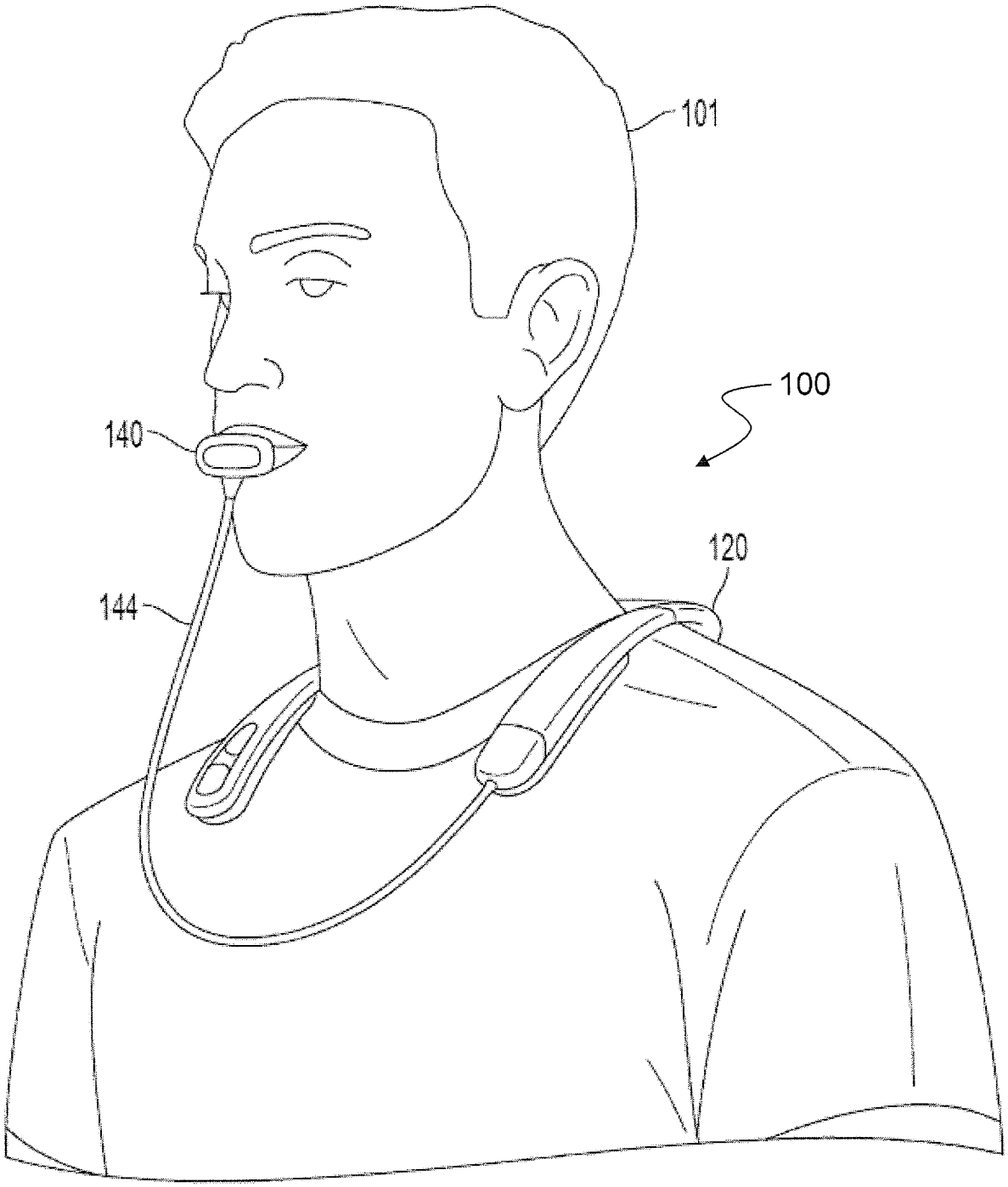


FIG. 1

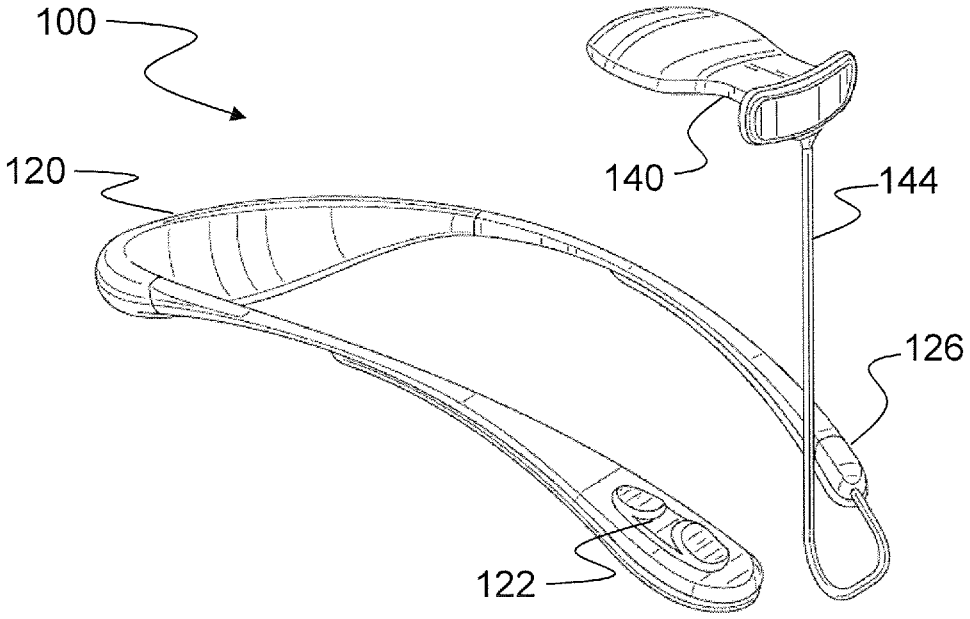


FIG. 2A

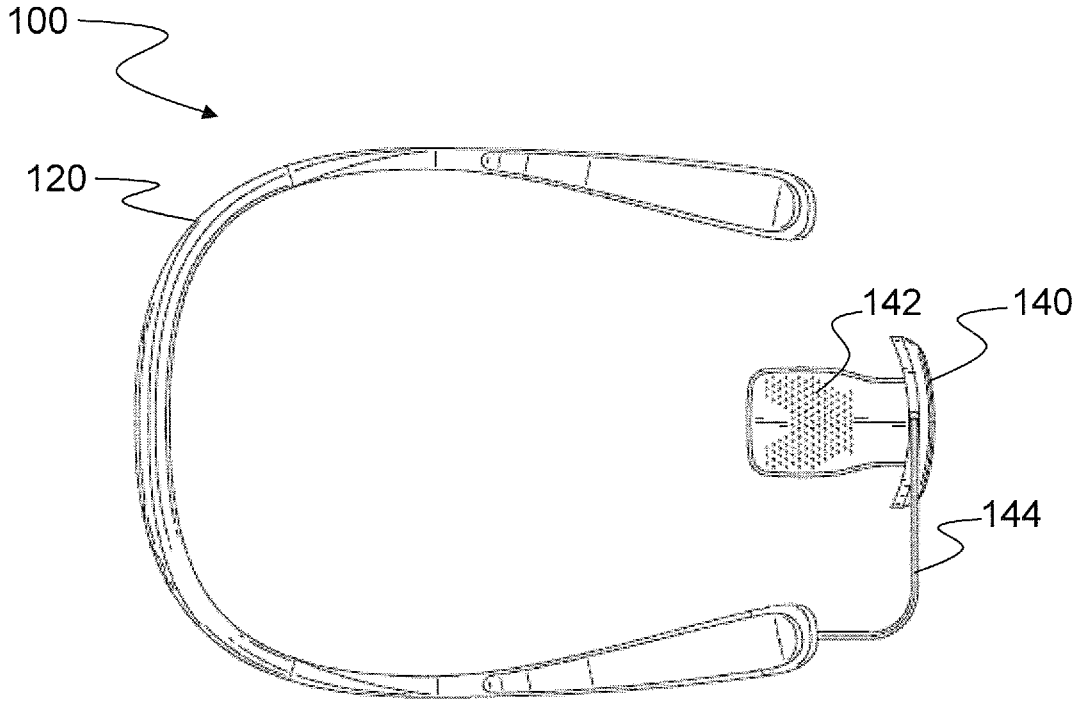


FIG. 2B

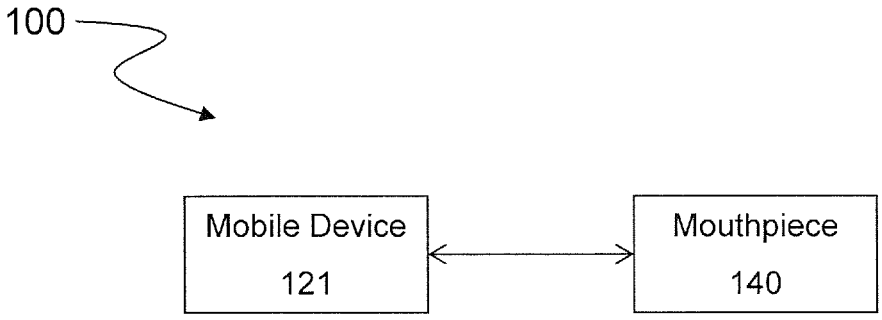


FIG. 2C

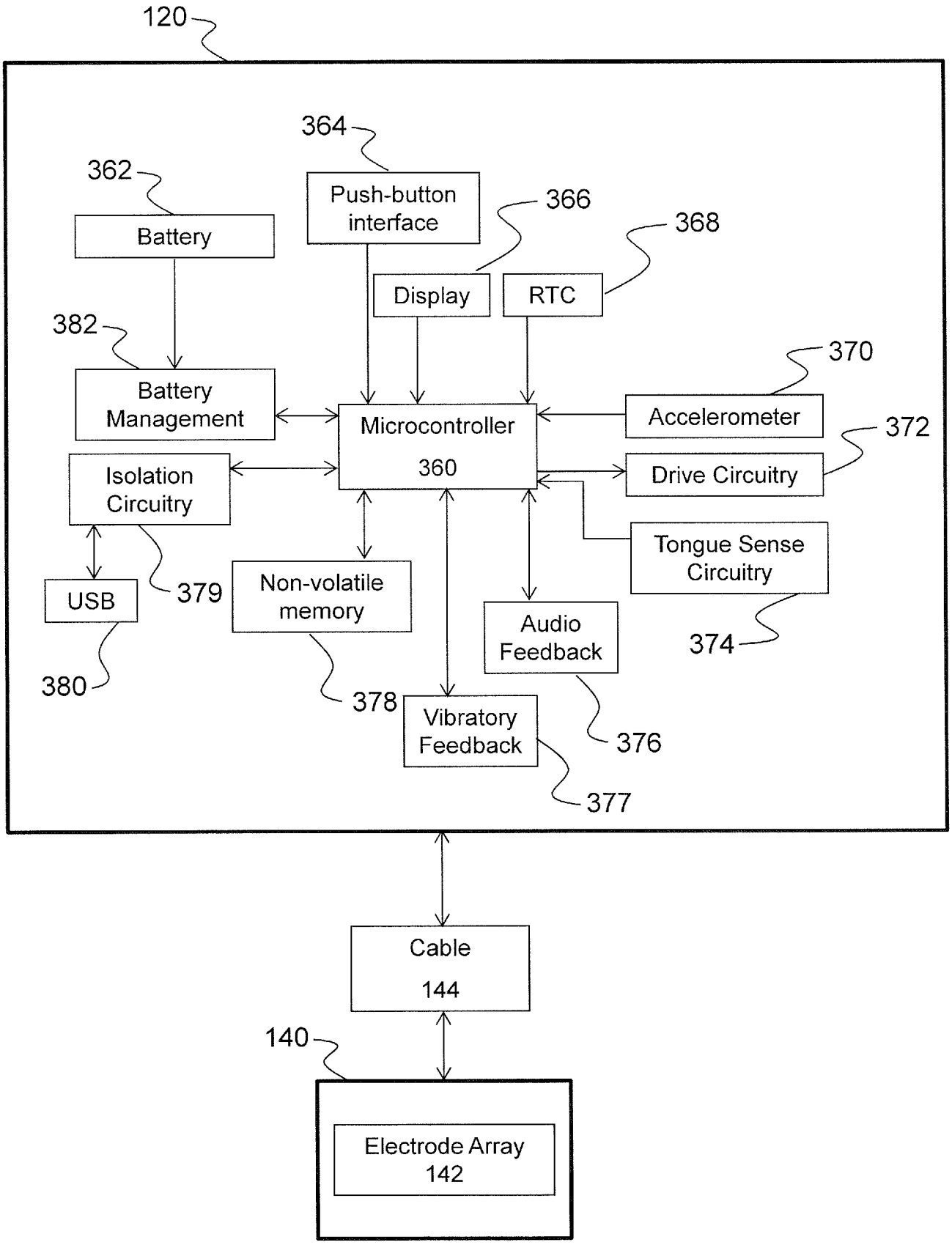

120
364
362
Push-button interface
Battery
366
368
Display
RTC
382
370
Battery Management
Microcontroller
360
Accelerometer
372
Isolation Circuitry
Drive Circuitry
Tongue Sense Circuitry
USB
379
Non-volatile memory
Audio Feedback
374
380
378
Vibratory Feedback
376
377
Cable
144
140
Electrode Array
142

FIG. 3A

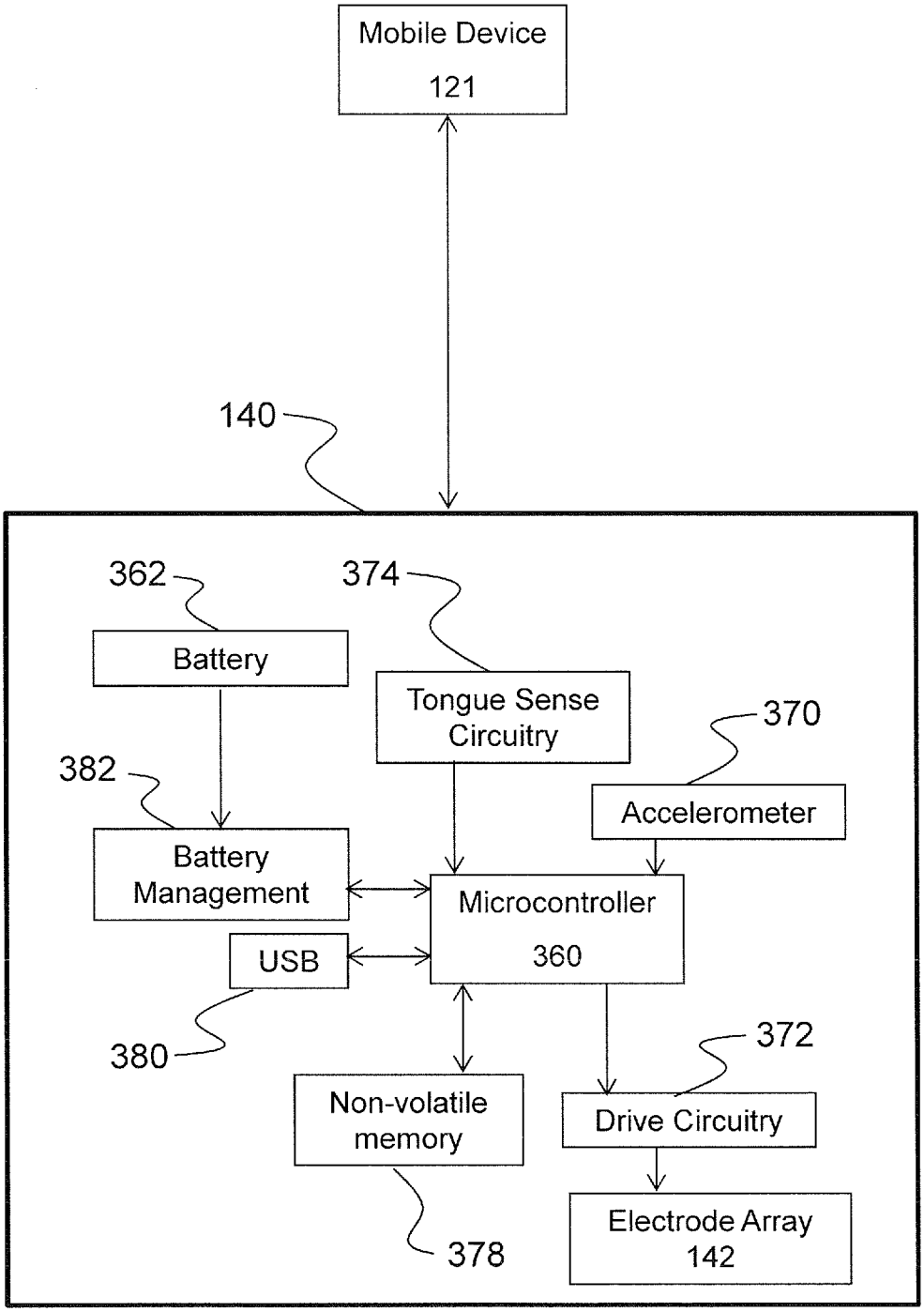

Mobile Device
121
140
362
374
Battery
Tongue Sense
Circuitry
370
382
Accelerometer
Battery
Management
Microcontroller
360
USB
380
372
Non-volatile
memory
Drive Circuitry
Electrode Array
142
378

FIG. 3B

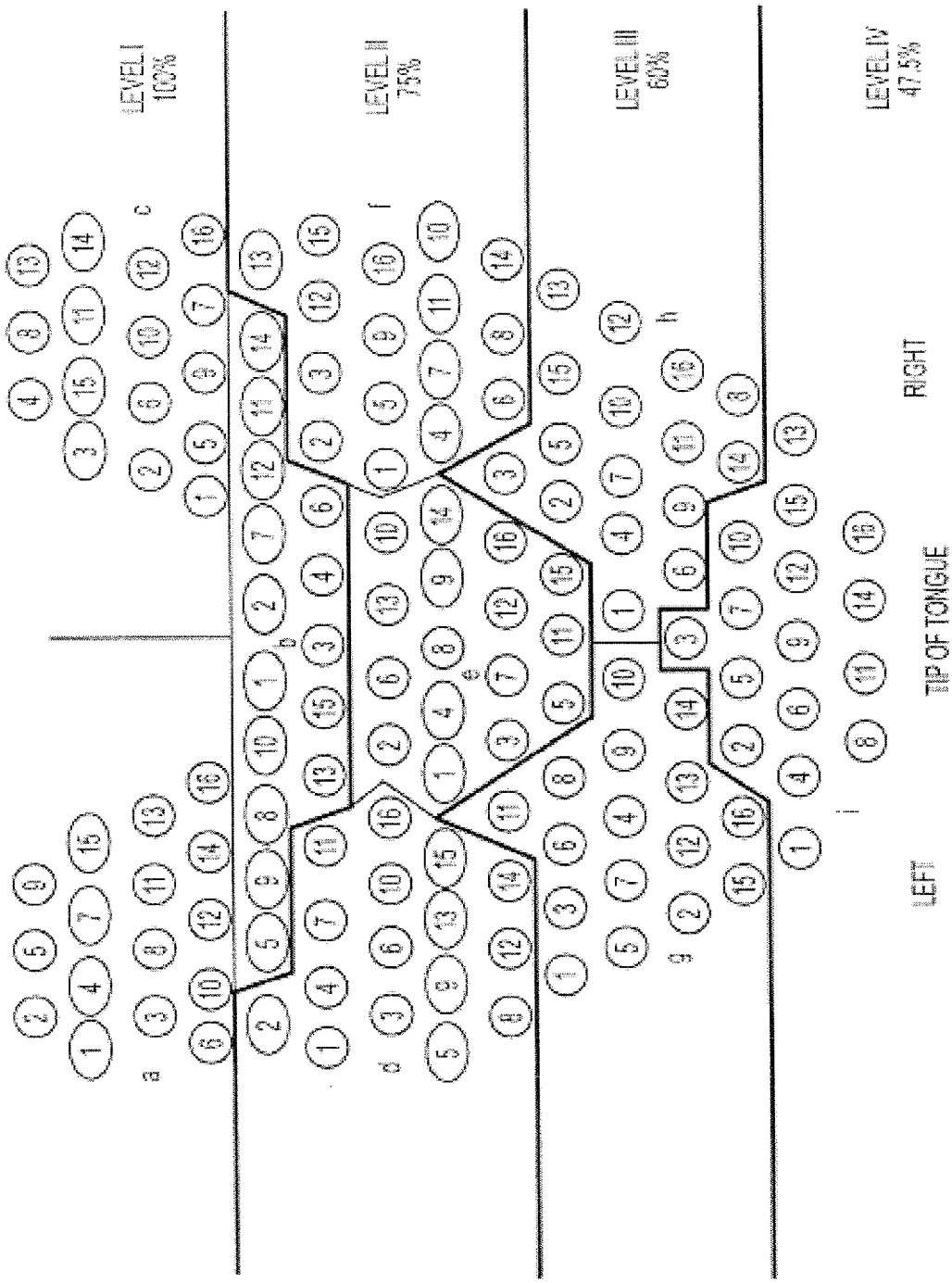

LEVEL I
100%
LEVEL II
75%
LEVEL III
60%
LEVEL IV
47.5%
LEFT
TIP OF TONGUE
RIGHT

FIG. 3C

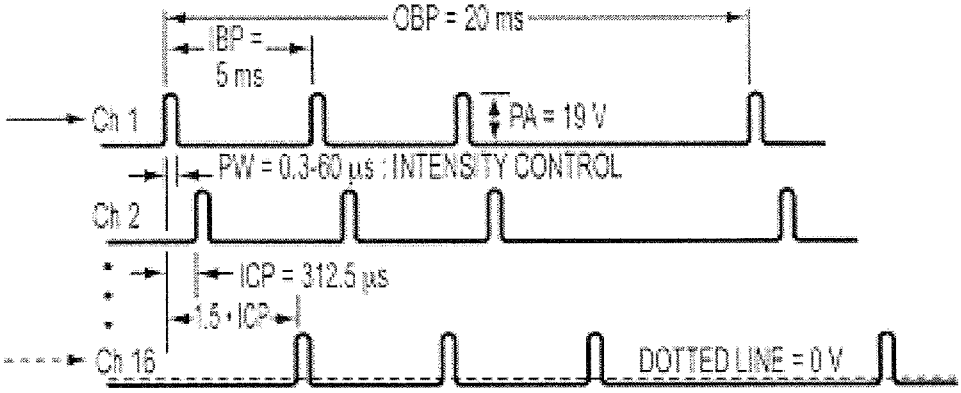

OBP = 20 ms
IBP = 5 ms
Ch 1
PA = 19 V
PW = 0.3-60 µs : INTENSITY CONTROL
Ch 2
ICP = 312.5 µs
1.5 * ICP
Ch 16
DOTTED LINE = 0 V

FIG. 3D

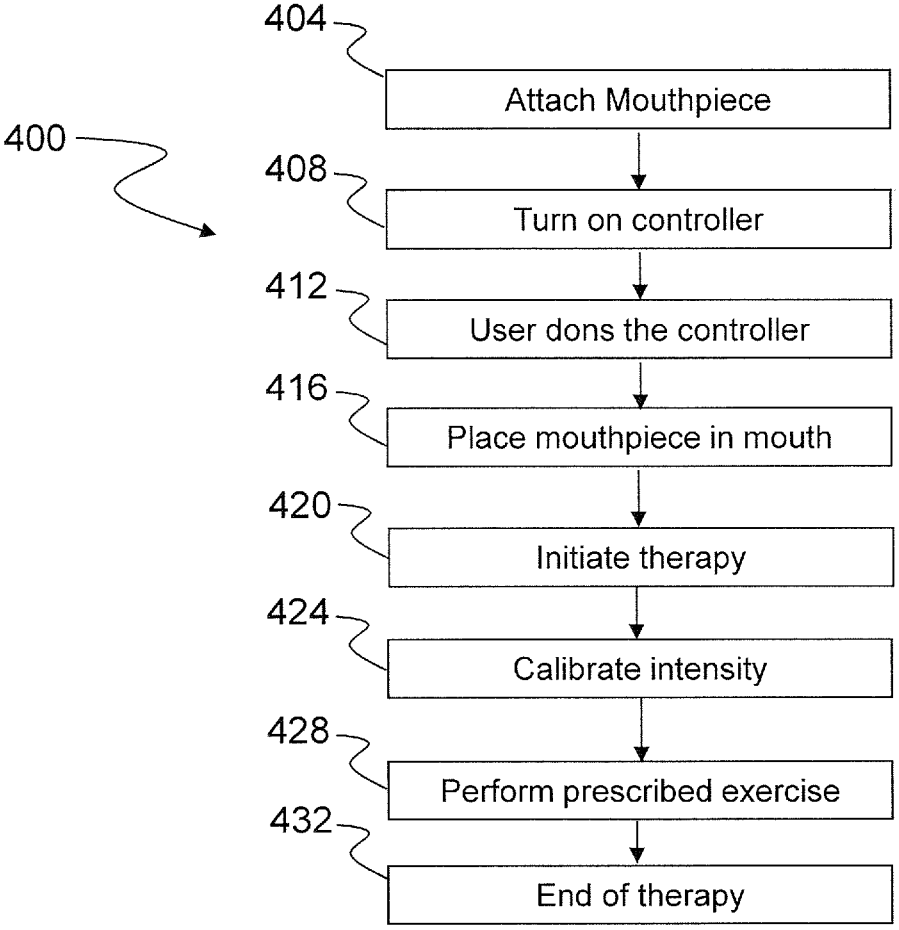

400
404
Attach Mouthpiece
408
Turn on controller
412
User dons the controller
416
Place mouthpiece in mouth
420
Initiate therapy
424
Calibrate intensity
428
Perform prescribed exercise
432
End of therapy

FIG. 4A

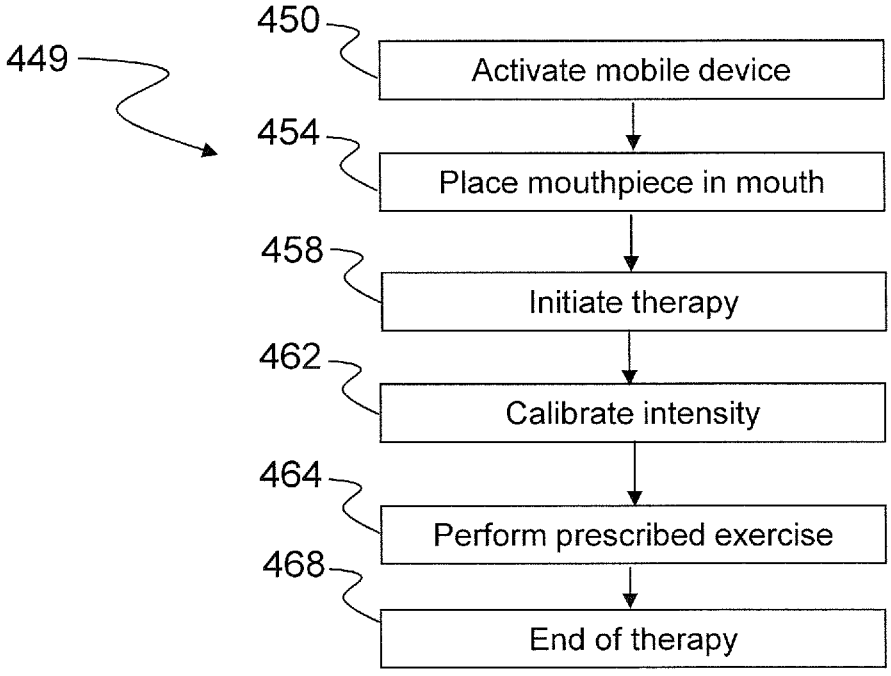

449
450
Activate mobile device
454
Place mouthpiece in mouth
458
Initiate therapy
462
Calibrate intensity
464
Perform prescribed exercise
468
End of therapy

FIG. 4B

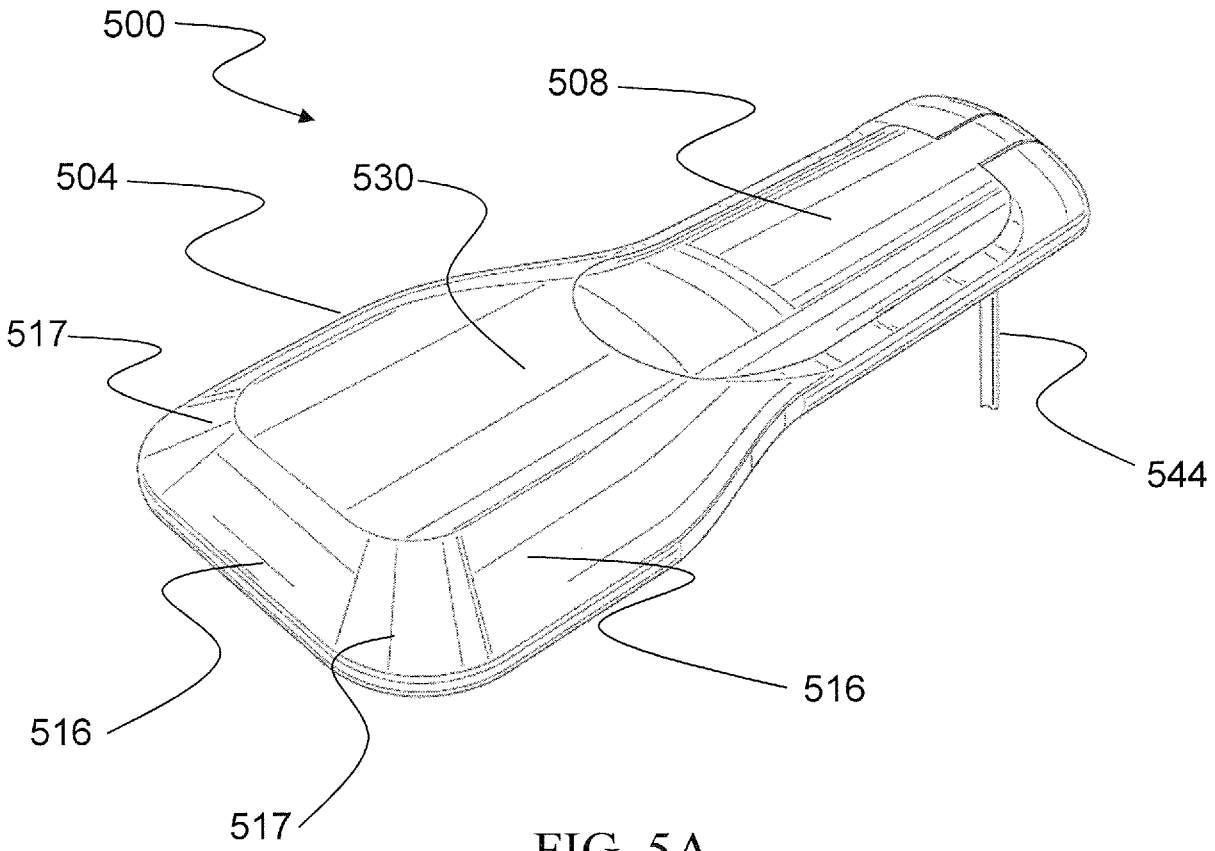


FIG. 5A

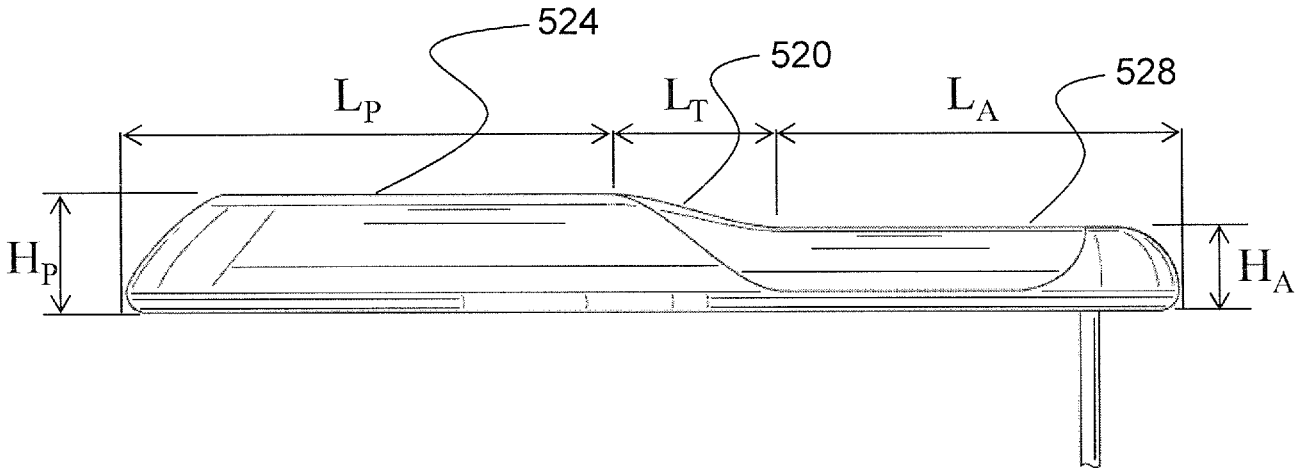


FIG. 5B

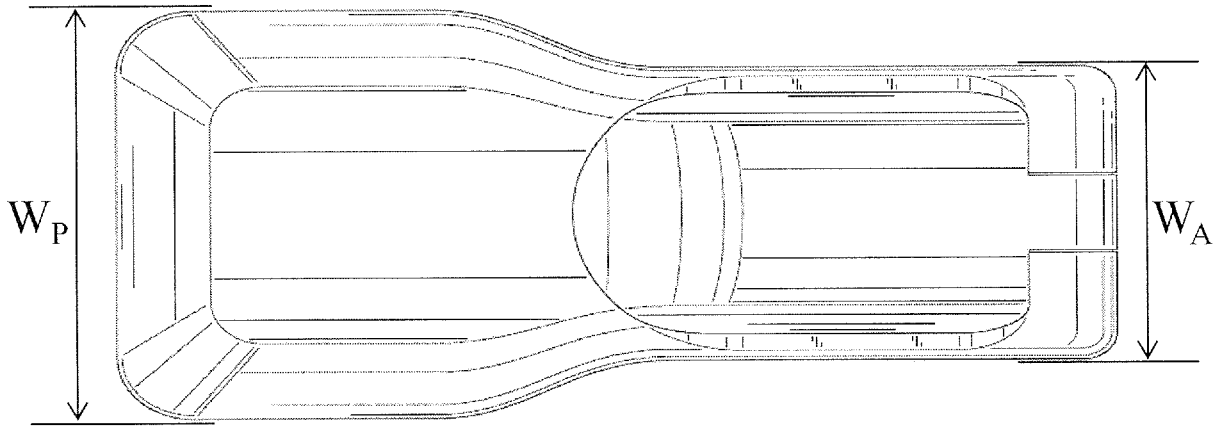


FIG. 5C

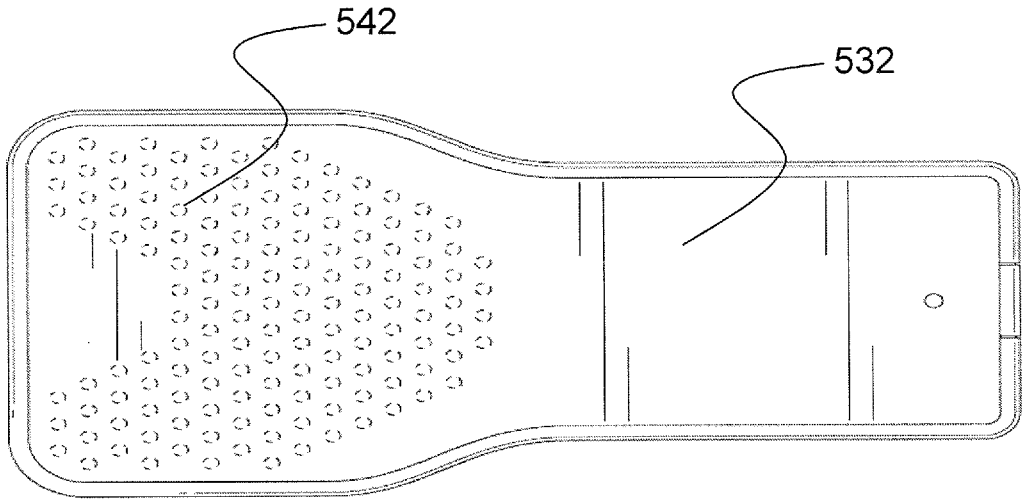


FIG. 5D

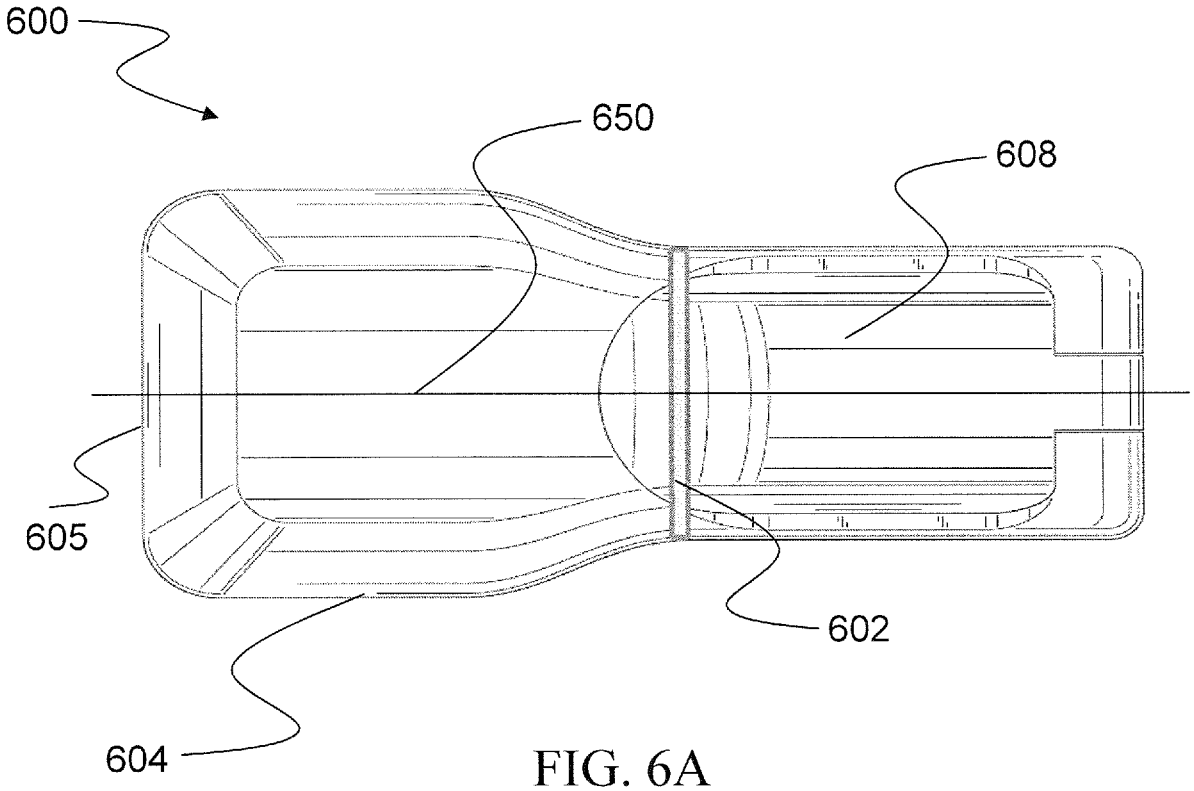


FIG. 6A

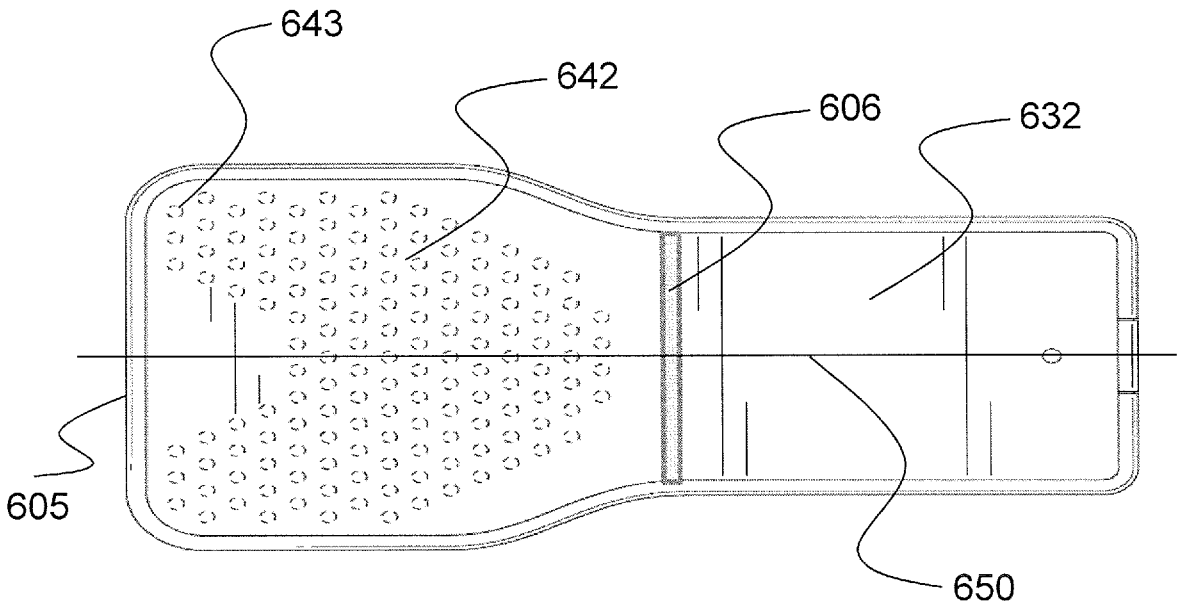


FIG. 6B

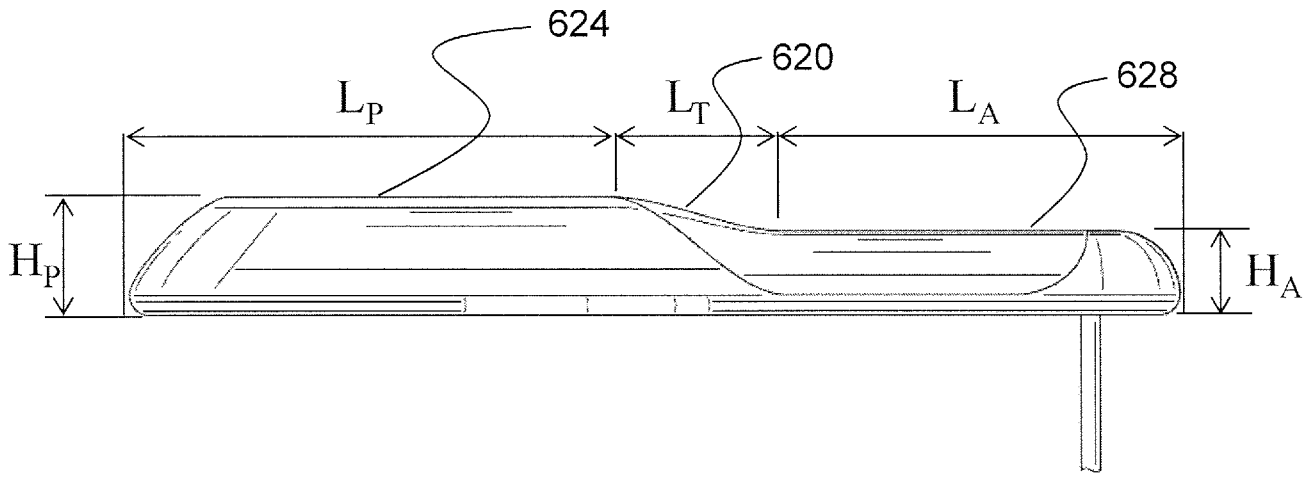


FIG. 6C

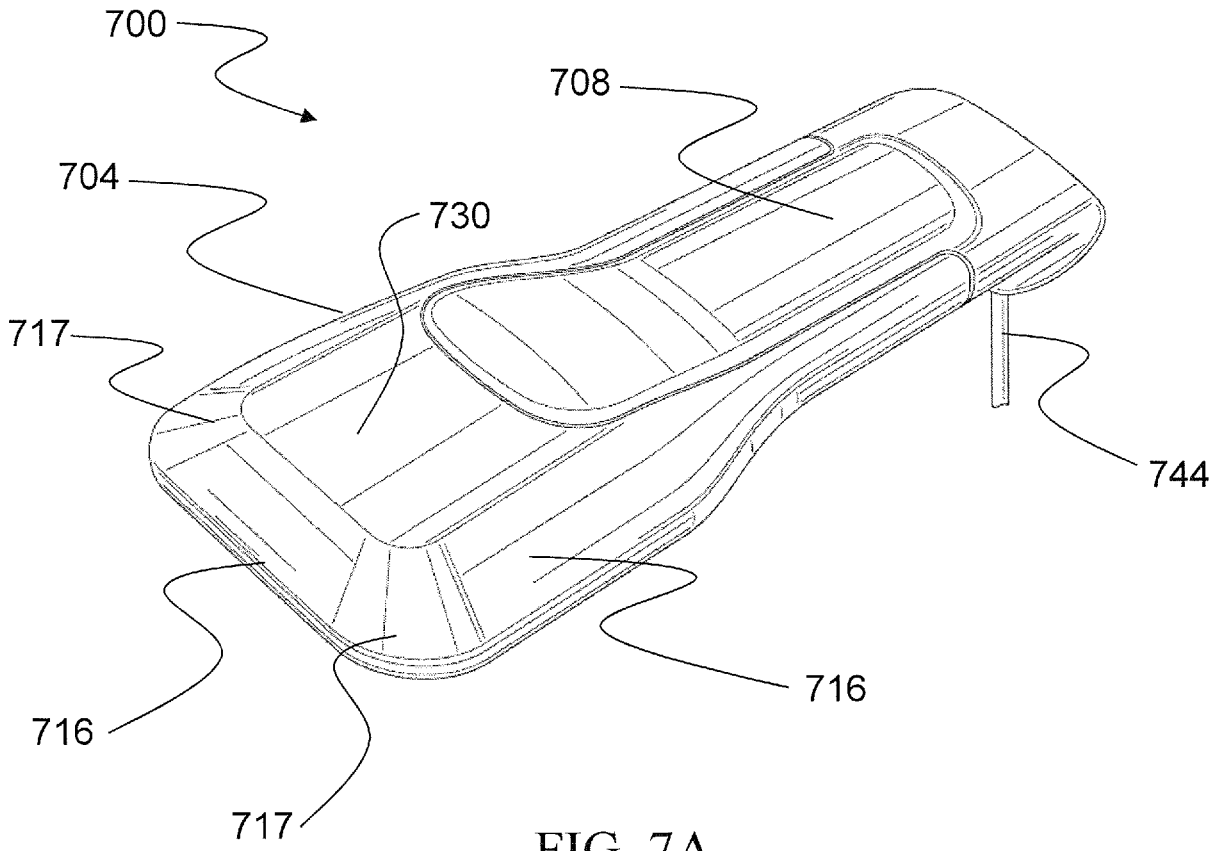


FIG. 7A

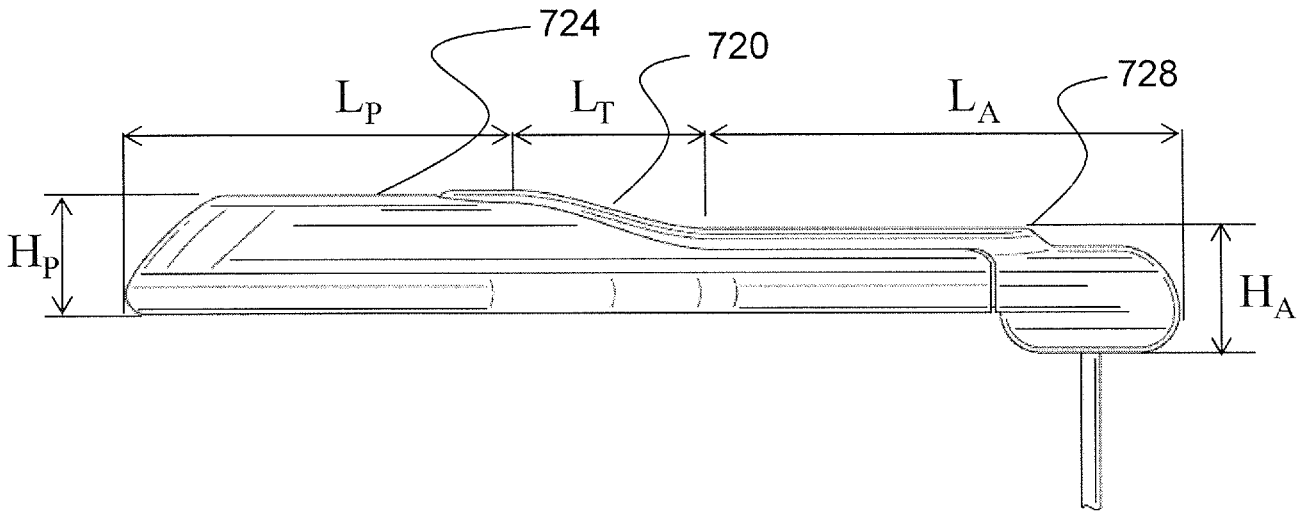


FIG. 7B

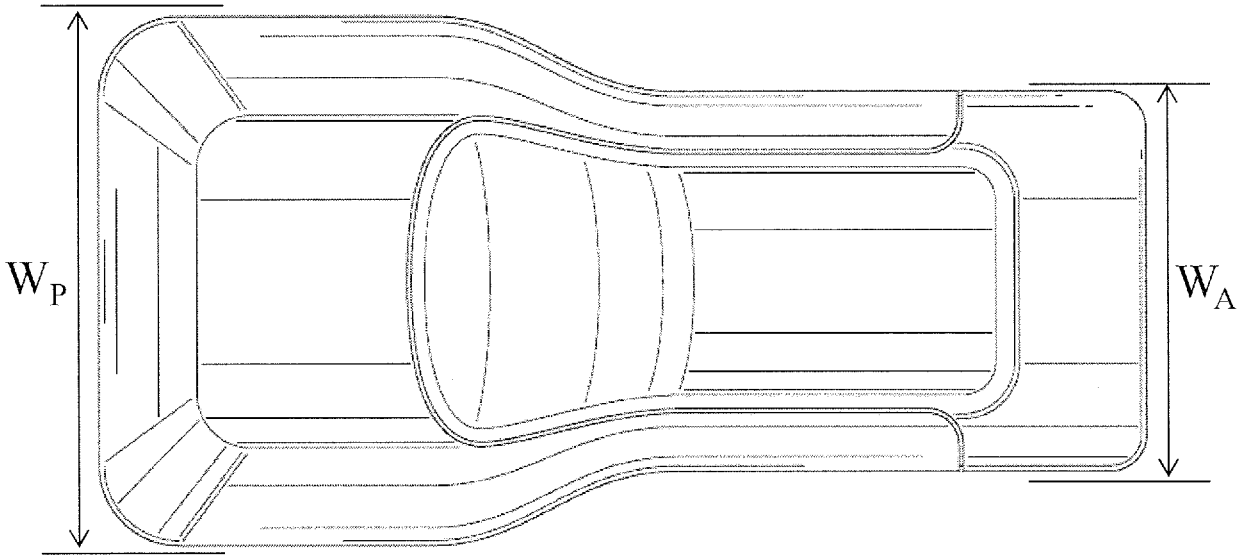


FIG. 7C

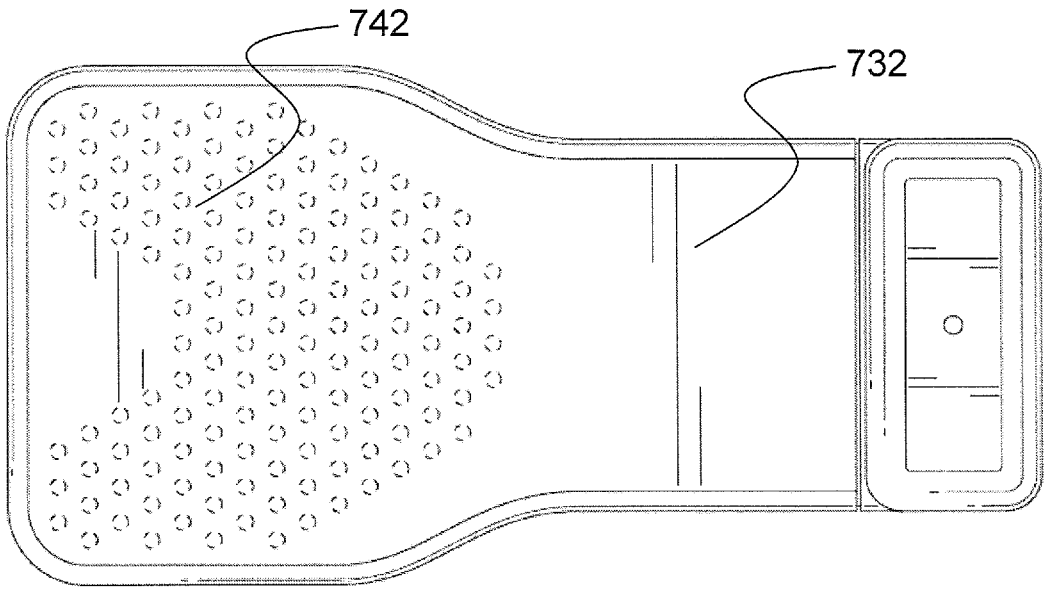


FIG. 7D

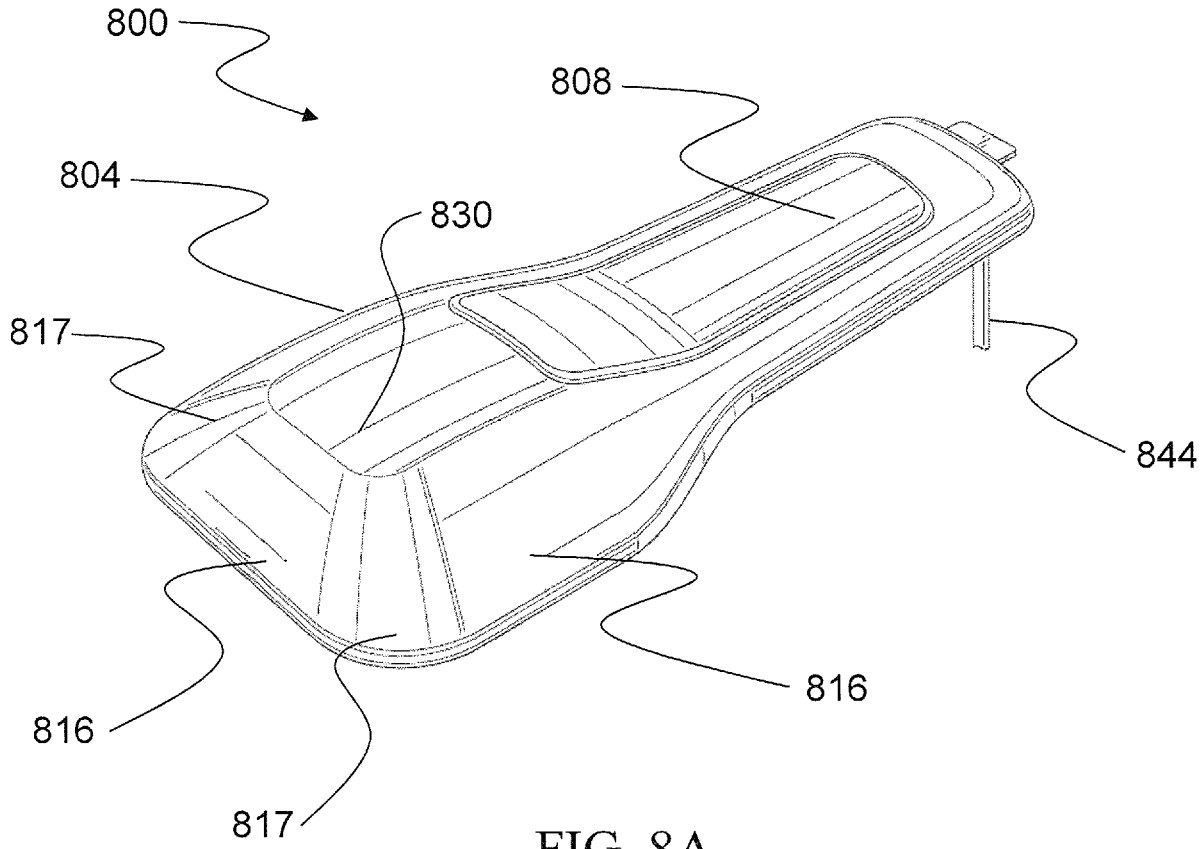


FIG. 8A

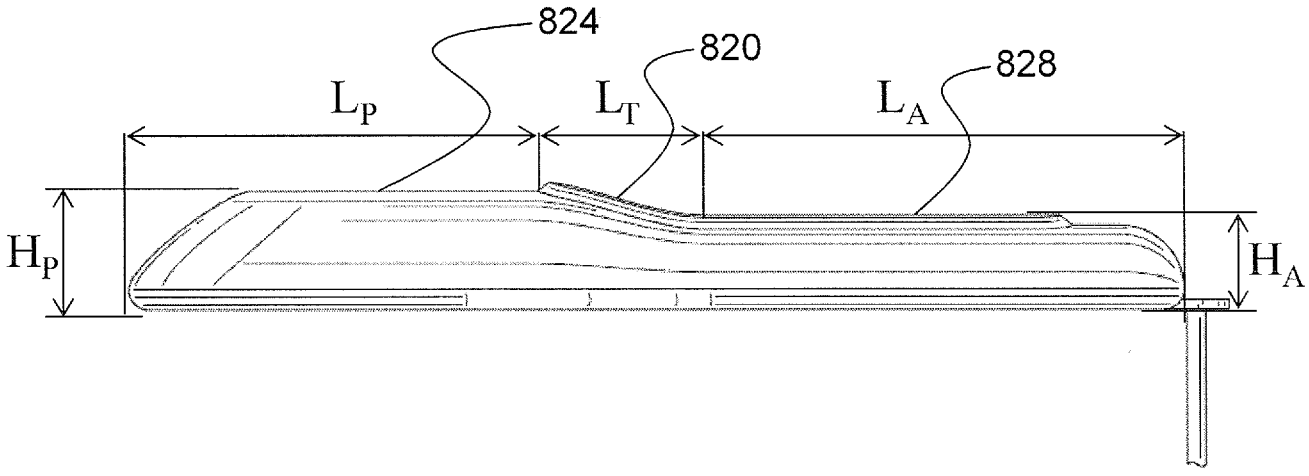


FIG. 8B

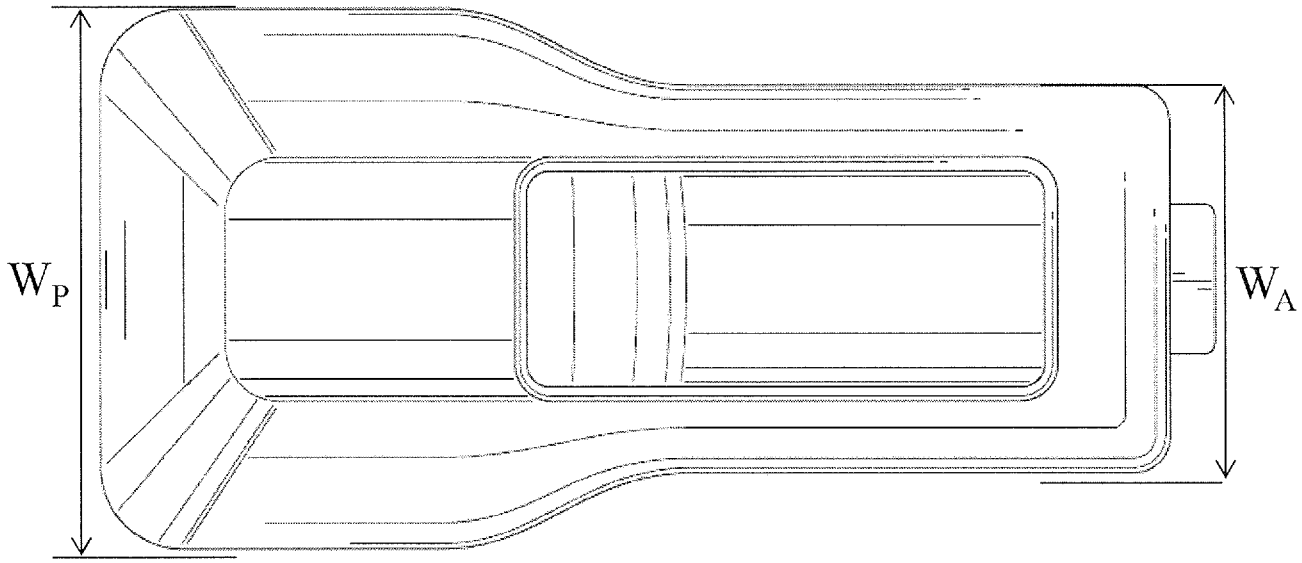


FIG. 8C

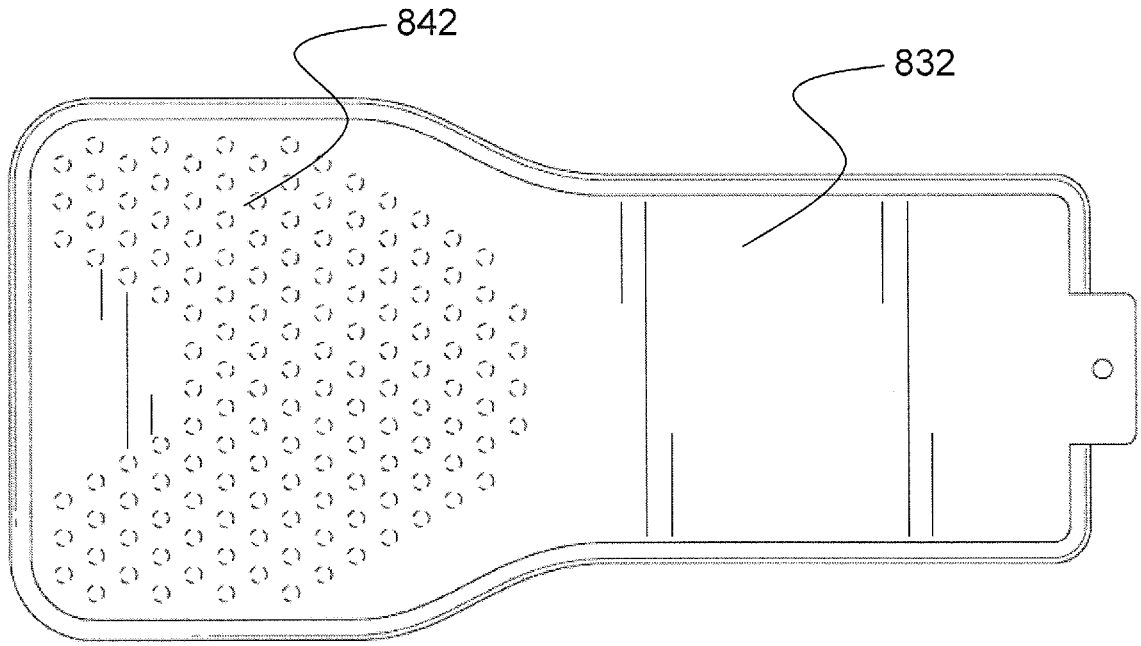


FIG. 8D

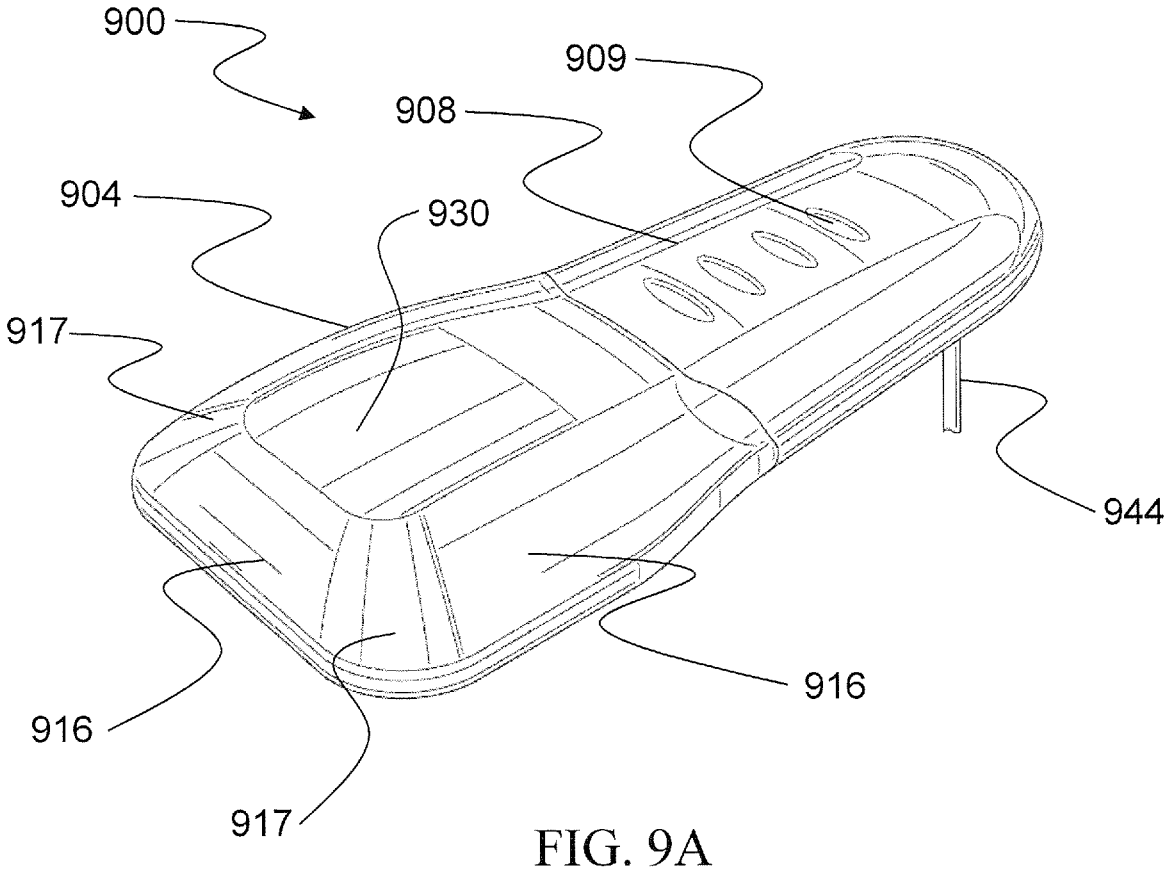


FIG. 9A

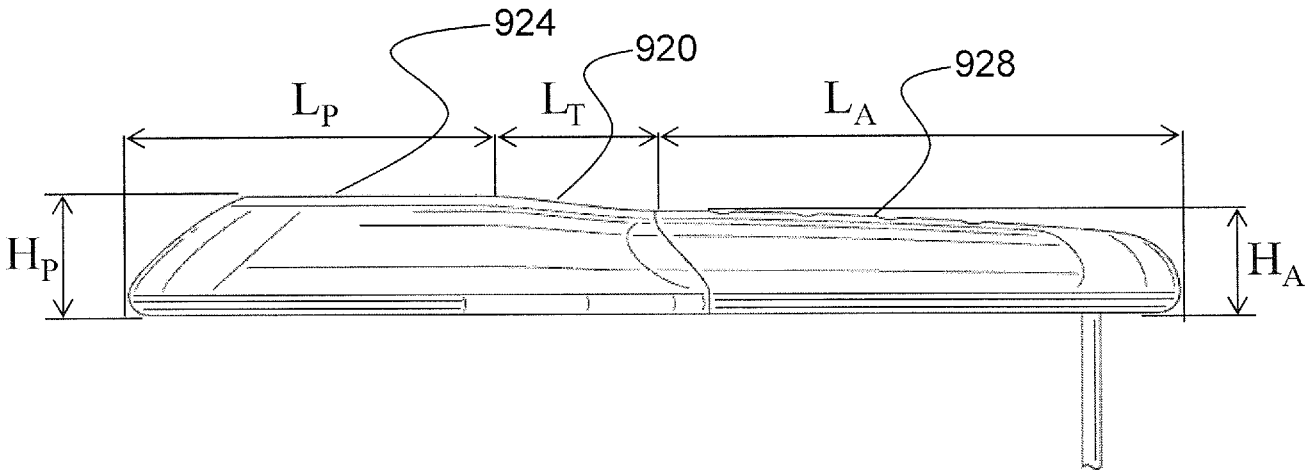


FIG. 9B

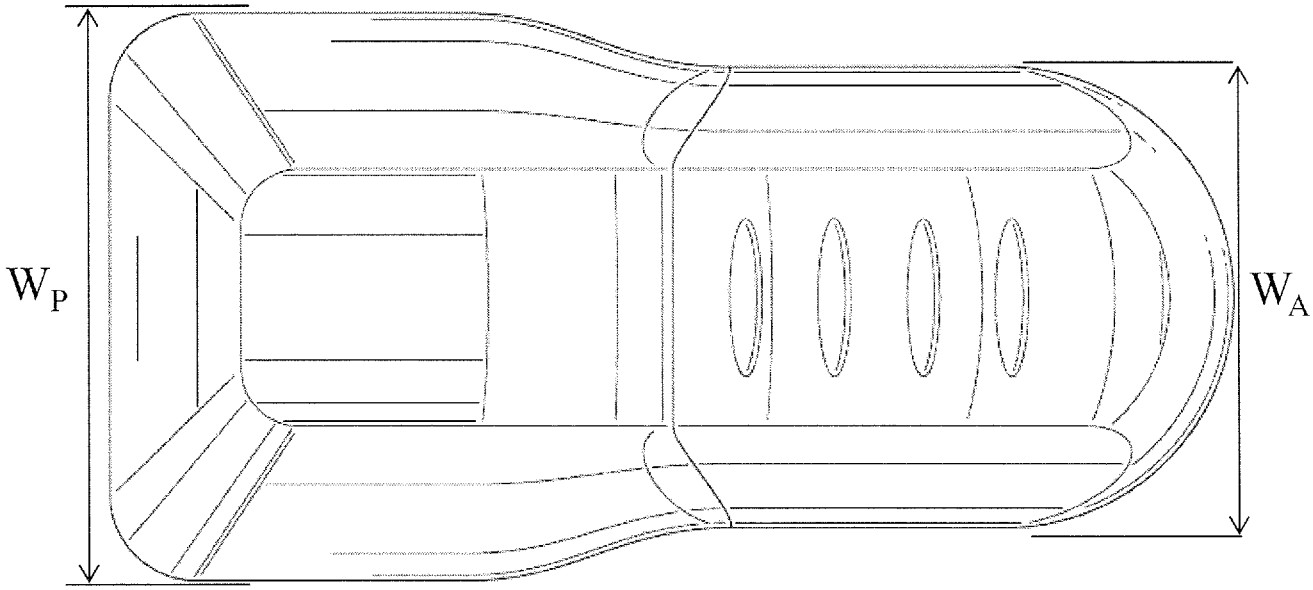


FIG. 9C

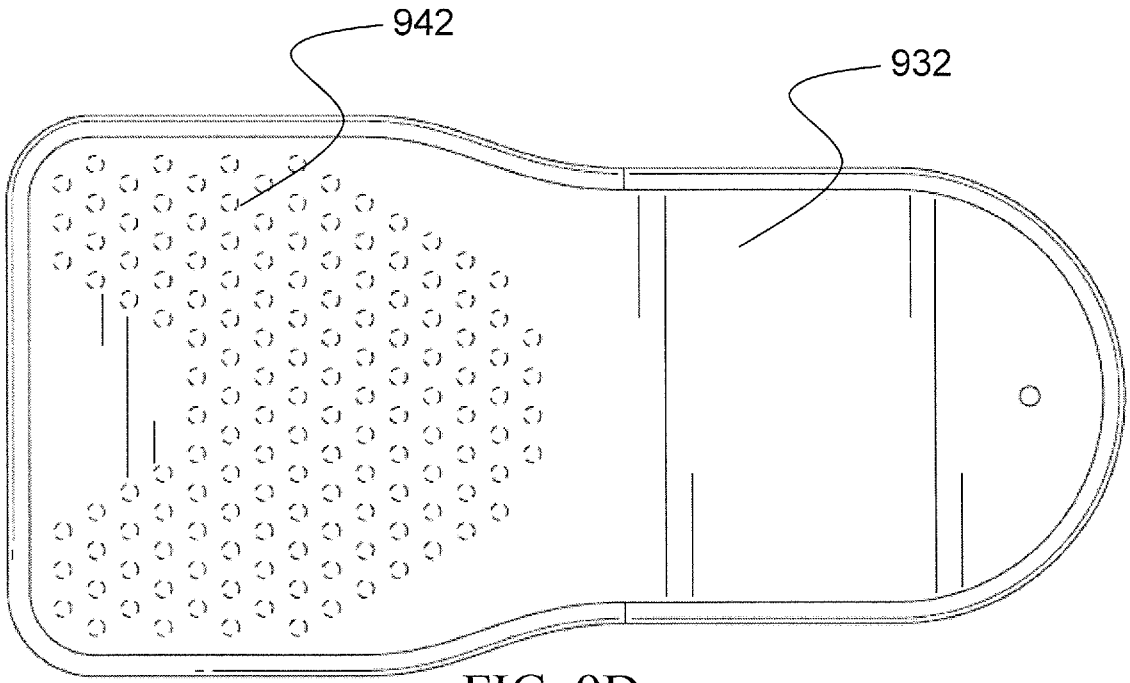


FIG. 9D

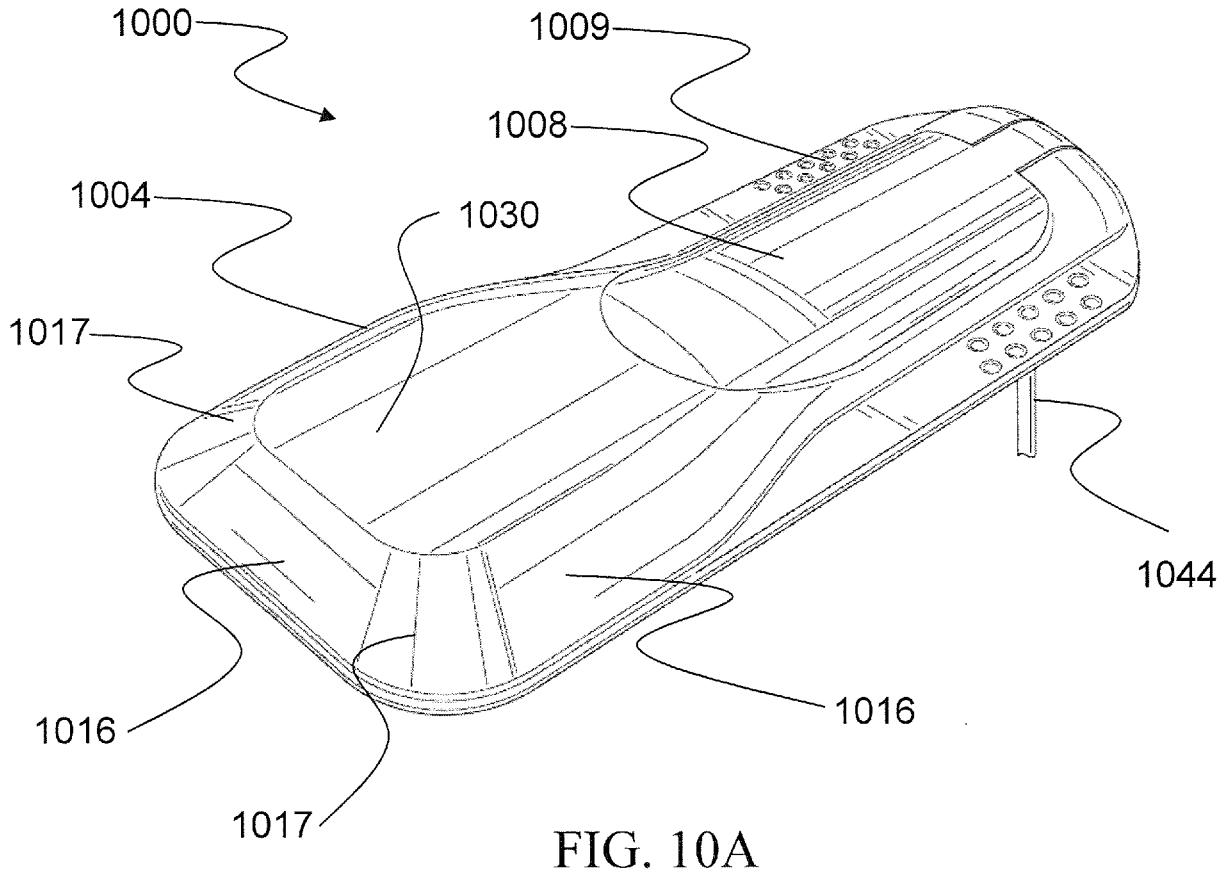


FIG. 10A

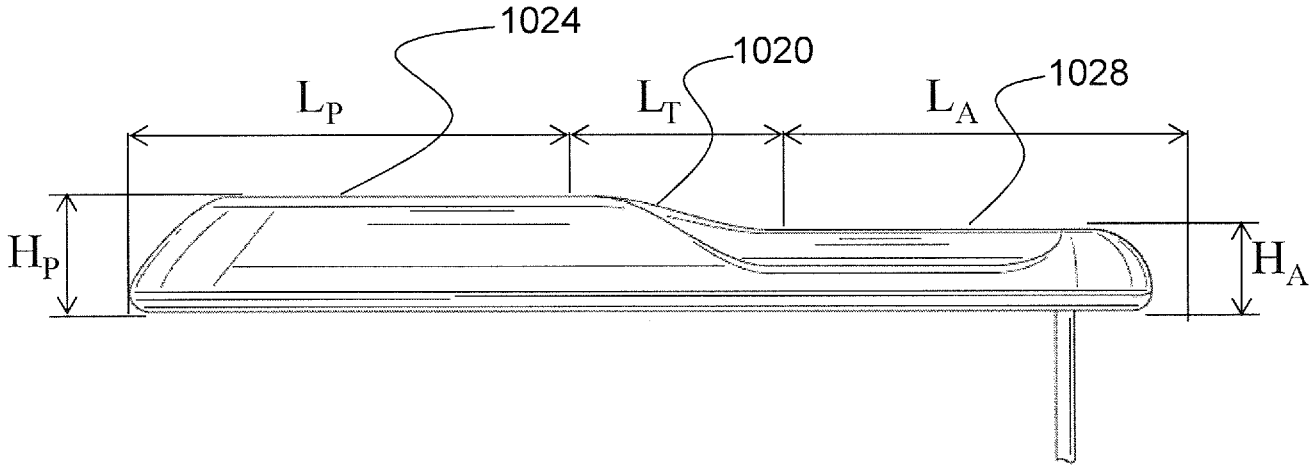


FIG. 10B

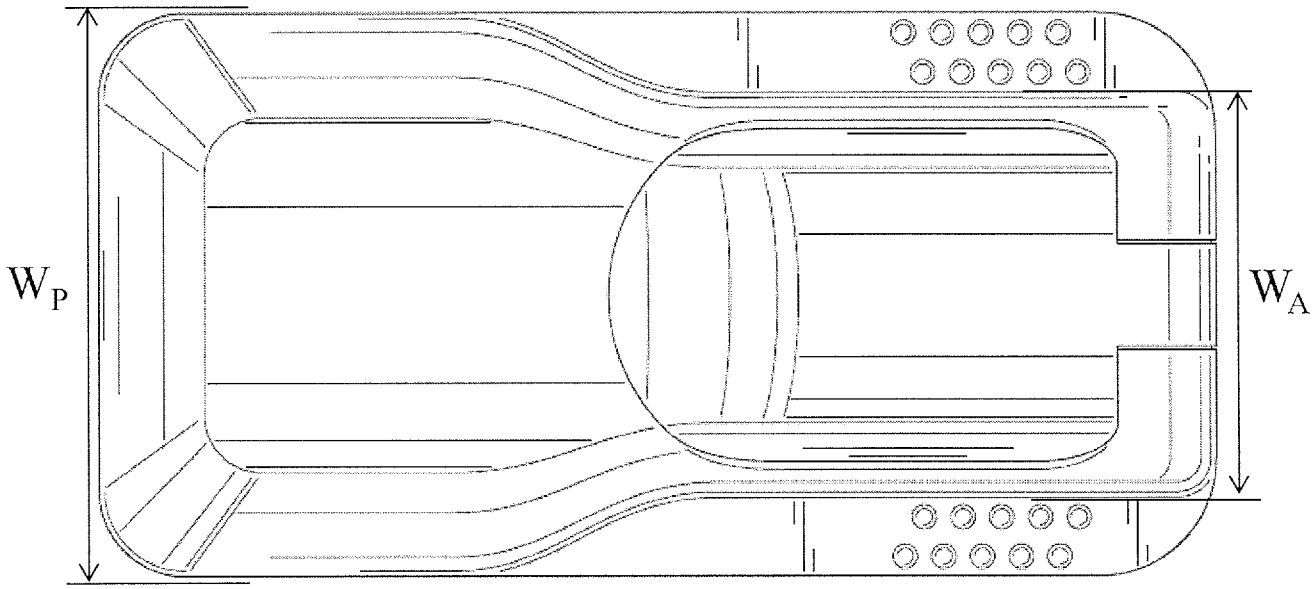


FIG. 10C

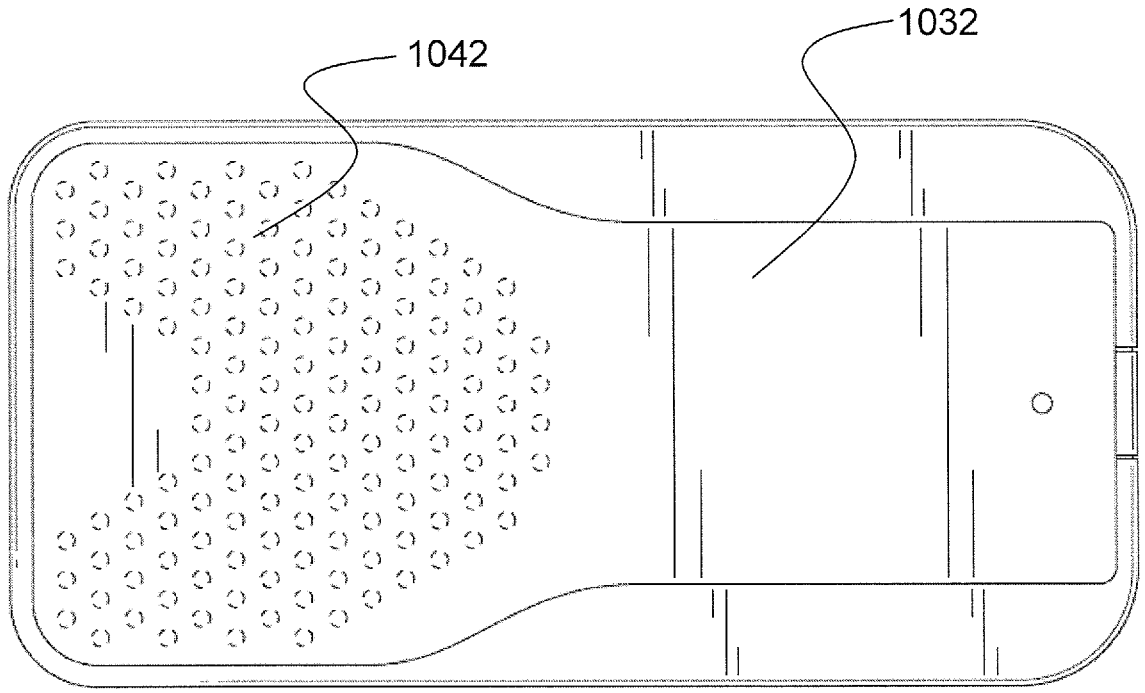


FIG. 10D

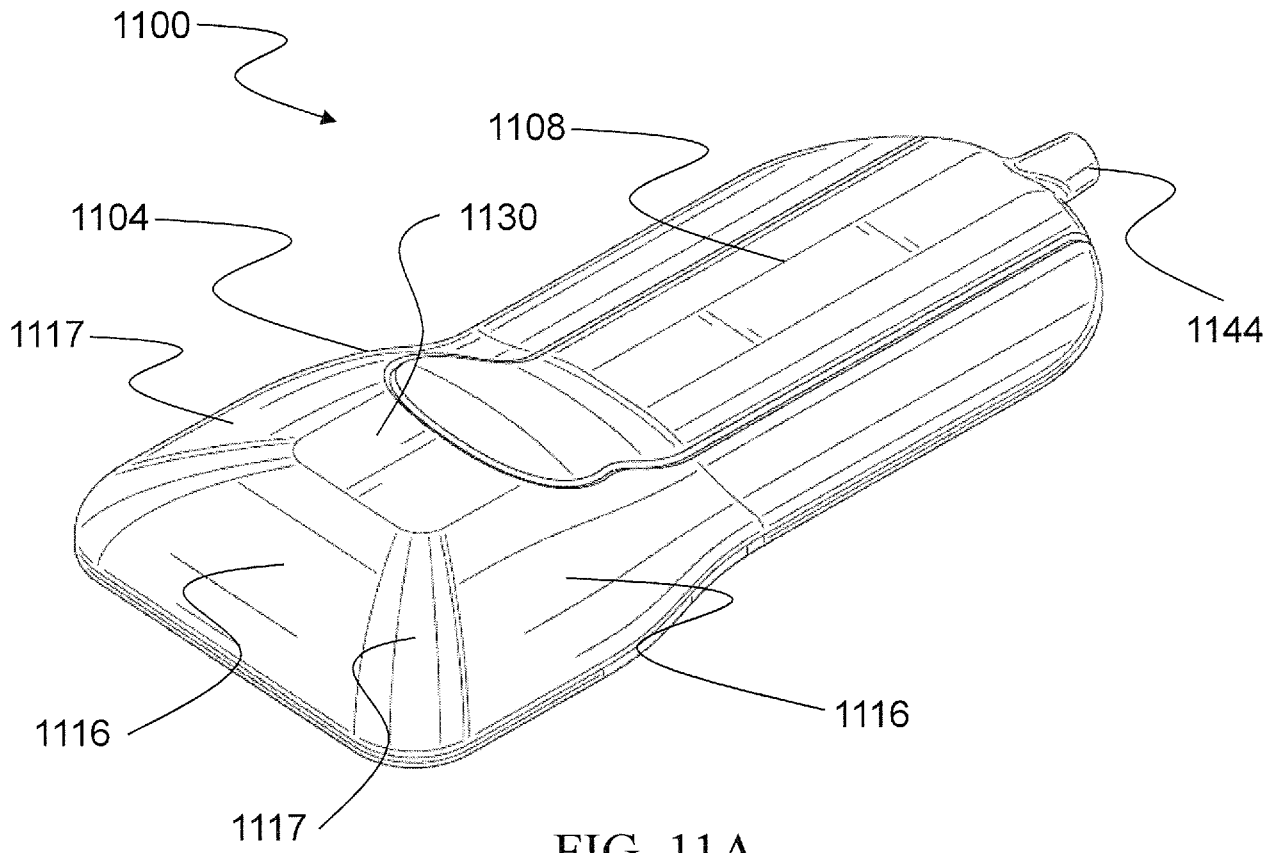


FIG. 11A

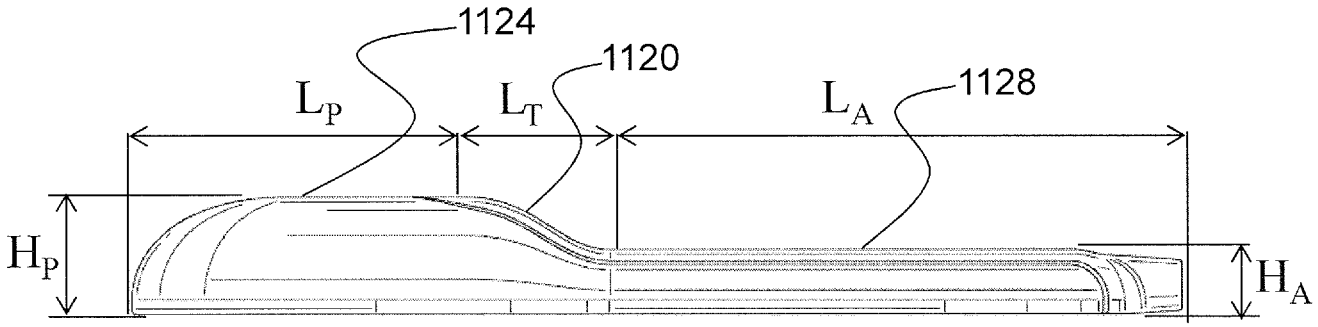


FIG. 11B

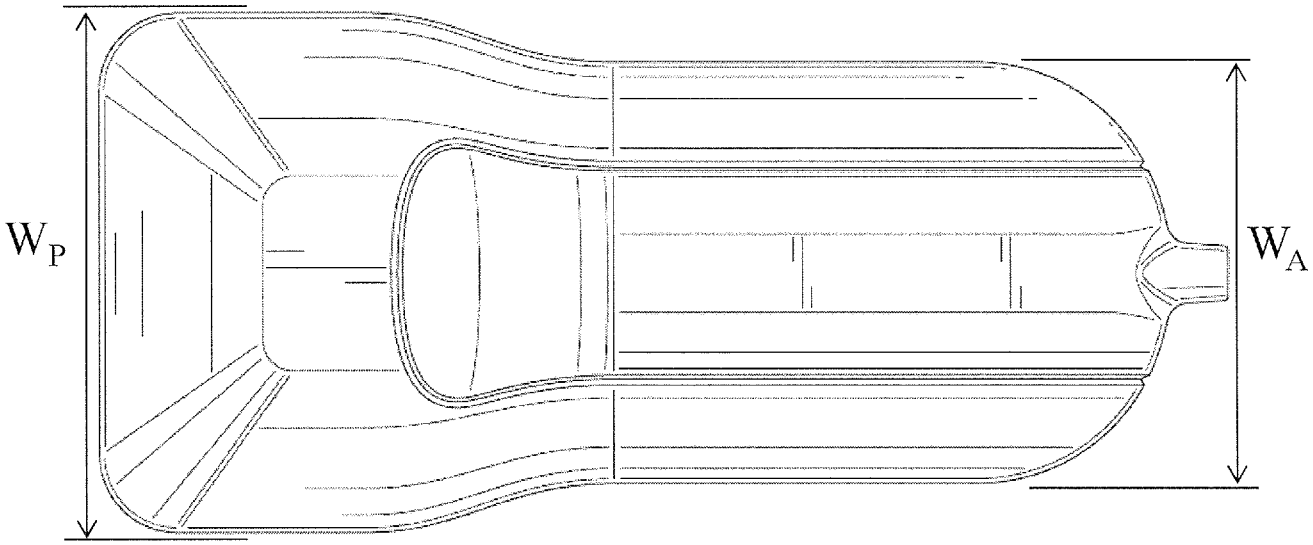


FIG. 11C

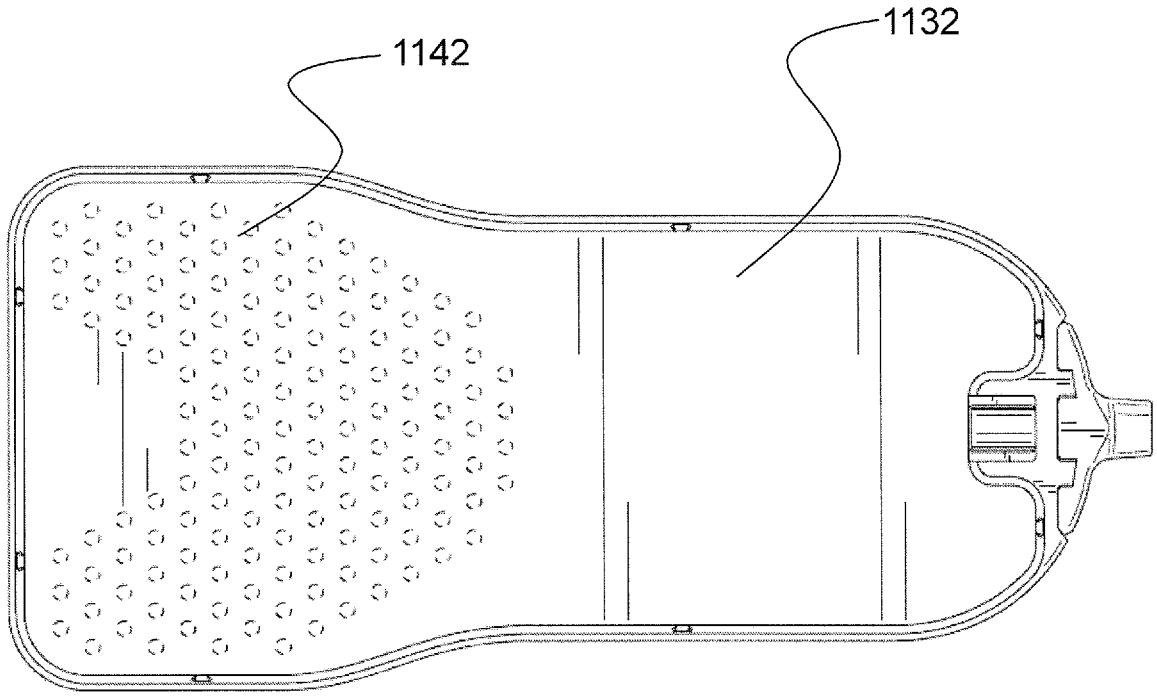


FIG. 11D