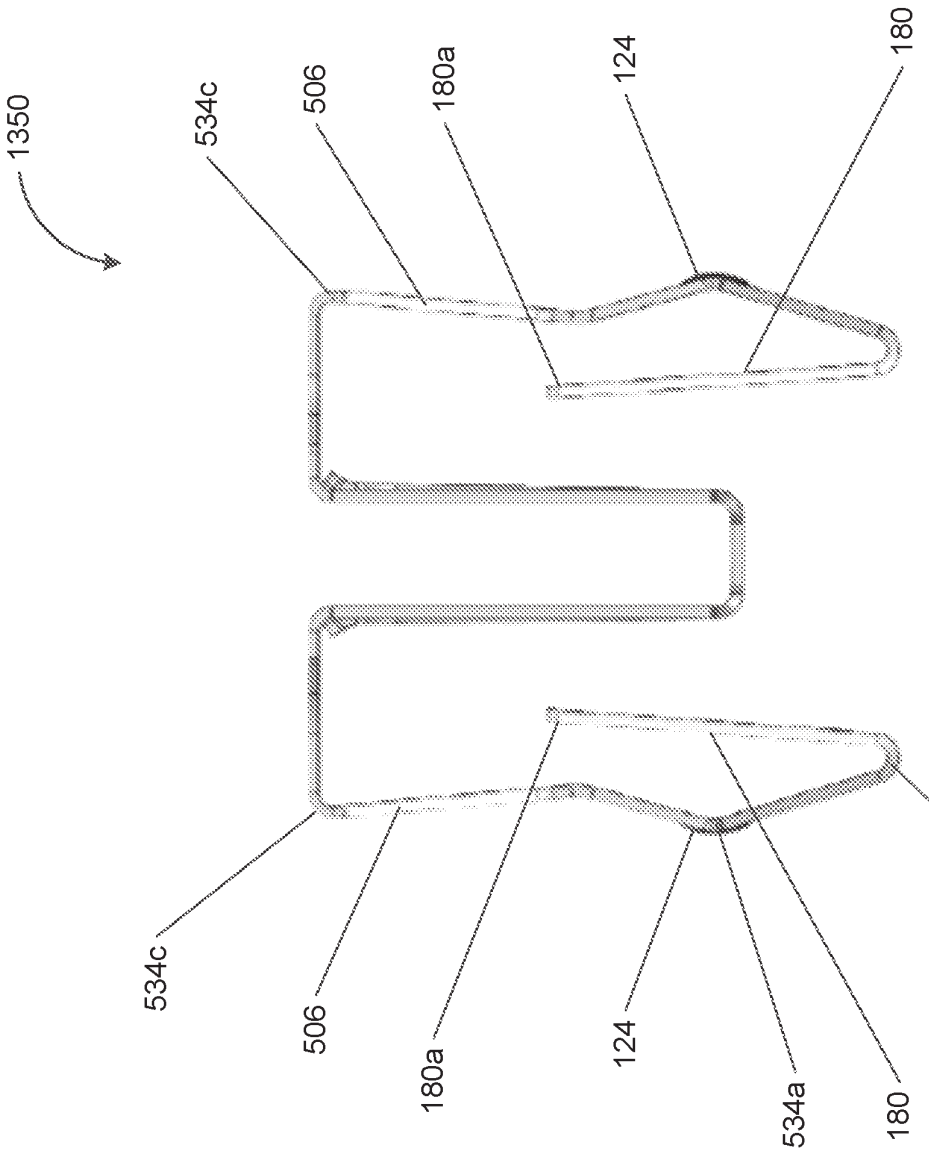


FIG. 51B

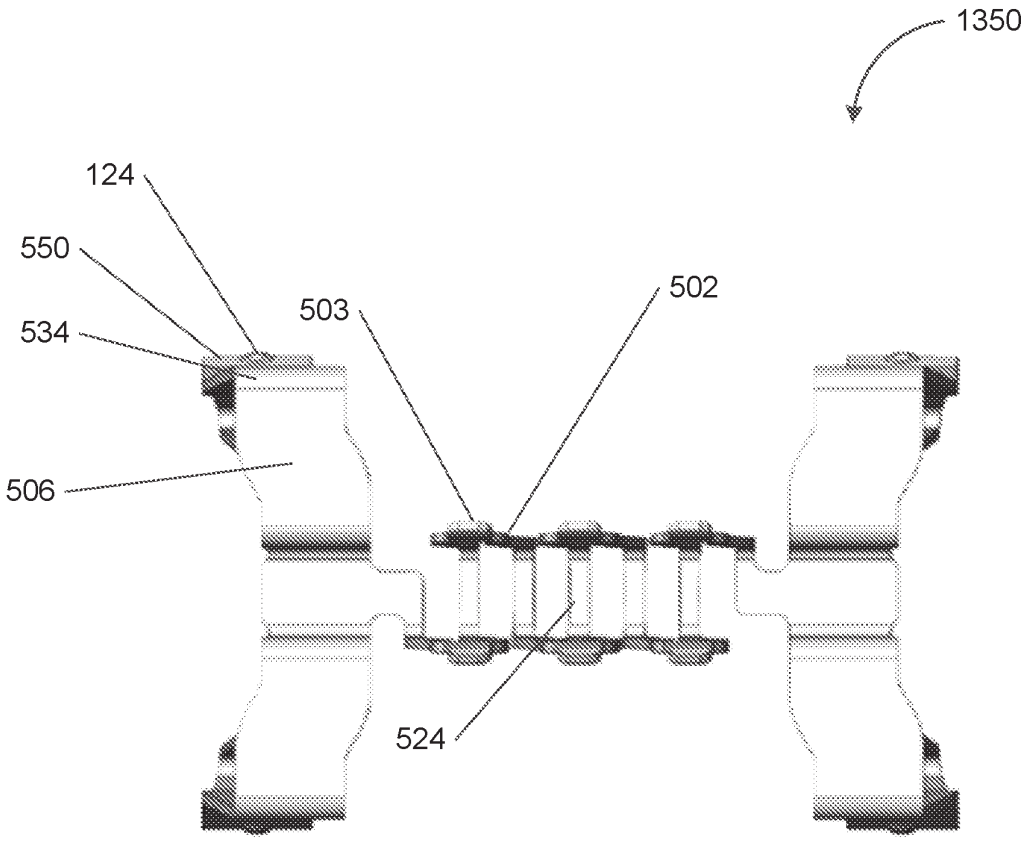


FIG. 51C

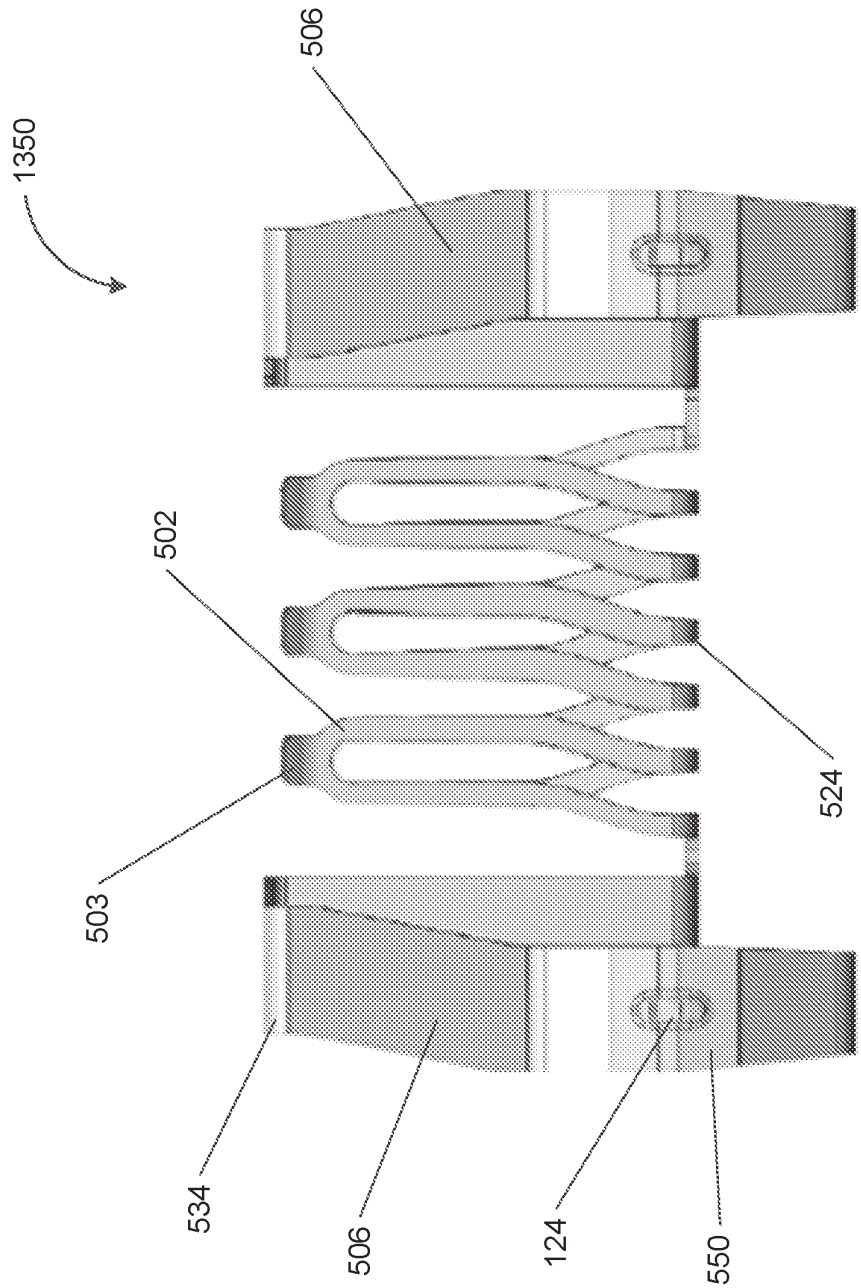


FIG. 51D

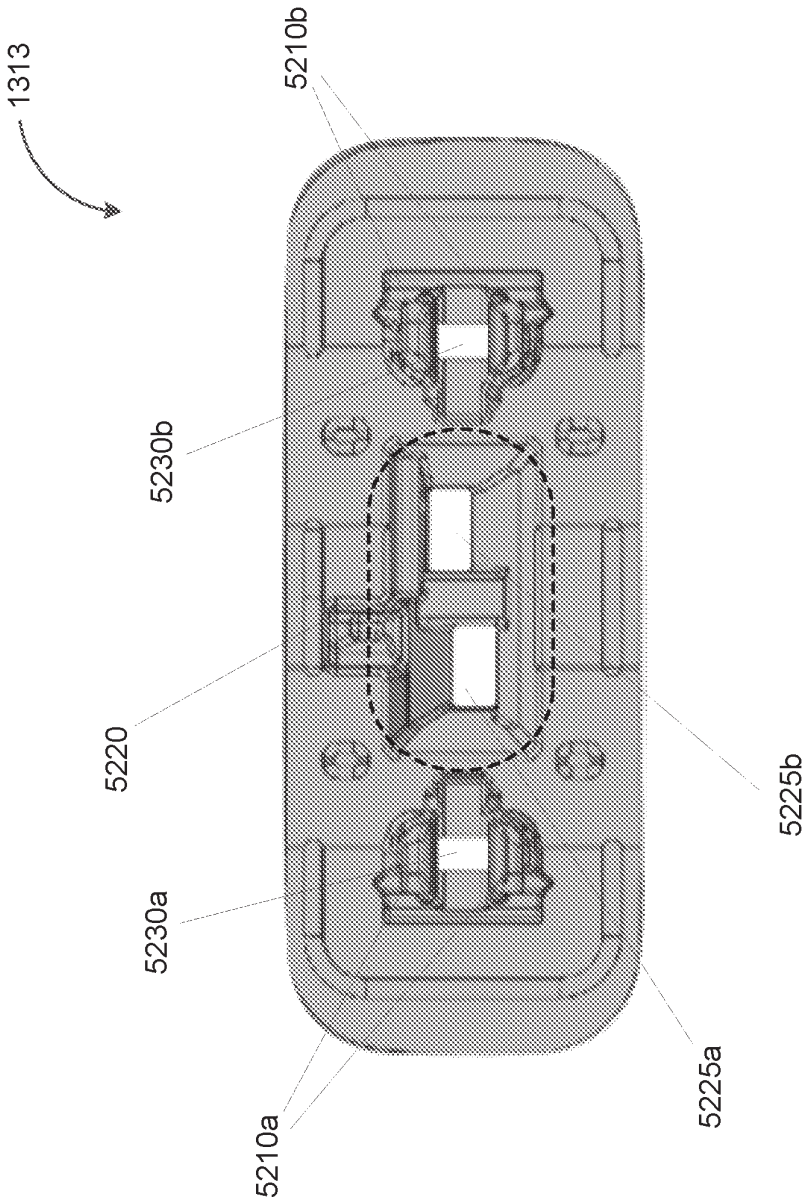


FIG. 52A

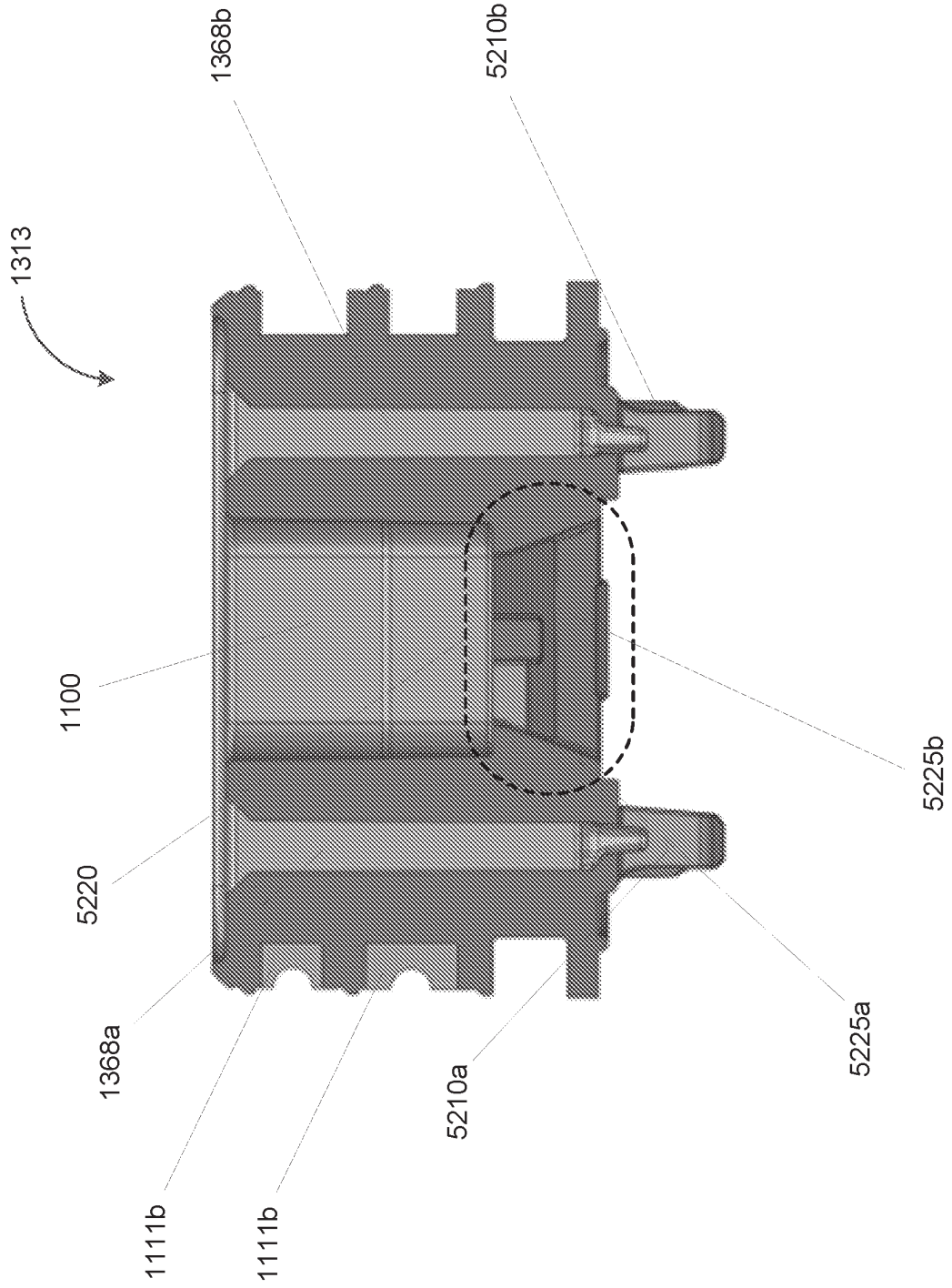

1313
1368b
5210b
1100
5220
1368a
1111b
1111b
5210a
5225a
5225b

FIG. 52B

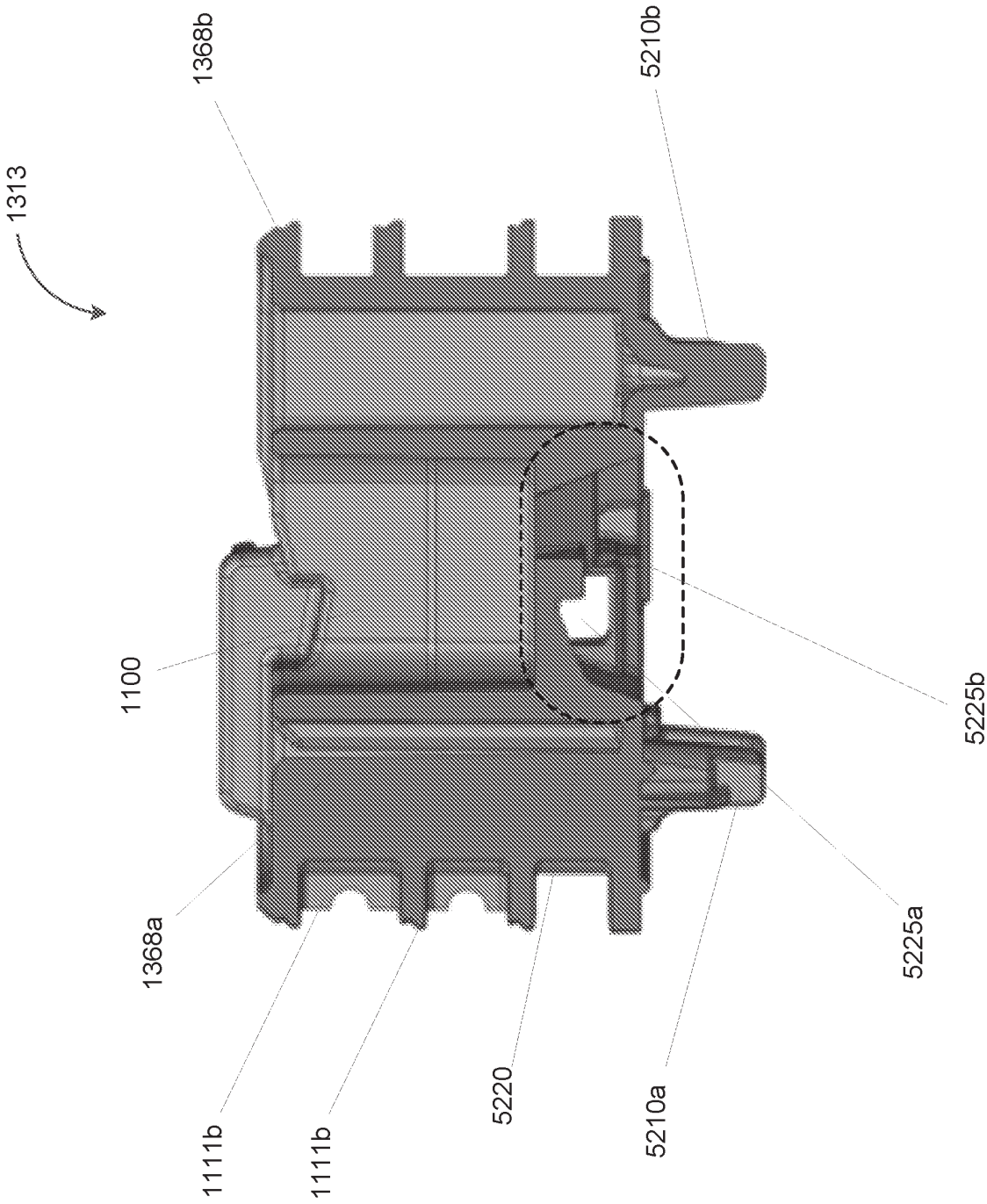

1313
1368b
5210b
1100
5225b
1368a
5225a
1111b
1111b
5220
5210a

FIG. 52C

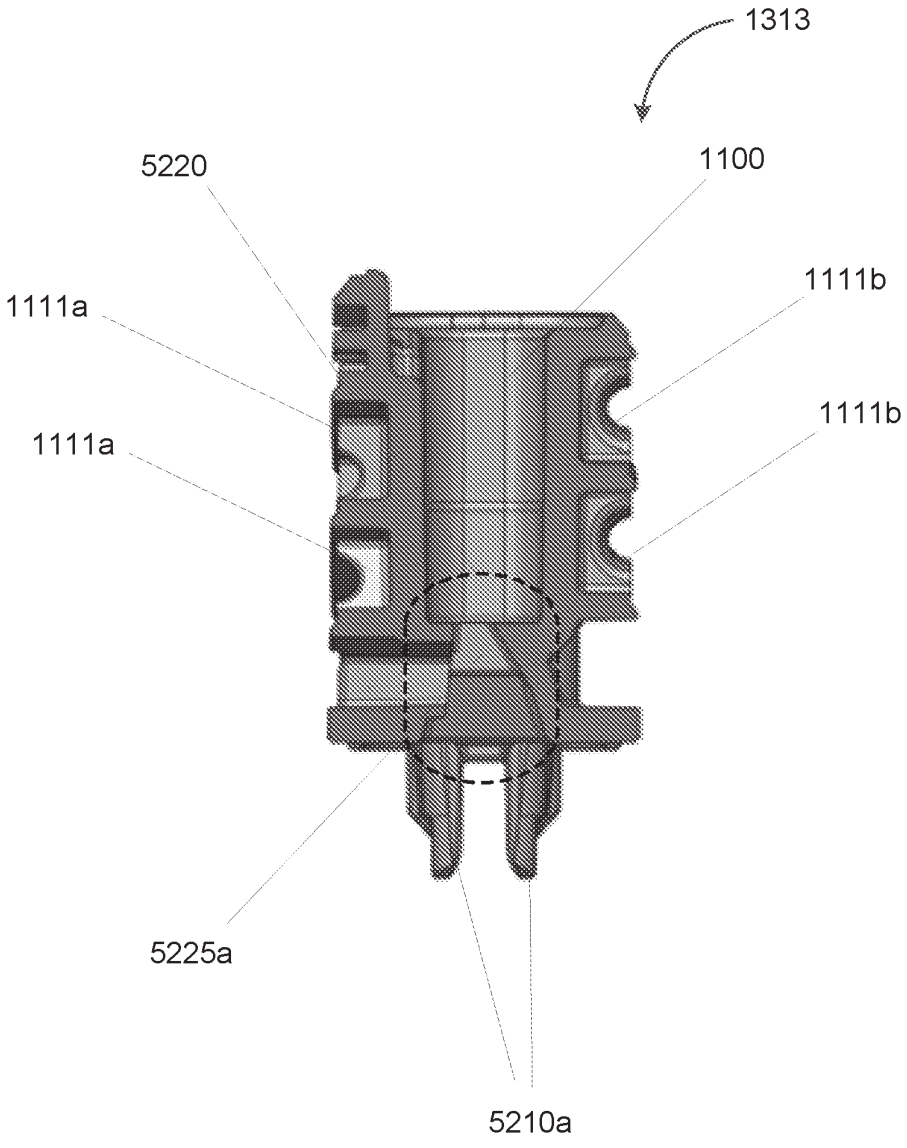


FIG. 52D

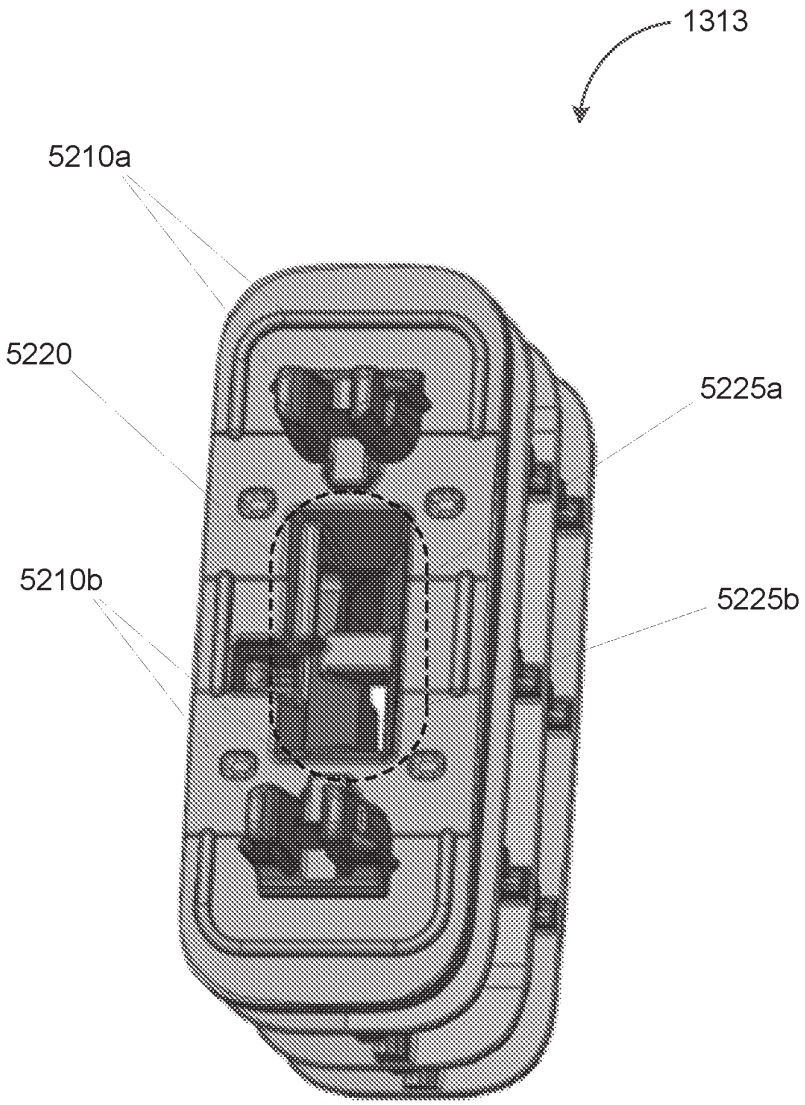


FIG. 52E

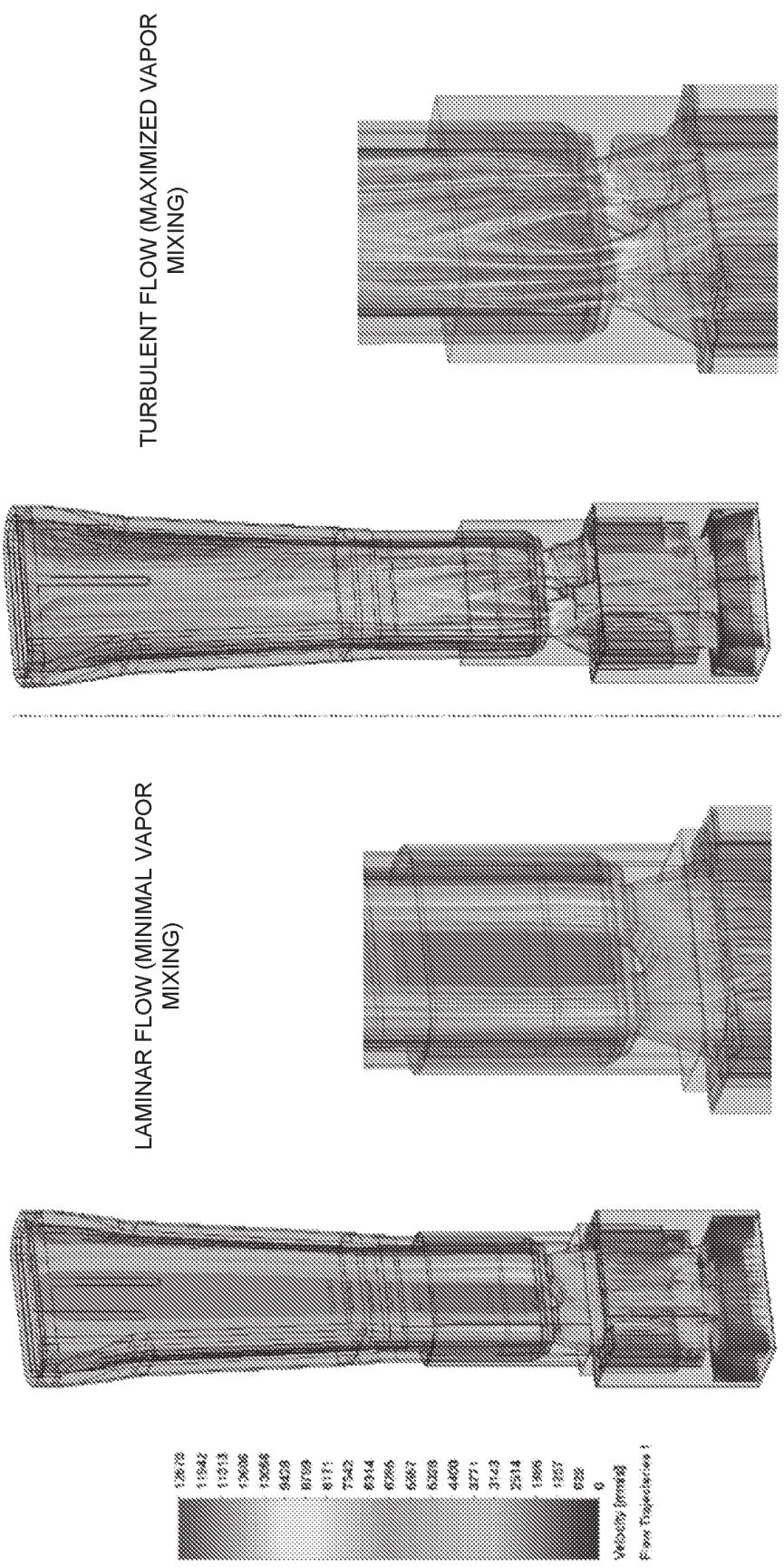

TURBULENT FLOW (MAXIMIZED VAPOR MIXING)
LAMINAR FLOW (MINIMAL VAPOR MIXING)

FIG. 52F

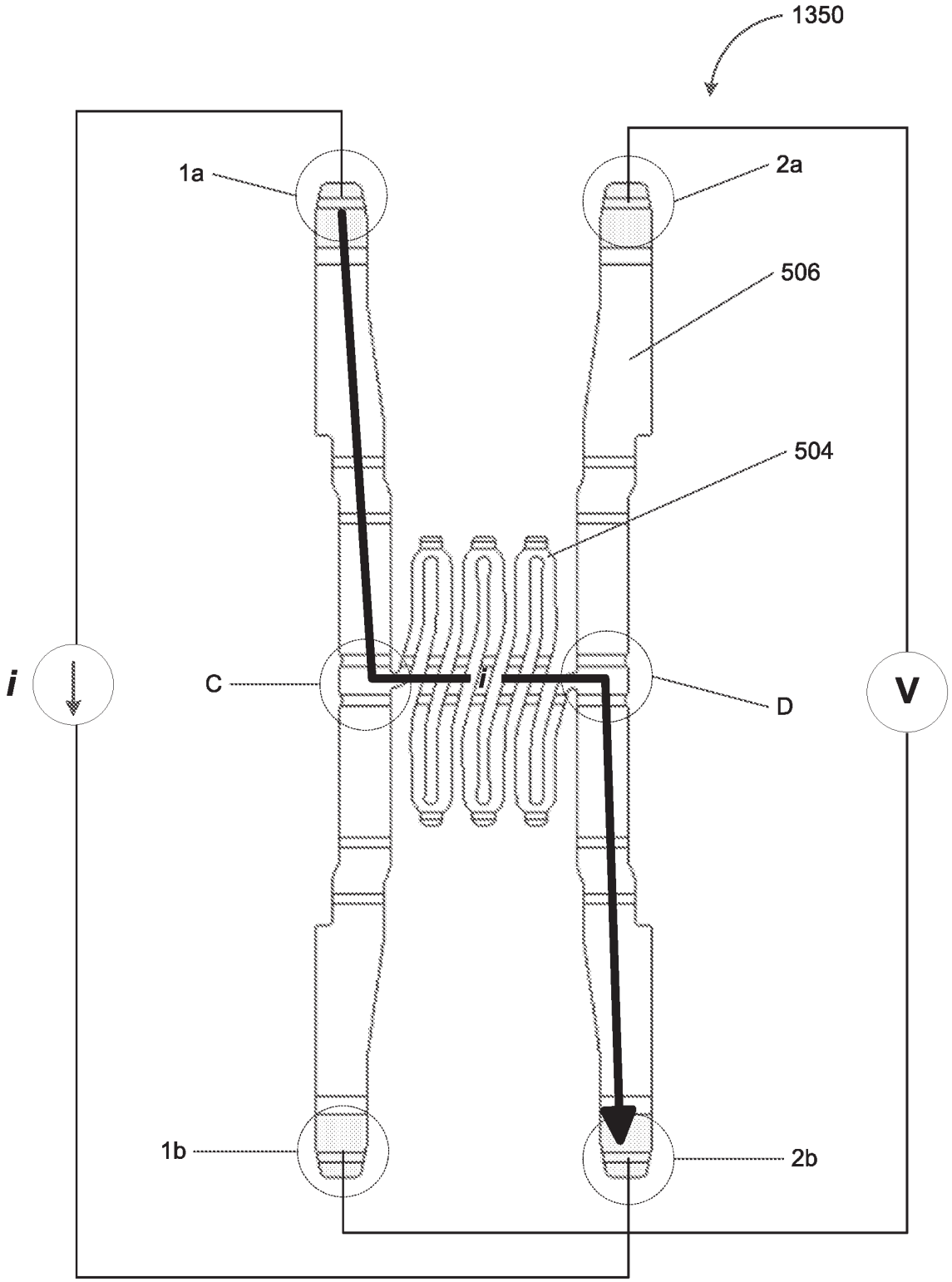


FIG. 53