

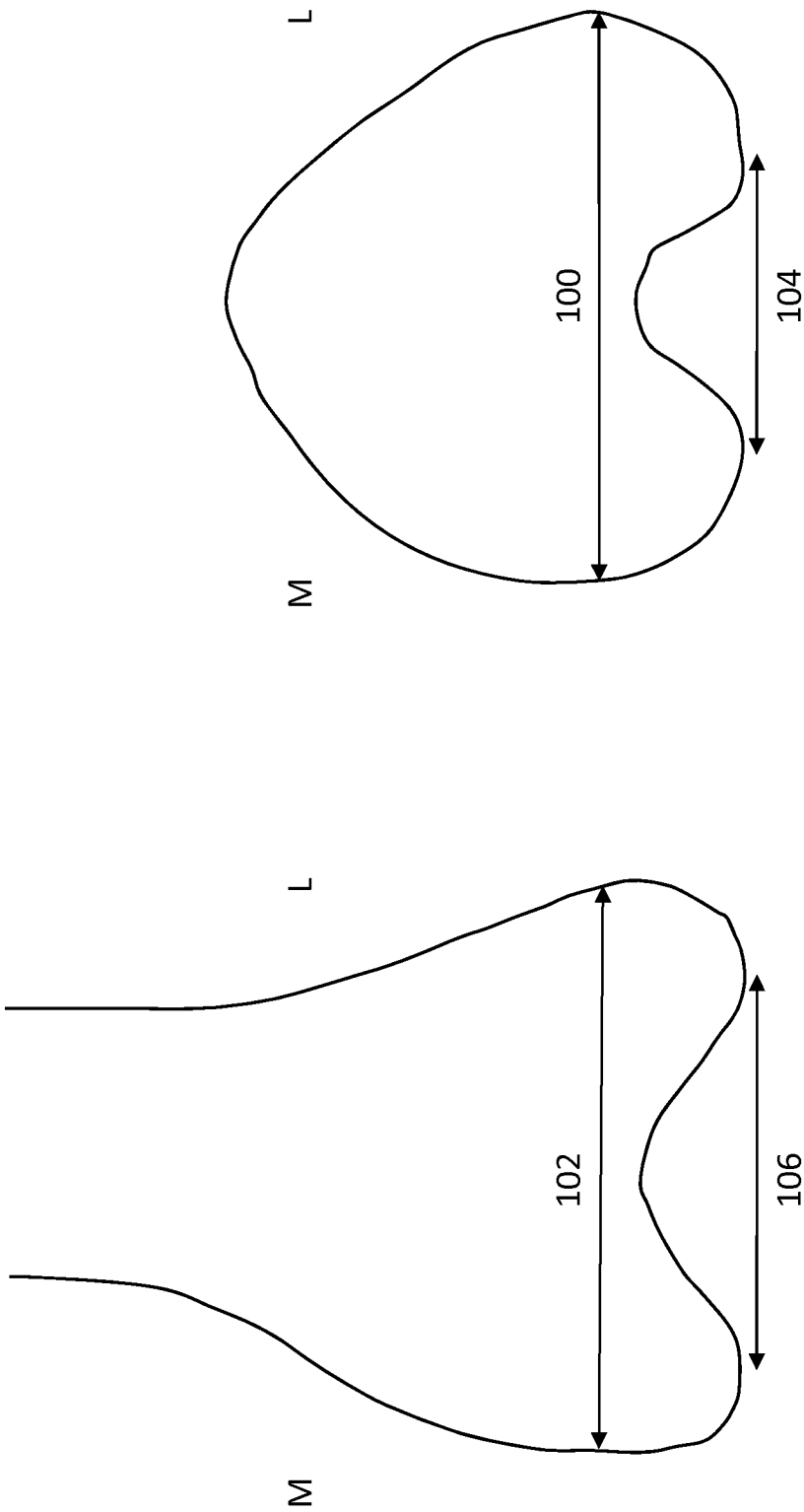


FIG. 1B

FIG. 1A

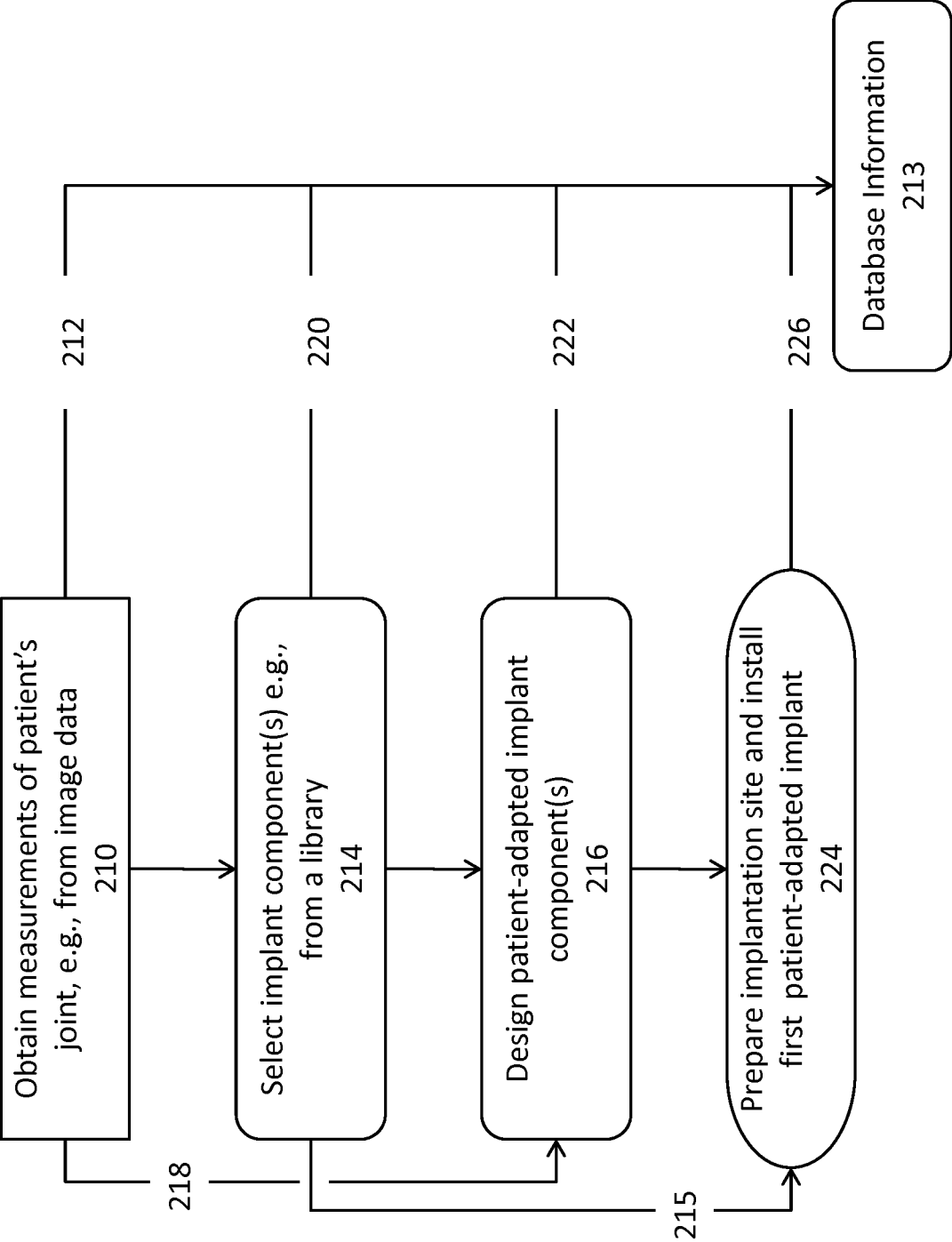


FIG. 2

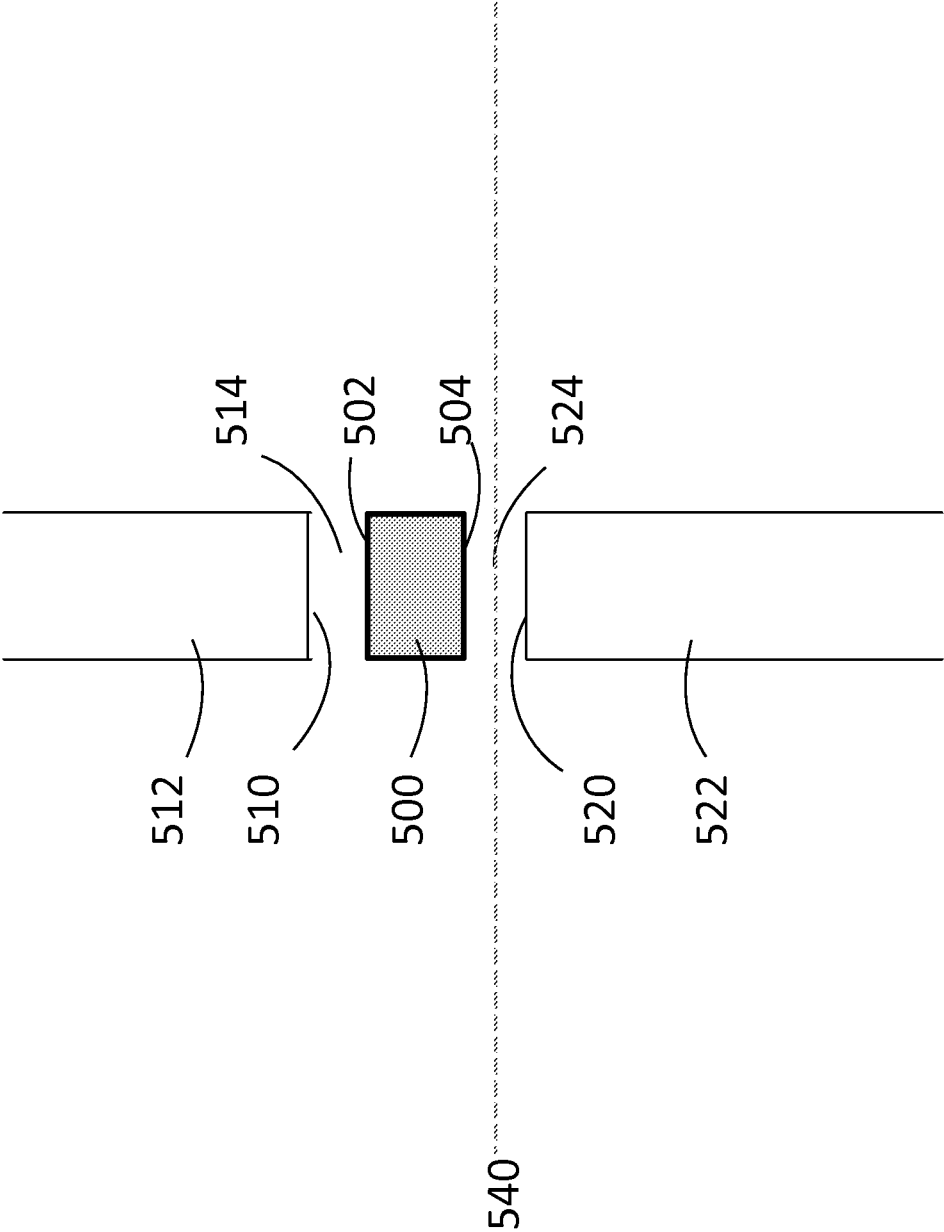


FIG. 5A

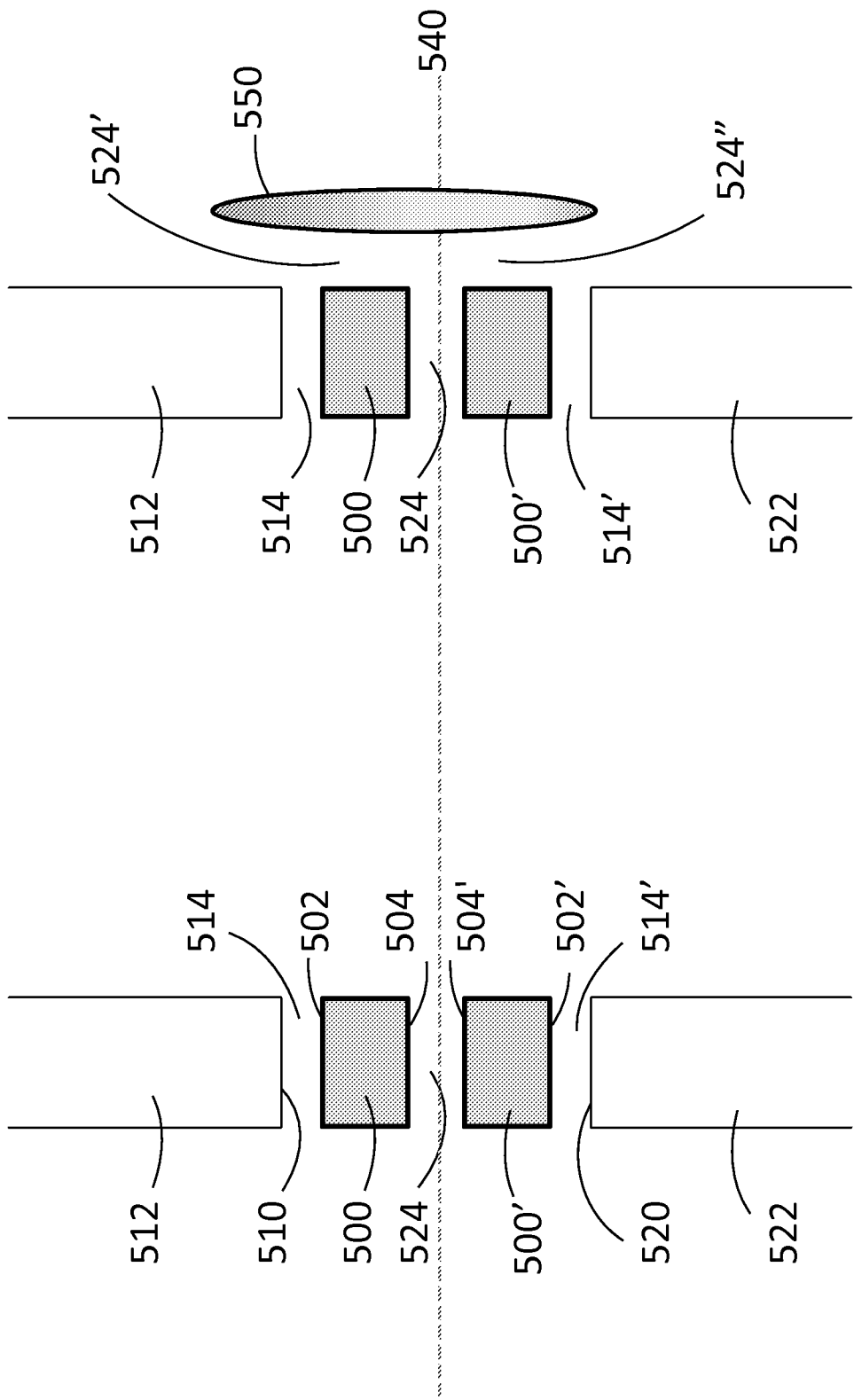


FIG. 5B

FIG. 5C

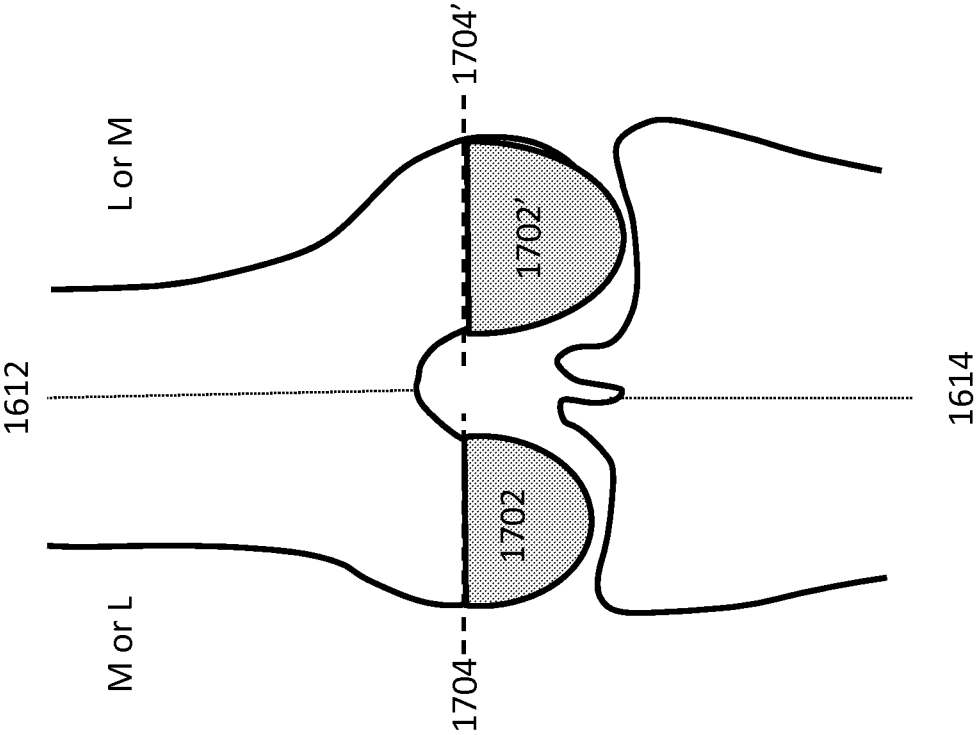


FIG. 17

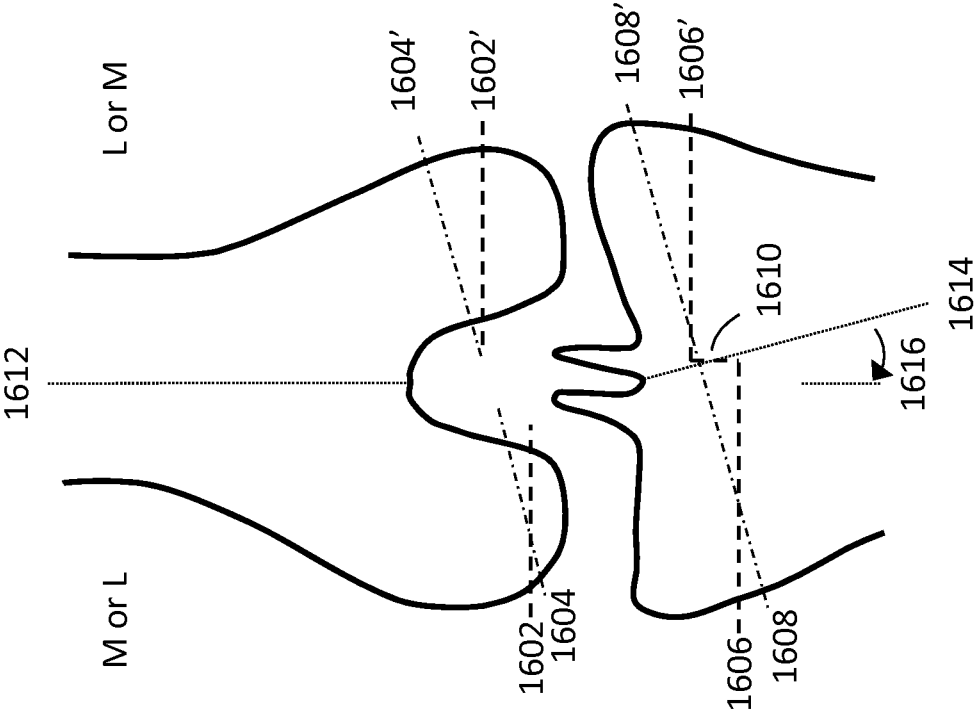


FIG. 16

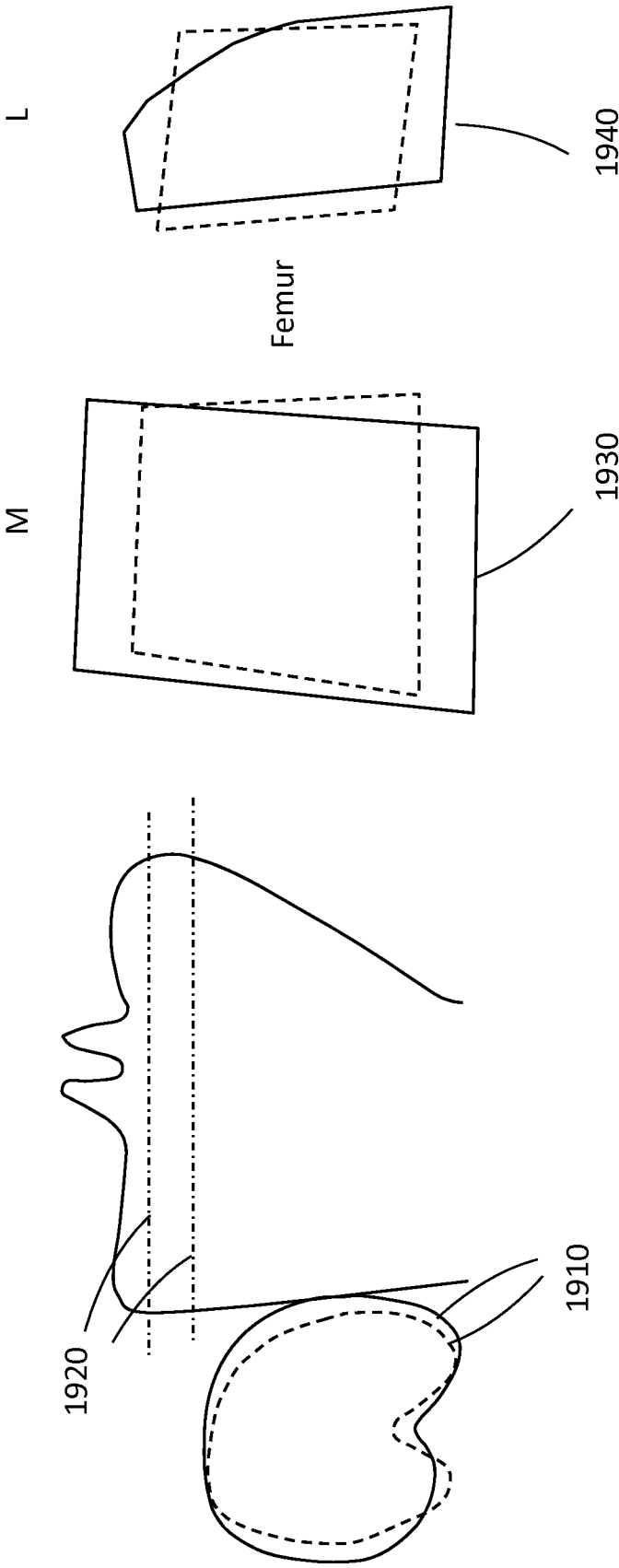


FIG. 19A

FIG. 19B

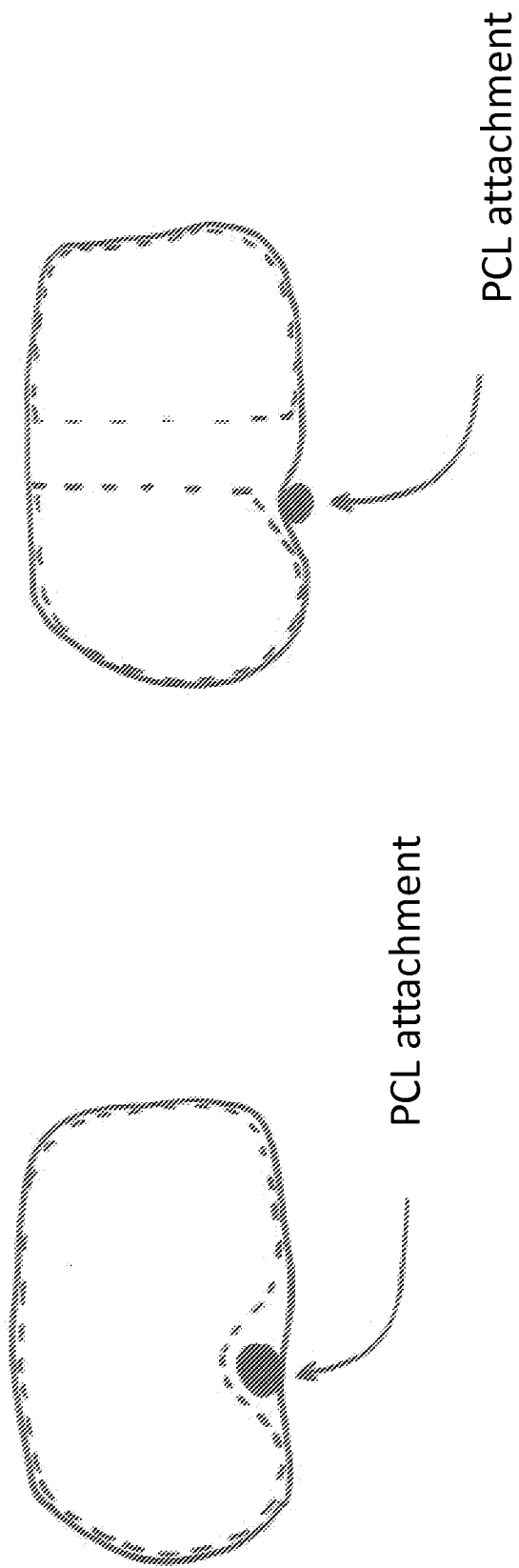


FIG. 22A

FIG. 22B

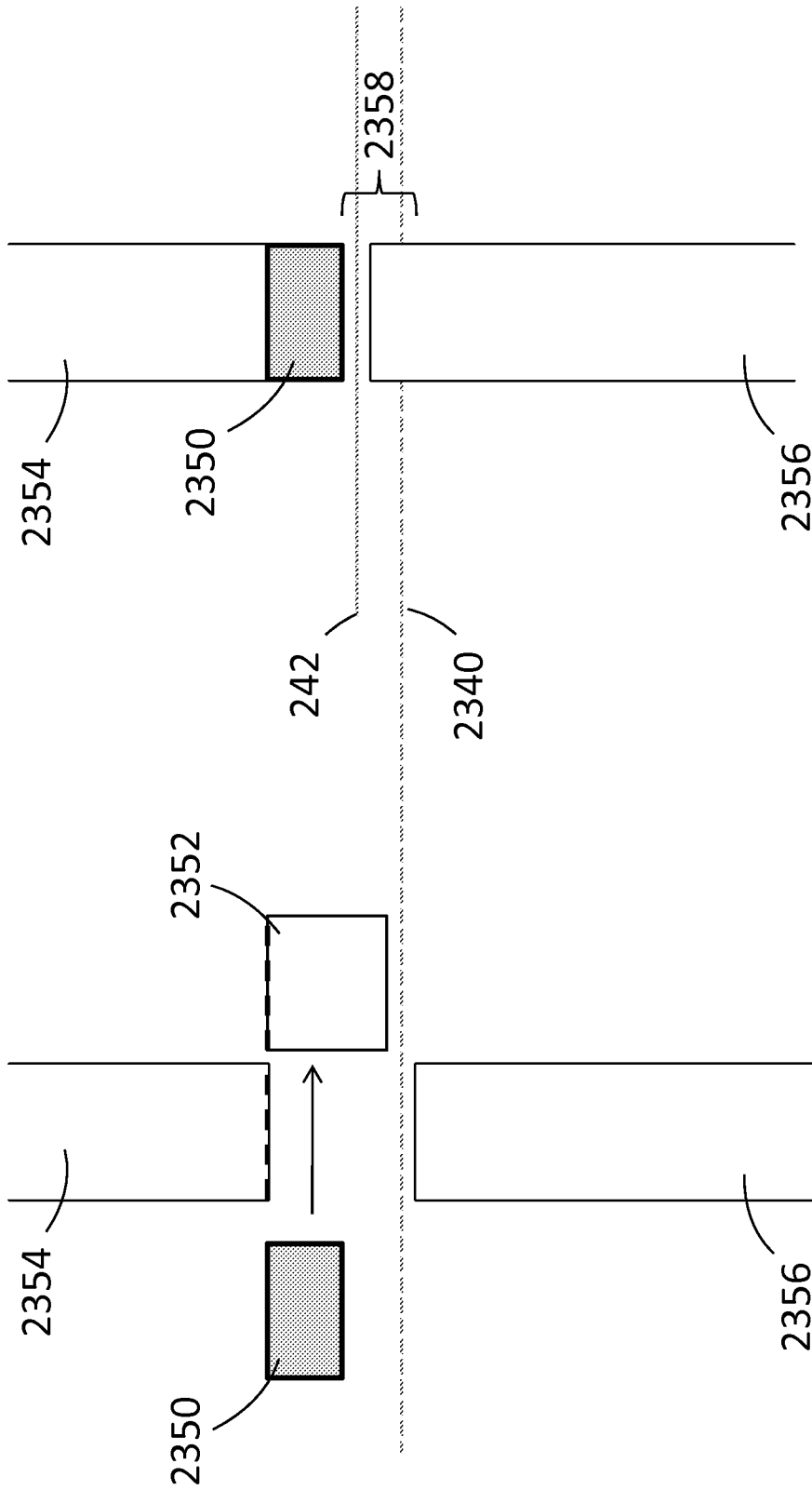


FIG. 23B  
(Prior Art)

FIG. 23A  
(Prior Art)

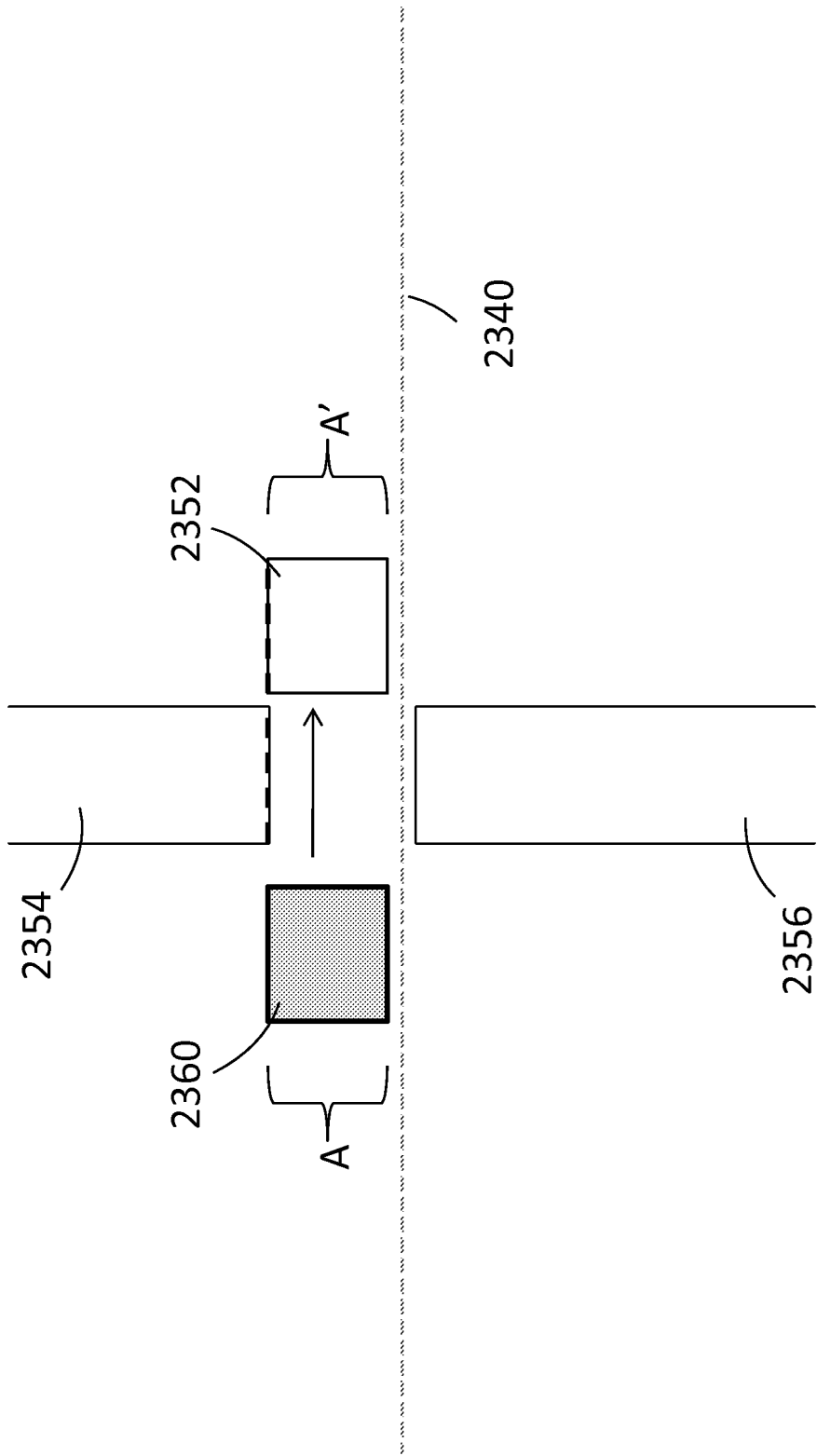


FIG. 23C

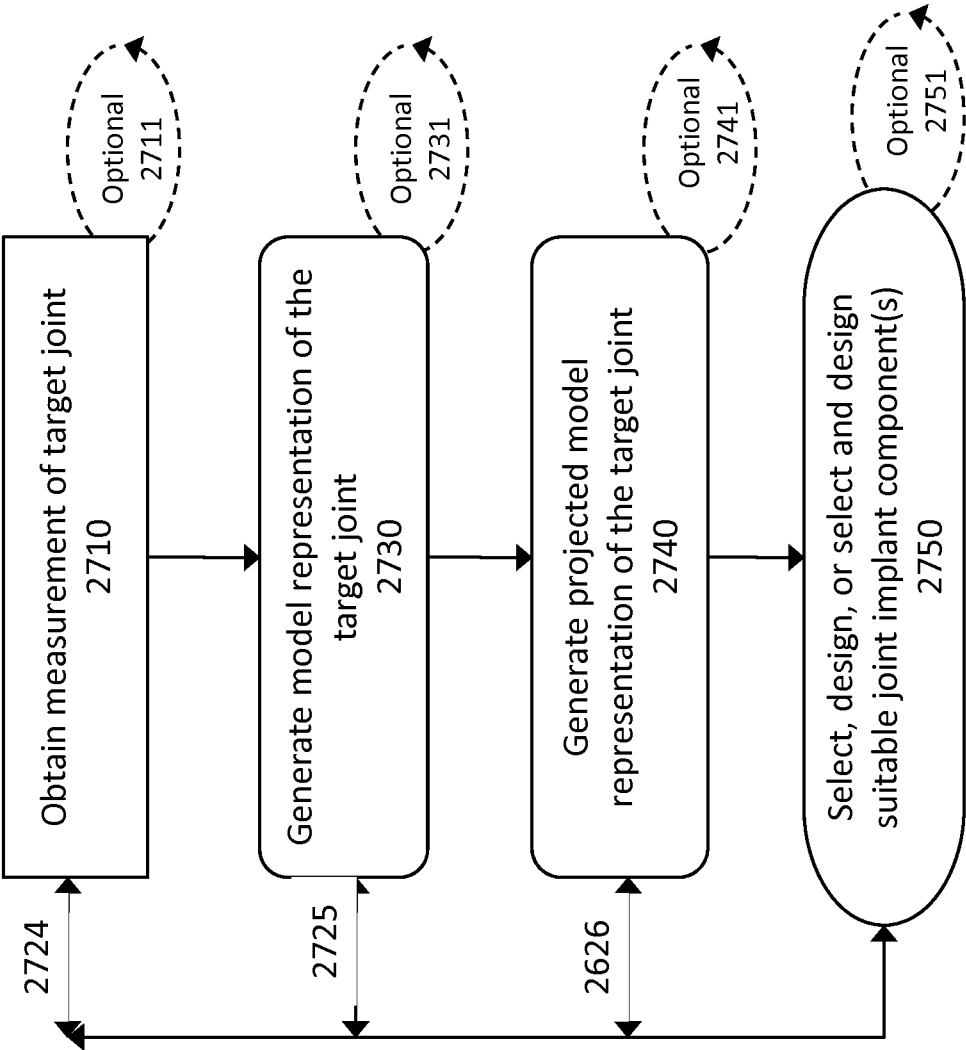
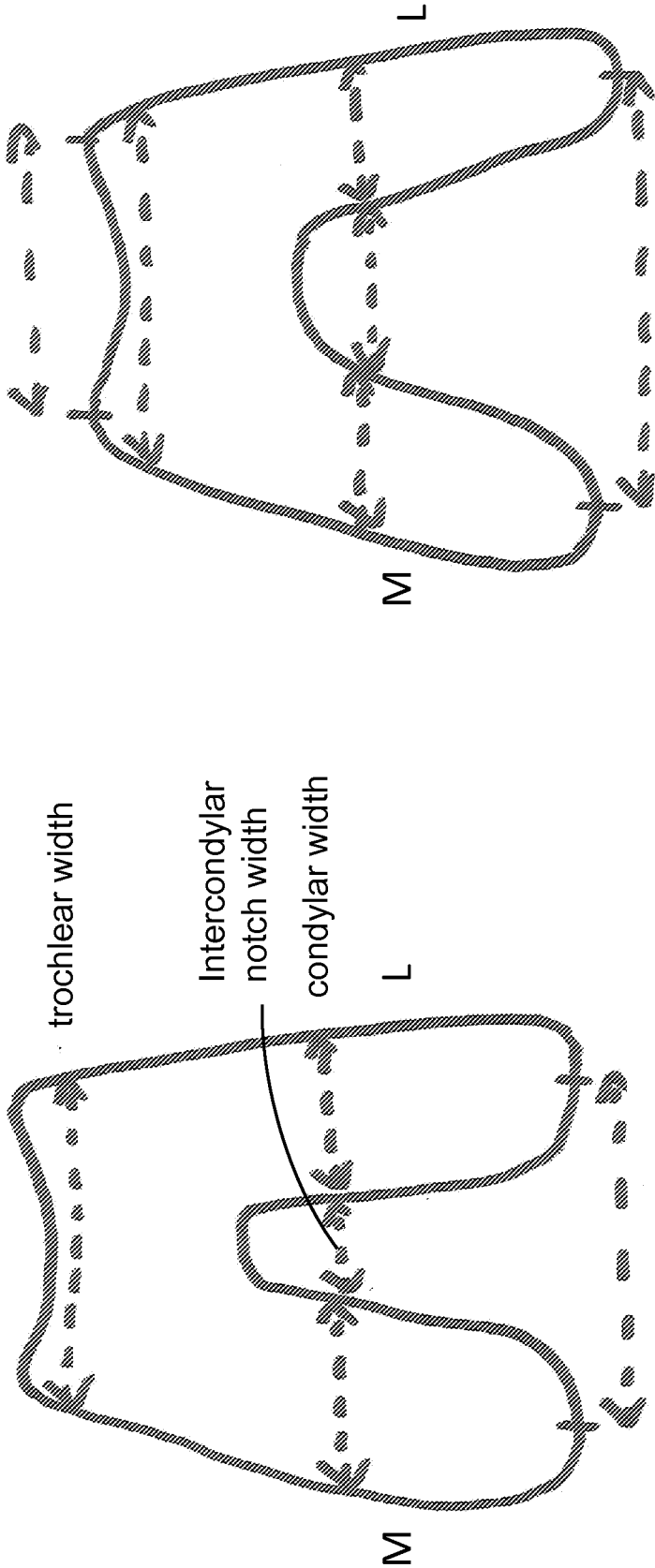


FIG. 27

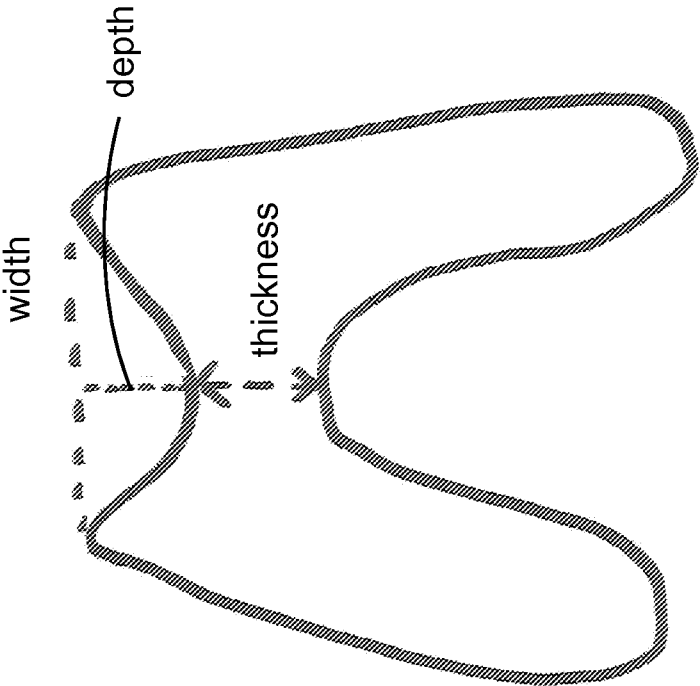


- Condyle width
- Medial different from lateral condyle

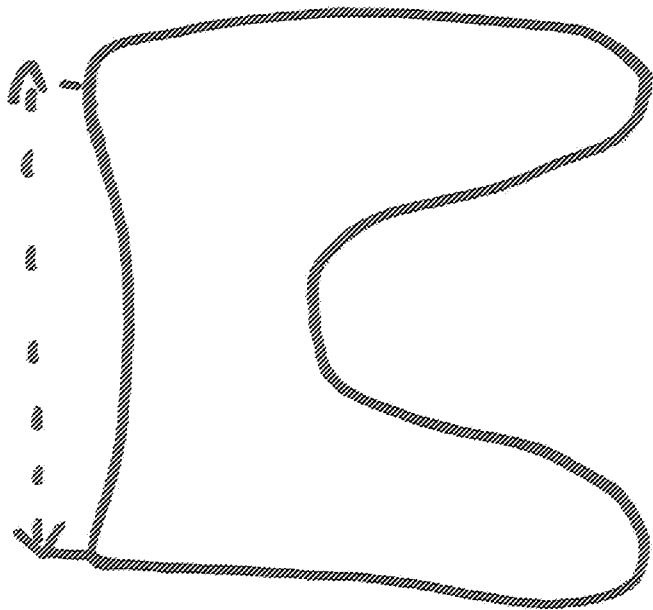
FIG. 28A

- Wide notch
- Narrow condyle
- Medial different from lateral condyle

FIG. 28B



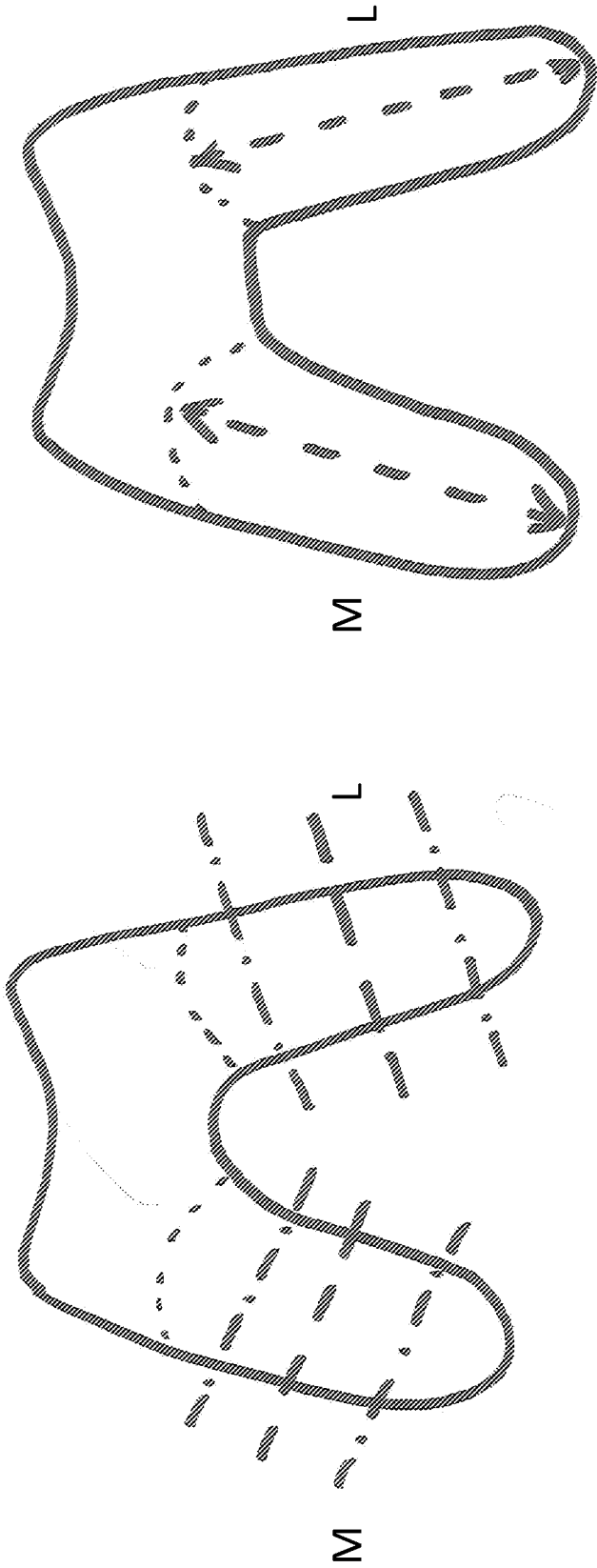
- Small trochlea thickness
- Deep trochlea depth



- Wide trochlea thickness
- Shallow trochlea depth

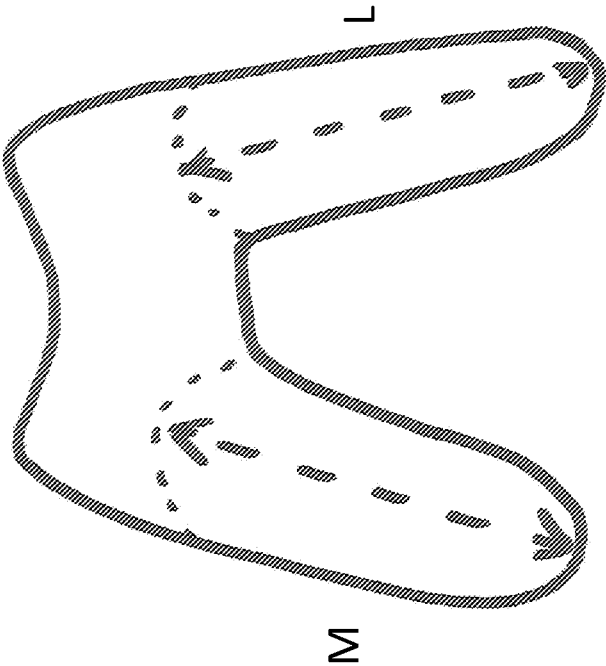
FIG. 28C

FIG. 28D



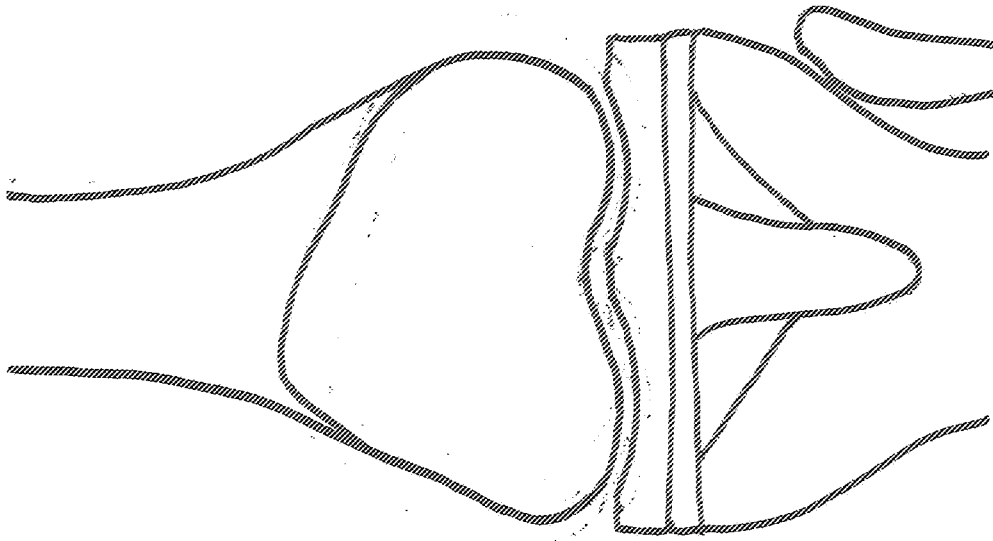
- Measure of condyle width
- Each condyle assessed independently
- One or more measures per condyle

FIG. 28E



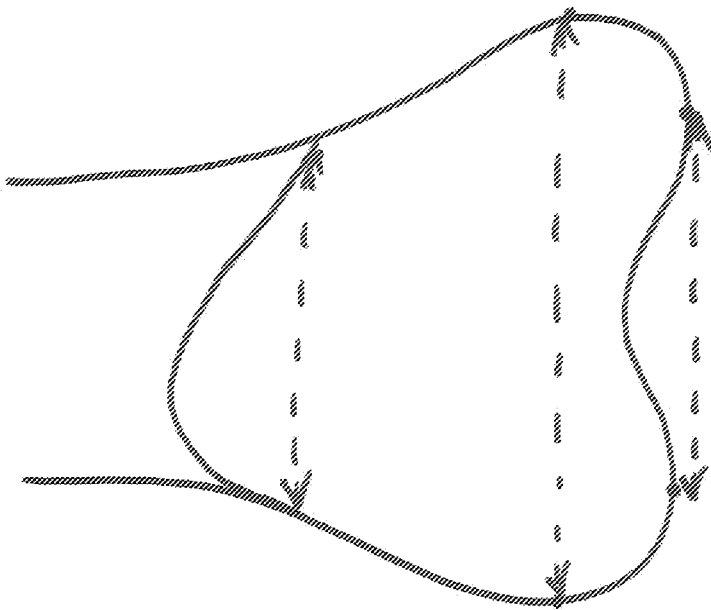
- Measure of condyle length
- Each condyle assessed independently
- One or more measures can apply per condyle

FIG. 28F



- "Normal" femur / tibia width ratio

FIG. 28H



- Various M-L measures  
- See and compare these and tibial trays in  
FIGS. 63A-64F

FIG. 28G

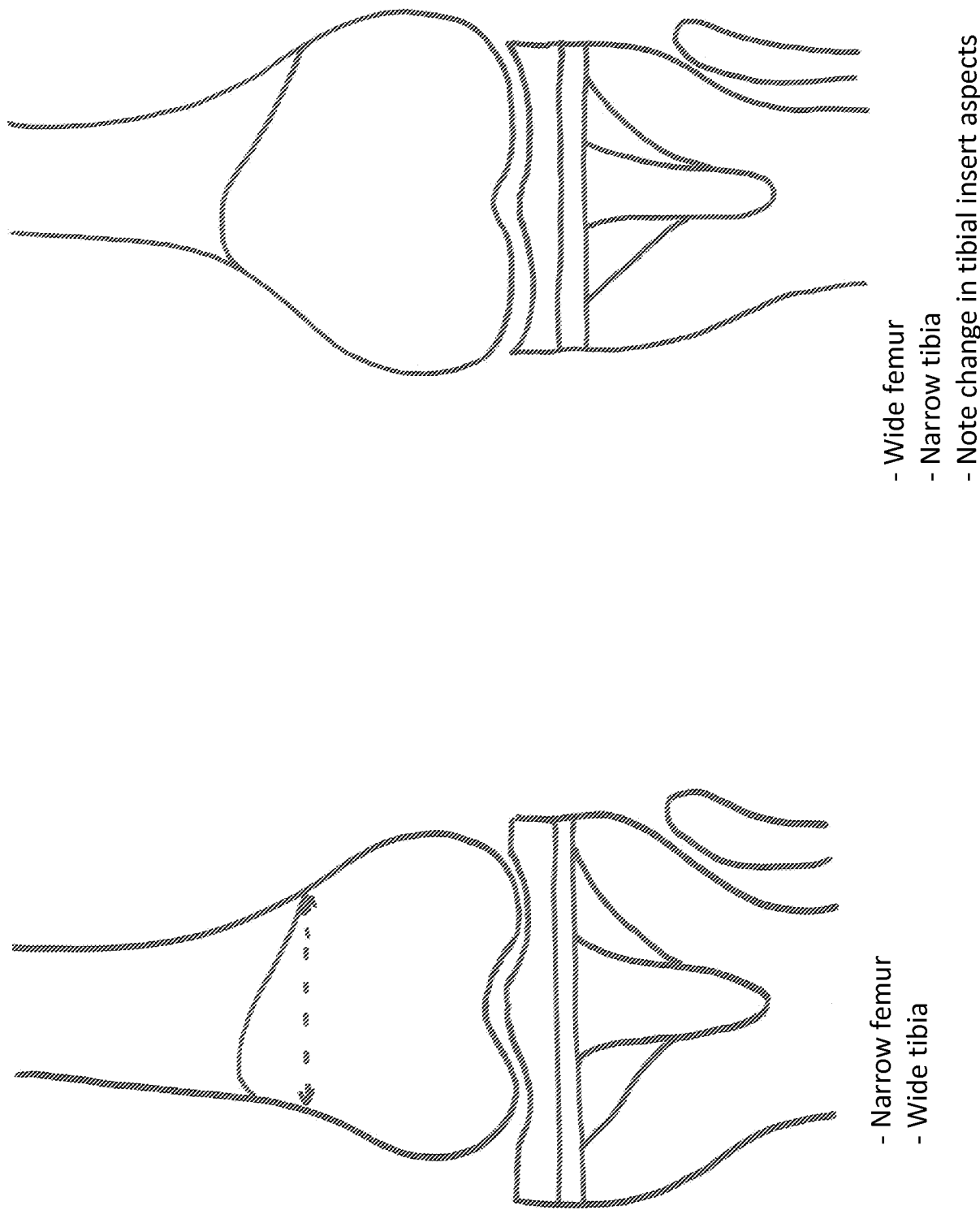


FIG. 28I

FIG. 28J

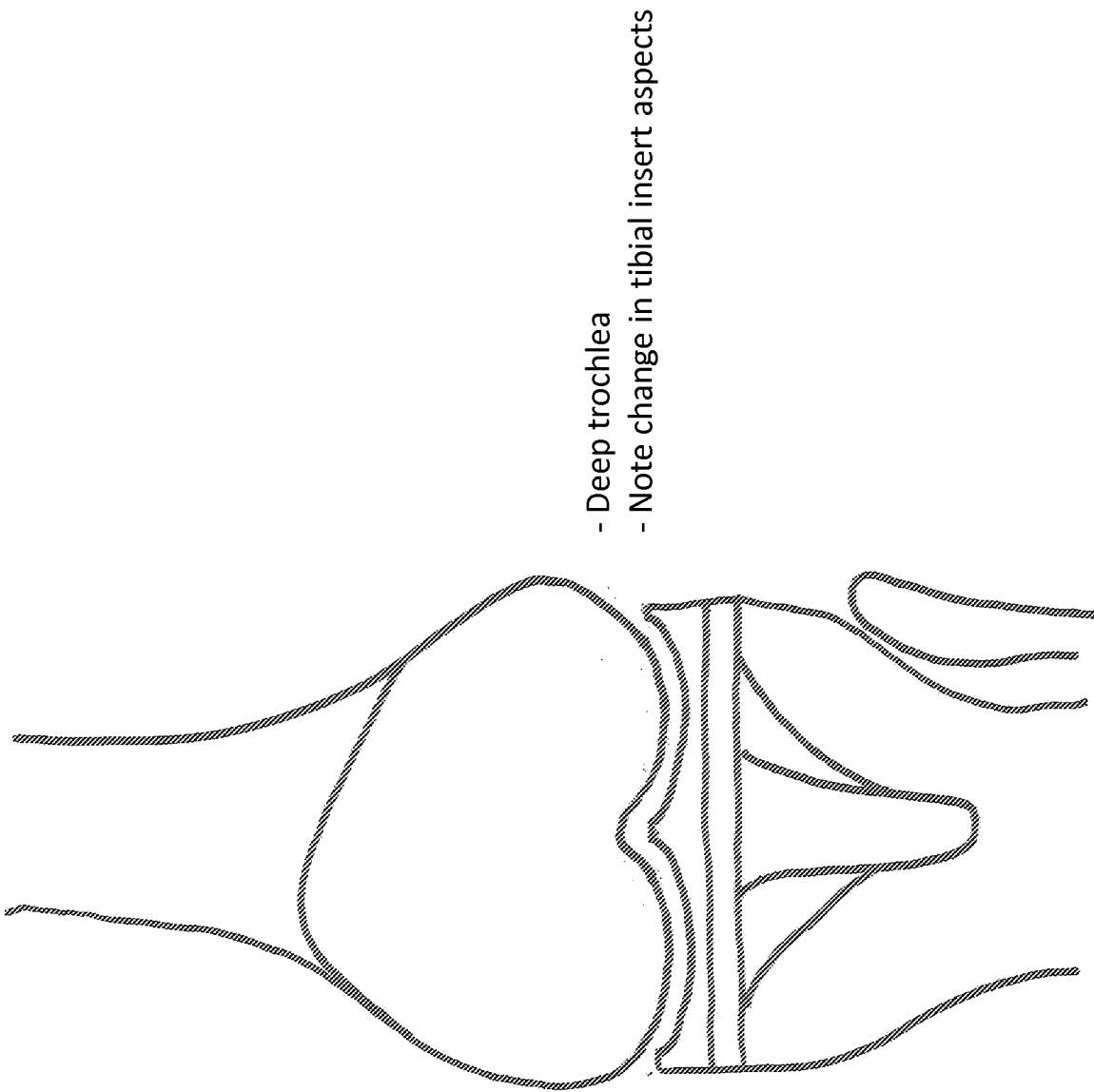


FIG. 28K



FIG. 49B

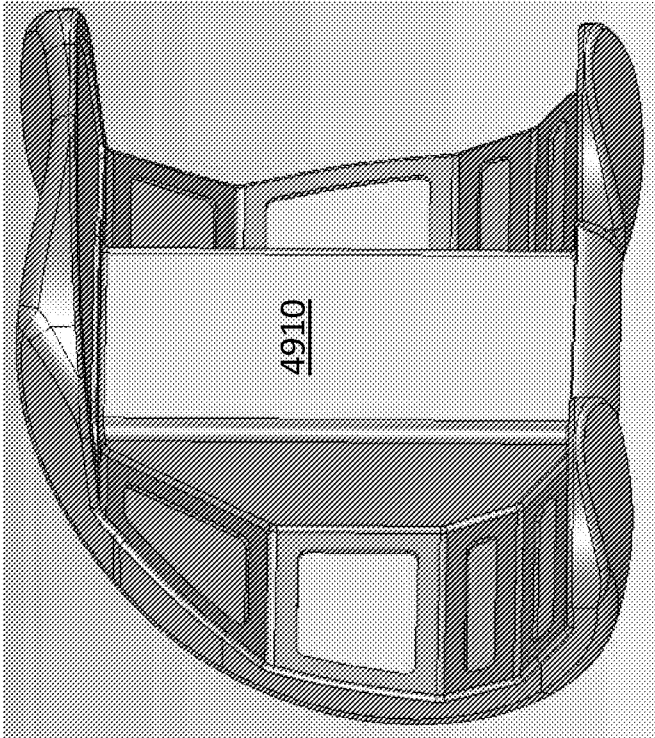


FIG. 49A

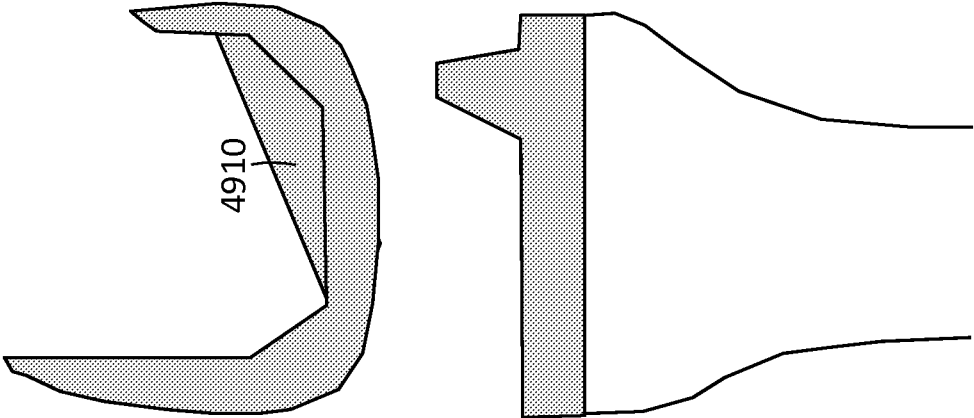


FIG. 50A

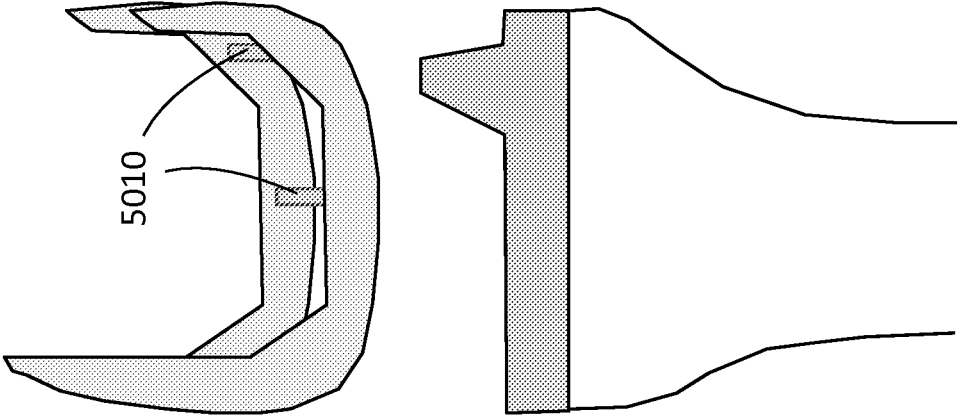


FIG. 50B

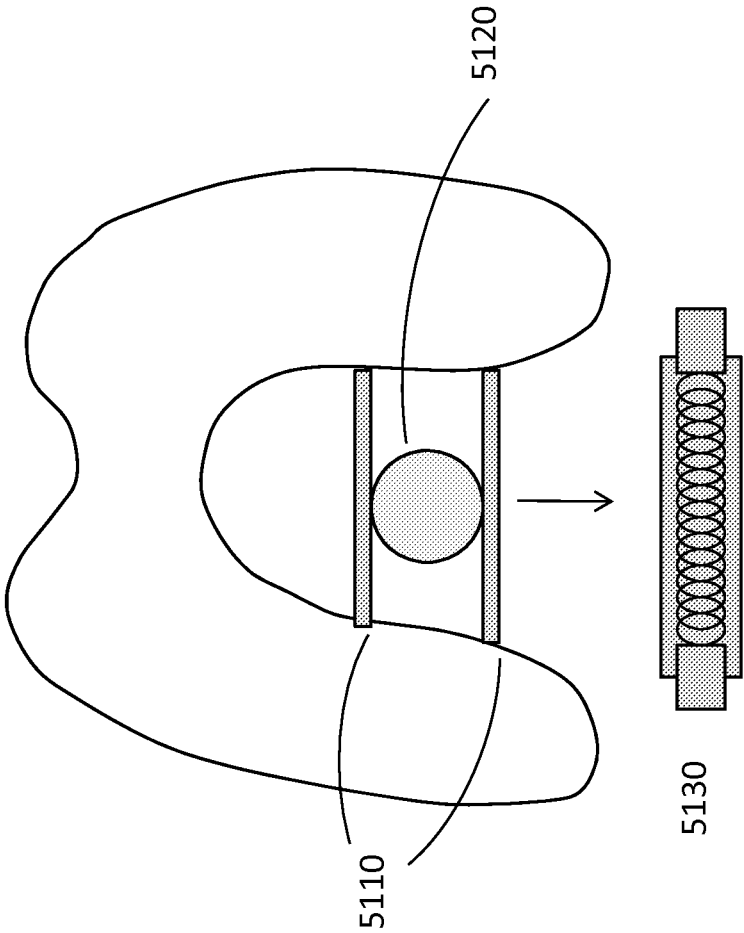


FIG. 51

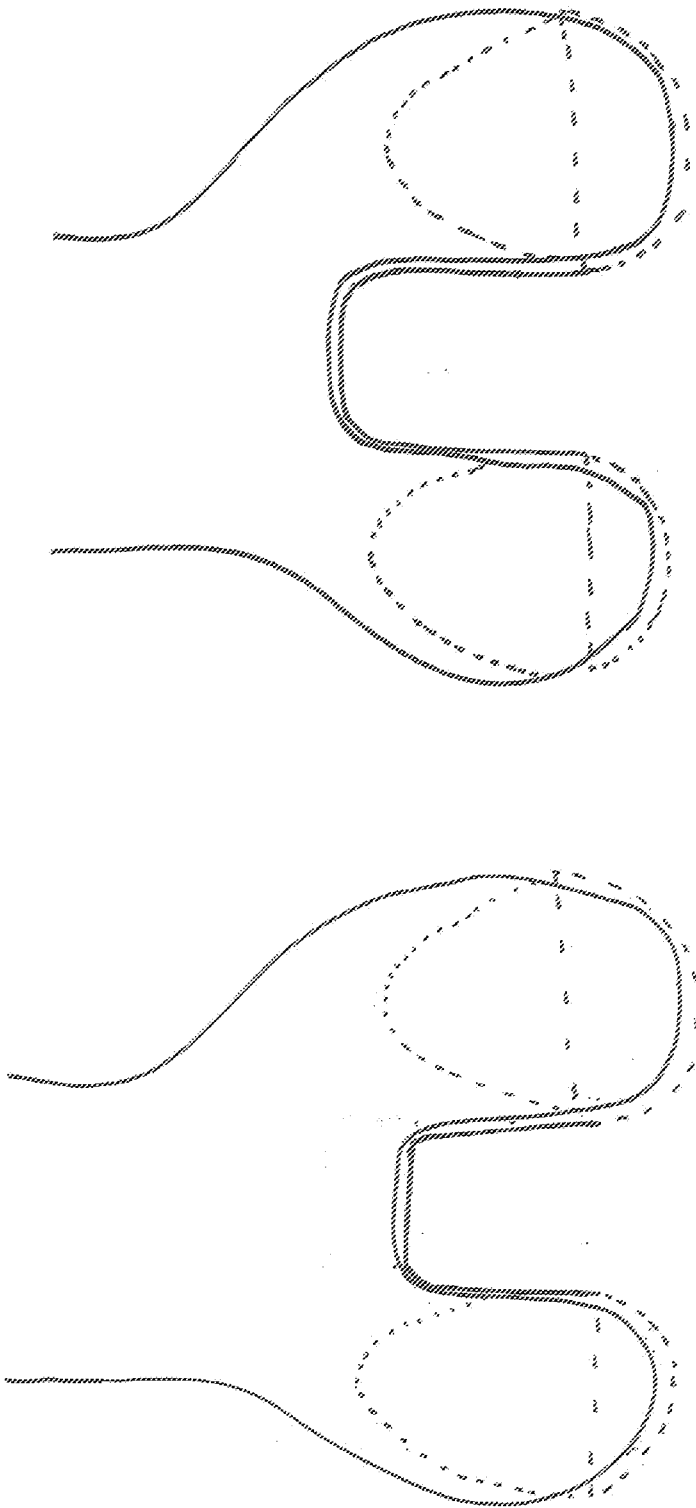


FIG. 52B

FIG. 52A

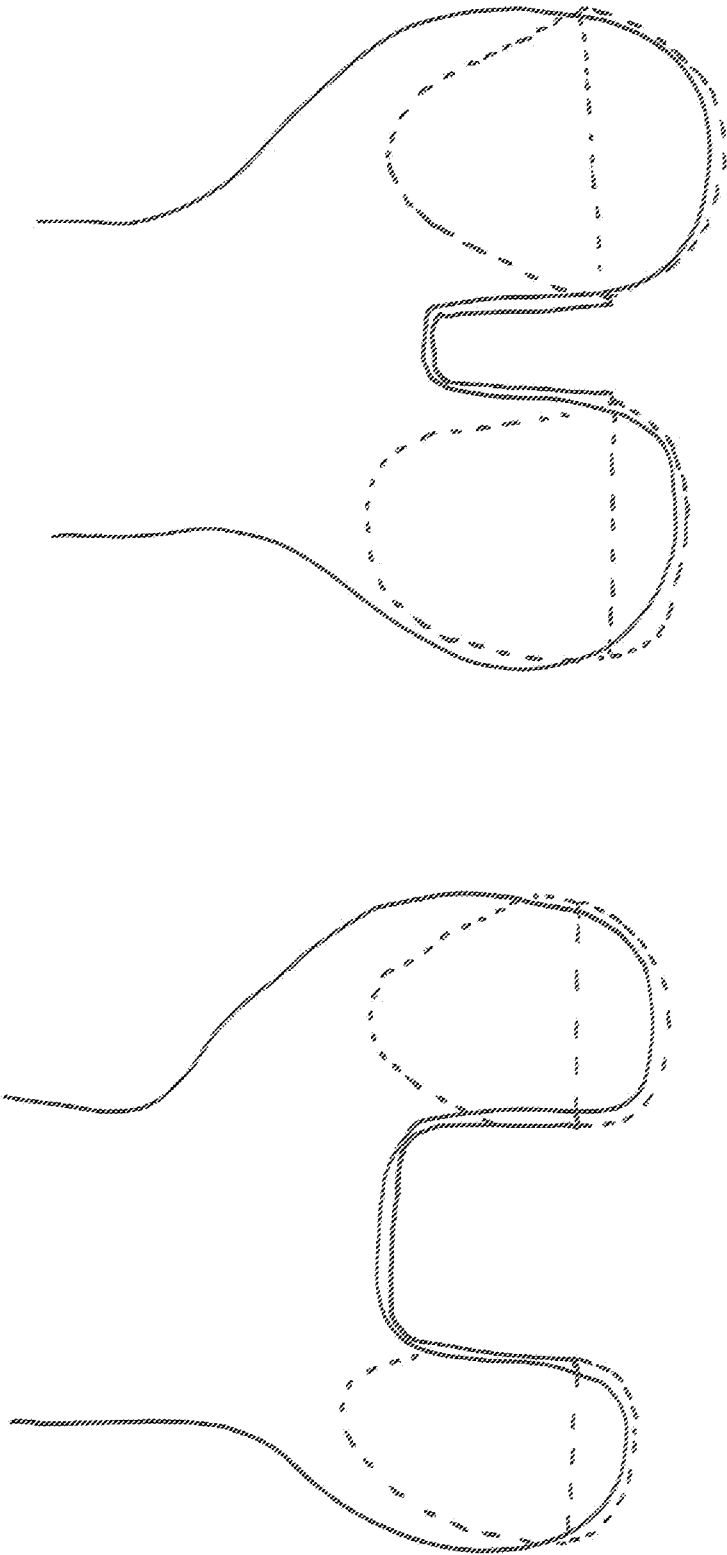


FIG. 52D

FIG. 52C

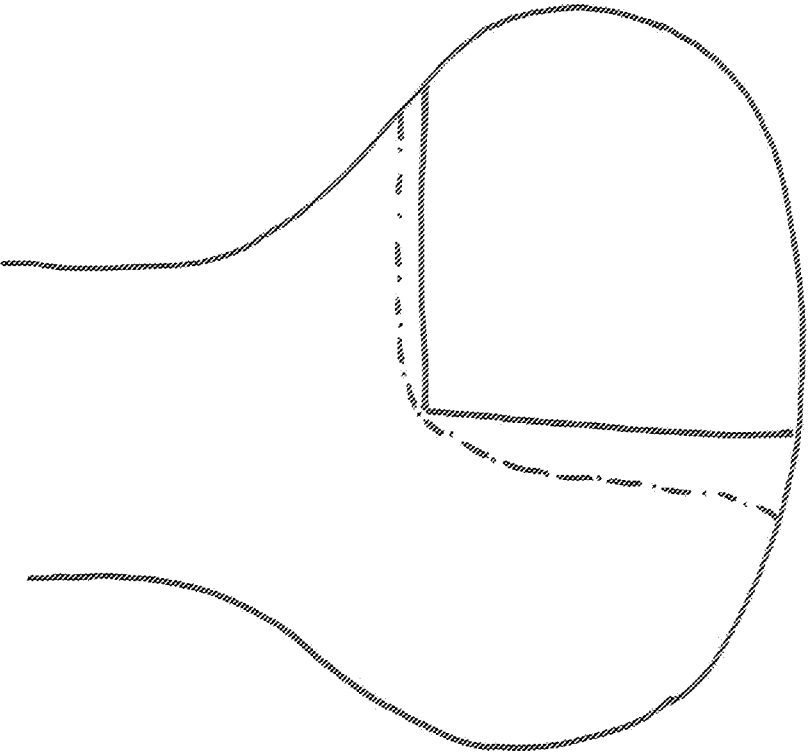


FIG. 52F

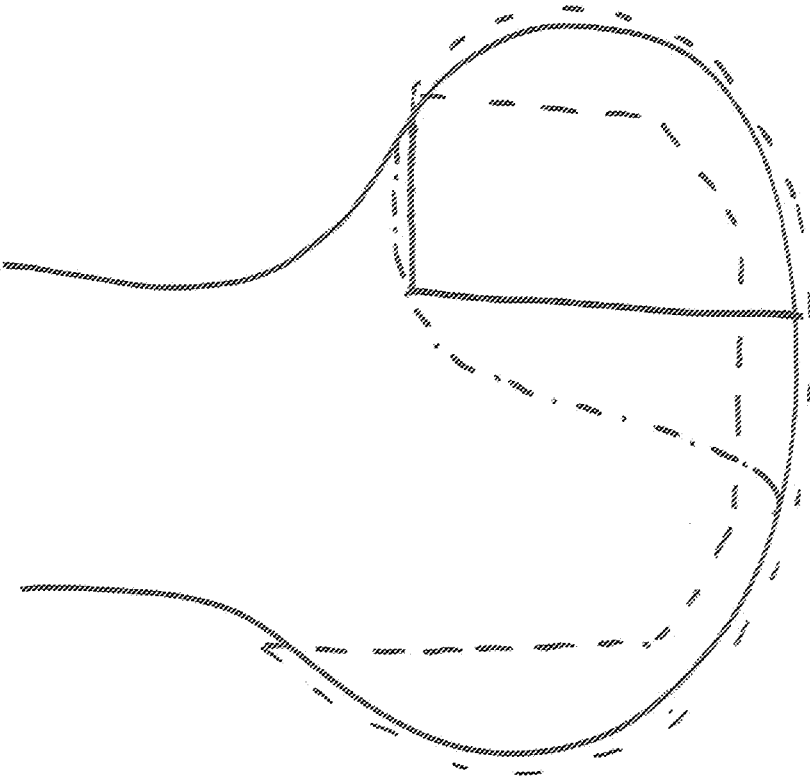


FIG. 52E

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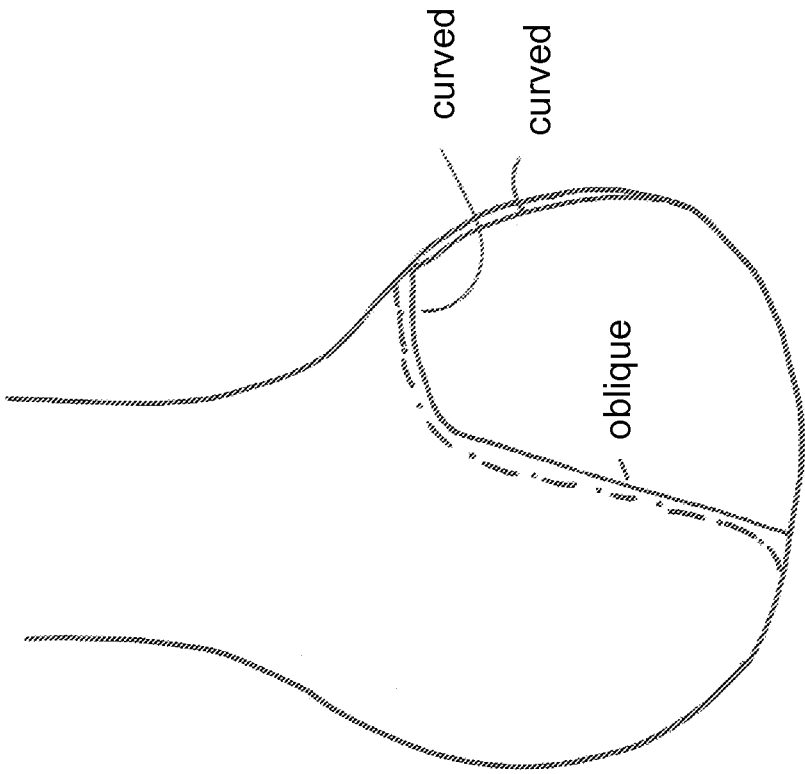


FIG. 52H

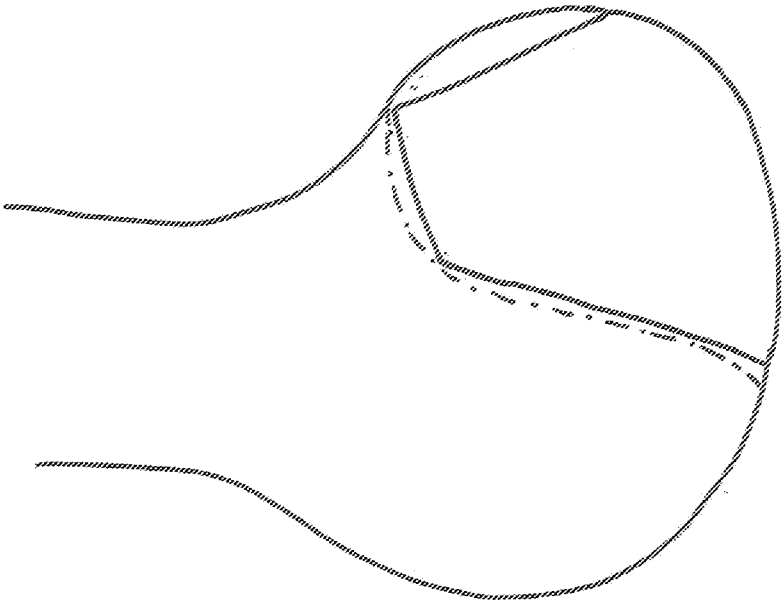


FIG. 52G

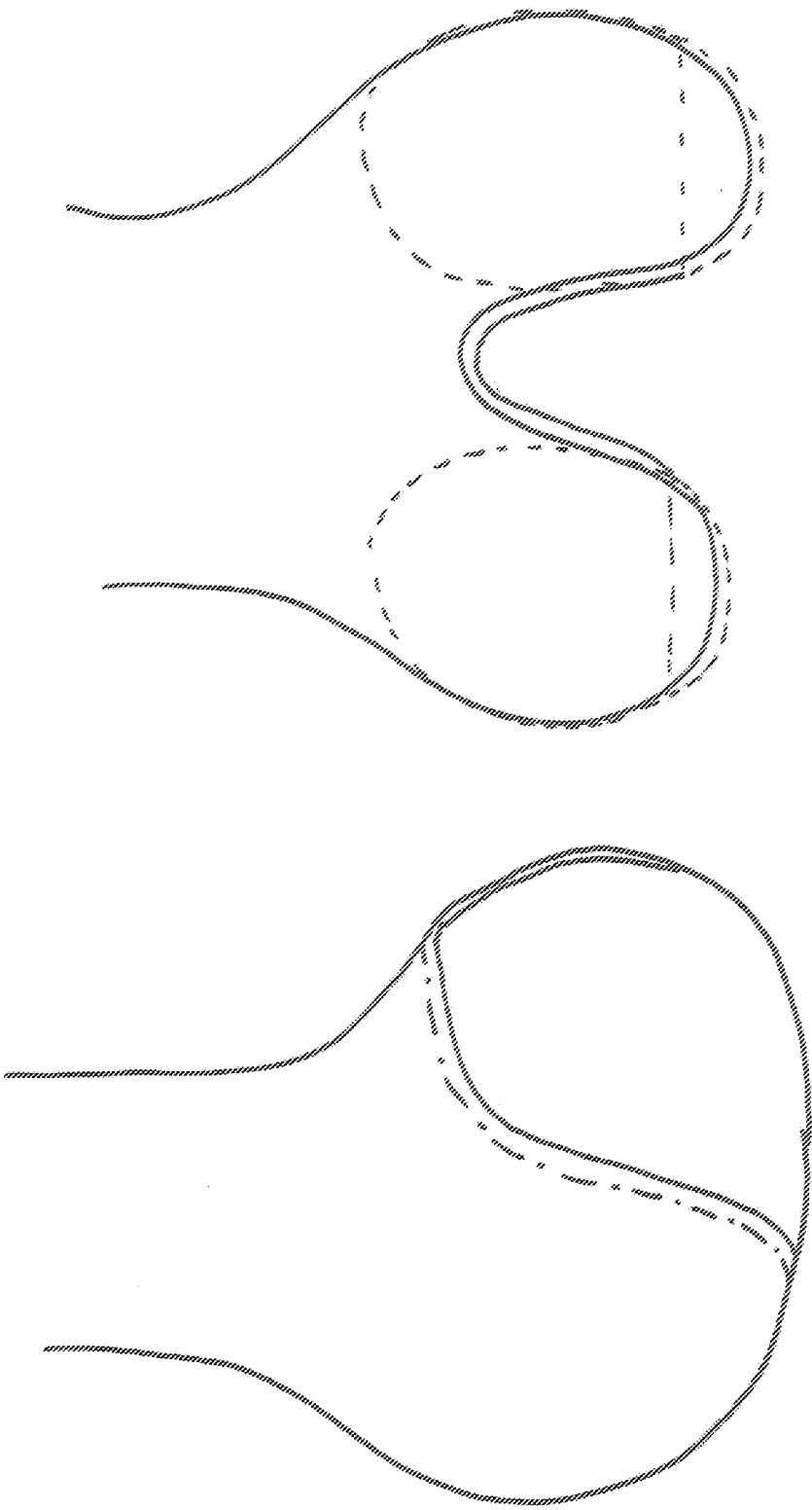


FIG. 52J

FIG. 52I

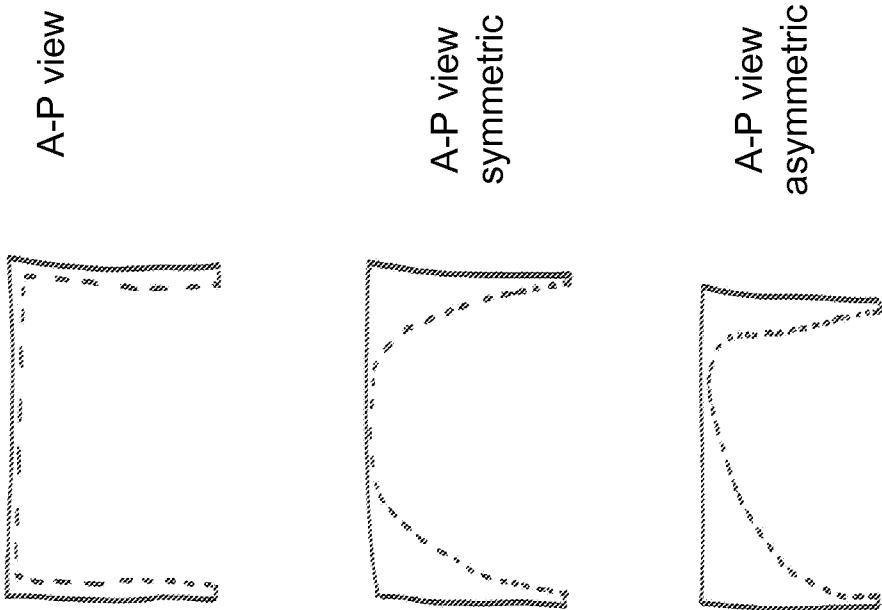


FIG. 52L

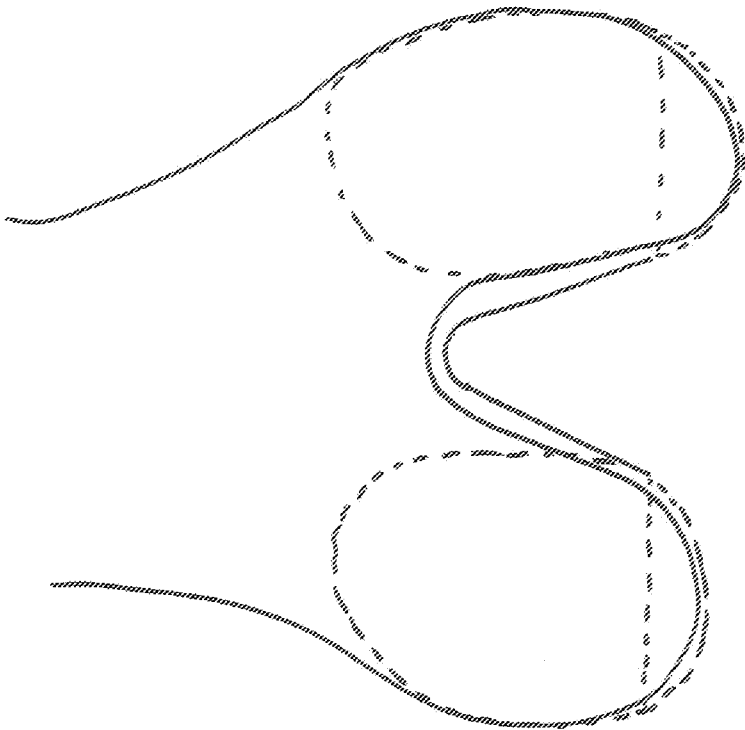


FIG. 52K

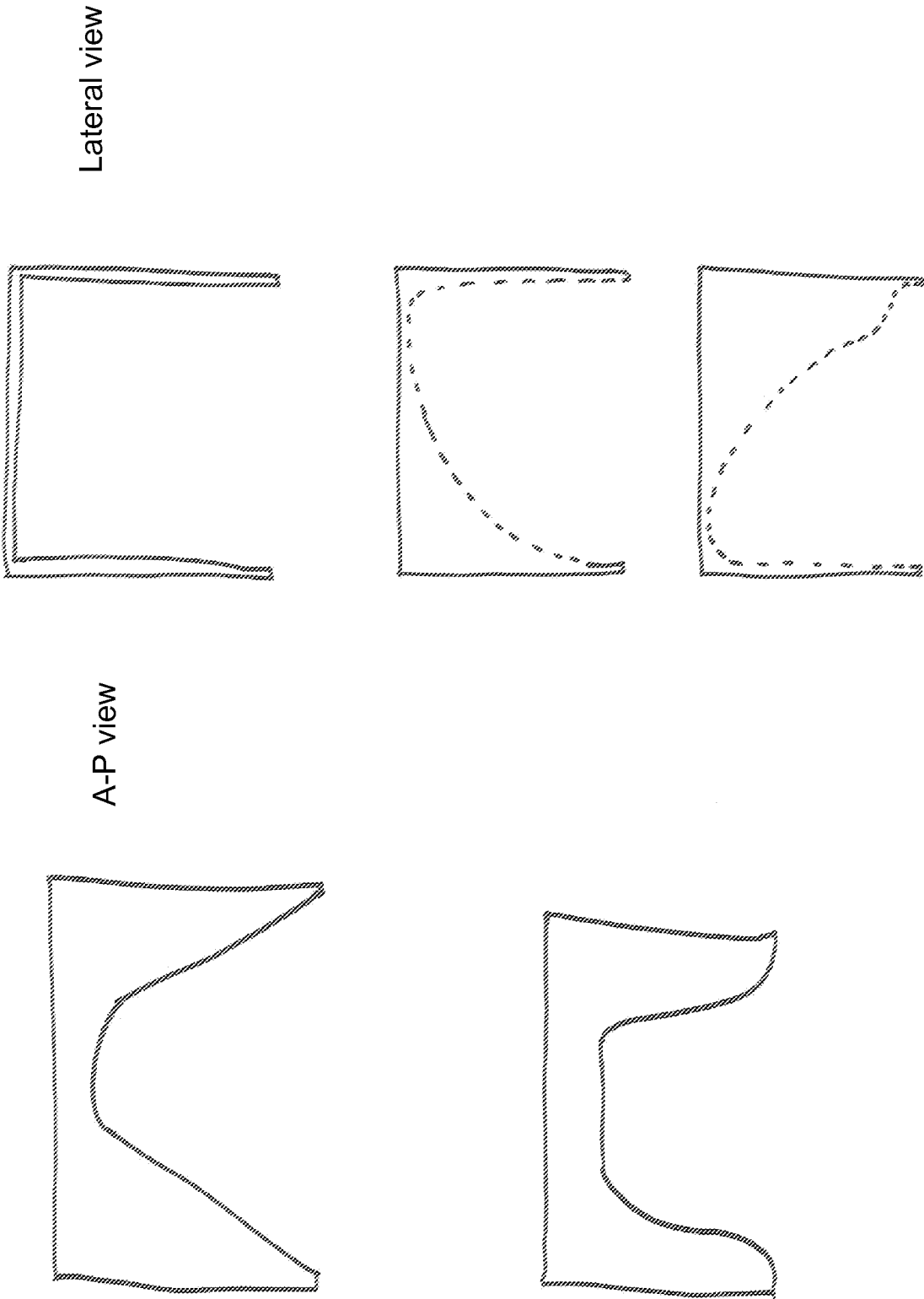
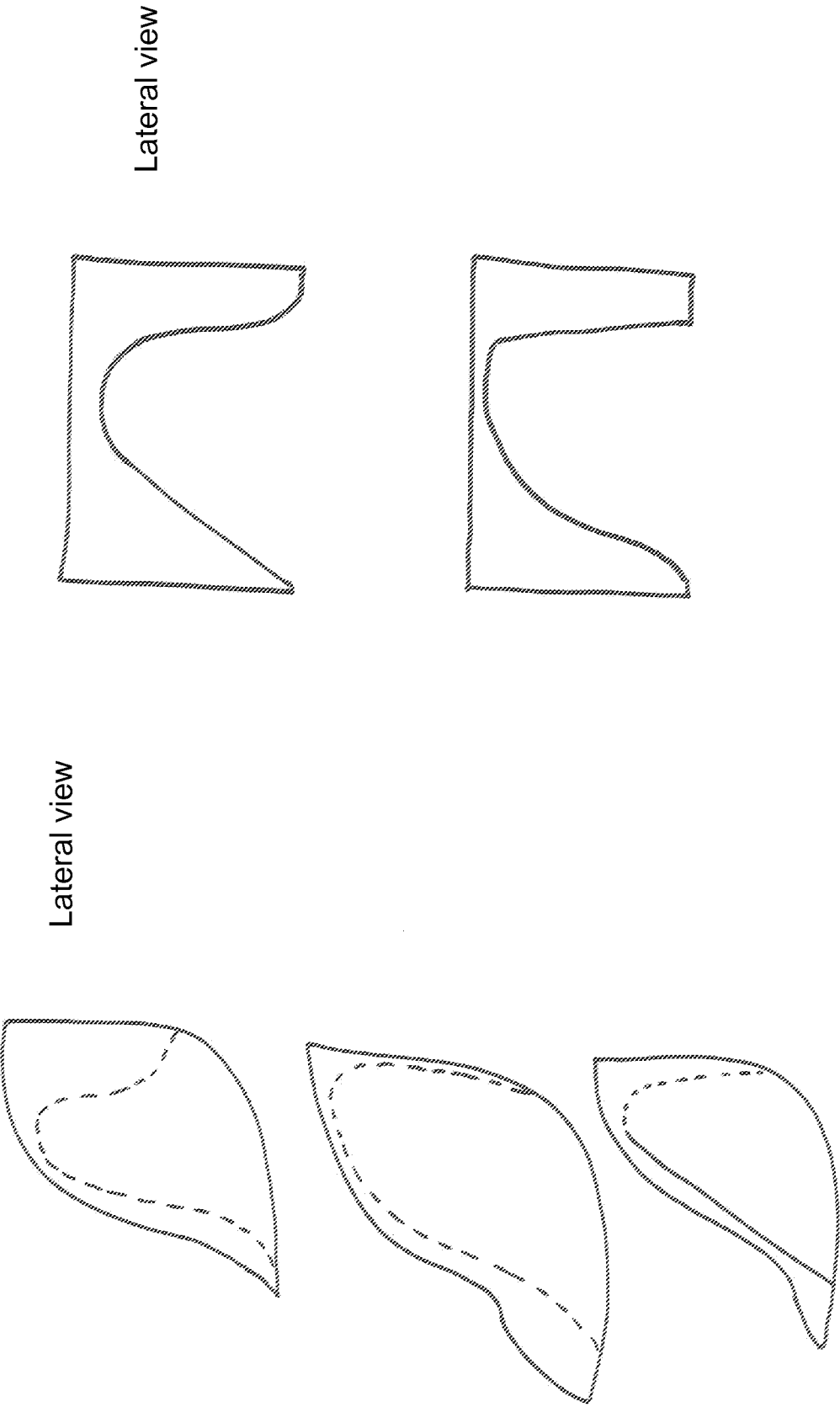


FIG. 52M

FIG. 52N



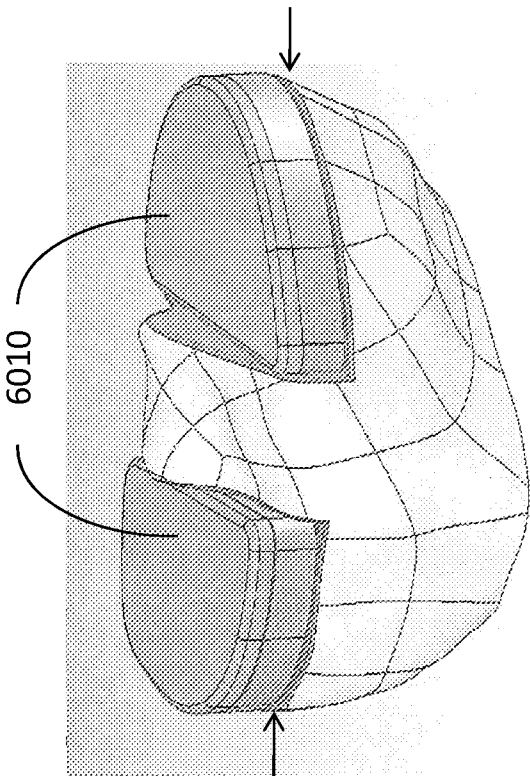


FIG. 60B

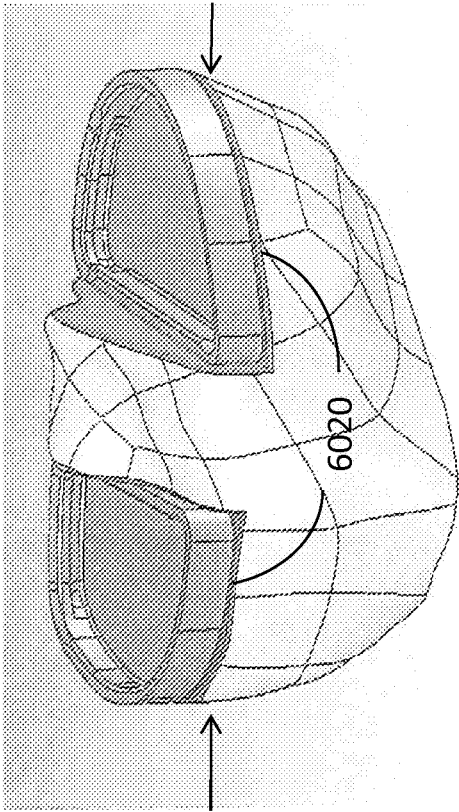


FIG. 60A

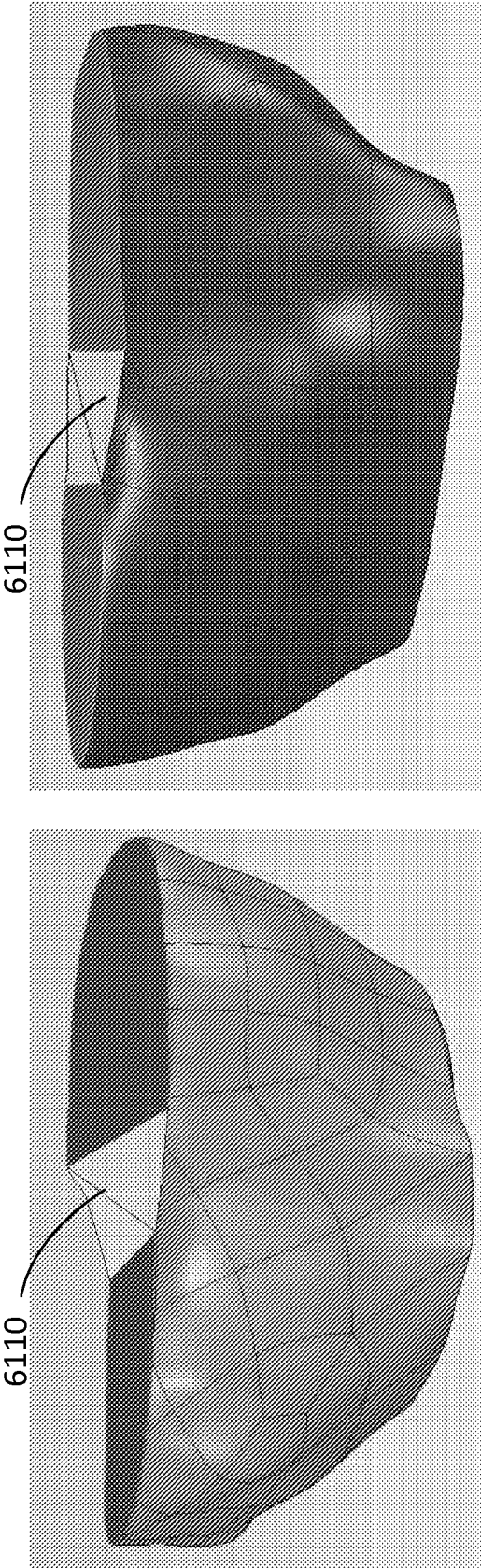


FIG. 61A

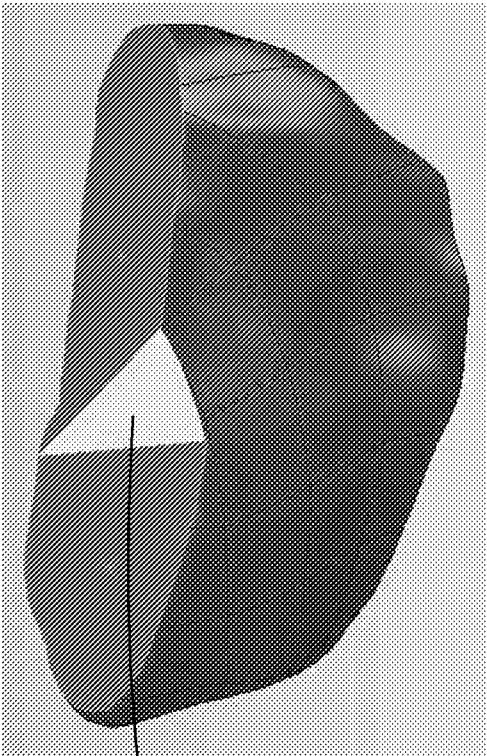


FIG. 61B

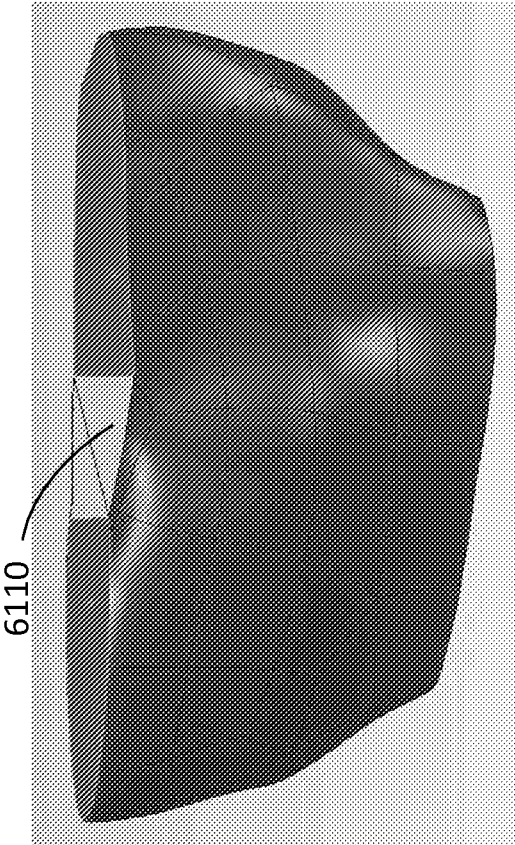


FIG. 61C

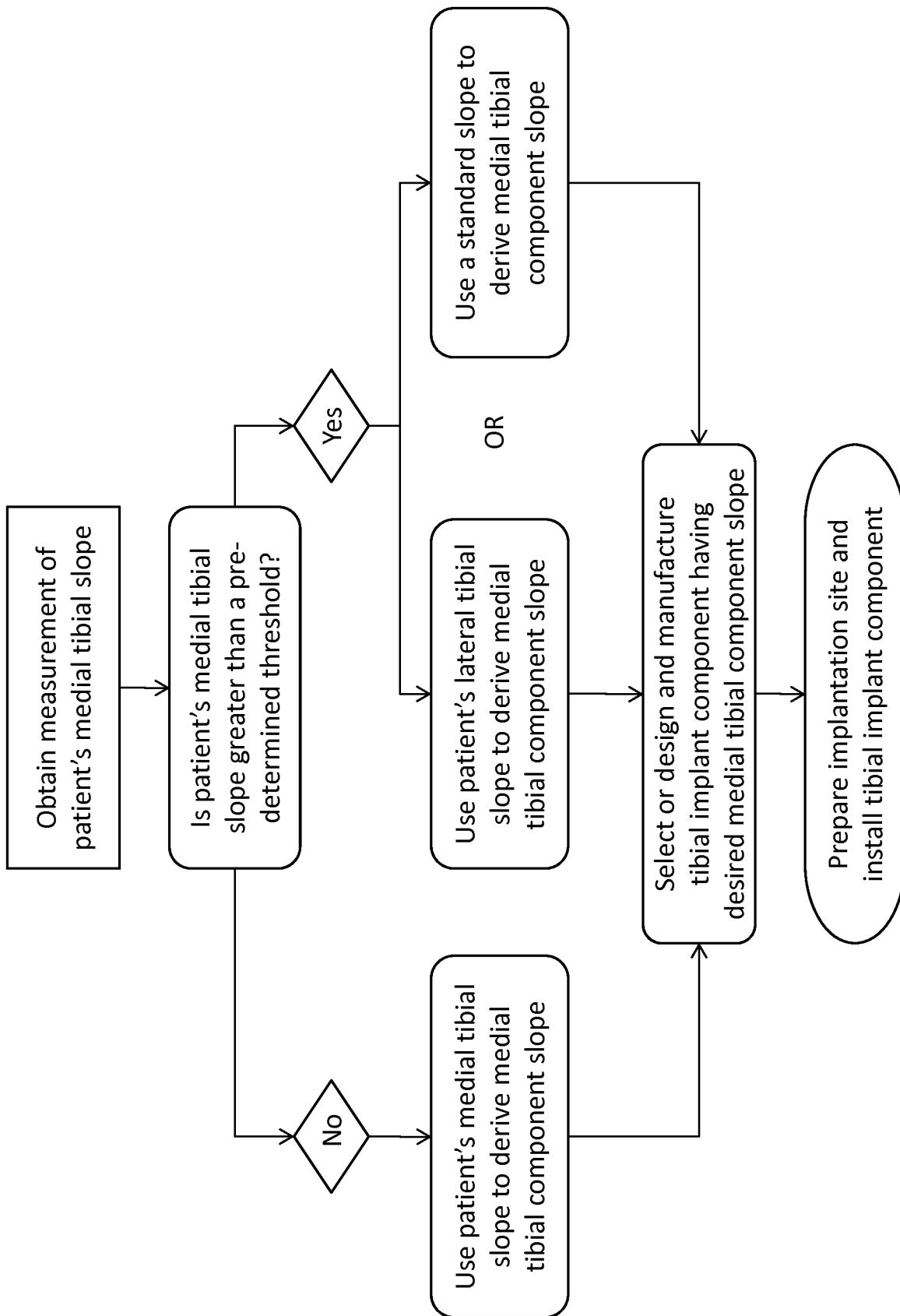


FIG. 62A

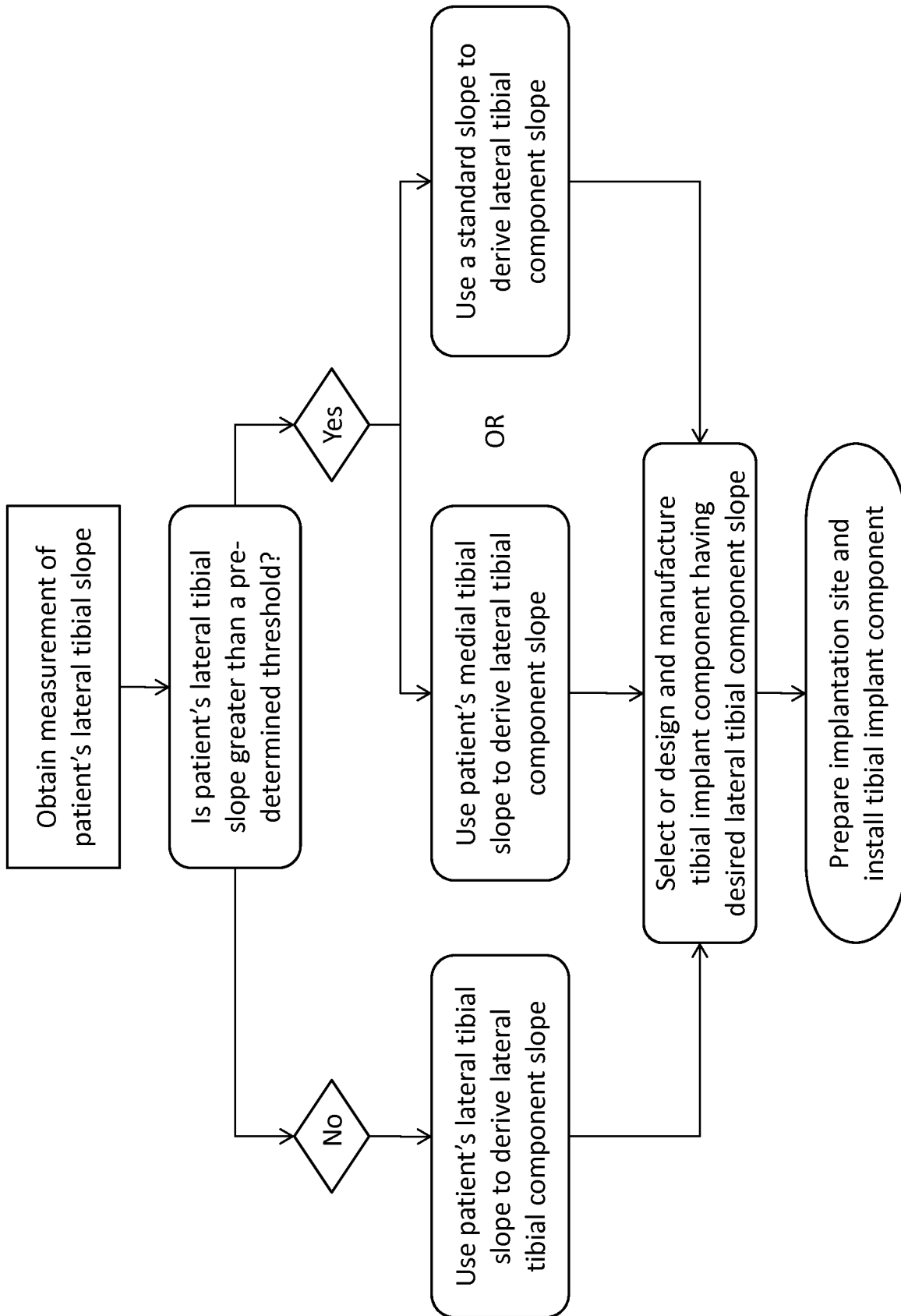


FIG. 62B

FIG. 63A

Same height  
medial and lateral

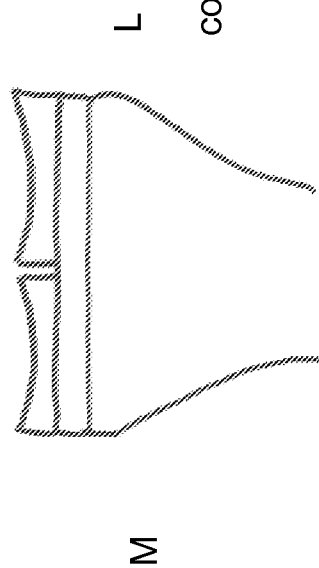
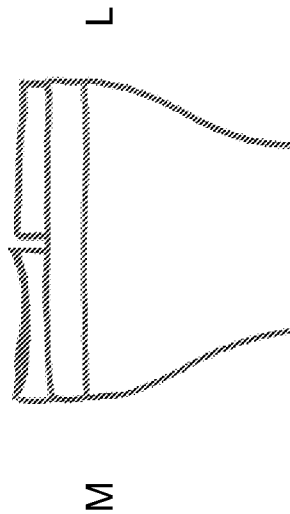
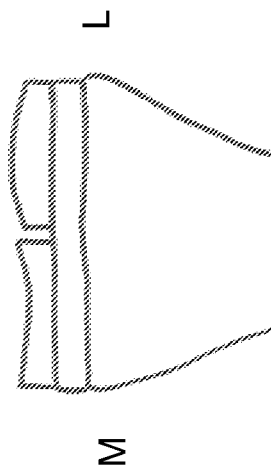


FIG. 63B

Lateral insert  
higher

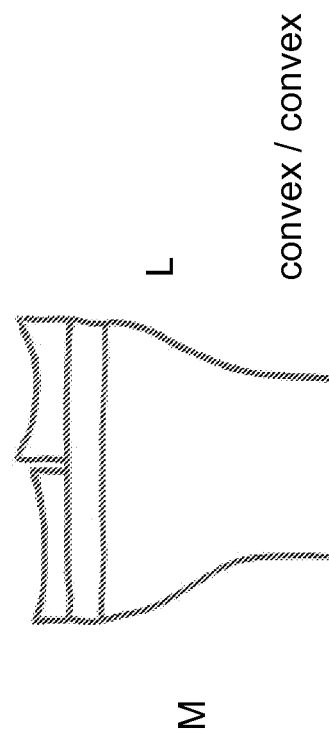
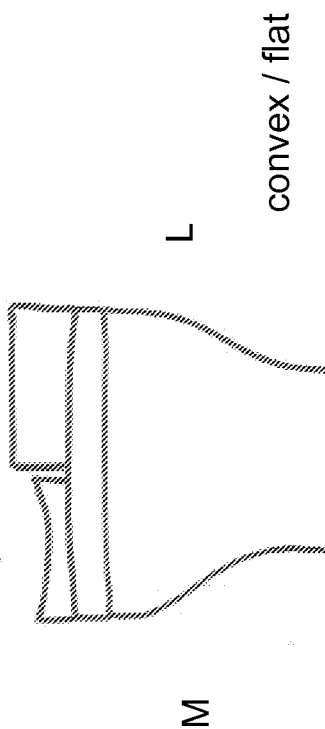
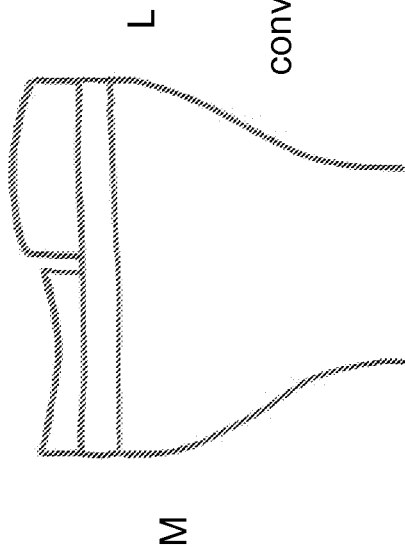
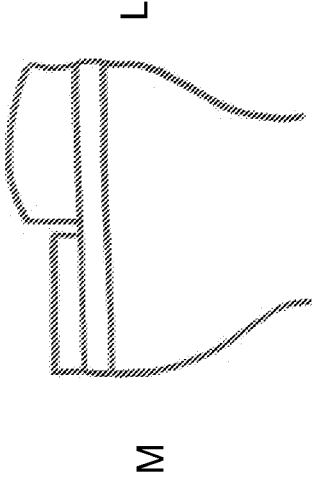
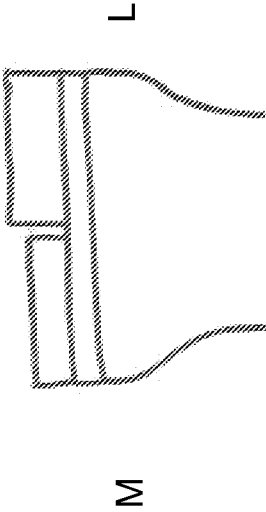


FIG. 63C

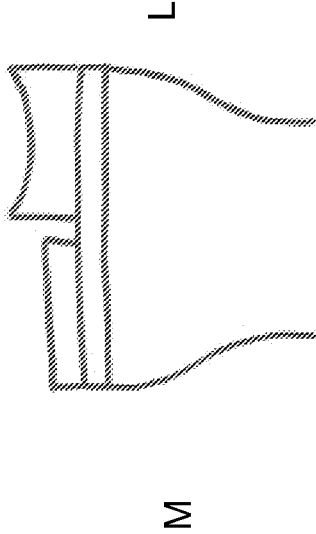
Lateral insert  
higher



flat / convex



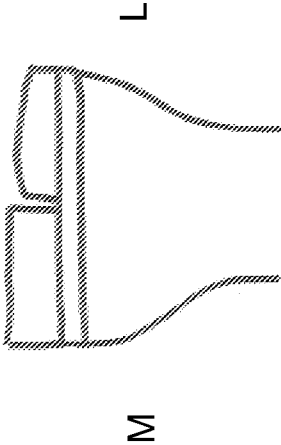
flat / flat



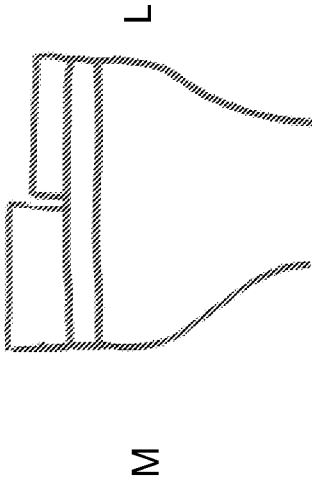
flat / concave

FIG. 63D

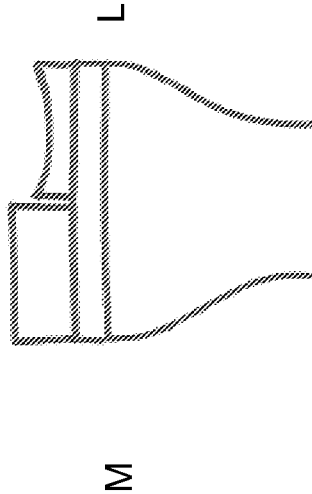
Medial insert  
higher



flat / convex



flat / flat



flat / concave

FIG. 63F

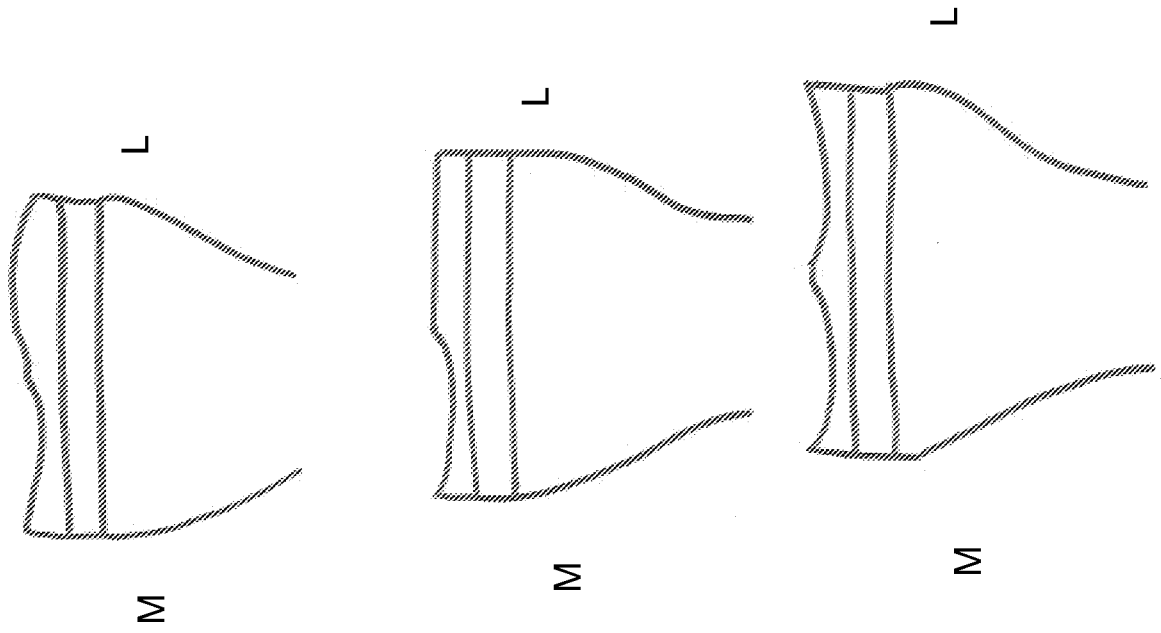
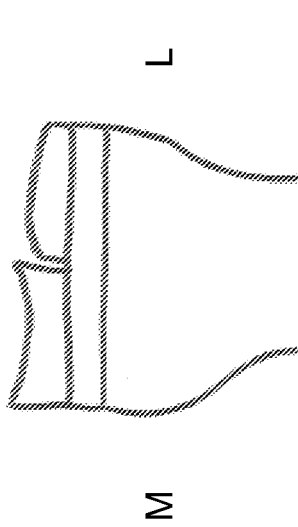


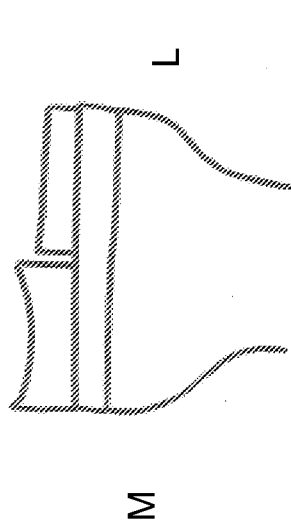
FIG. 63E

Medial insert  
higher

concave / convex



concave/ flat



concave /  
concave

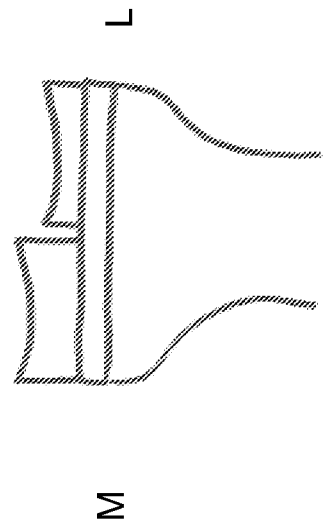


FIG. 63H

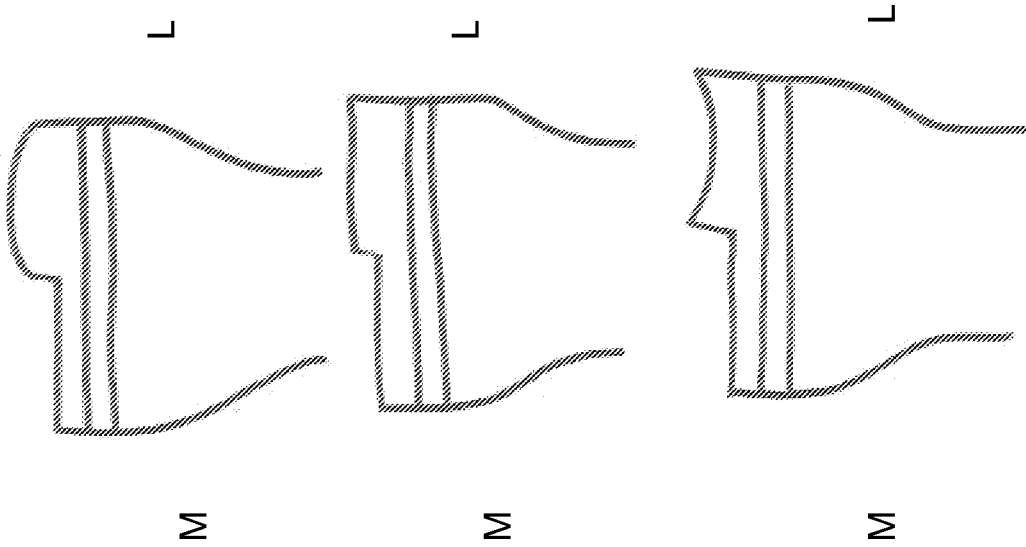


FIG. 63G

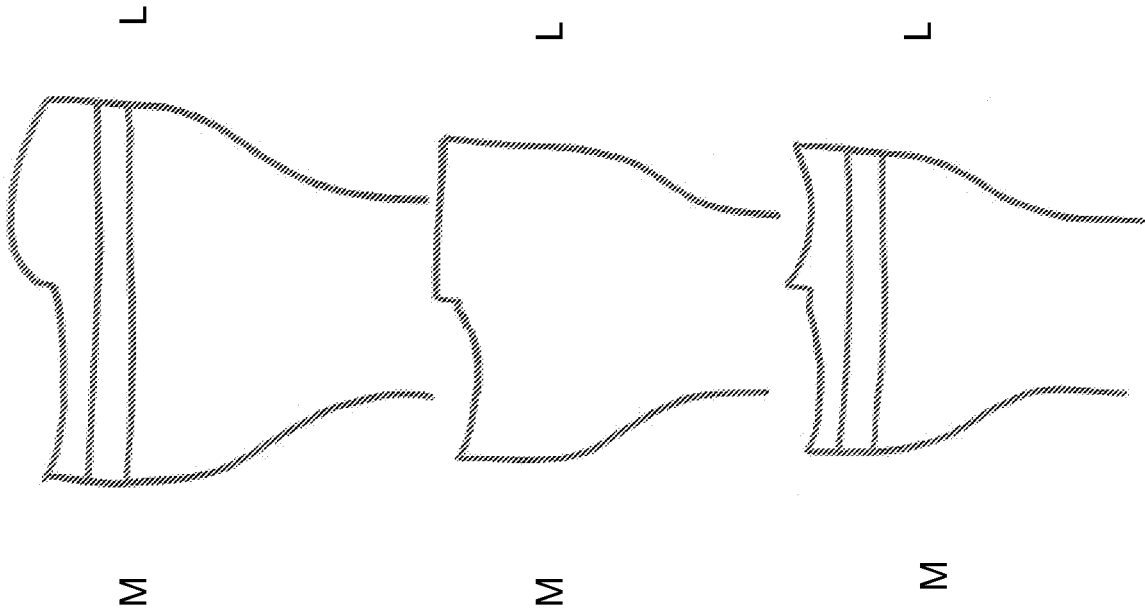


FIG. 63J

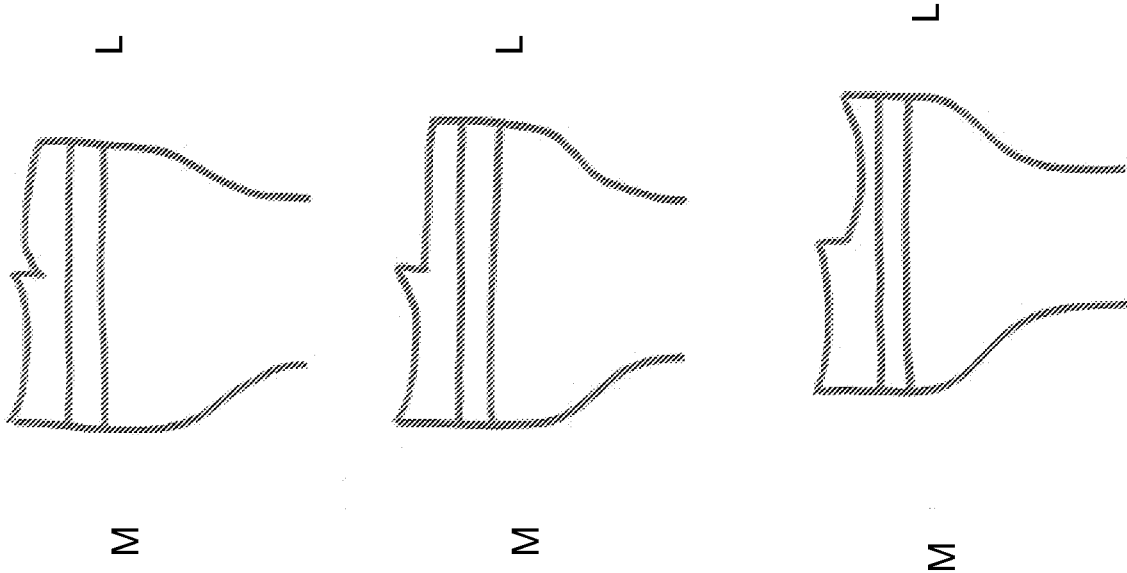


FIG. 63I

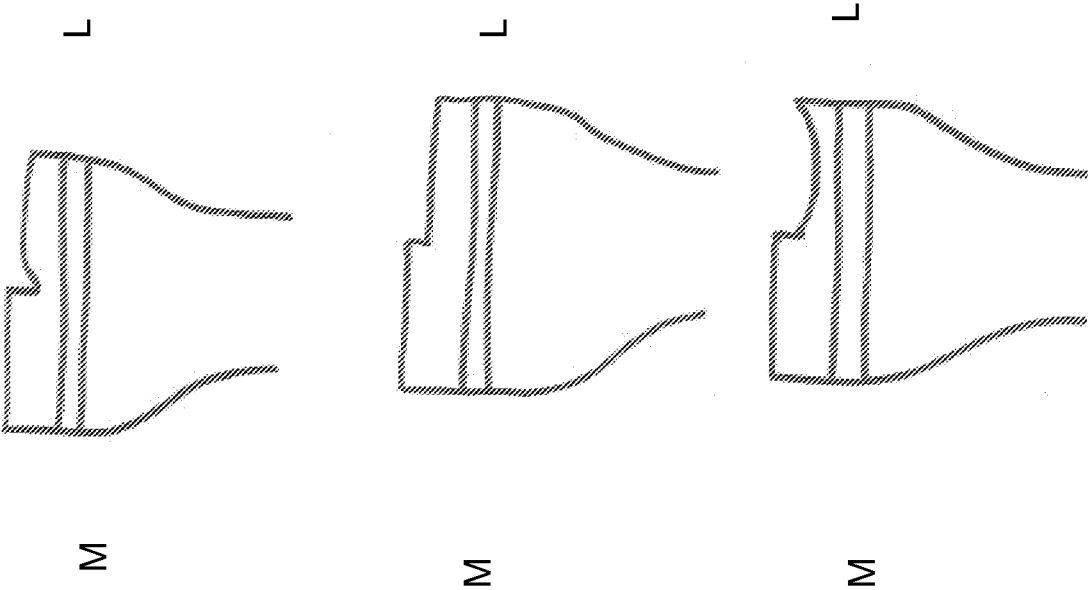


FIG. 64A

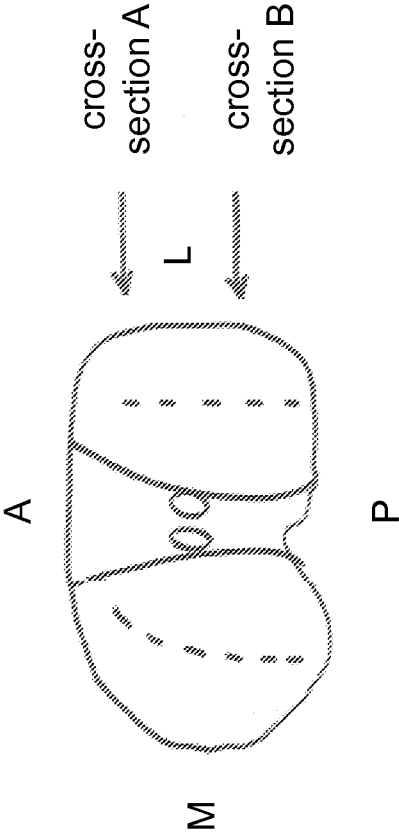
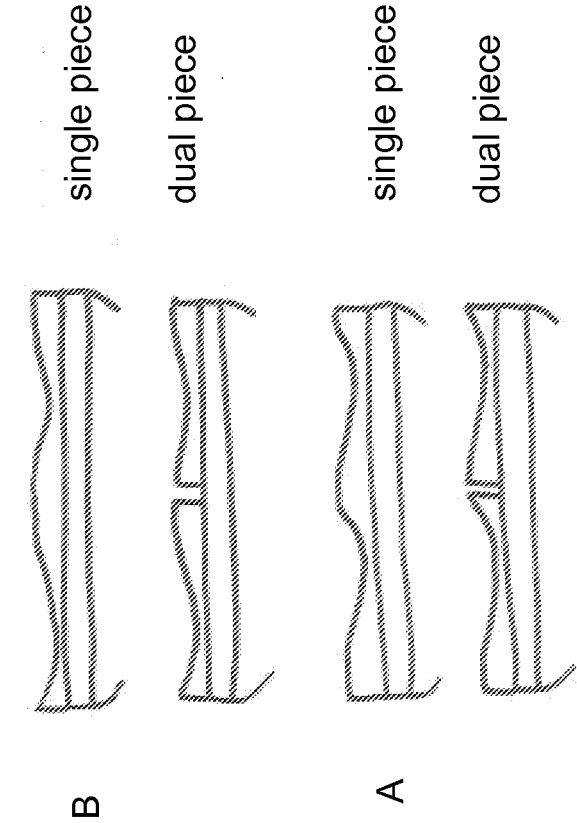
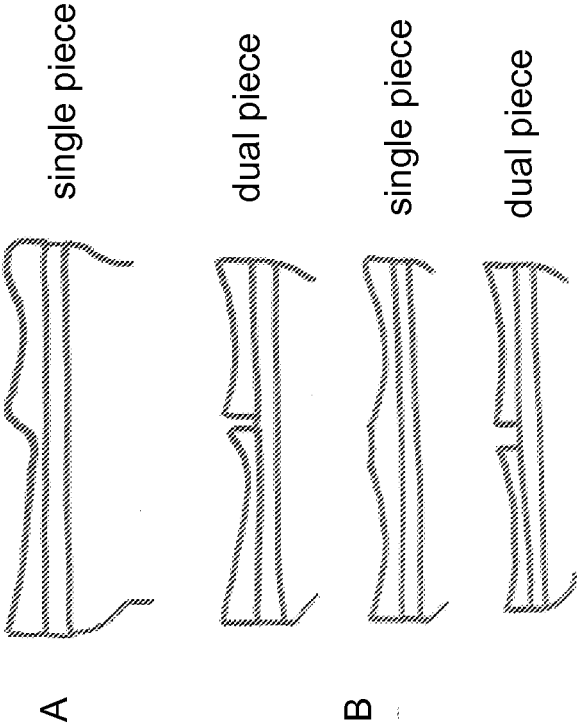
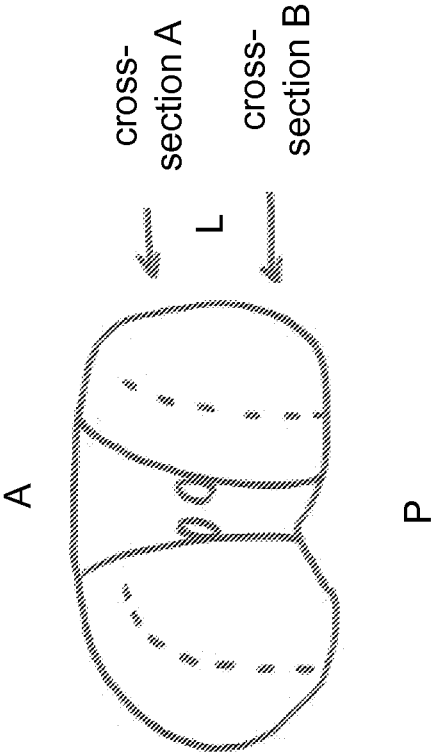


FIG. 64B



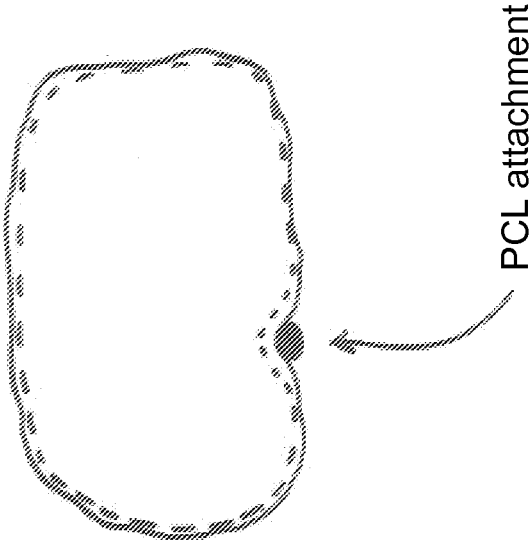


FIG. 64C

Stippled line = outline of tibial implant  
avoiding interference with PCL

FIG. 64D

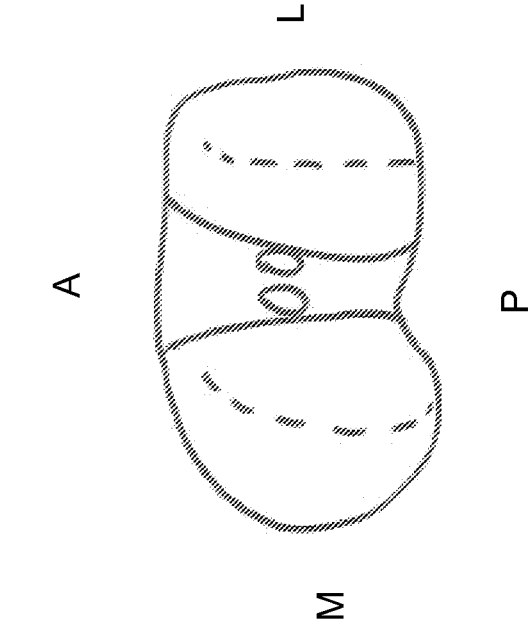


FIG. 64D

FIG. 64E

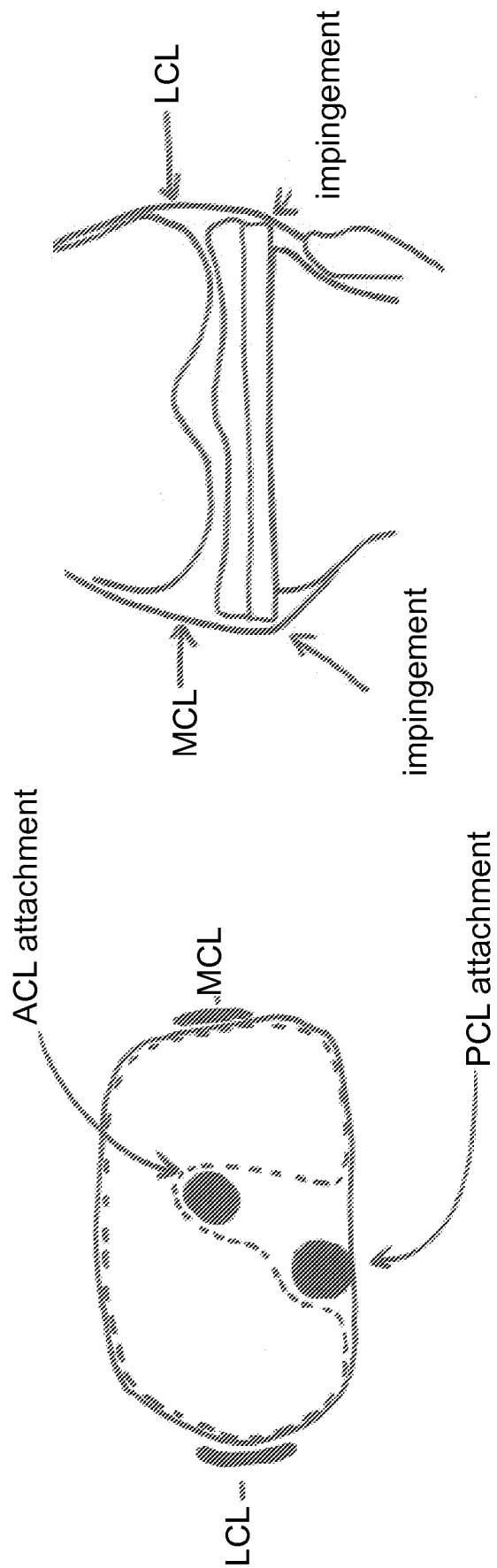
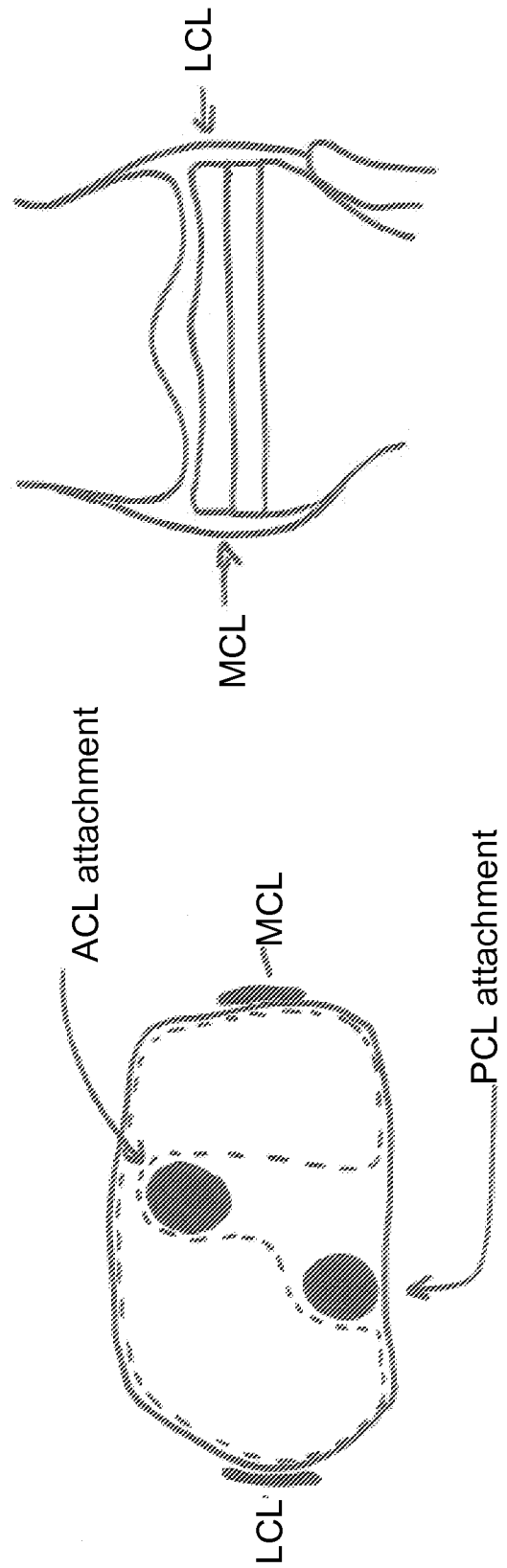
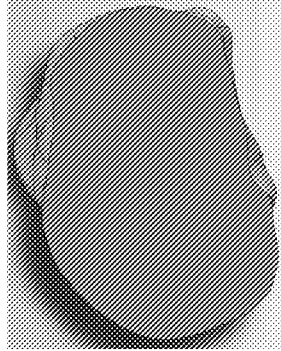


FIG. 64F

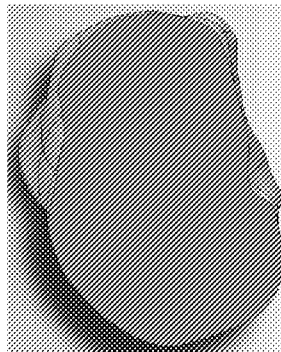


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4mm



3mm



2mm

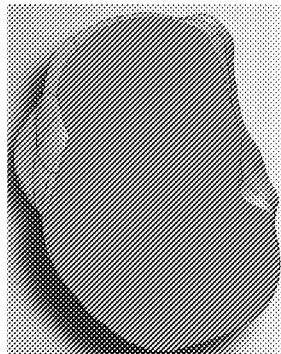
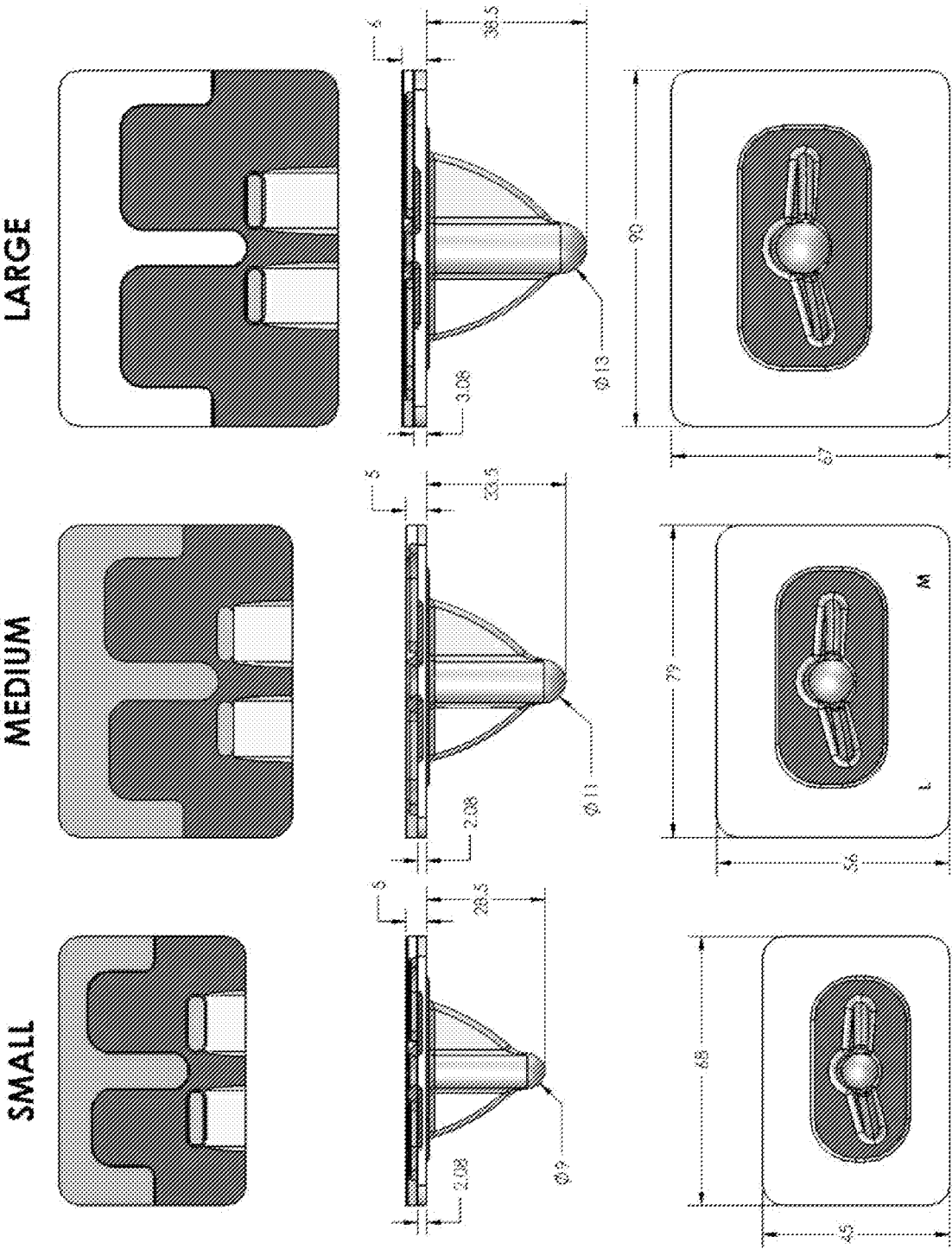


FIG. 65



(keels can be biased 5 degrees medially and 15 degrees laterally)

FIG. 66

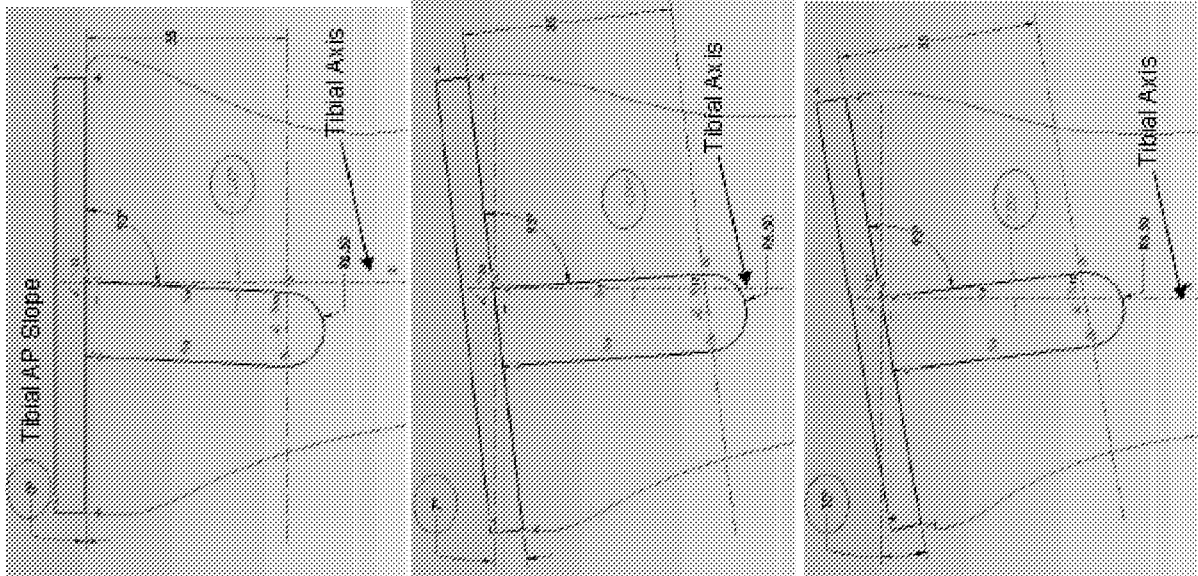
The stem is designed with a standard 3° posterior tilt.

AP Slope 0° - Tray tilts posteriorly 3°

AP Slope 7° - Tray tilts anteriorly 4°

AP Slope 10° - Tray tilts anteriorly 7°

FIG. 67



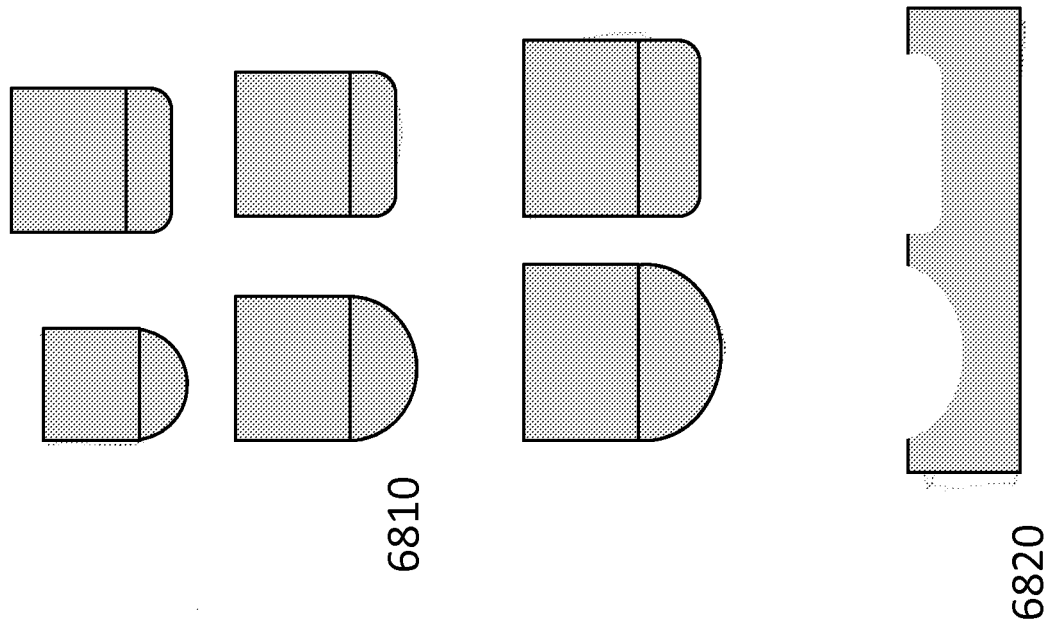


FIG. 68A

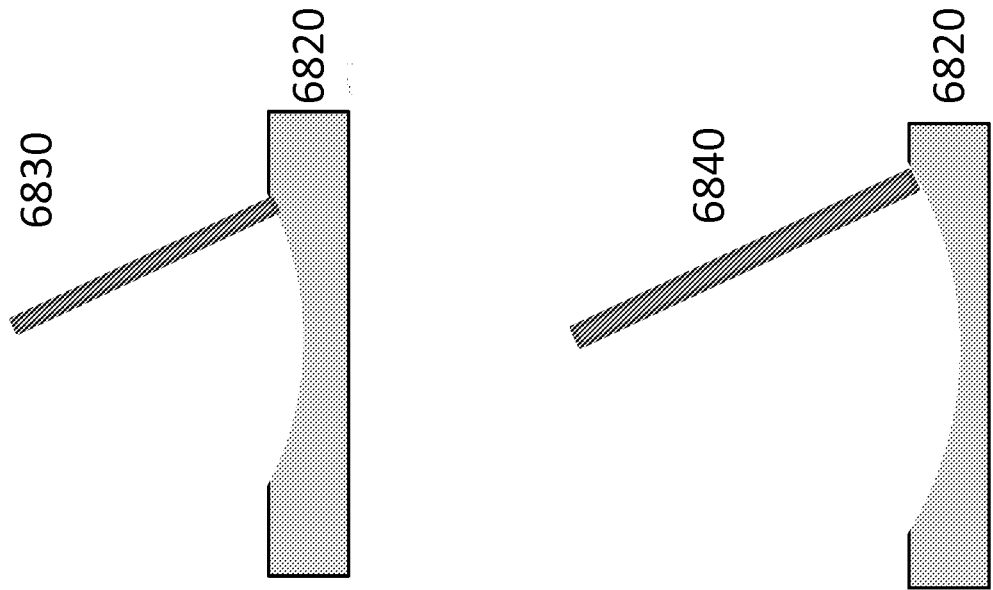


FIG. 68B

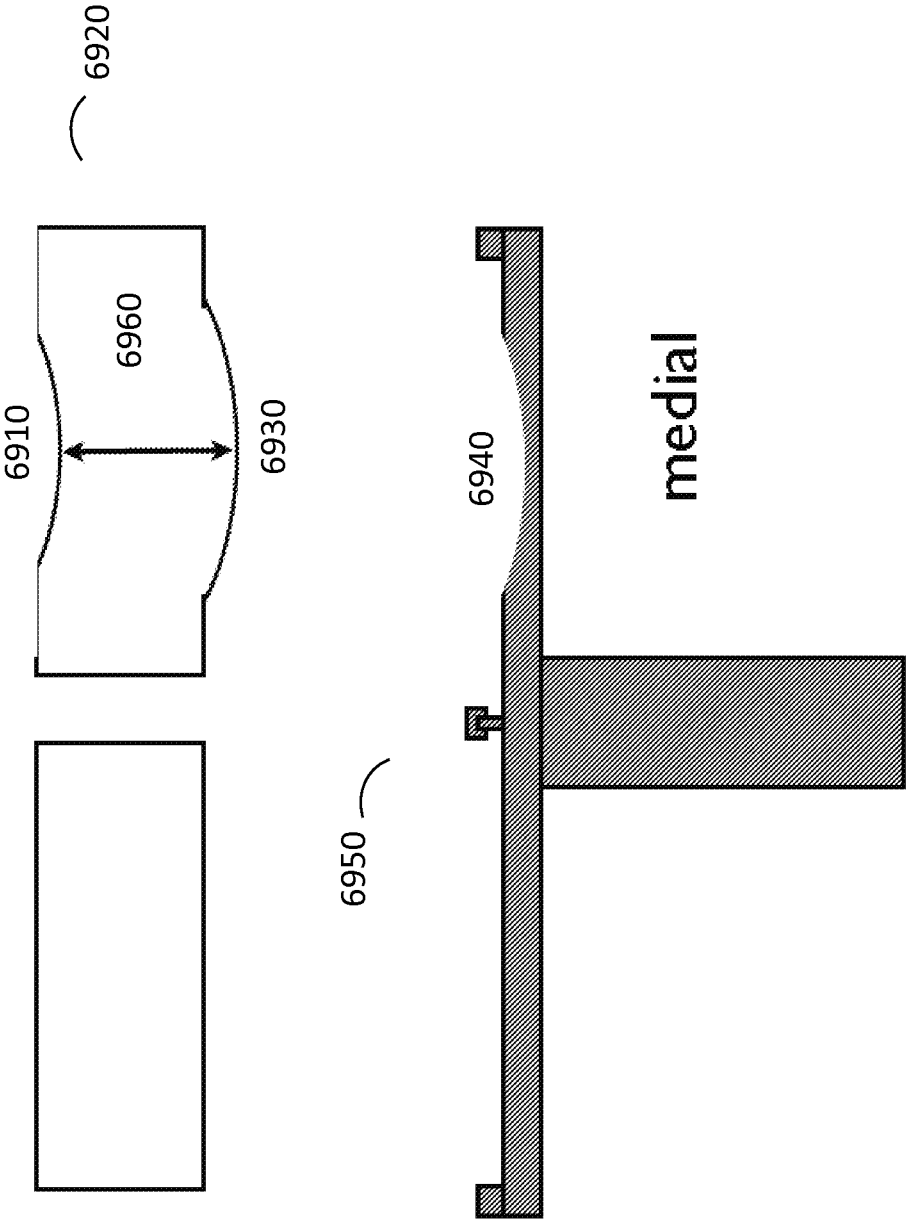


FIG. 69A

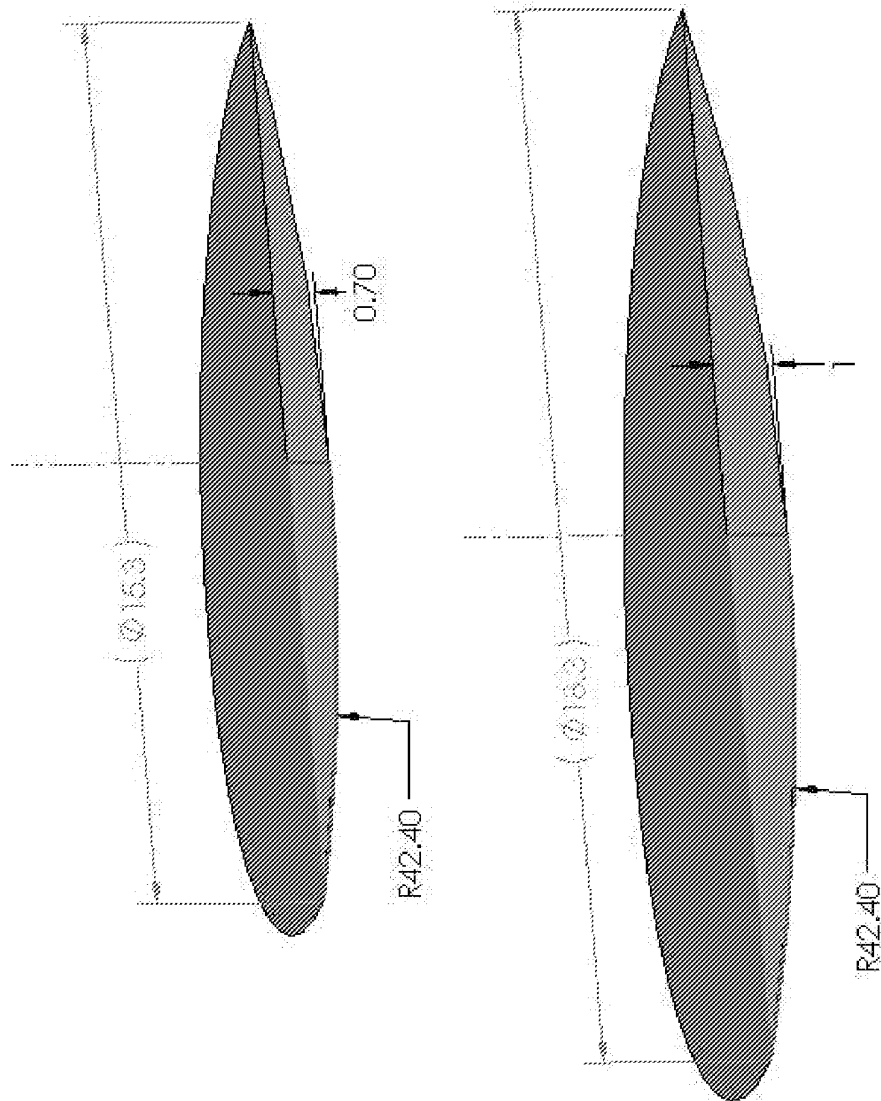
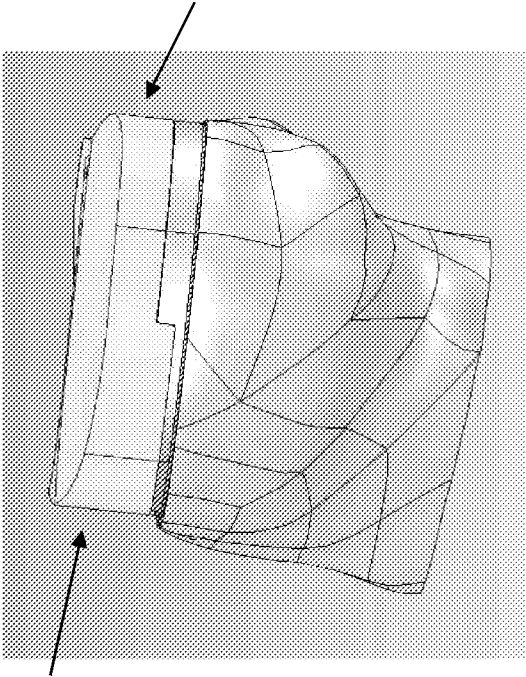
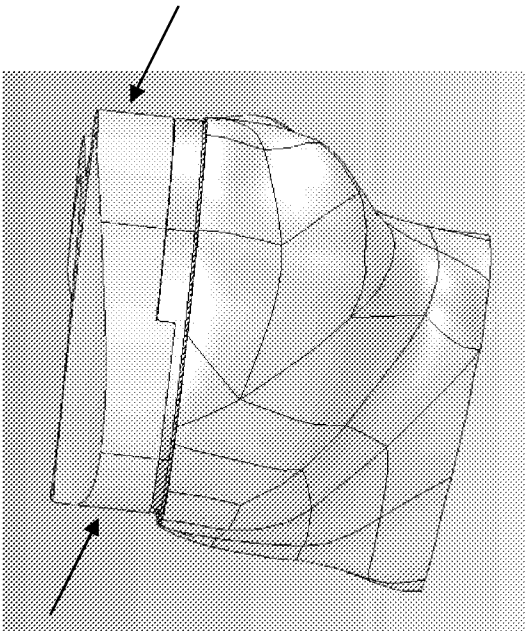


FIG. 69B



Tibial Cut with AP Sloped of 7°  
J-Curve is tilted 7° posteriorly to  
achieve a thicker poly anteriorly



Tibial Cut with AP Sloped of 7°  
J-Curve is the patient's natural J-  
Curve

FIG. 70

FIG. 71A

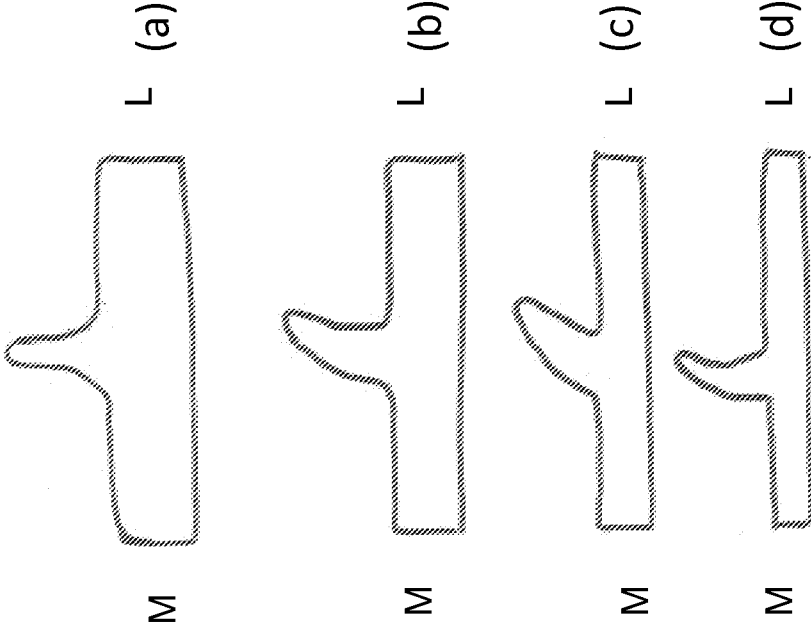


FIG. 71B

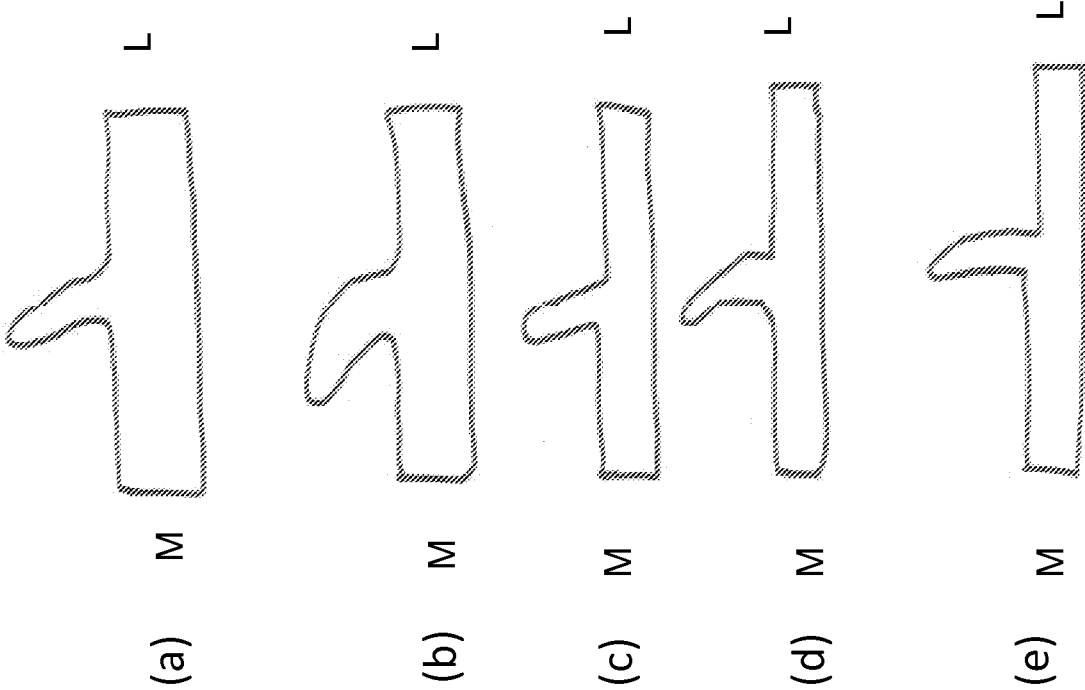


FIG. 72B

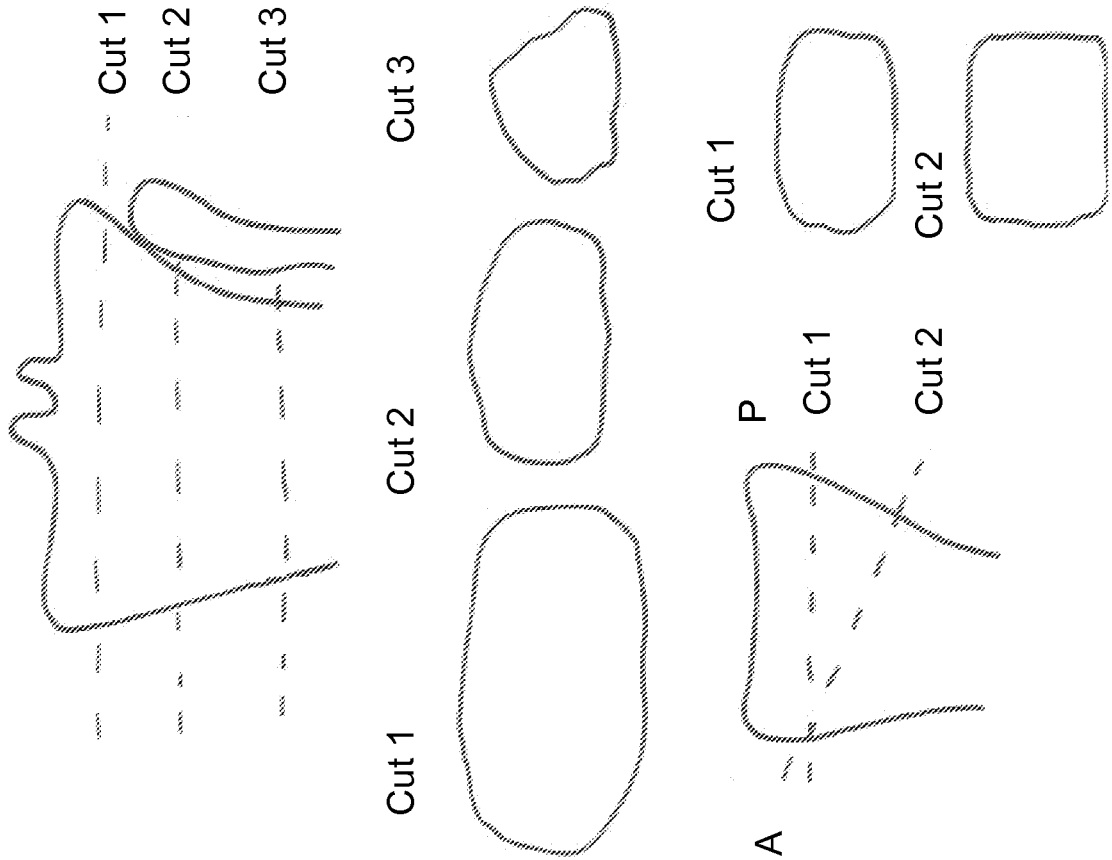
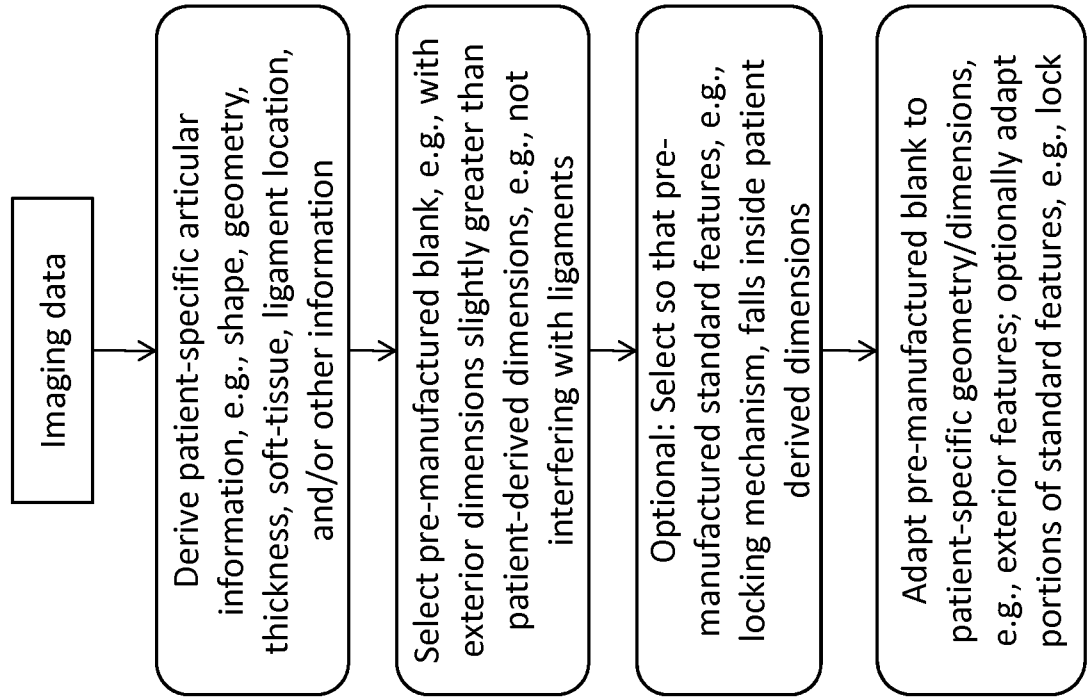


FIG. 72A



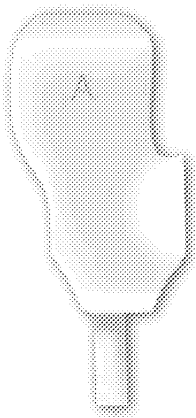


FIG. 73A

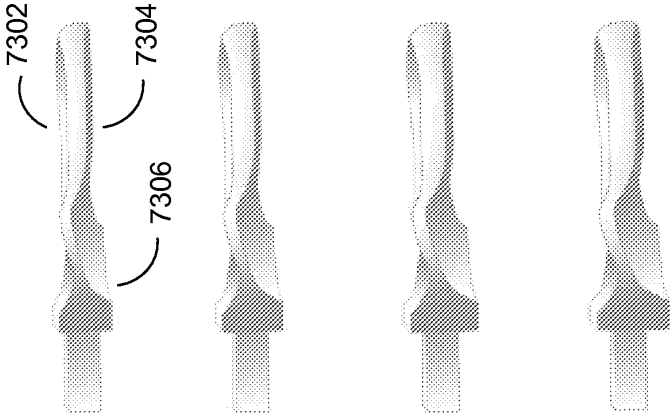


FIG. 73B

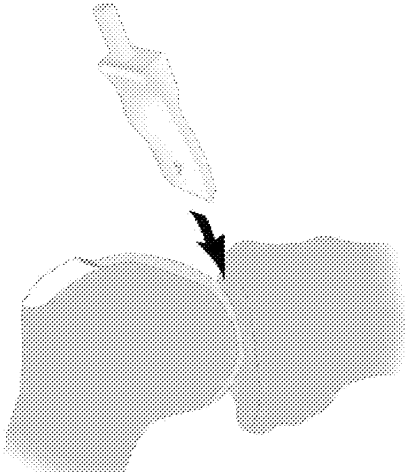


FIG. 73C

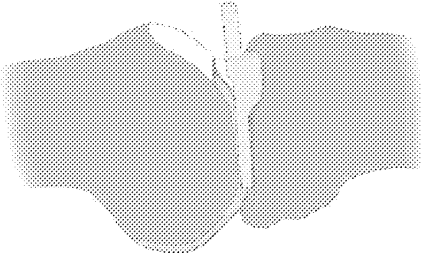


FIG. 73D

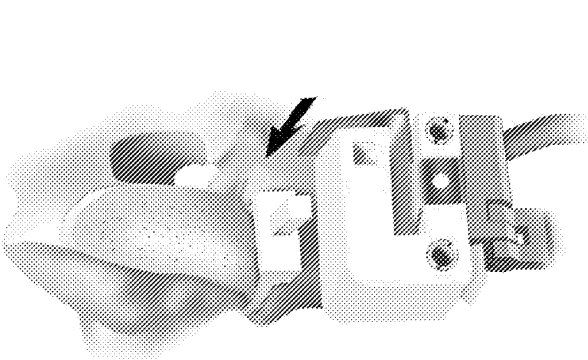


FIG. 73E

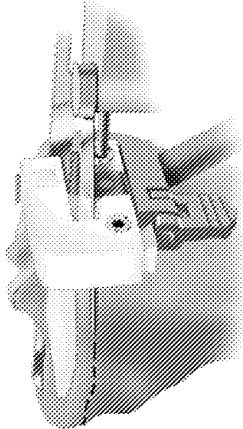


FIG. 73F

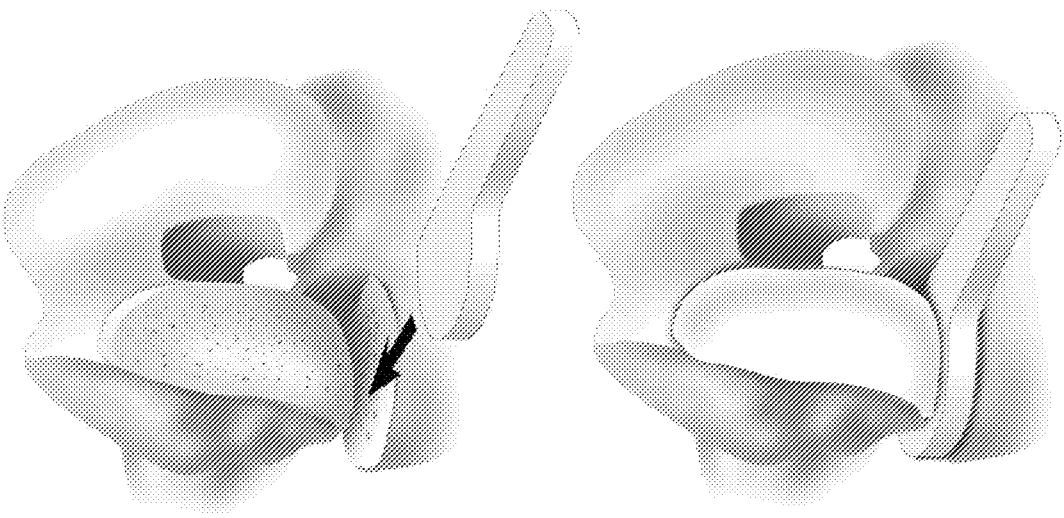


FIG. 74C

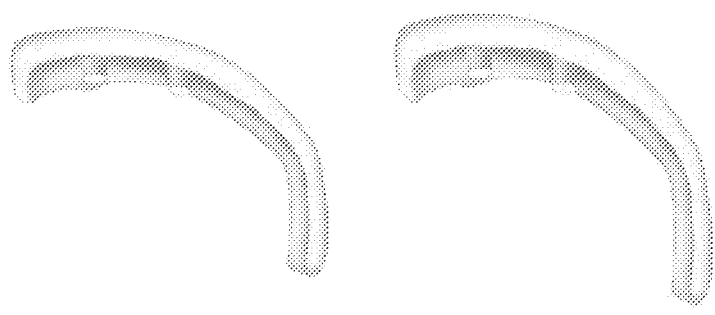


FIG. 74B

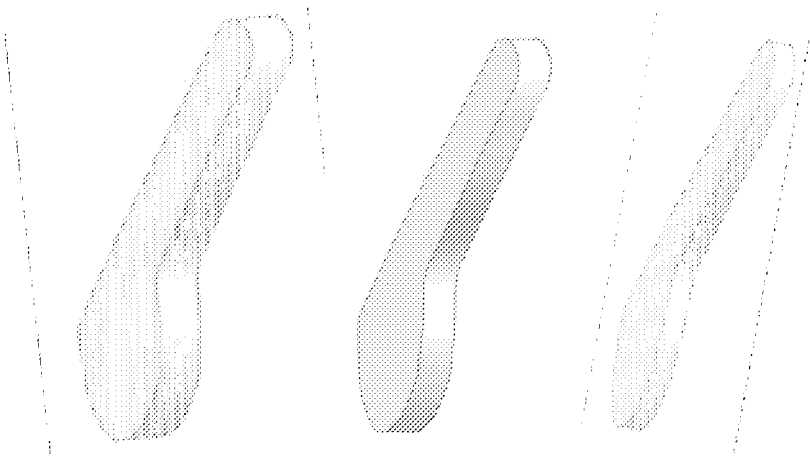


FIG. 74A

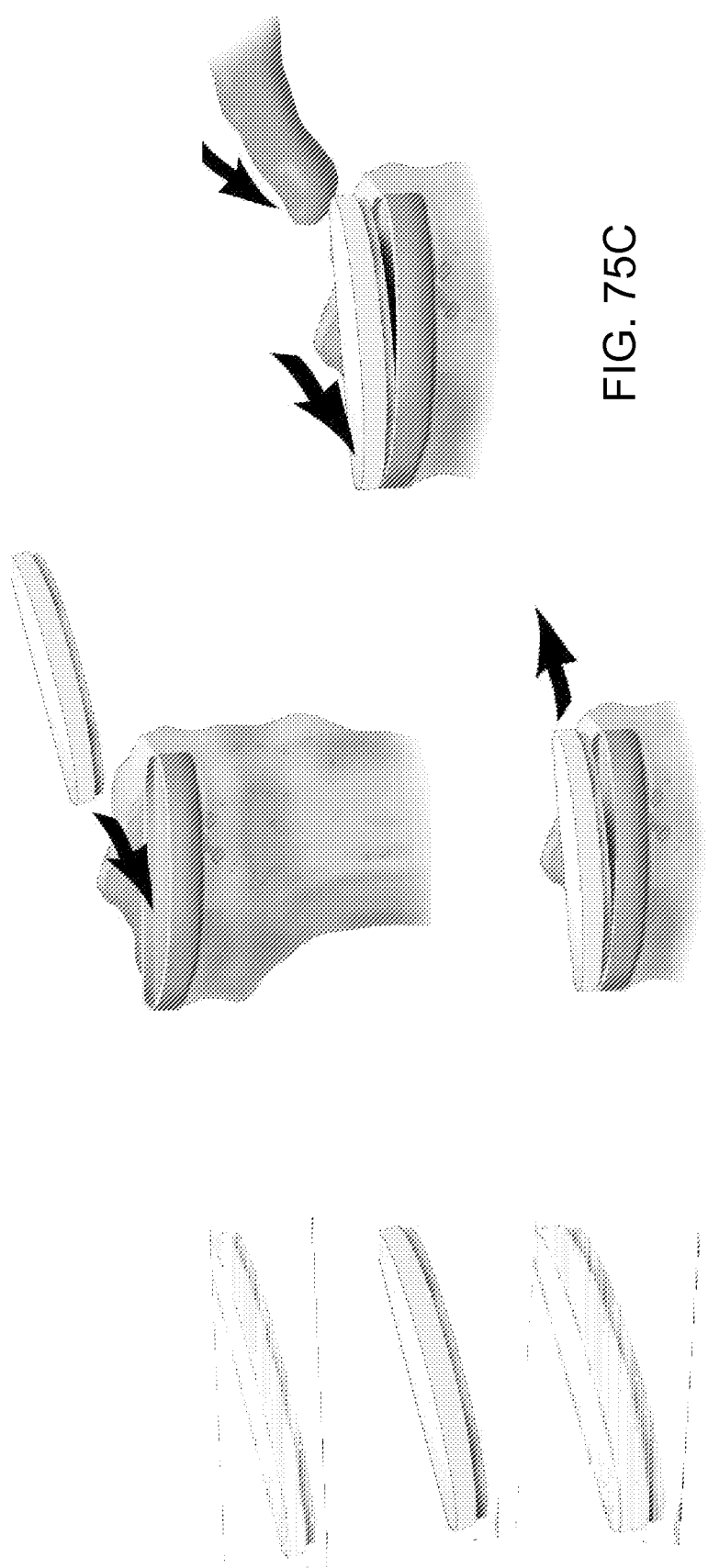


FIG. 75A

FIG. 75B

FIG. 75C

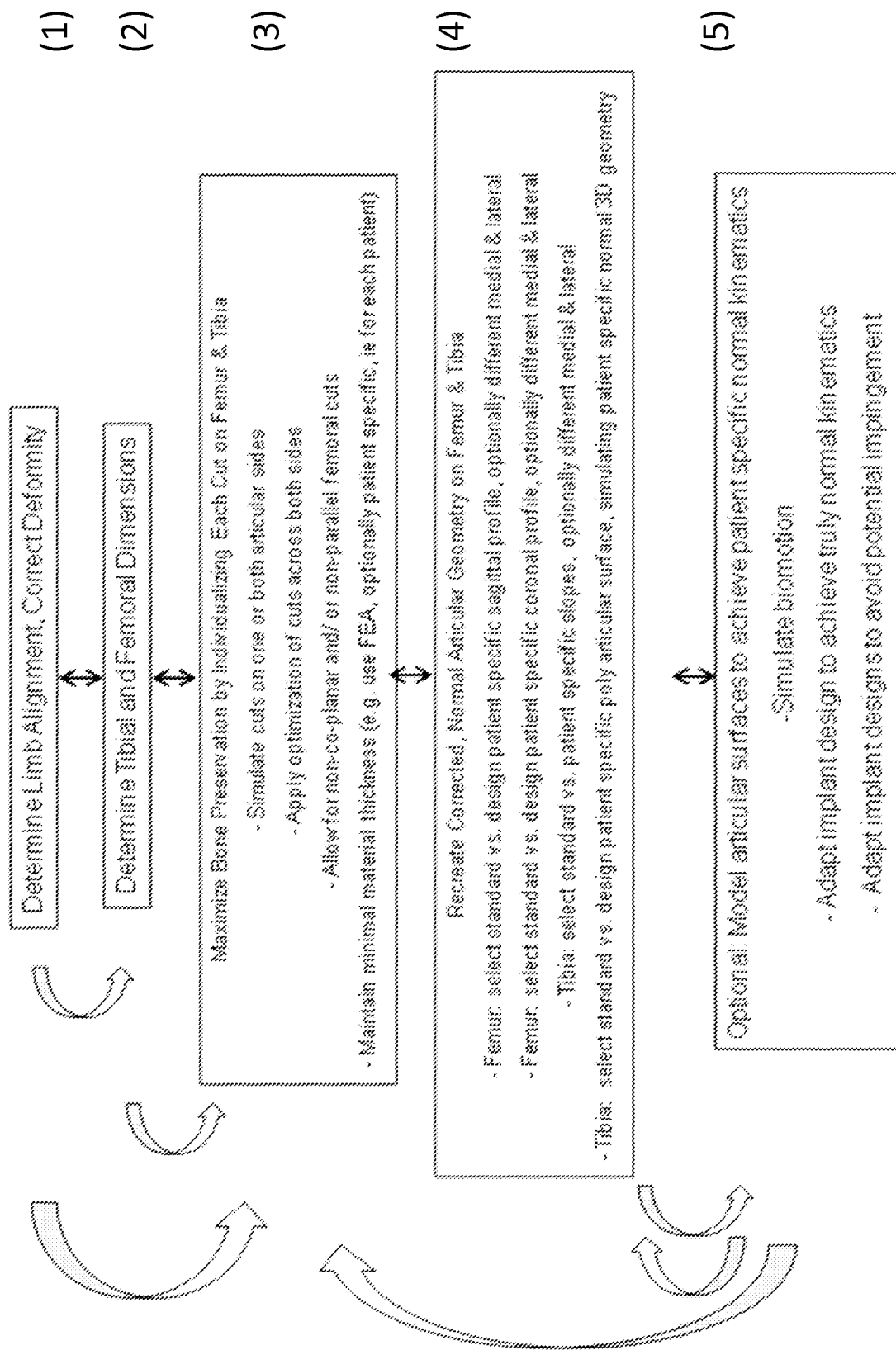


FIG. 87

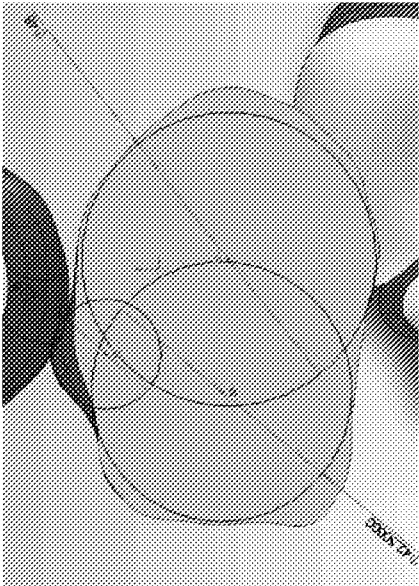


FIG. 143C

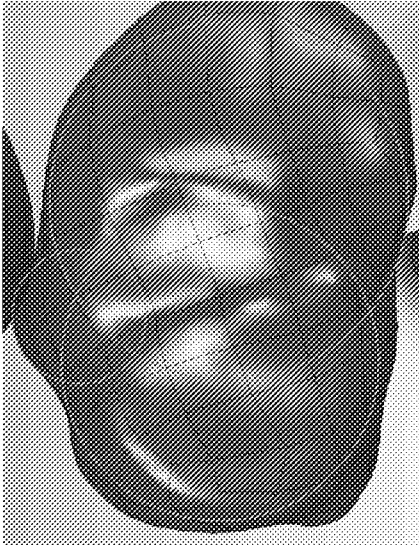


FIG. 143B

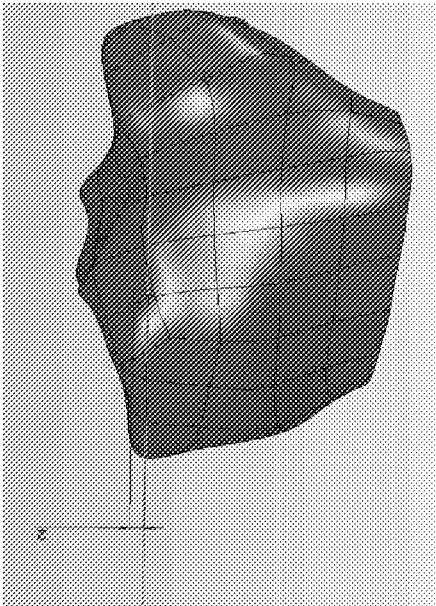


FIG. 143A

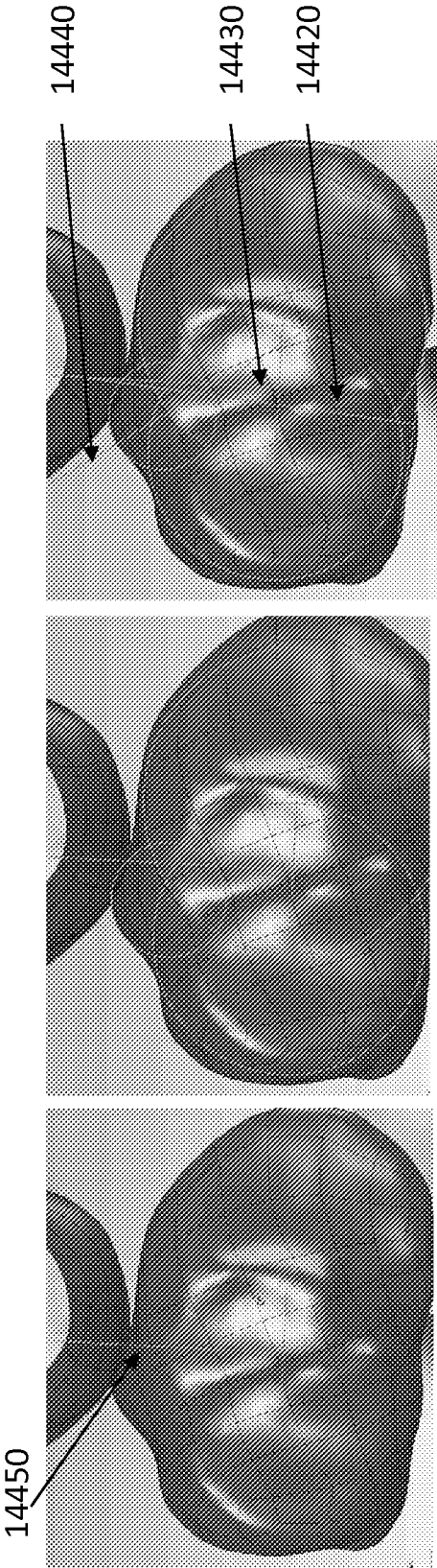


FIG. 144C

FIG. 144B

FIG. 144A

14500

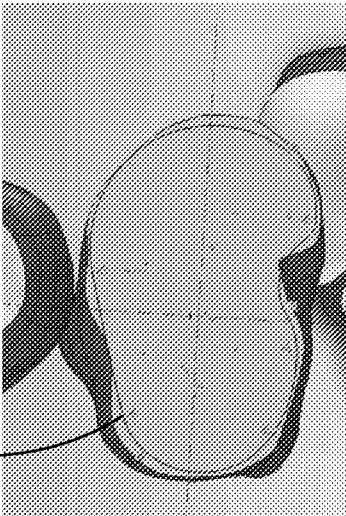


FIG. 145C

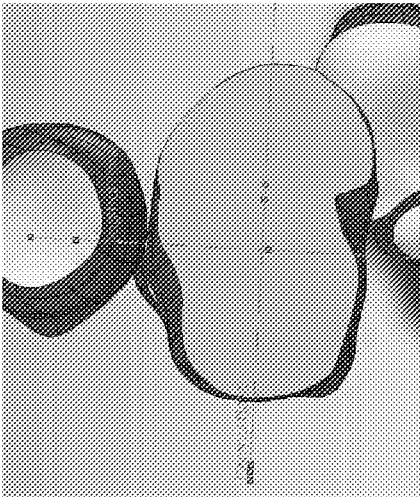


FIG. 145B

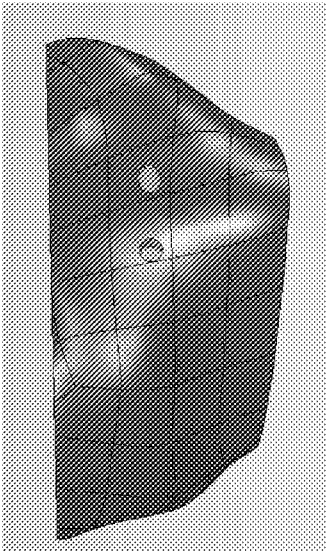


FIG. 145A

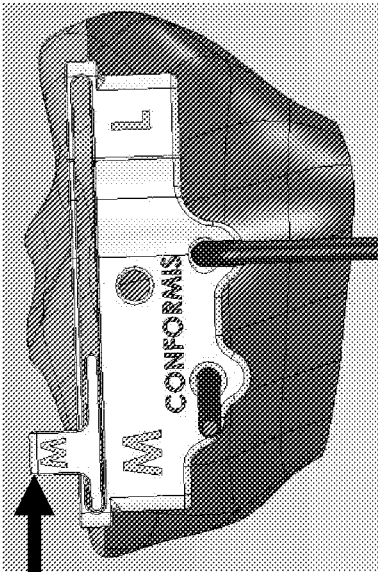


FIG. 146A

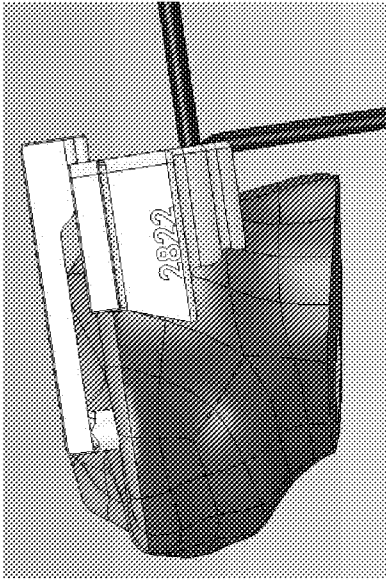


FIG. 147A

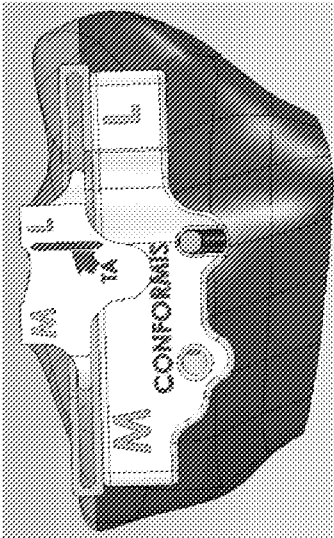


FIG. 146B

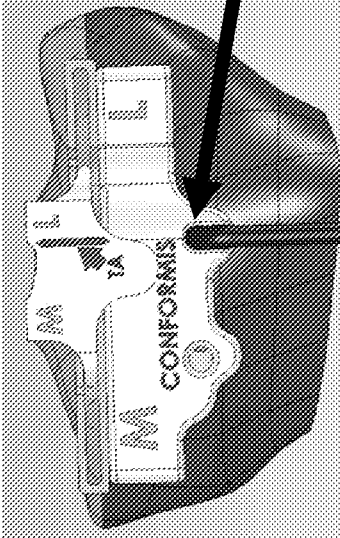


FIG. 147B

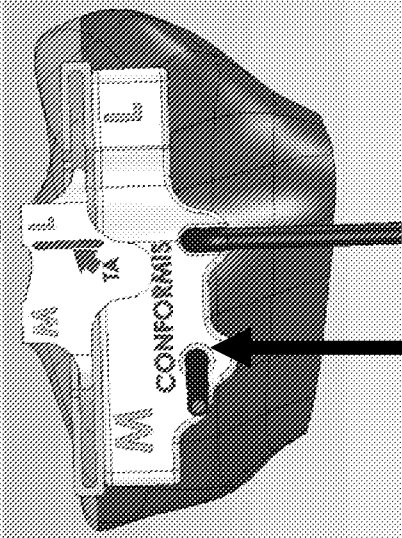


FIG. 148

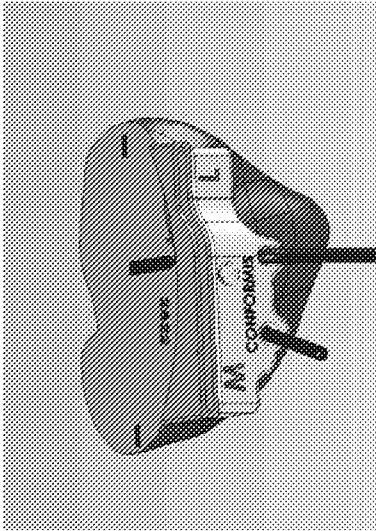


FIG. 151

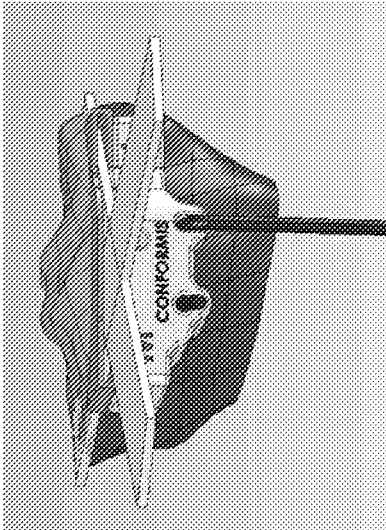


FIG. 150

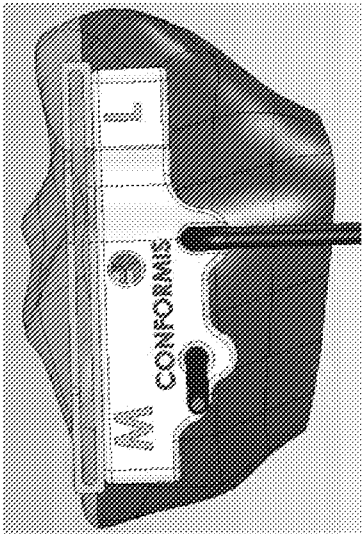


FIG. 149

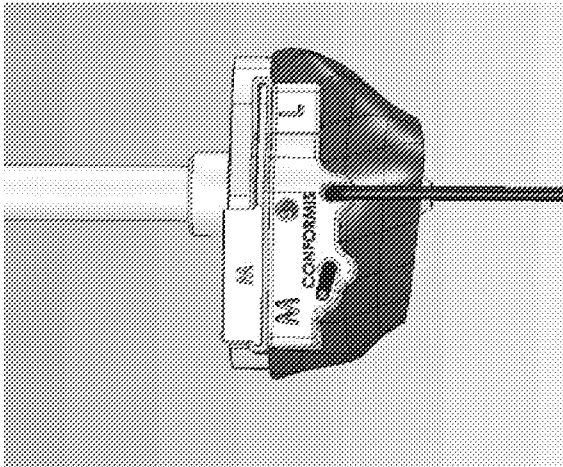


FIG. 153

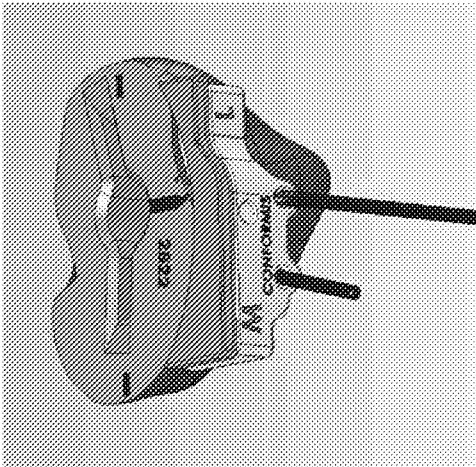


FIG. 155

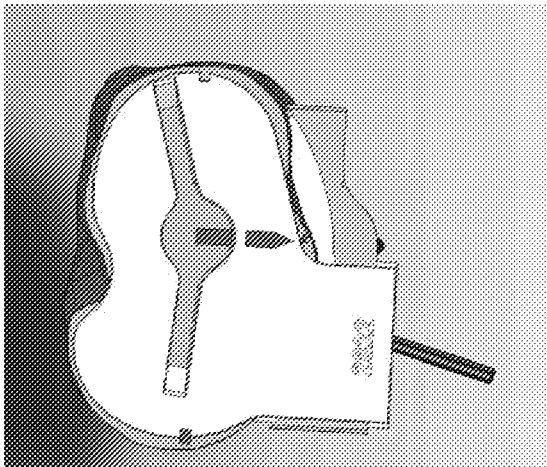


FIG. 152

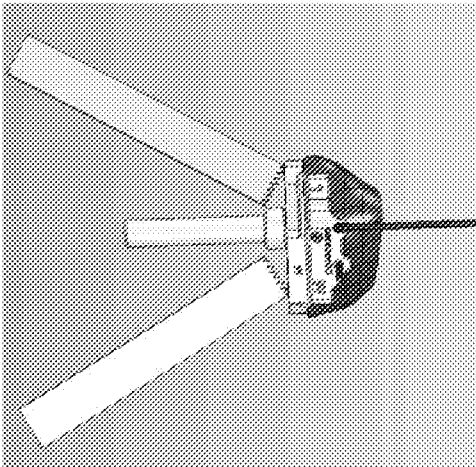


FIG. 154

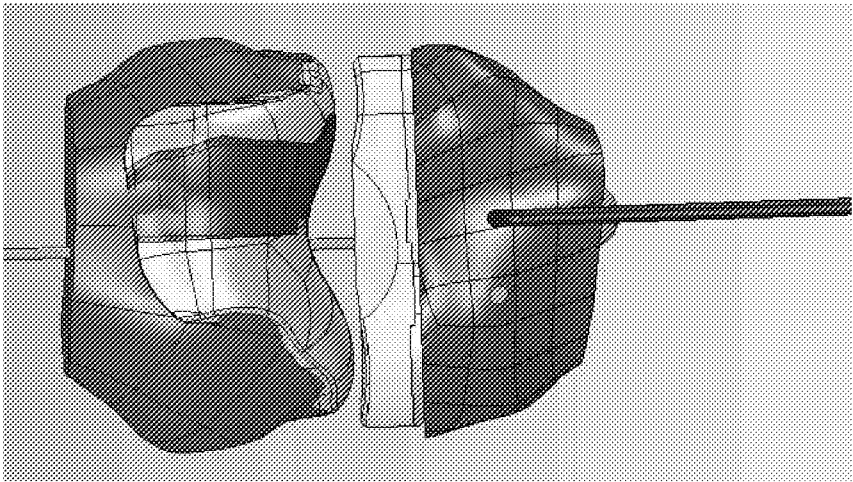


FIG. 156C

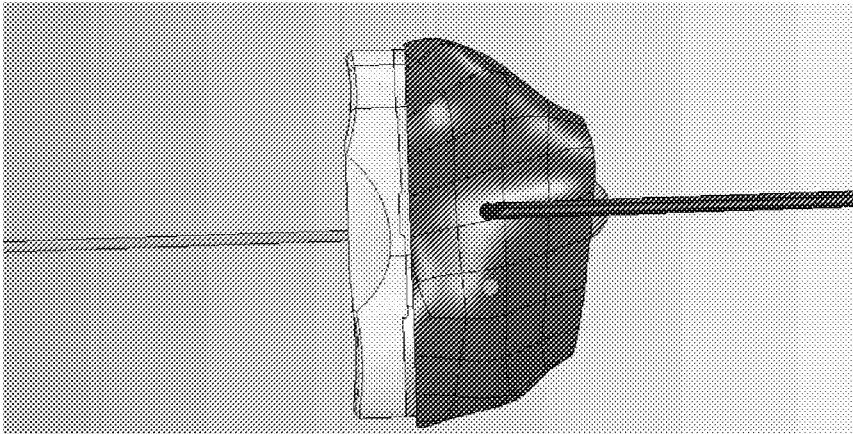


FIG. 156B

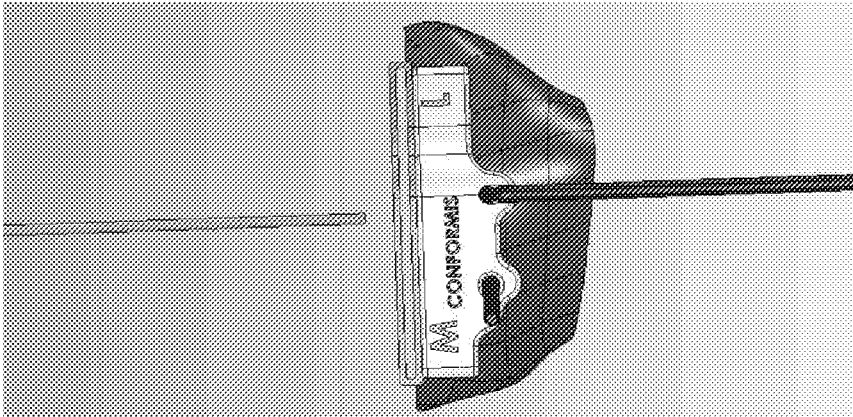


FIG. 156A

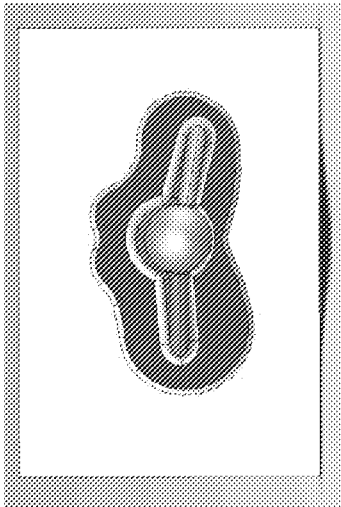


FIG. 157A

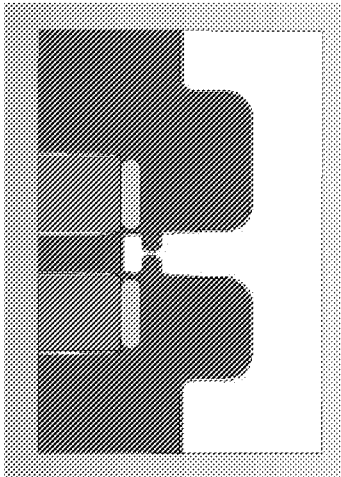


FIG. 157B

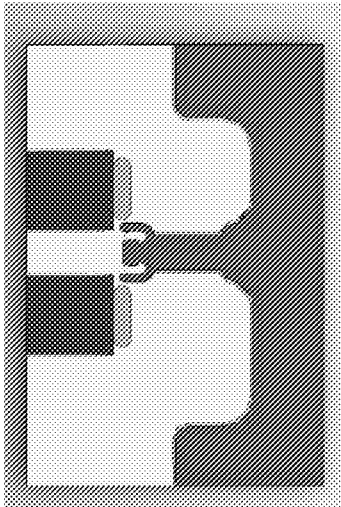


FIG. 157C

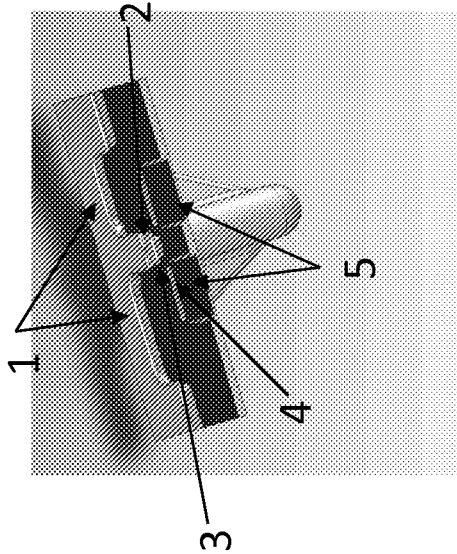


FIG. 157D

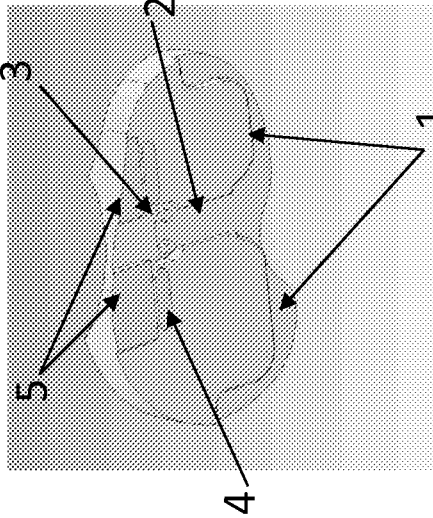


FIG. 157E

1  
piece  
Insert

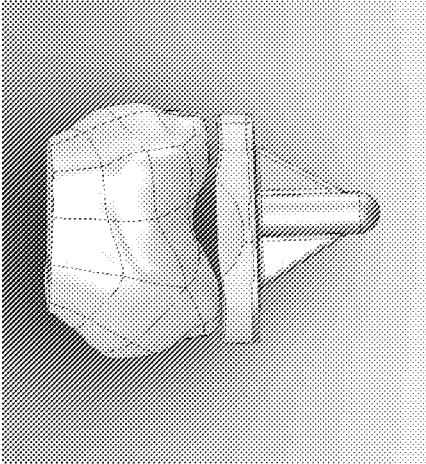


FIG. 158C

2  
piece  
Insert

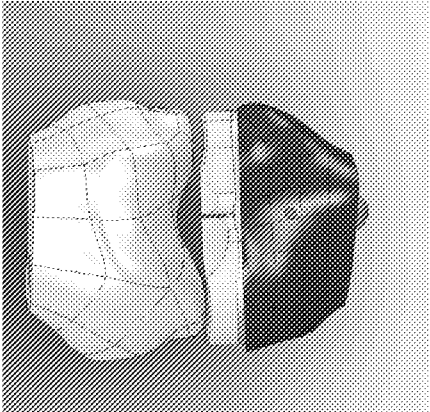


FIG. 159C

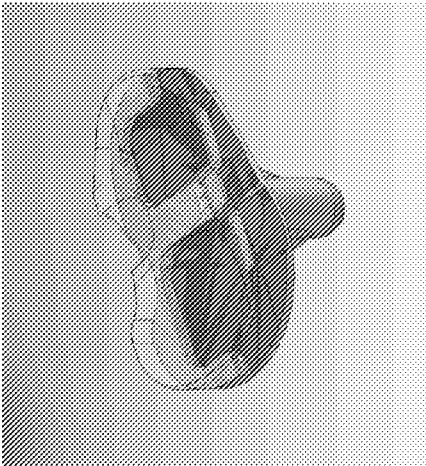


FIG. 158B

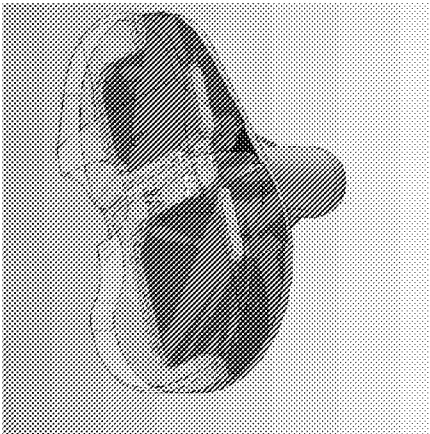


FIG. 159B

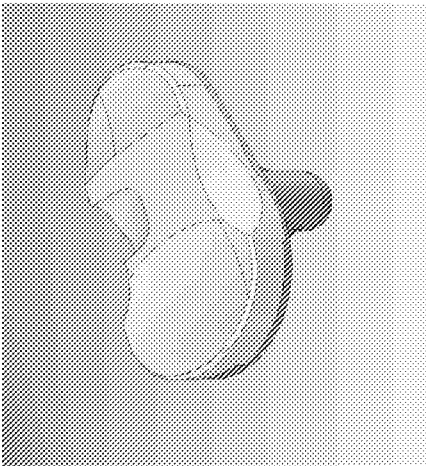


FIG. 158A

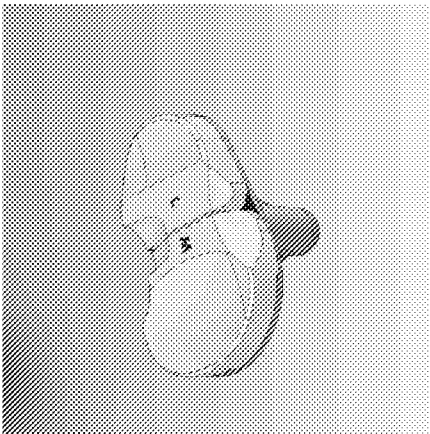


FIG. 159A

Standard to Patient-Specific

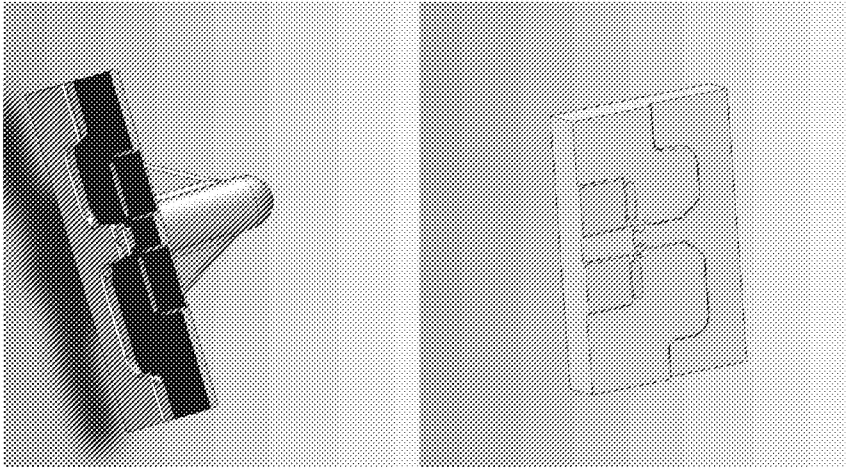


FIG. 160A

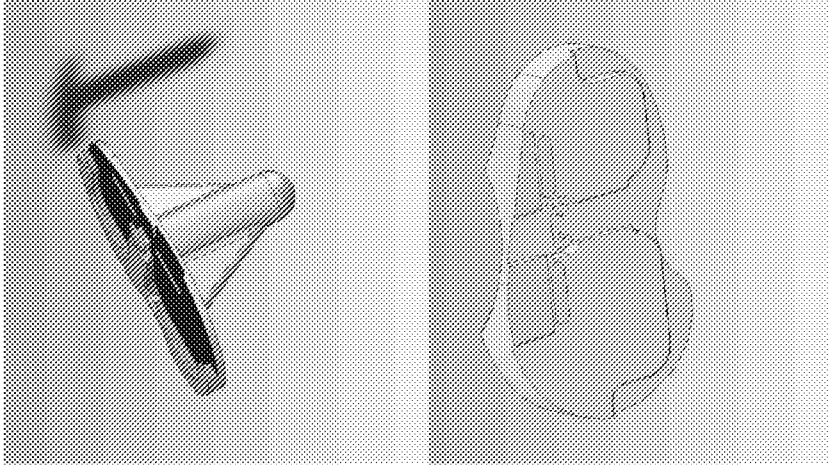


FIG. 160B

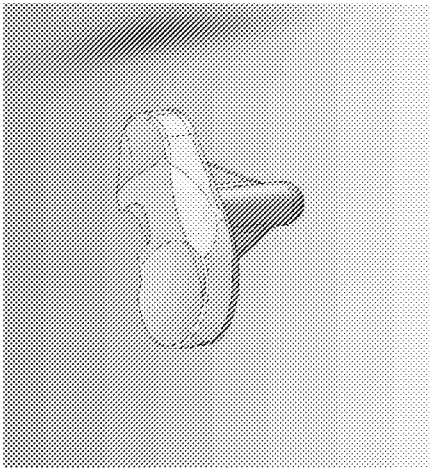


FIG. 160C

## Tibial Rotation

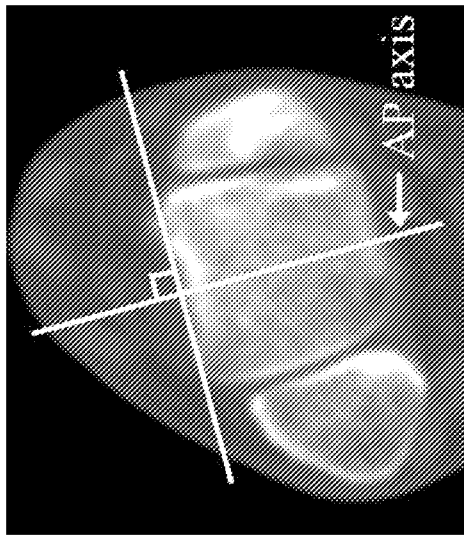


FIG. 161A

### “Floating Insert” Technique

ROM technique, in which the knee is put through a full range of flexion and extension, allowing the tibial trial to orientate itself in the best position relative to the femoral component. The orientation is marked on the anterior tibial cortex and the tibial component is implanted to match this mark.

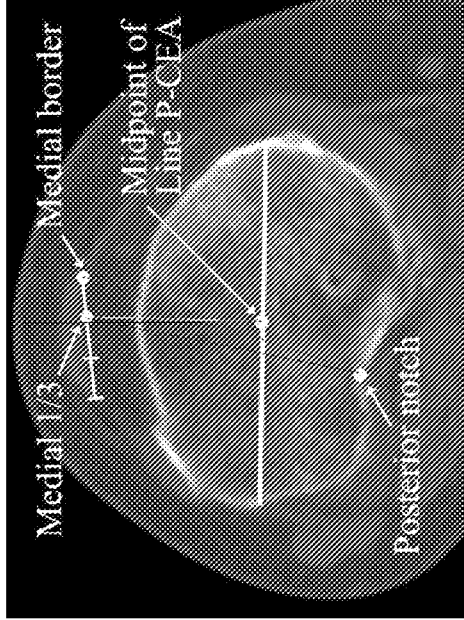


FIG. 161B

### Anatomic Landmark Technique

(Mizu-uchiet al, Effect of Ankle Rotation on Cutting of the Tibia in TKA, JBJS 2006;Vol 88;Pages 2632-2636)

- AP Axis of ankle joint
- The line perpendicular to the anterior cortical line

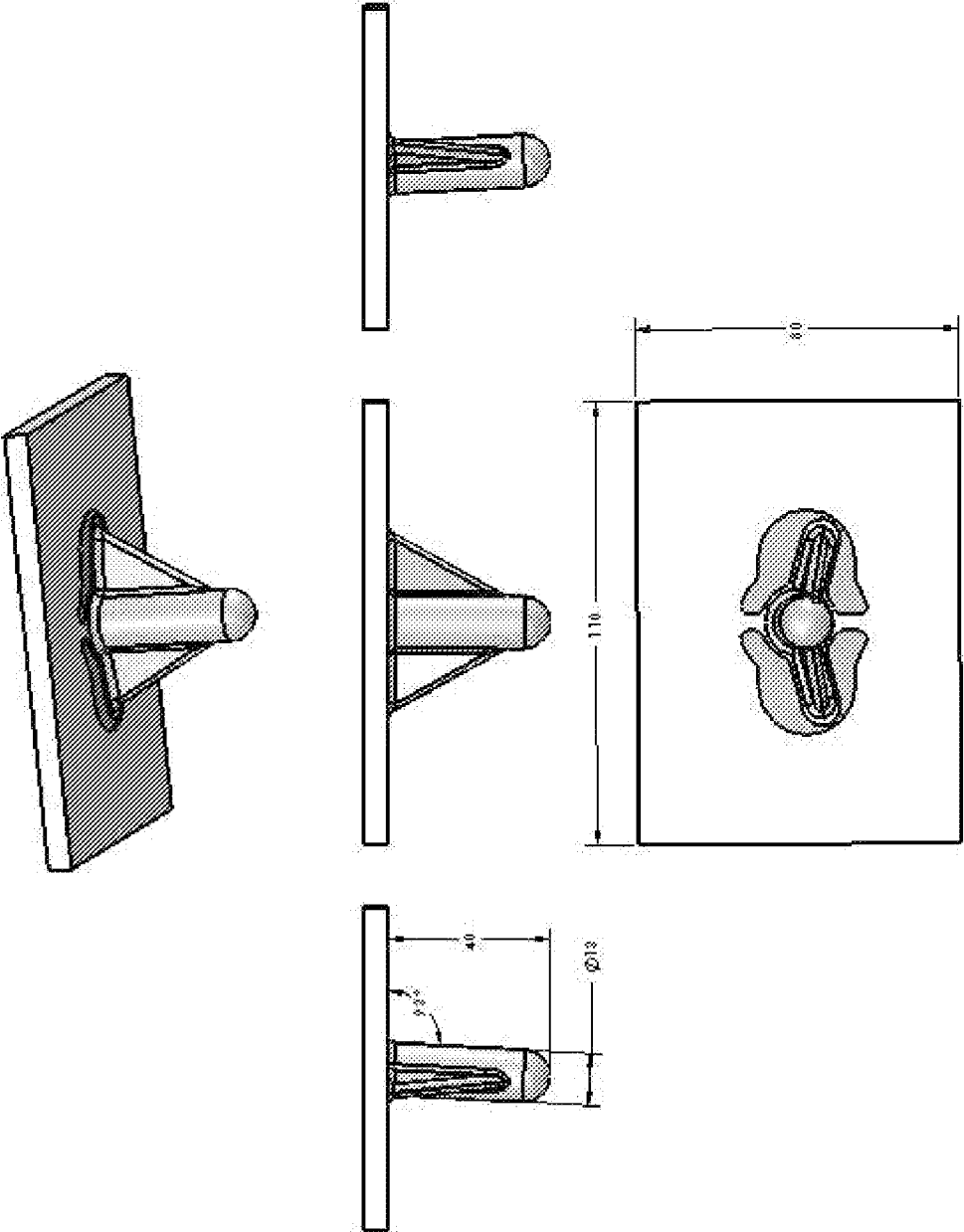


FIG. 162

Tibial Implant Profile

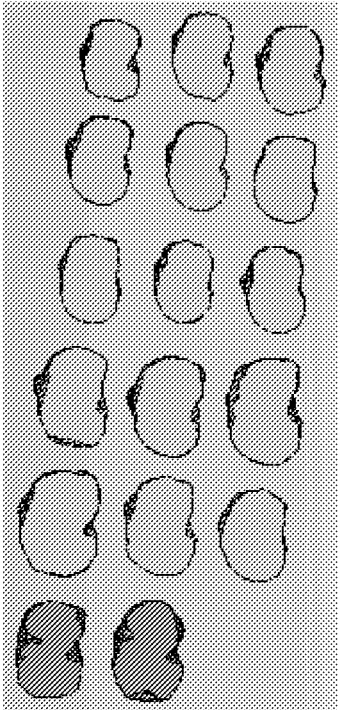


FIG. 164A

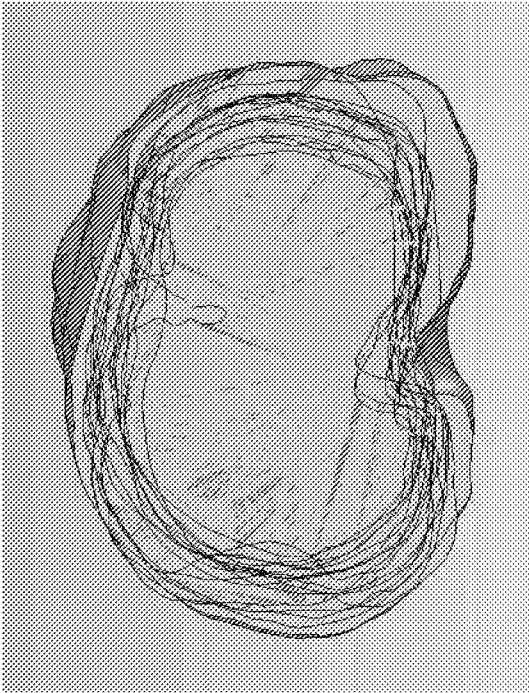


FIG. 164B

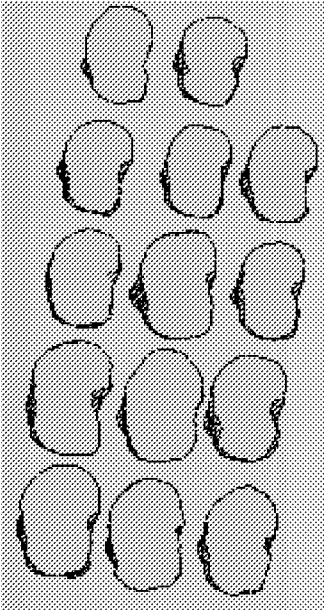


FIG. 163A

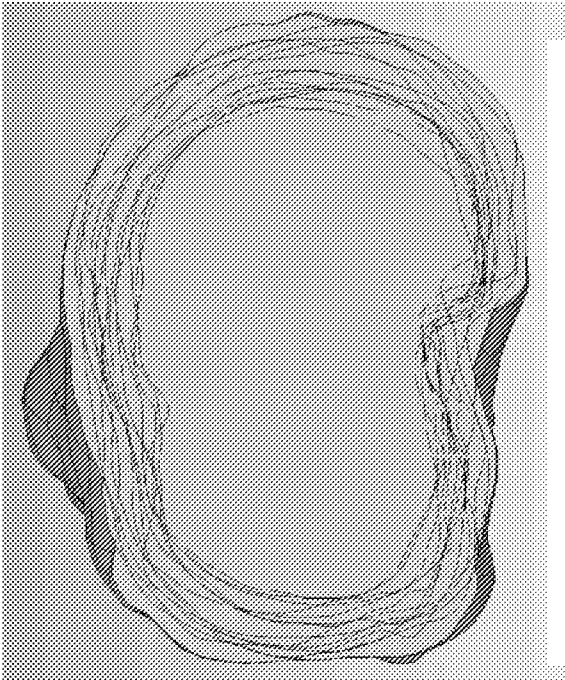


FIG. 163B

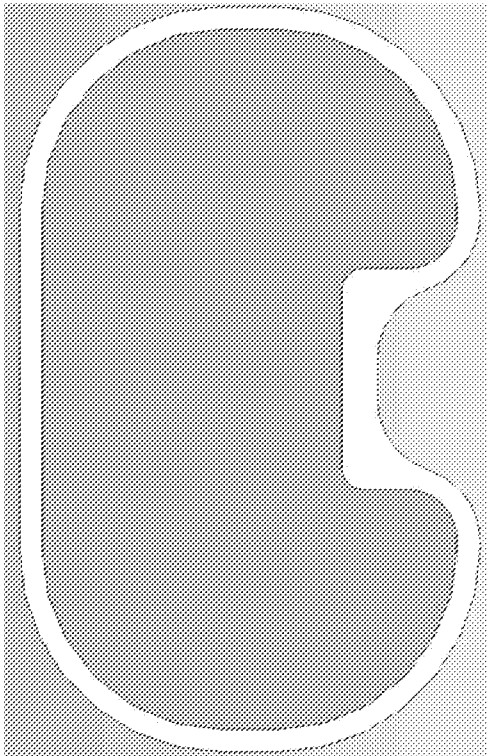


FIG. 165B

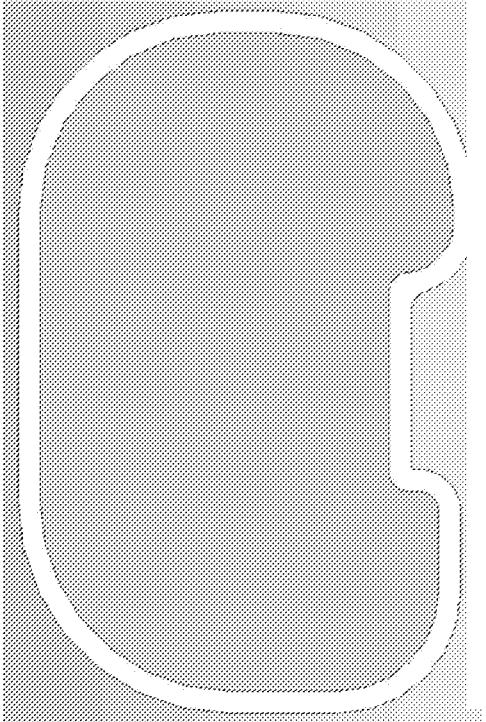


FIG. 165D

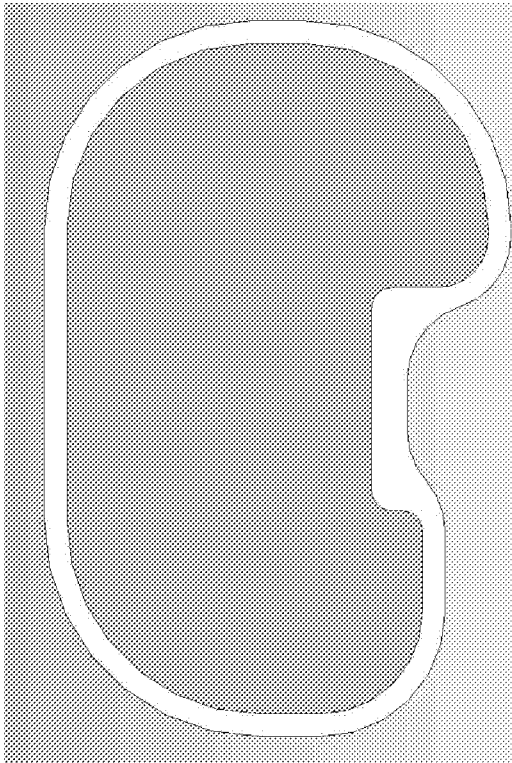


FIG. 165A

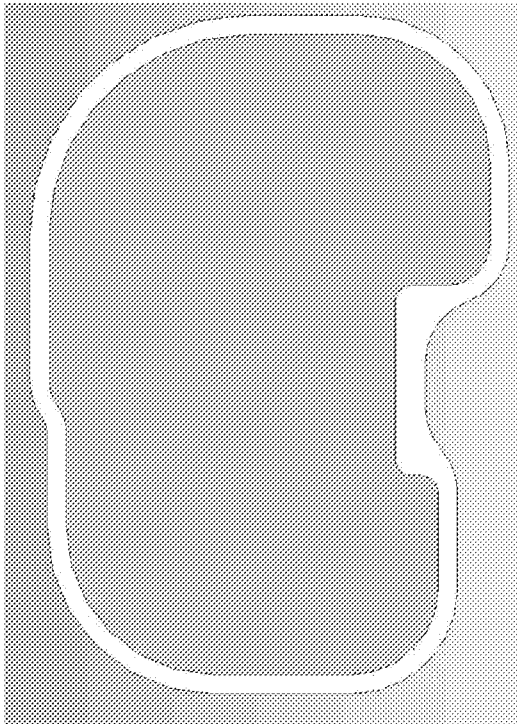


FIG. 165C

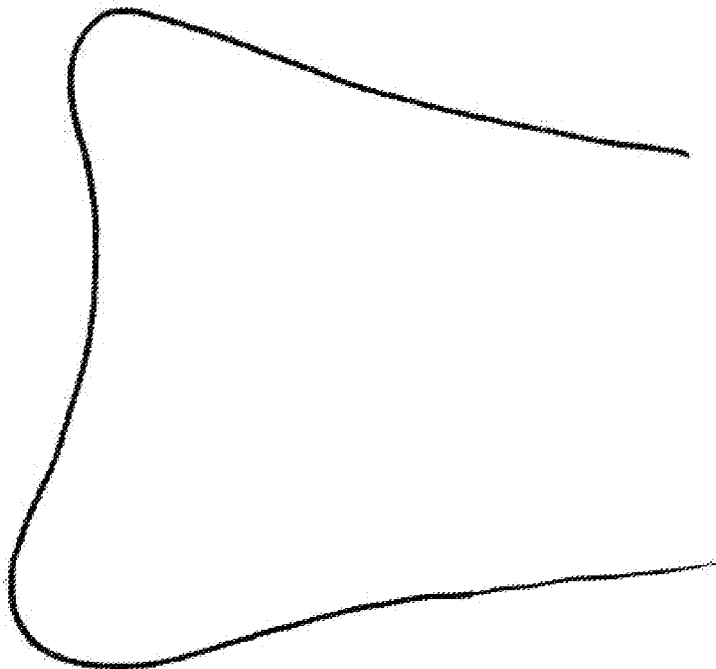


FIG. 176A

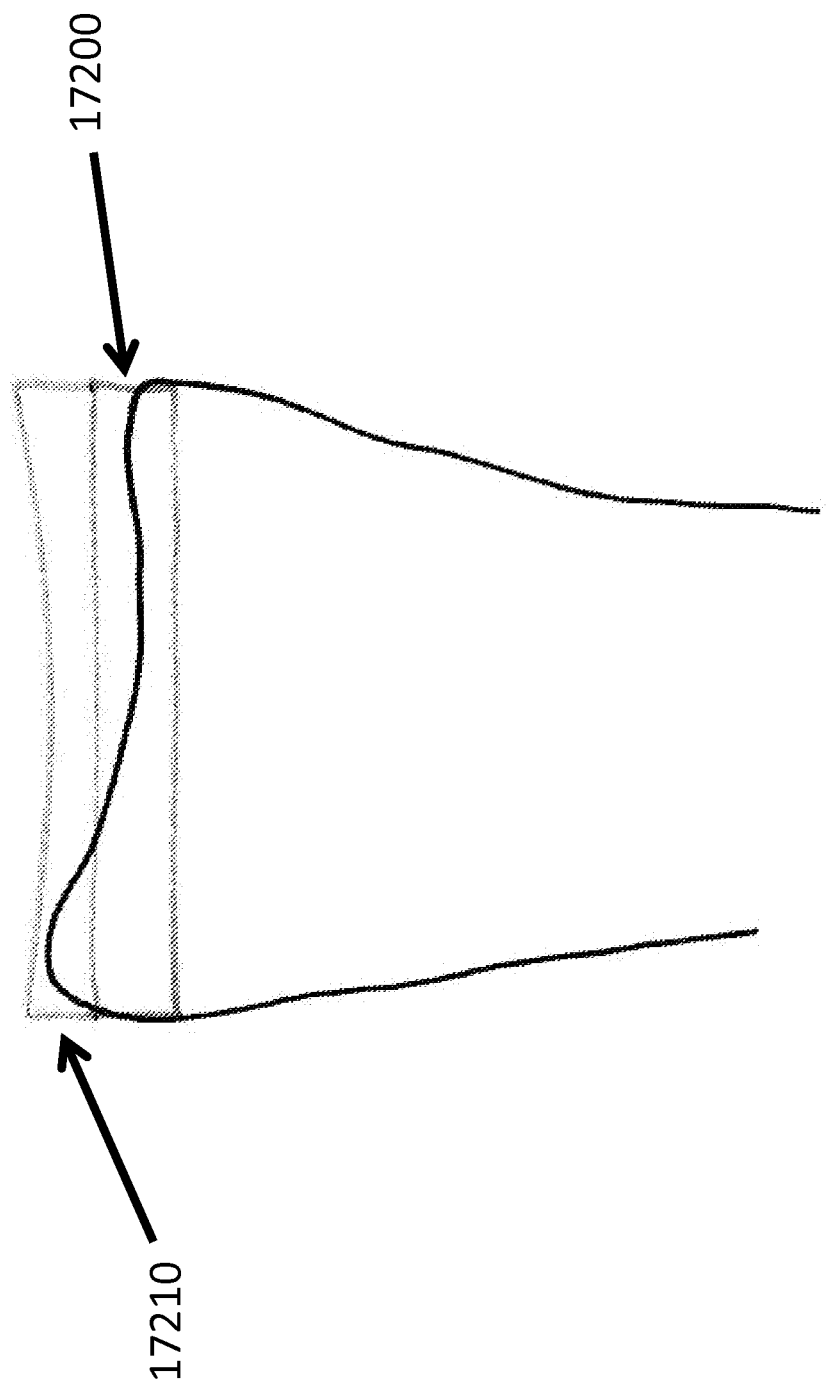


FIG. 176B

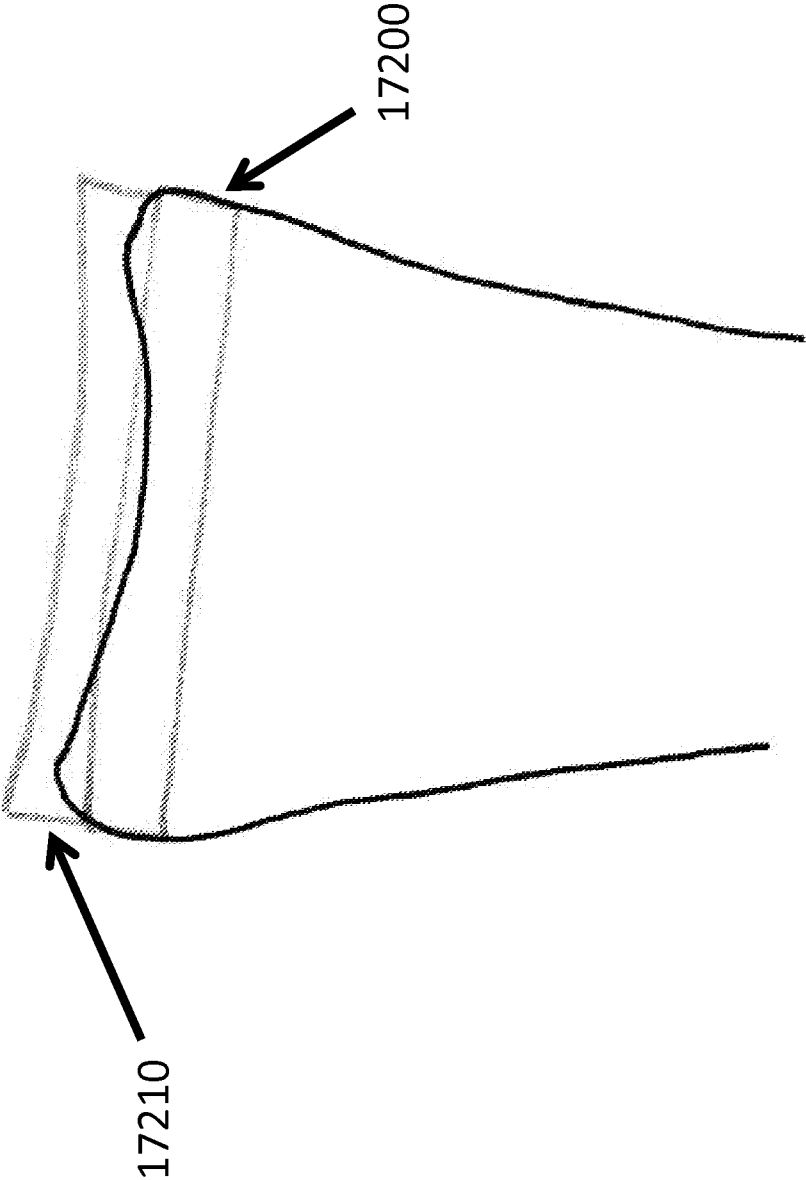


FIG. 176C

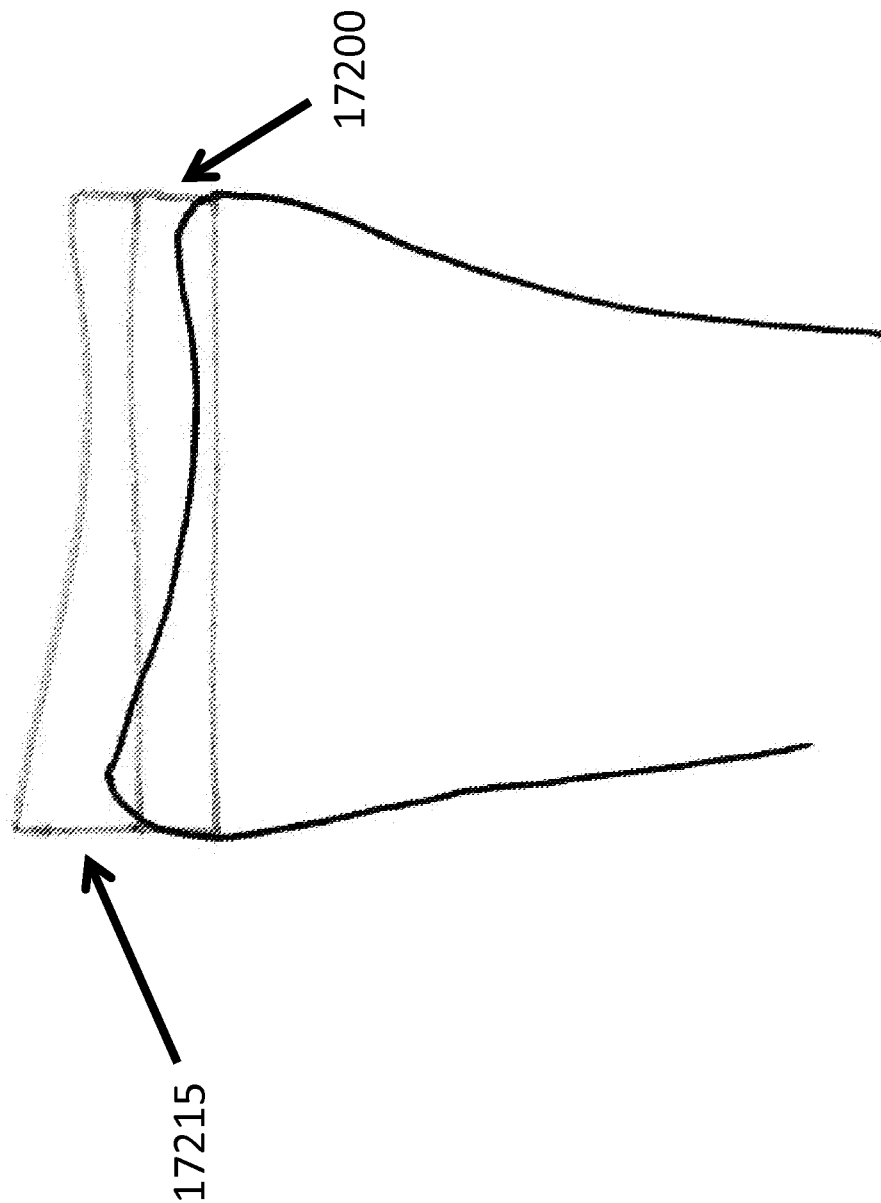


FIG. 176D

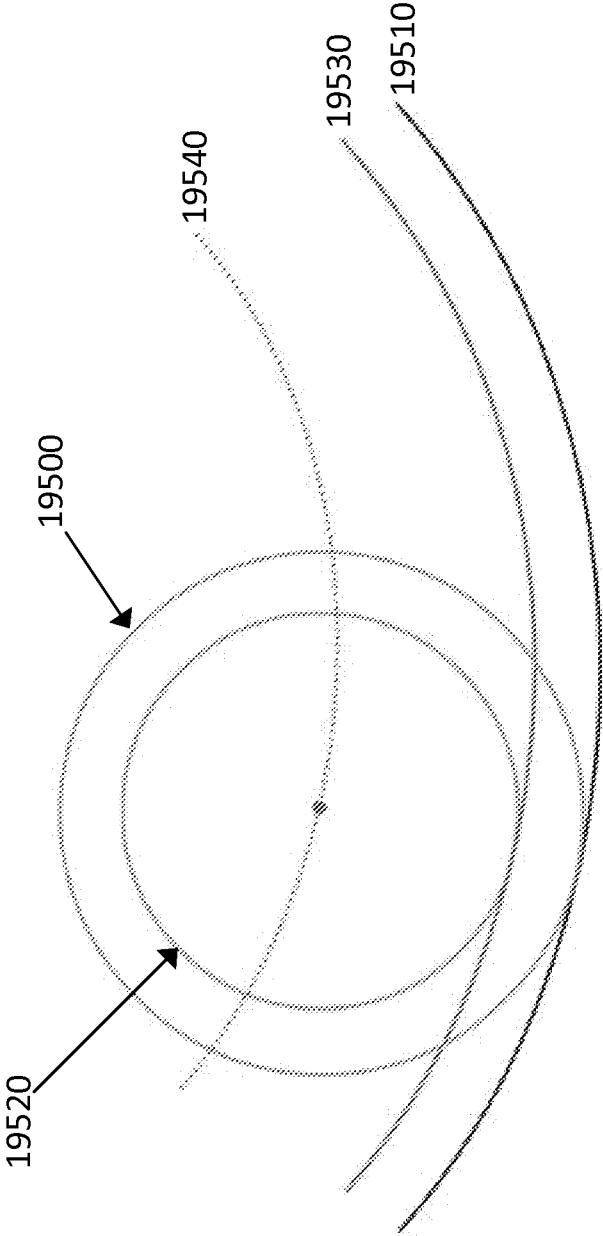


FIG. 191

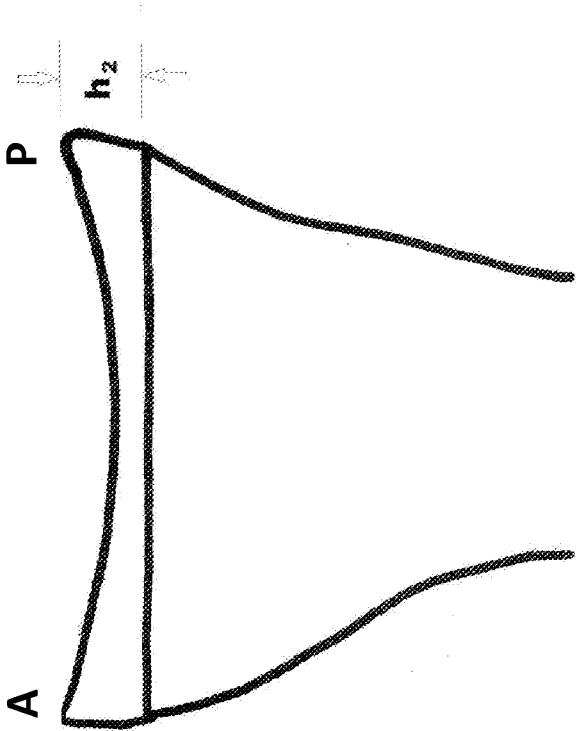


FIG. 192

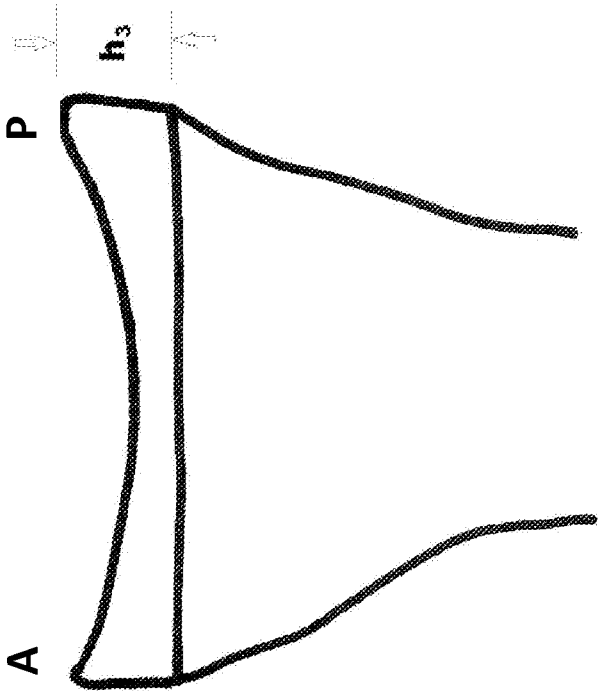
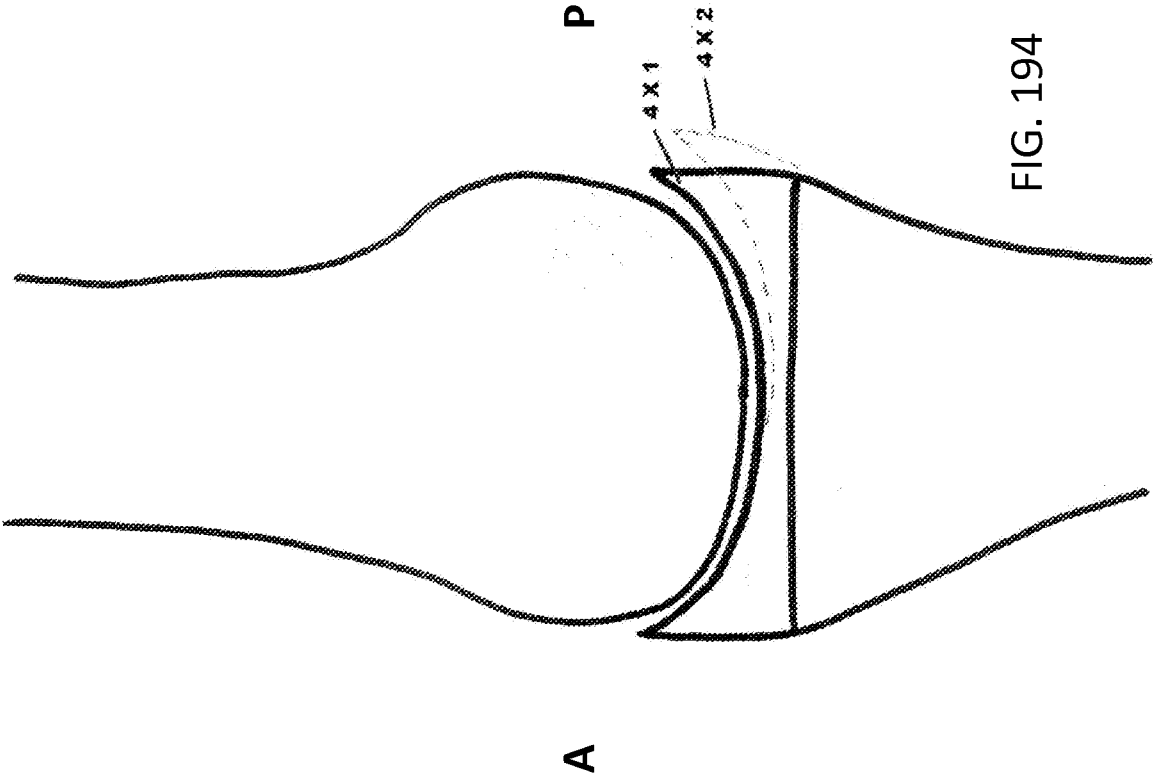


FIG. 193



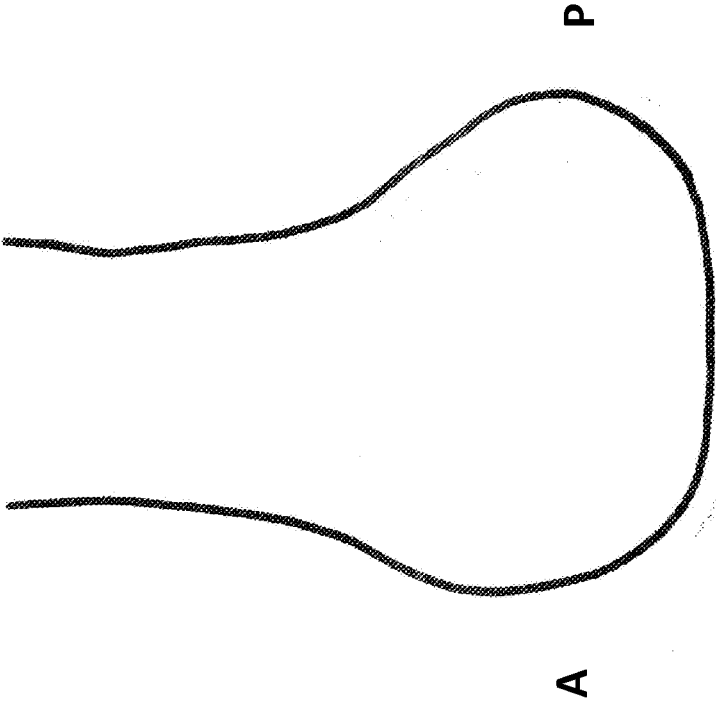


FIG. 195

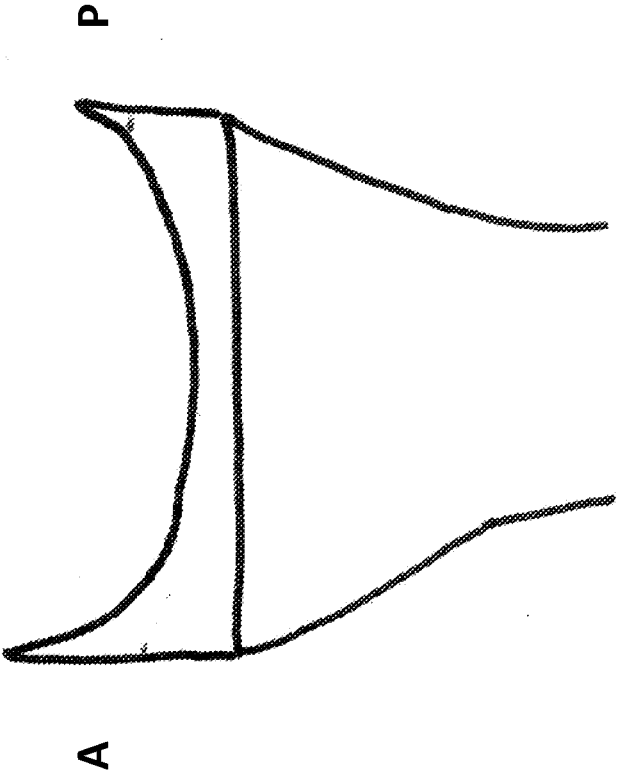


FIG. 196

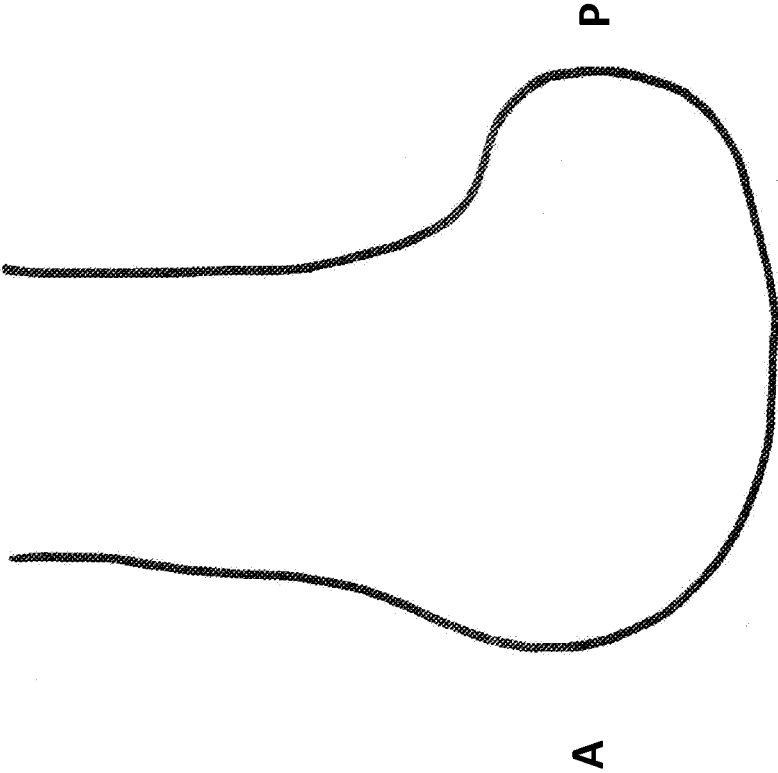


FIG. 197

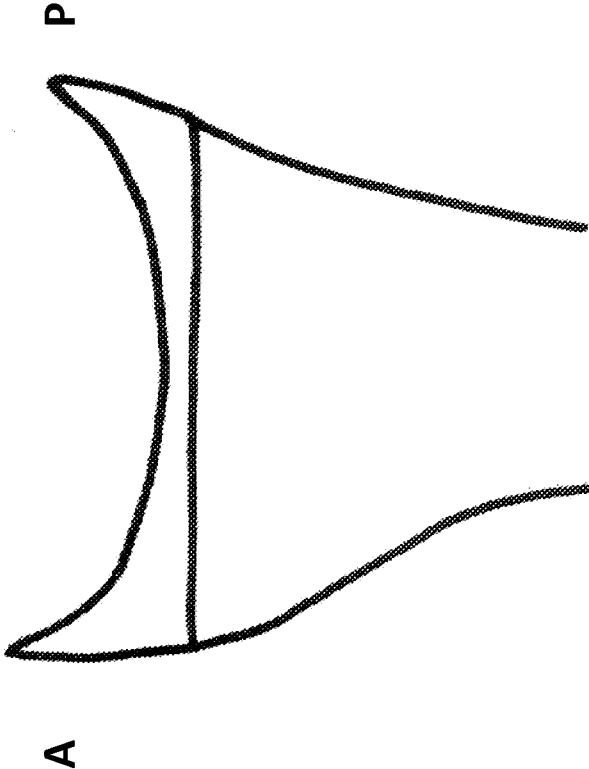


FIG. 198