

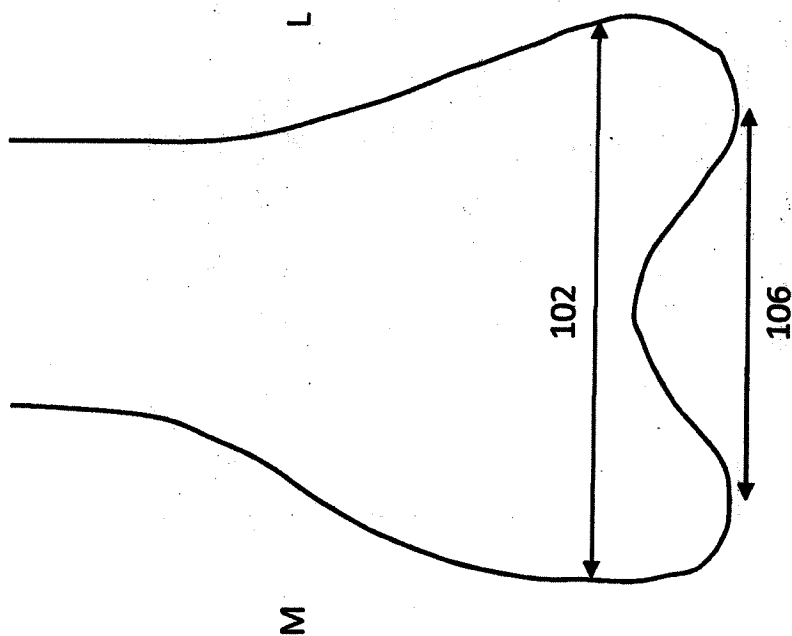


FIG. 1A

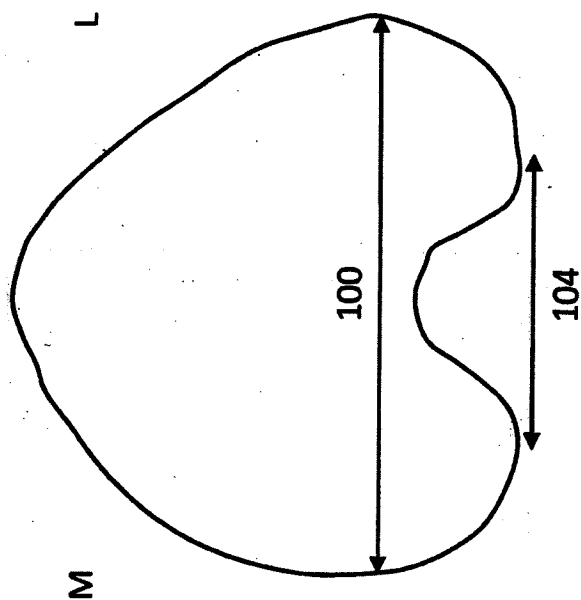


FIG. 1B

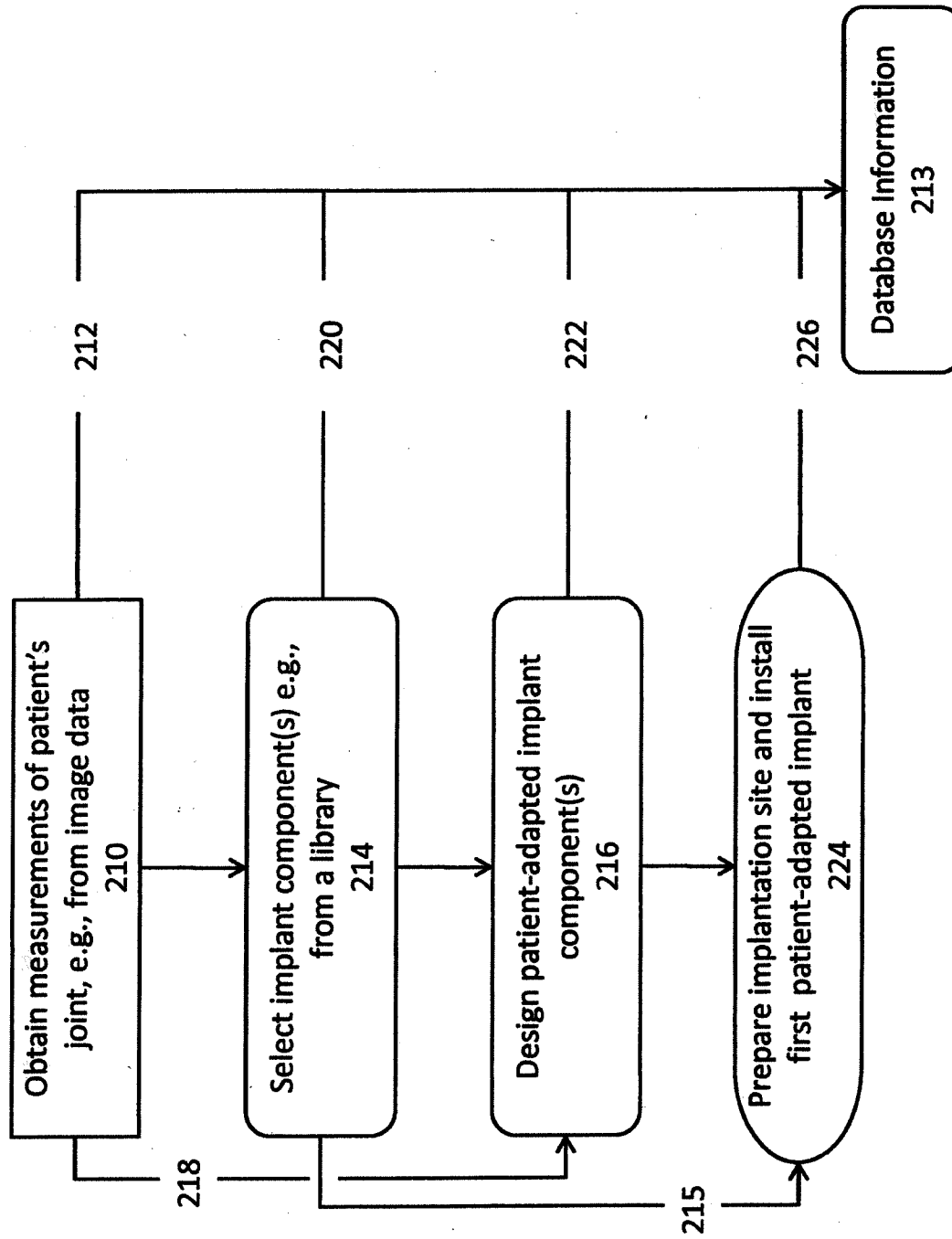


FIG. 2

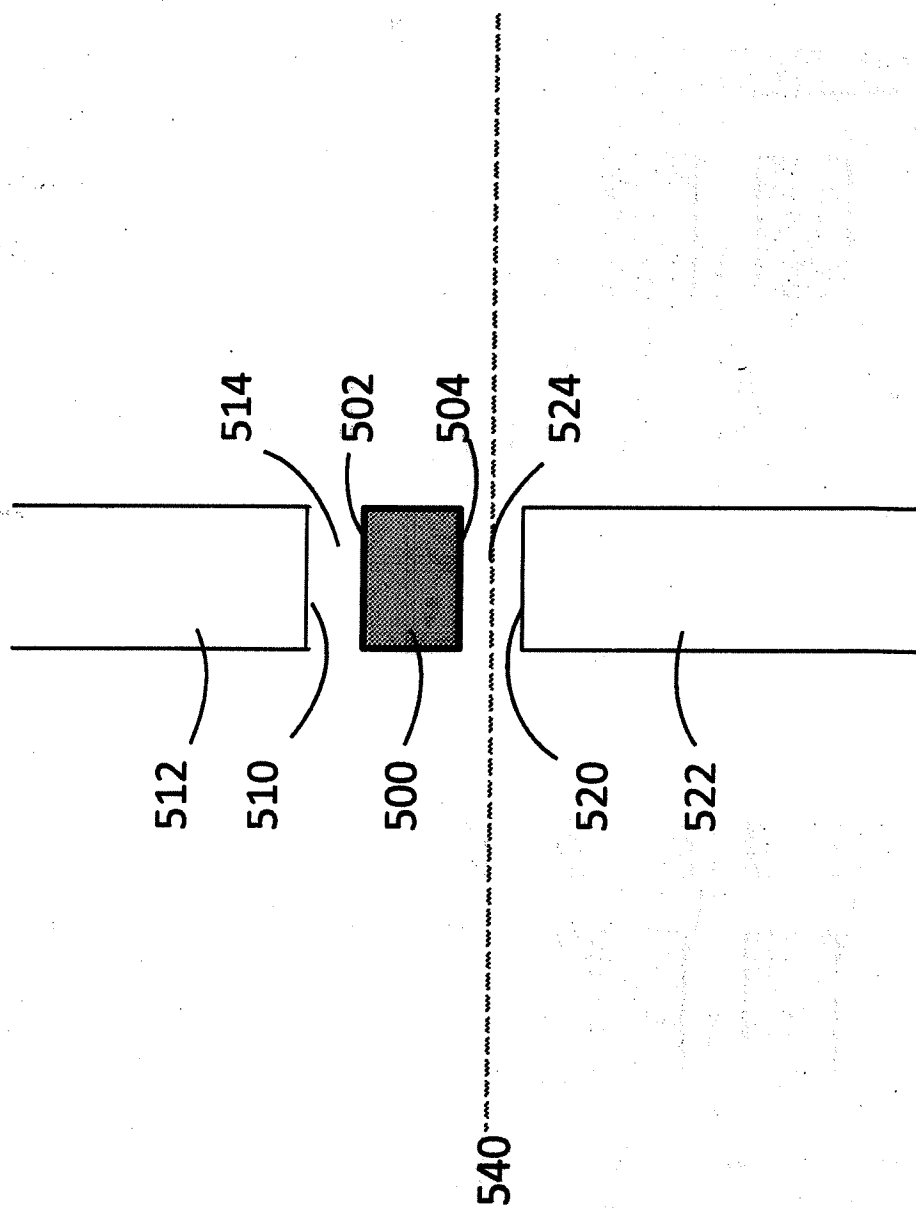


FIG. 5A

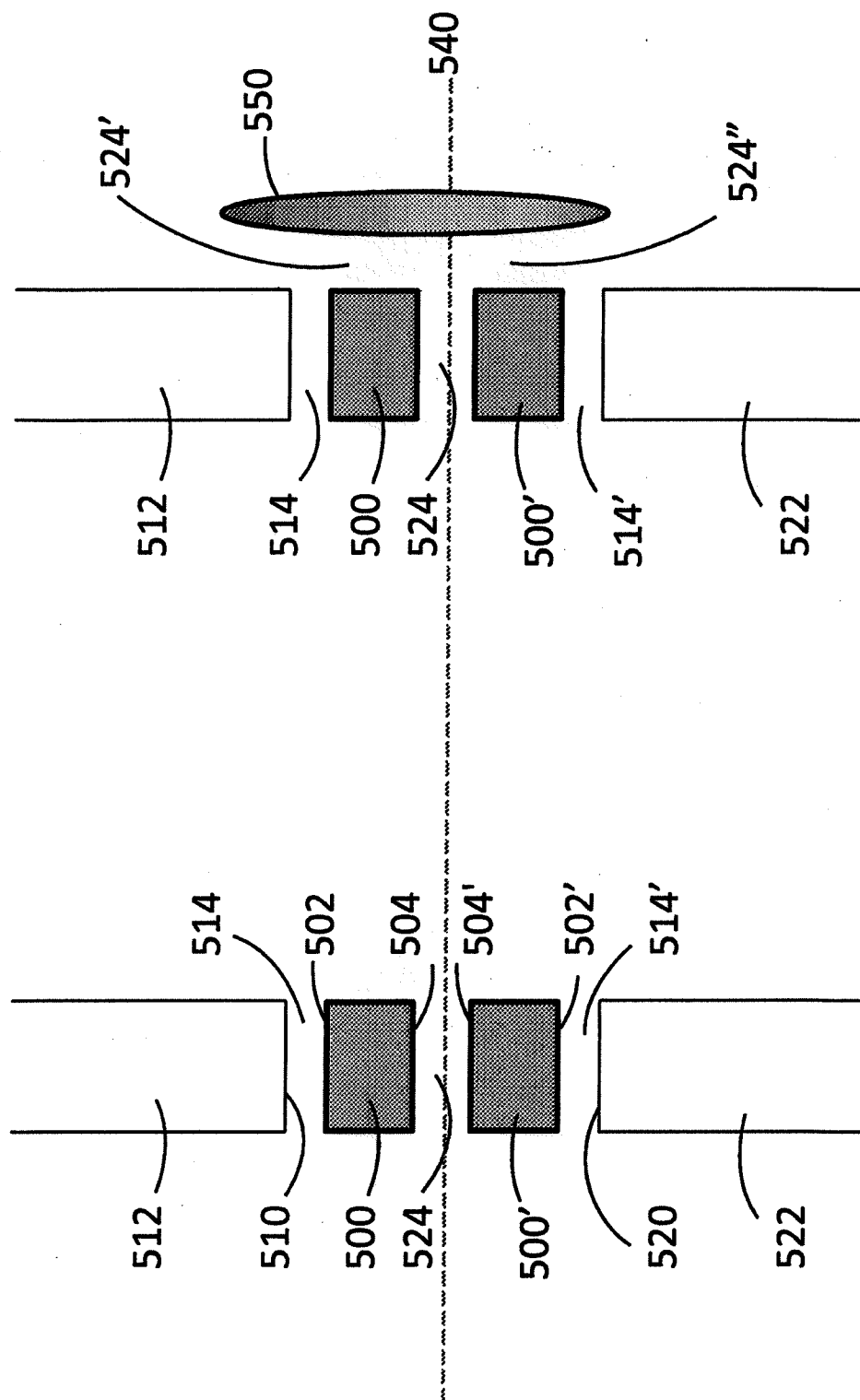


FIG. 5C

FIG. 5B

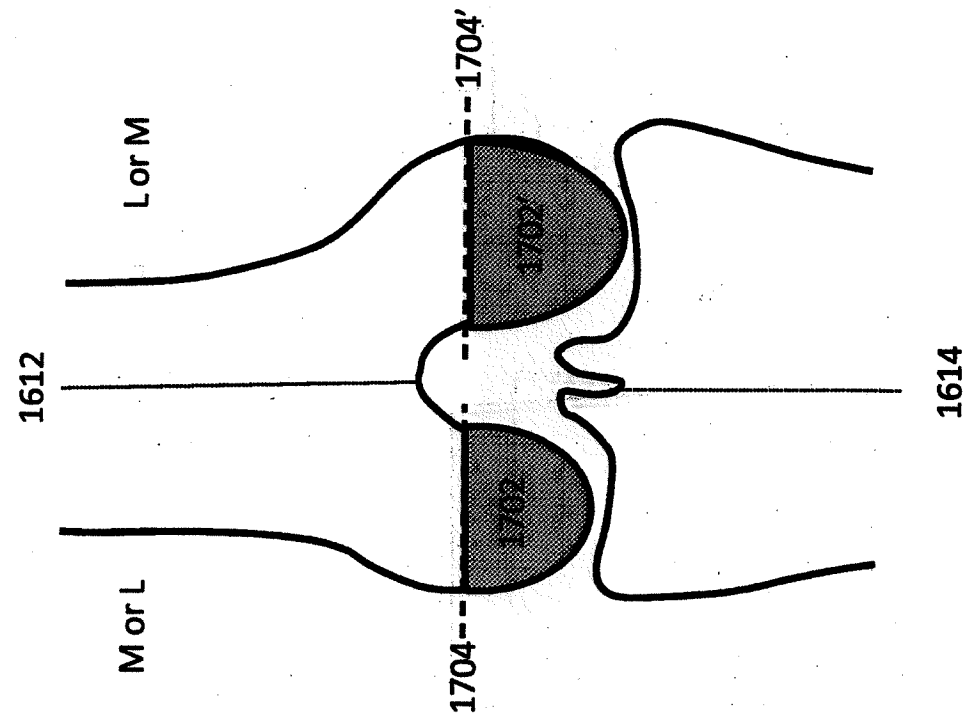


FIG. 16

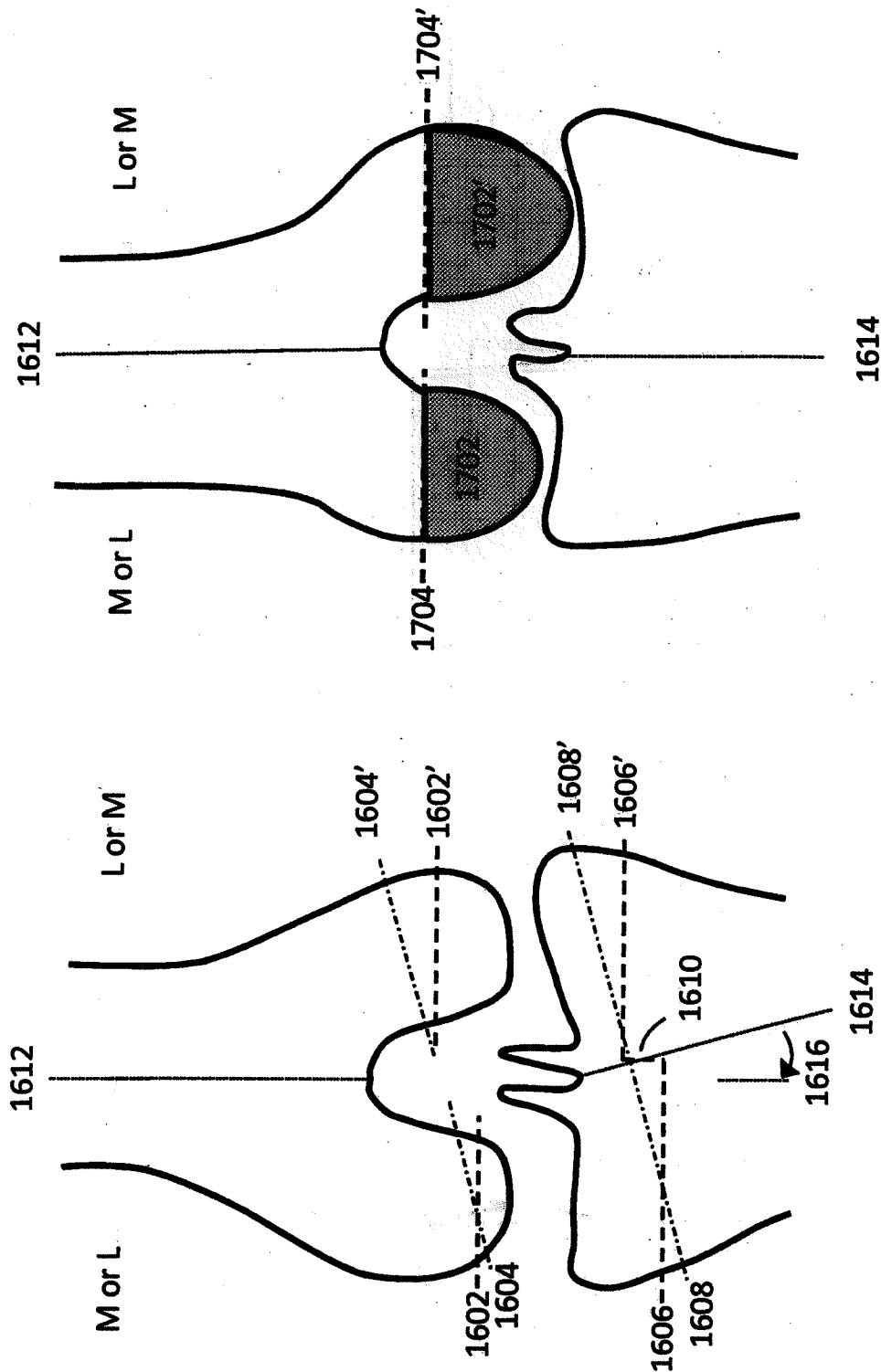


FIG. 17

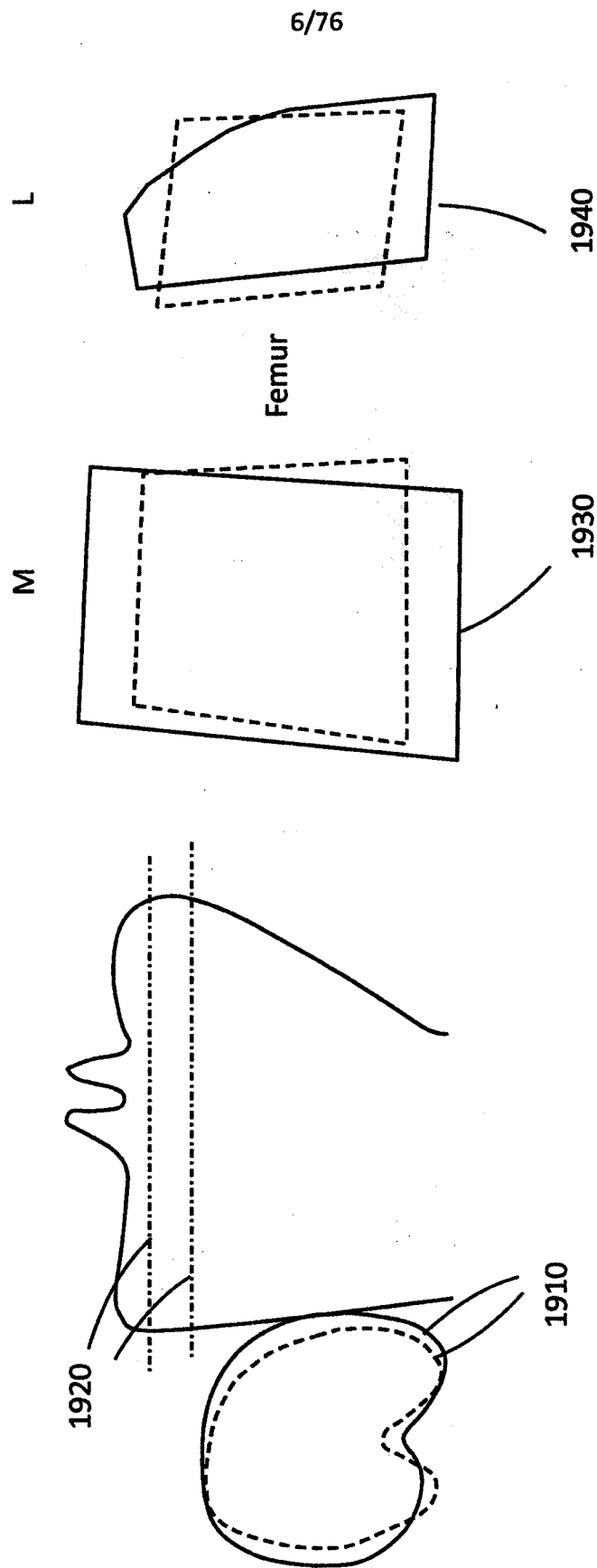


FIG. 19B

FIG. 19A

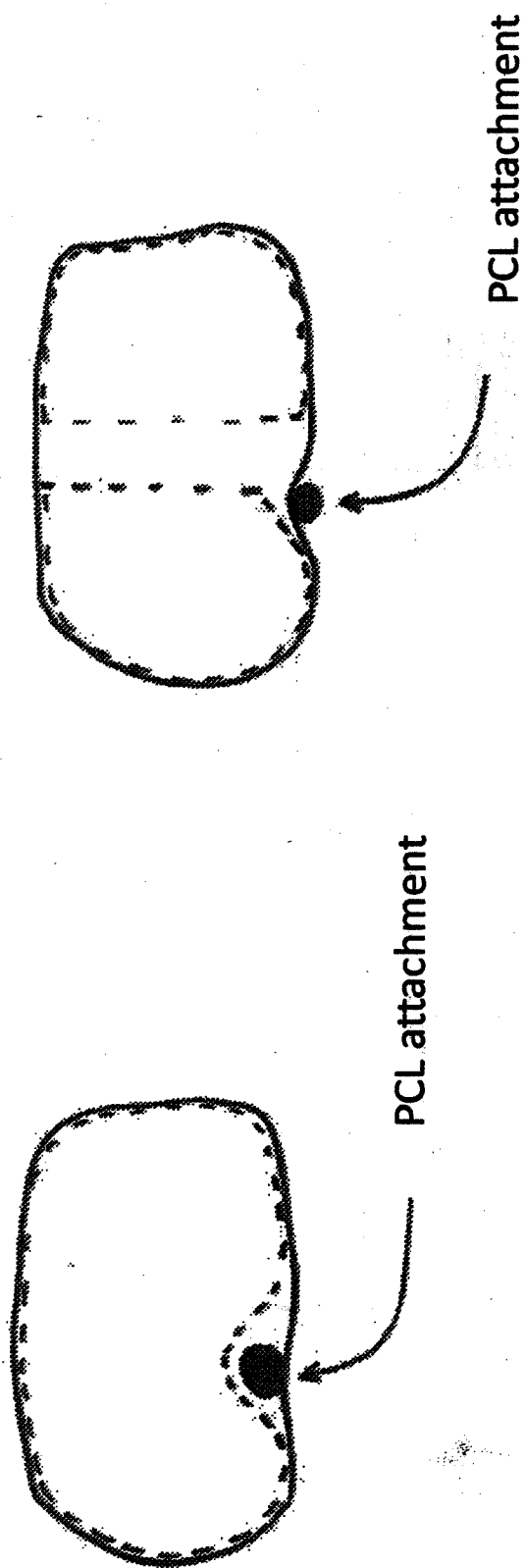


FIG. 22A

FIG. 22B

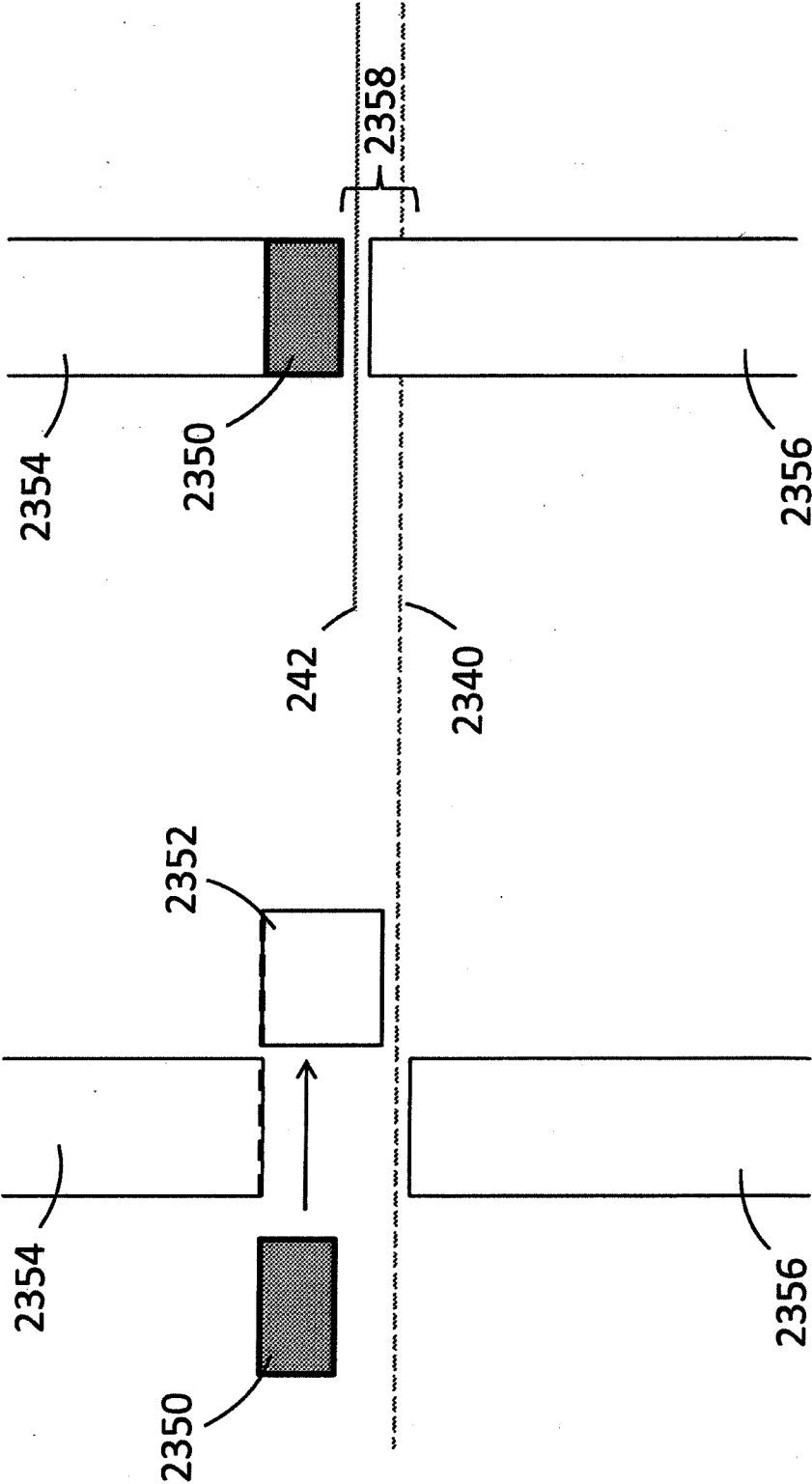


FIG. 23B
(Prior Art)

FIG. 23A
(Prior Art)

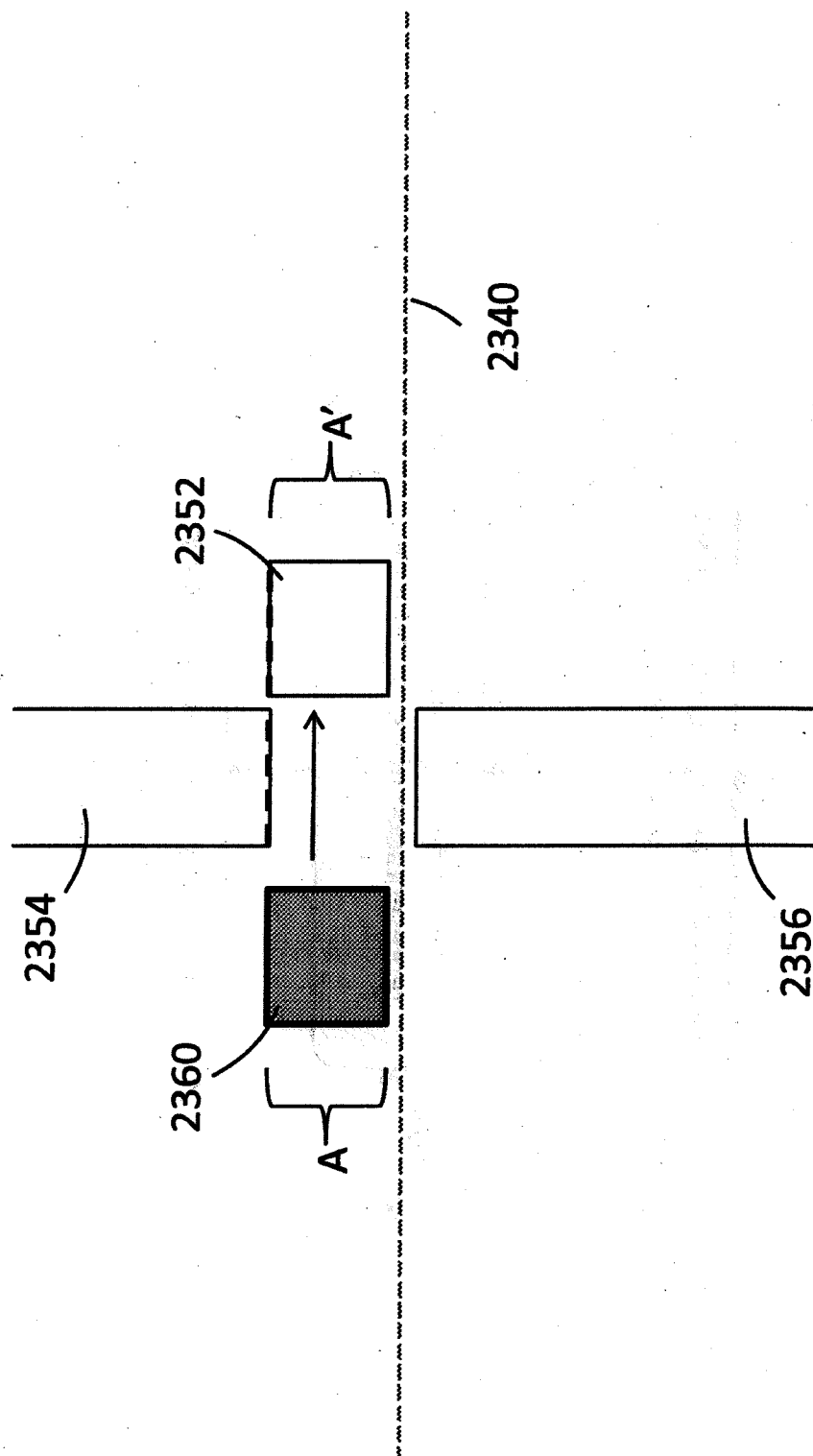


FIG. 23C

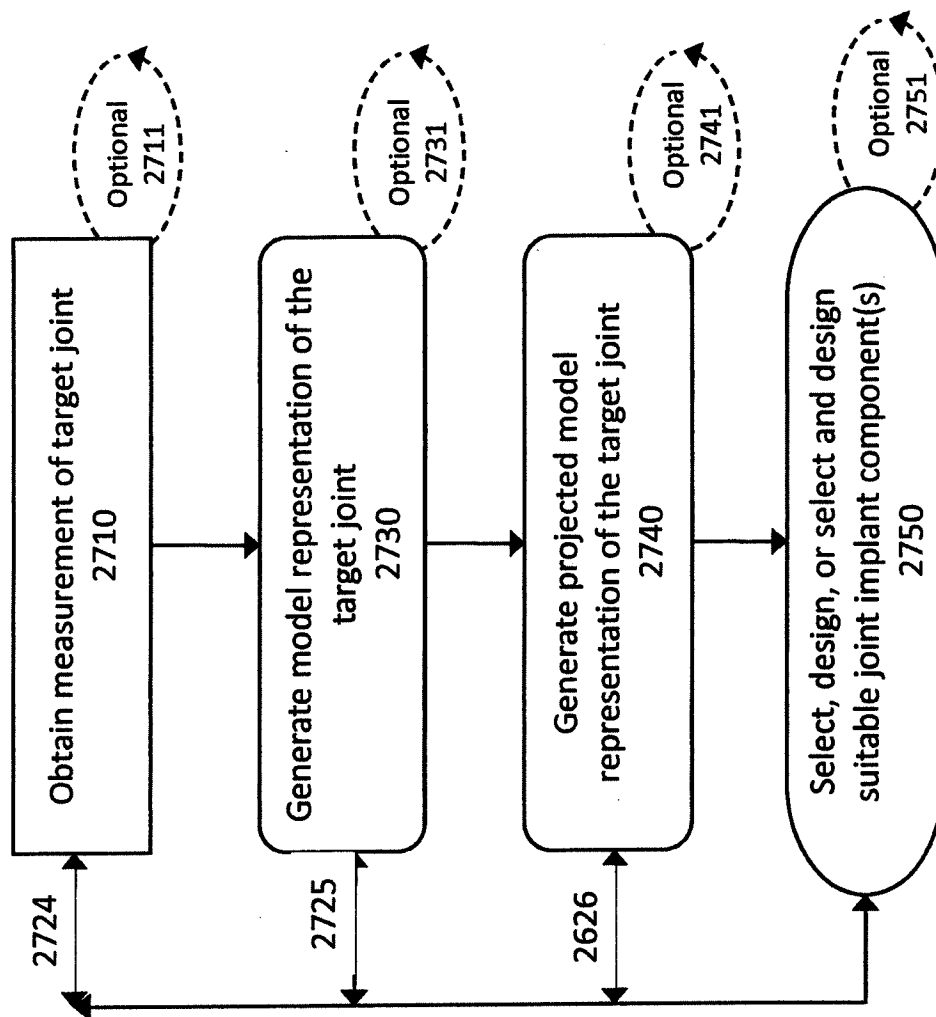
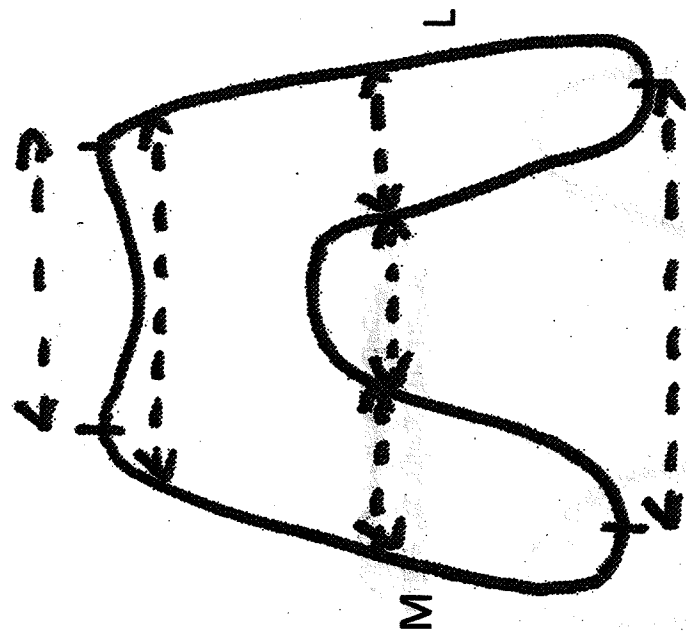
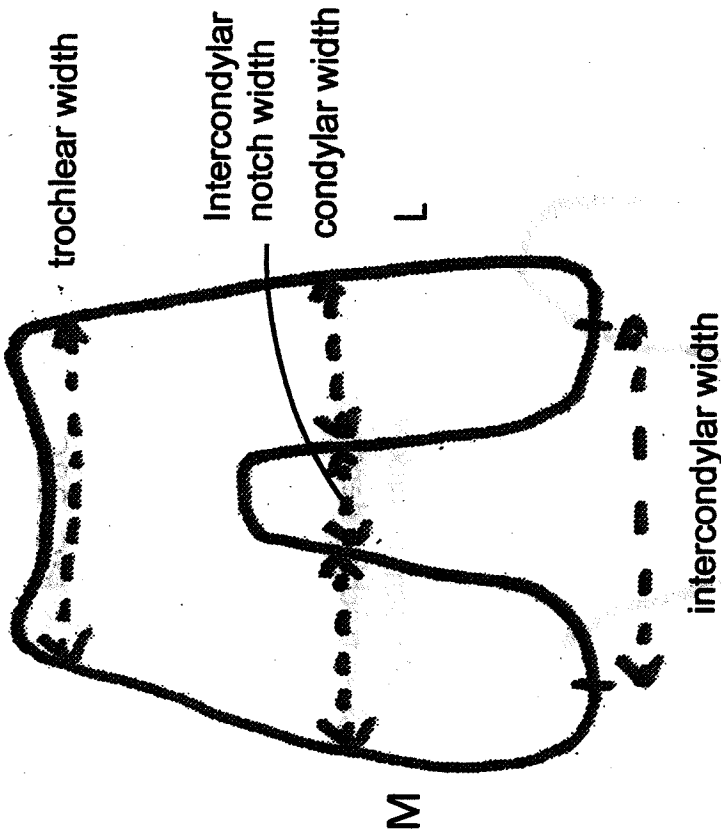


FIG. 27



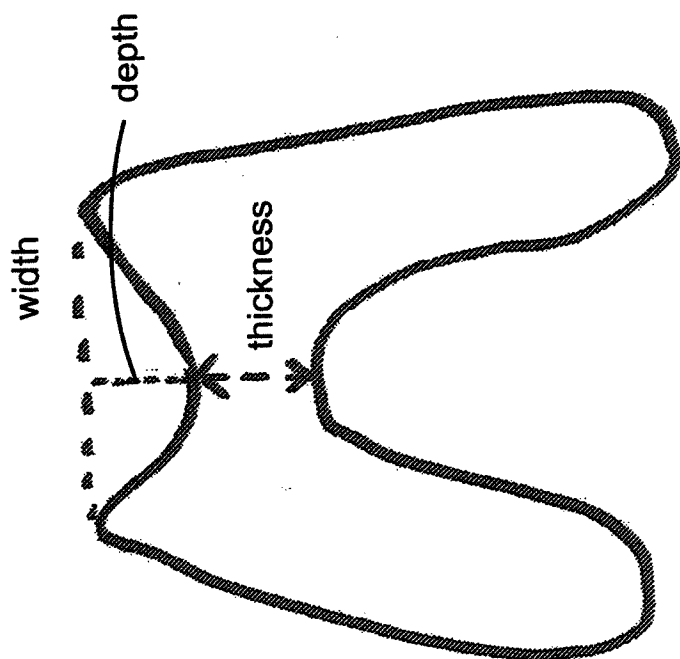
- Condyle width
- Medial different from lateral condyle

FIG. 28A



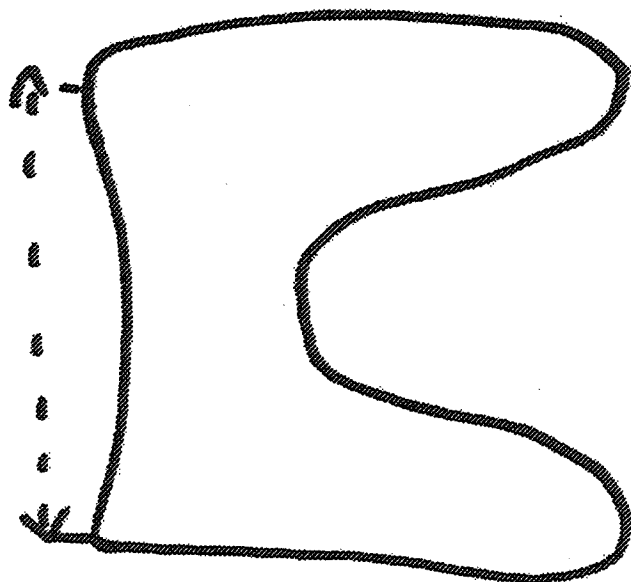
- Wide notch
- Narrow condyle
- Medial different from lateral condyle

FIG. 28B



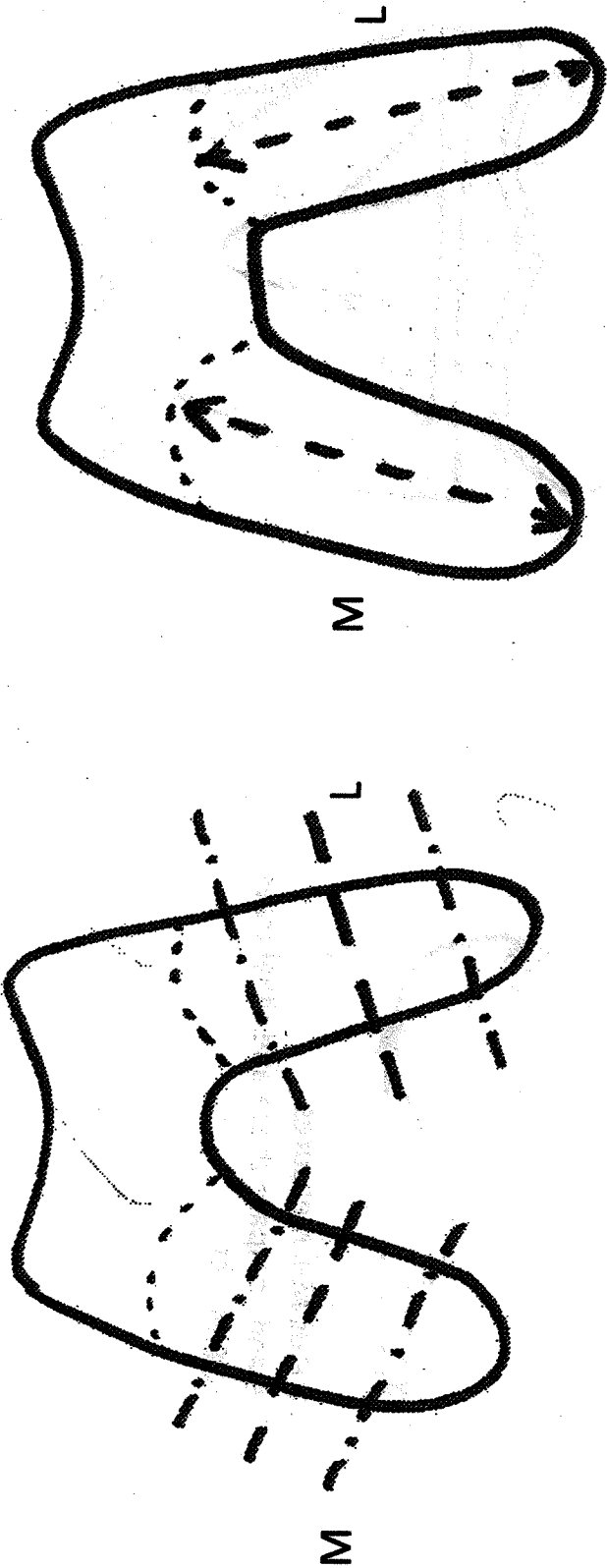
- Small trochlea thickness
- Deep trochlea depth

FIG. 28C



- Wide trochlea thickness
- Shallow trochlea depth

FIG. 28D

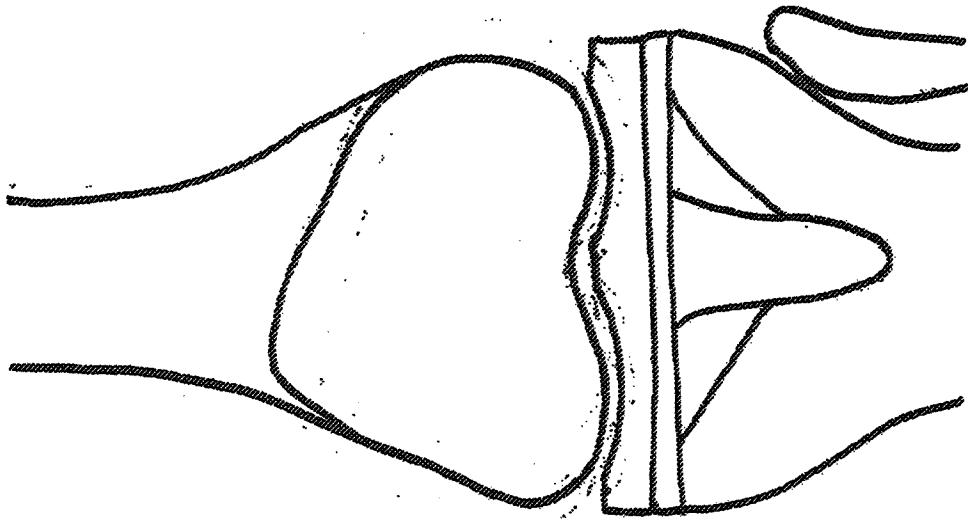


- Measure of condyle width
- Each condyle assessed independently
- One or more measures per condyle

FIG. 28E

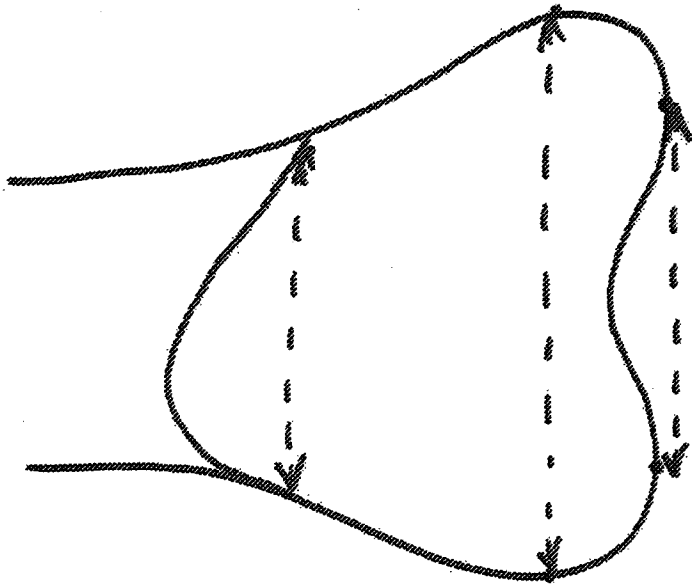
- Measure of condyle length
- Each condyle assessed independently
- One or more measures can apply per condyle

FIG. 28F



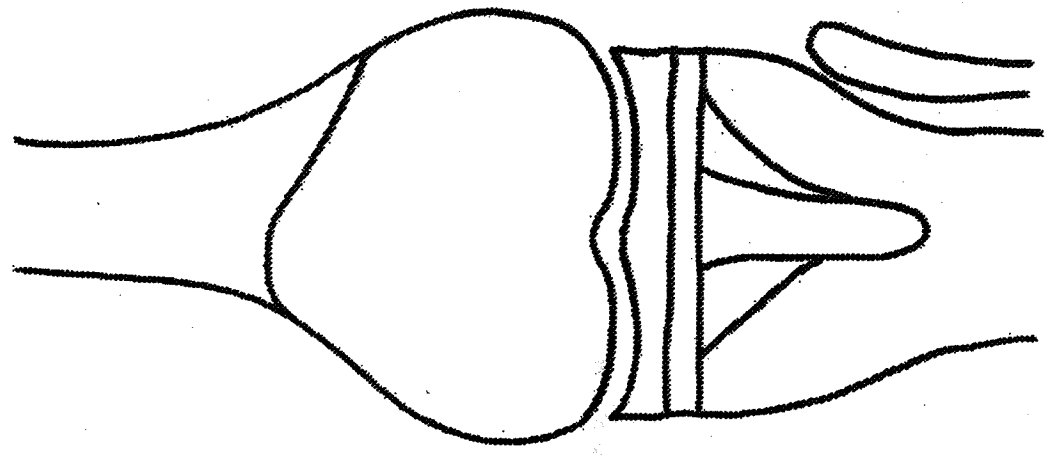
- "Normal" femur / tibia width ratio

FIG. 28H



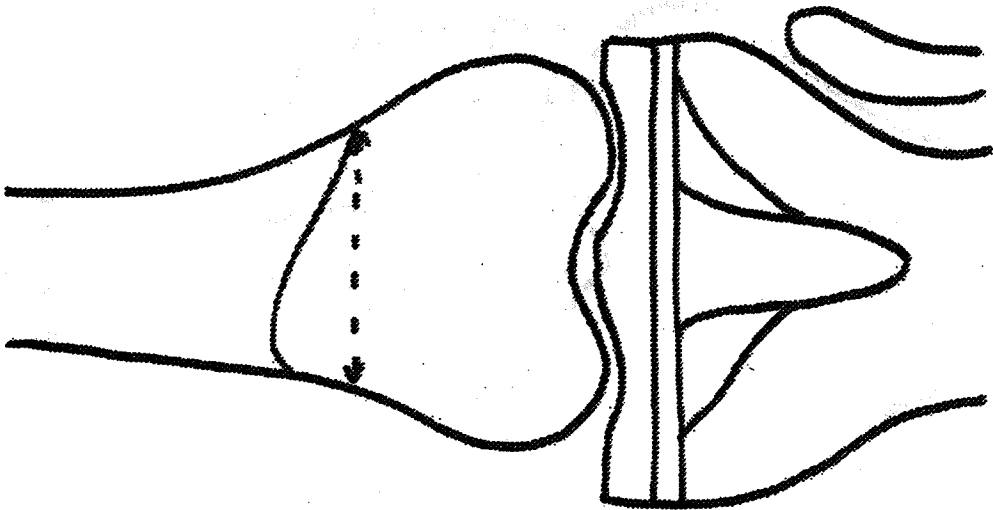
- Various M-L measures
- See and compare these and tibial trays in
FIGS. 63A-64F

FIG. 28G



- Wide femur
- Narrow tibia
- Note change in tibial insert aspects

FIG. 28J



- Narrow femur
- Wide tibia

FIG. 28I

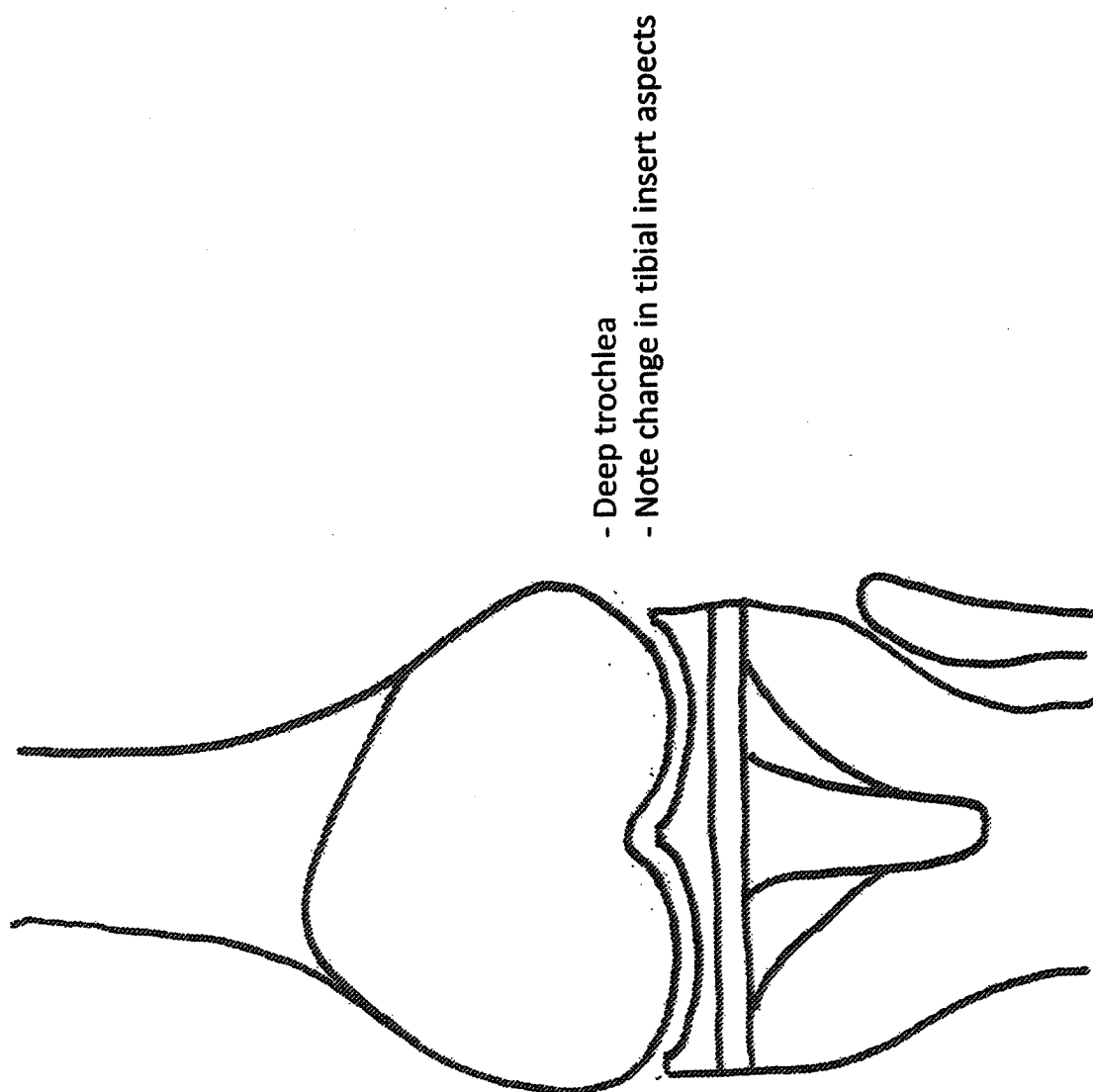


FIG. 28K

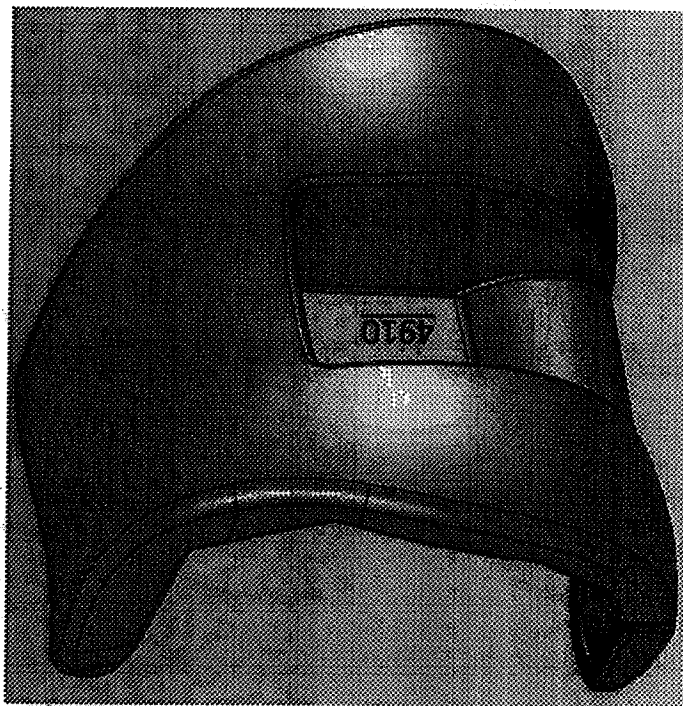


FIG. 49B

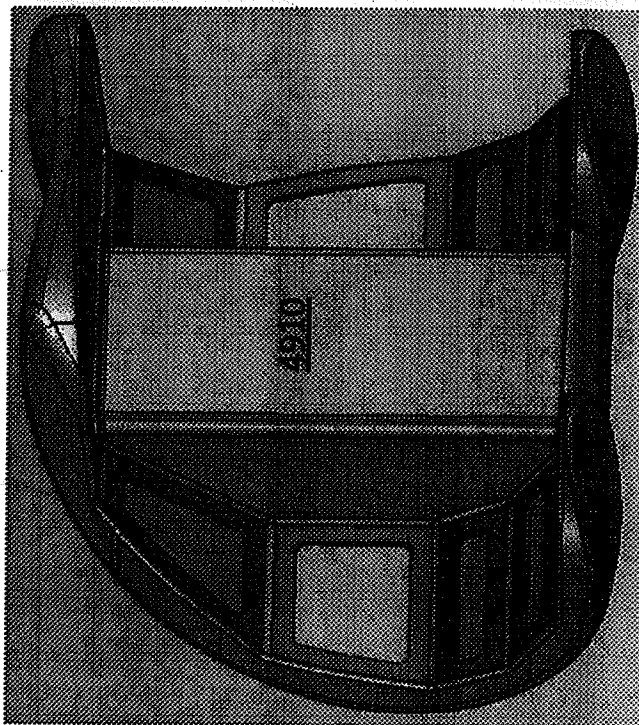


FIG. 49A

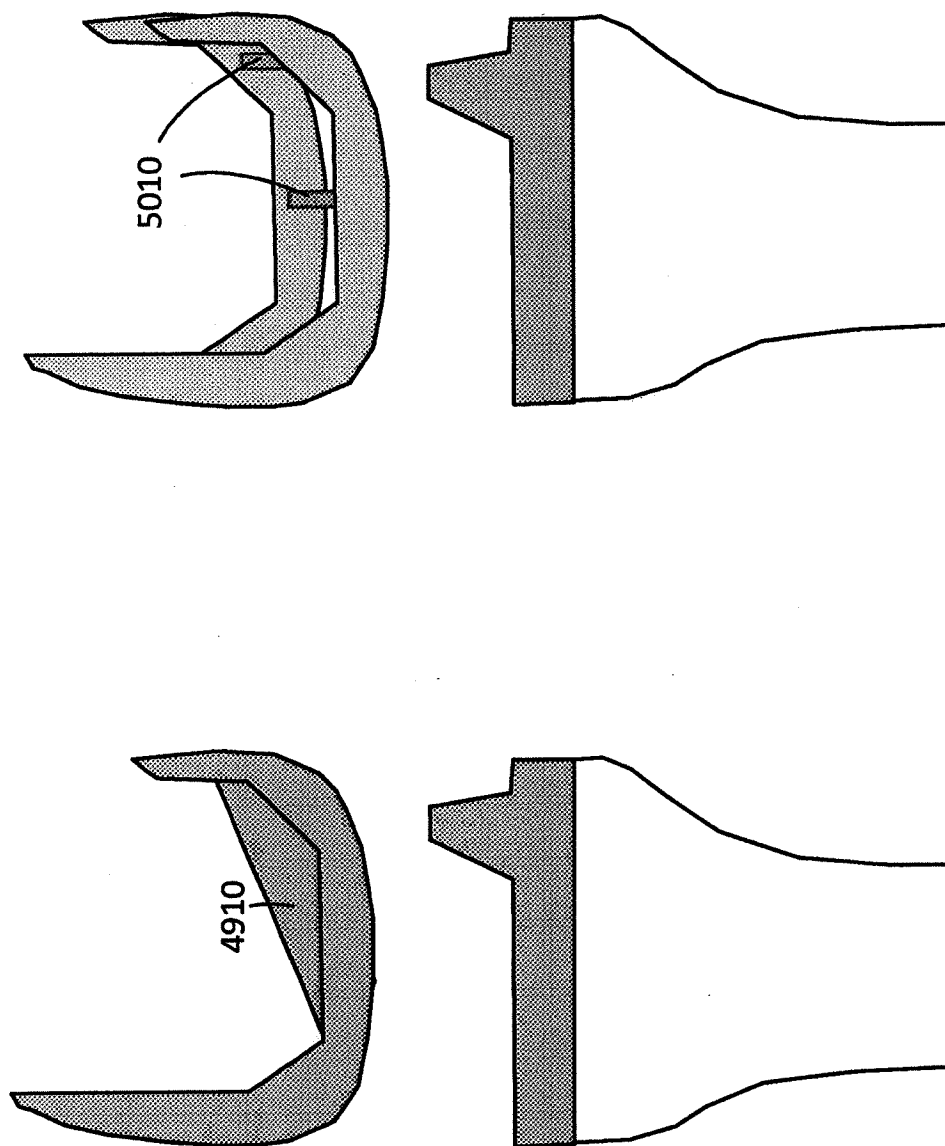


FIG. 50A

FIG. 50B

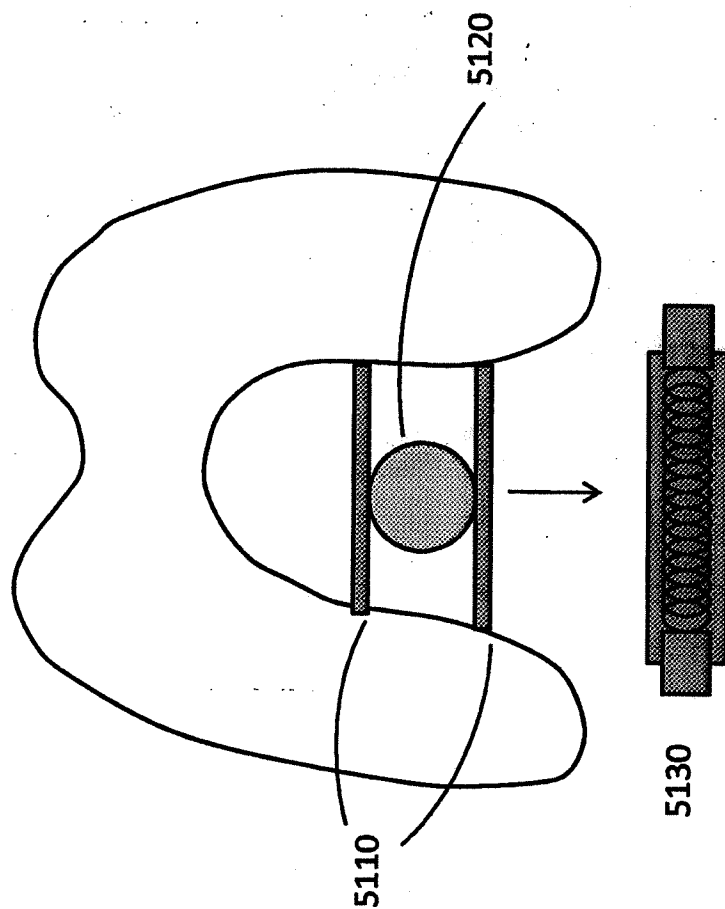


FIG. 51

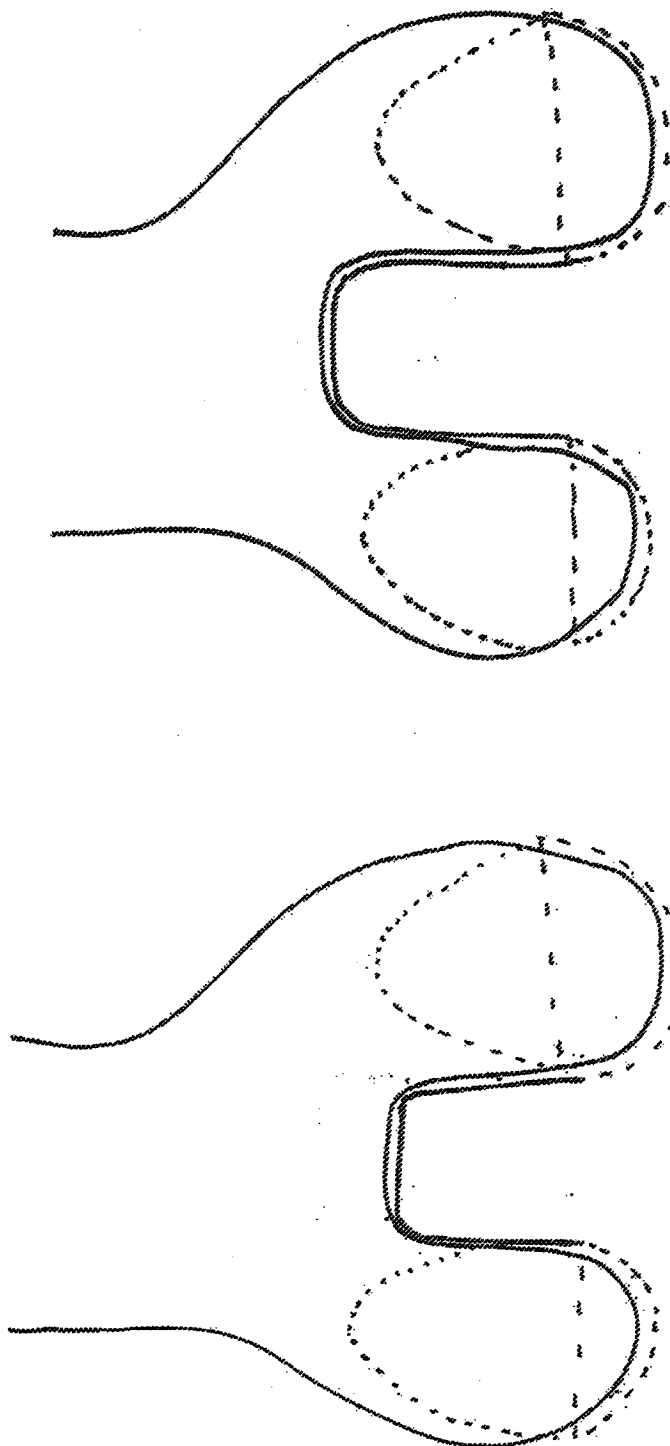


FIG. 52B

FIG. 52A

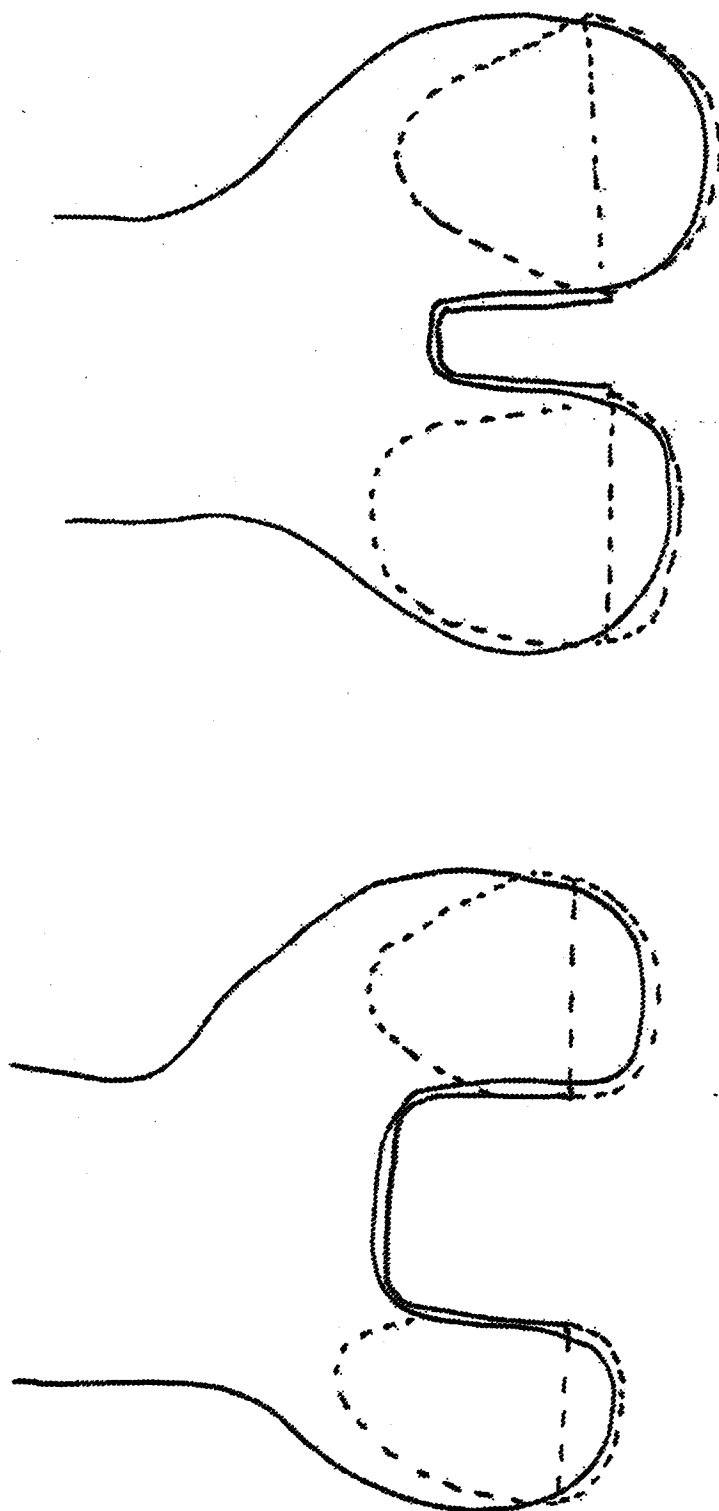


FIG. 52D

FIG. 52C

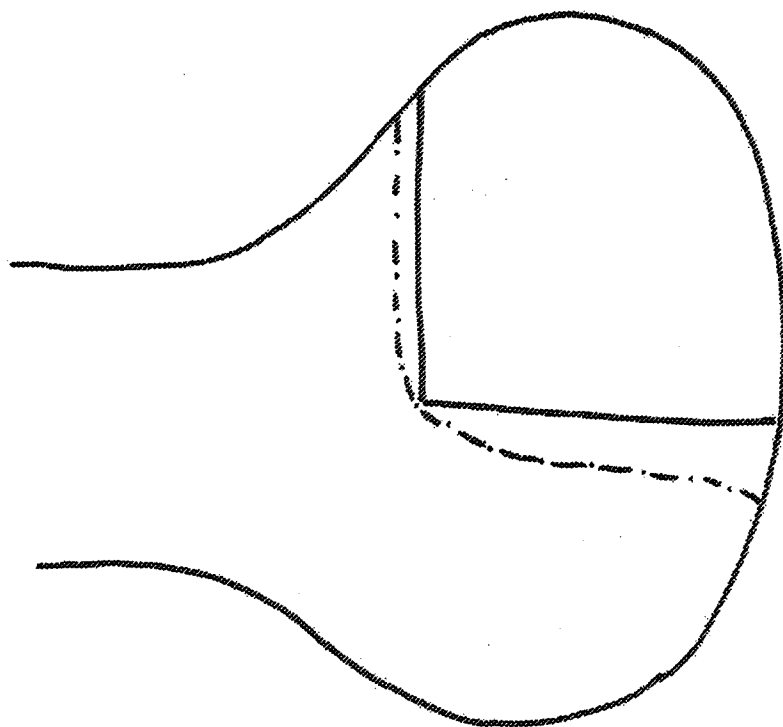


FIG. 52F

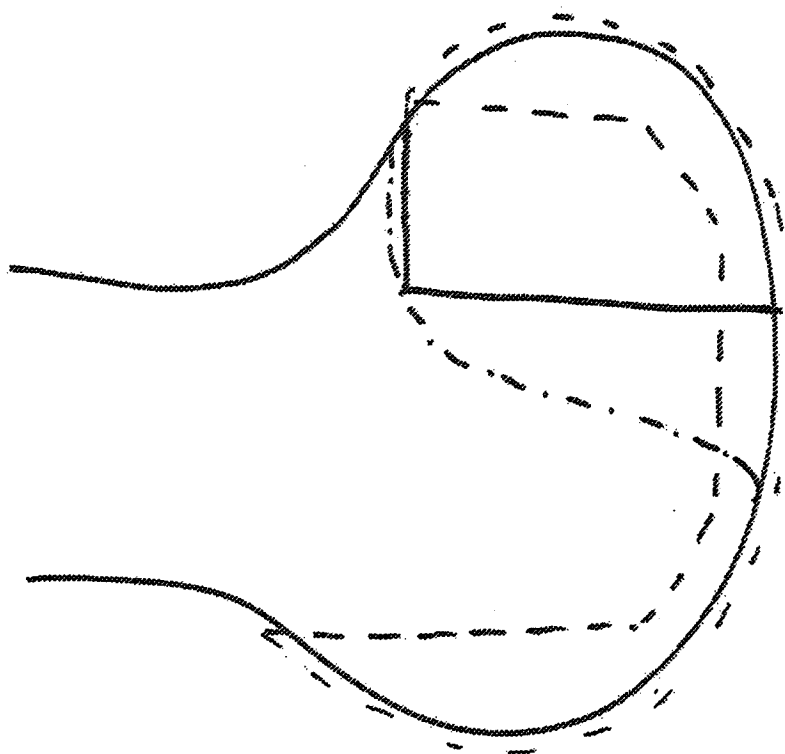


FIG. 52E

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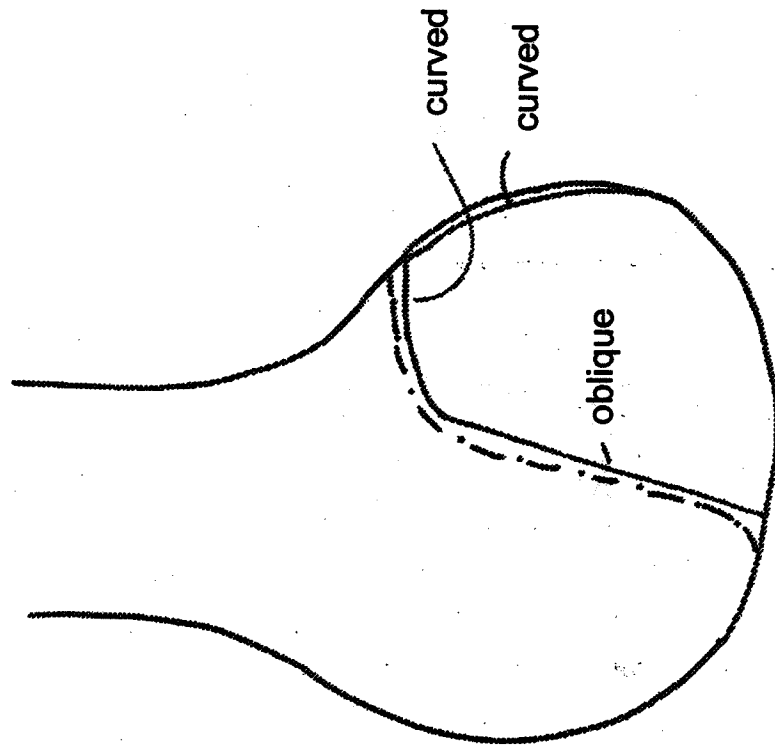


FIG. 52H

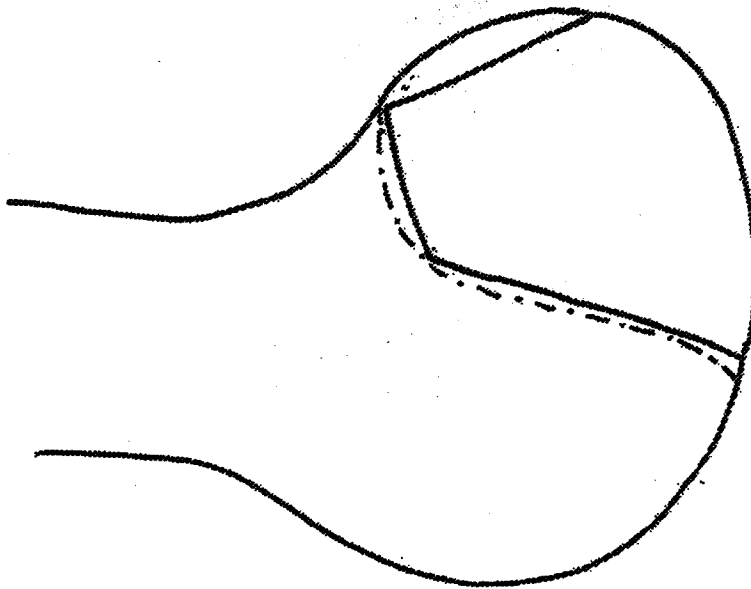


FIG. 52G

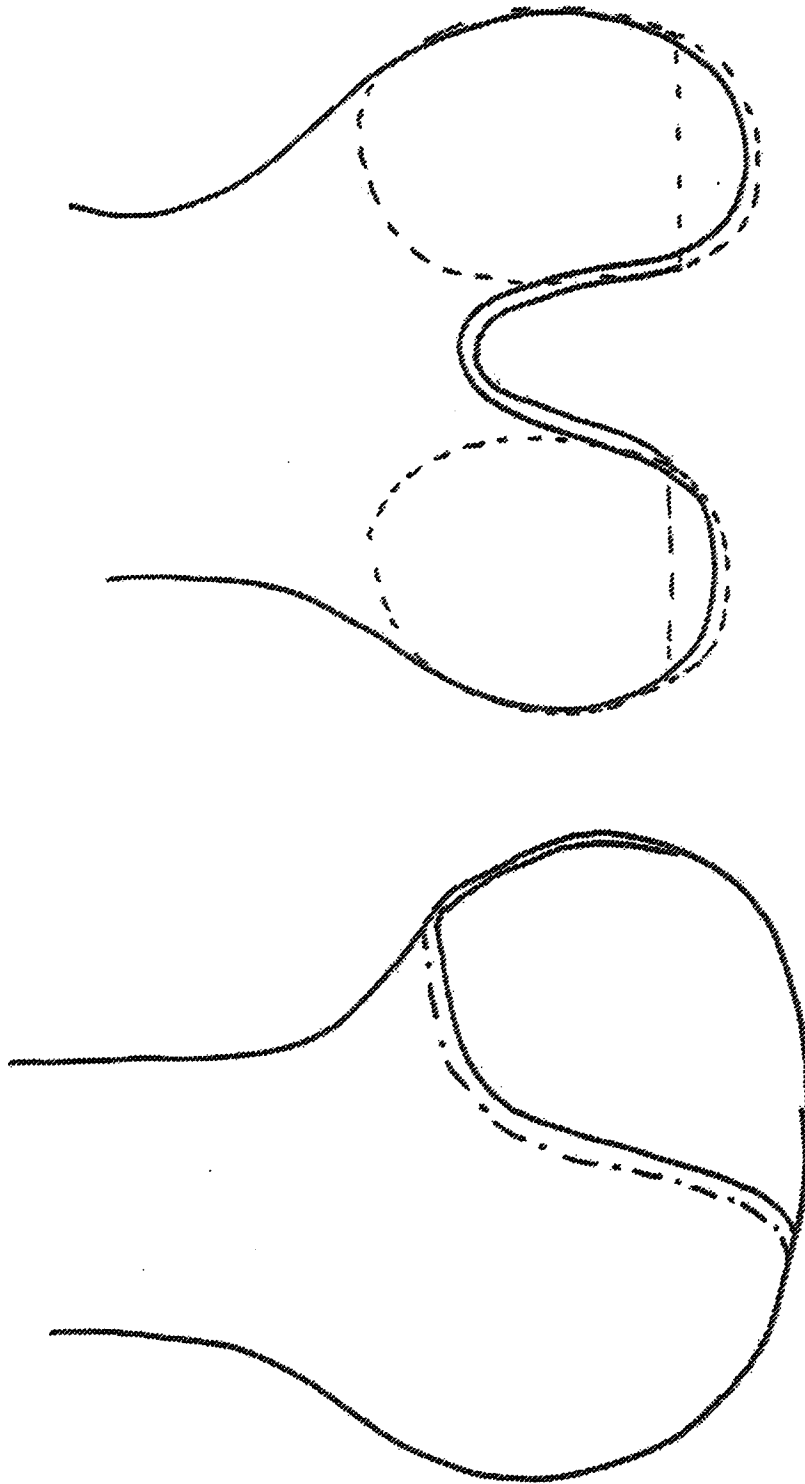


FIG. 52I

FIG. 52J

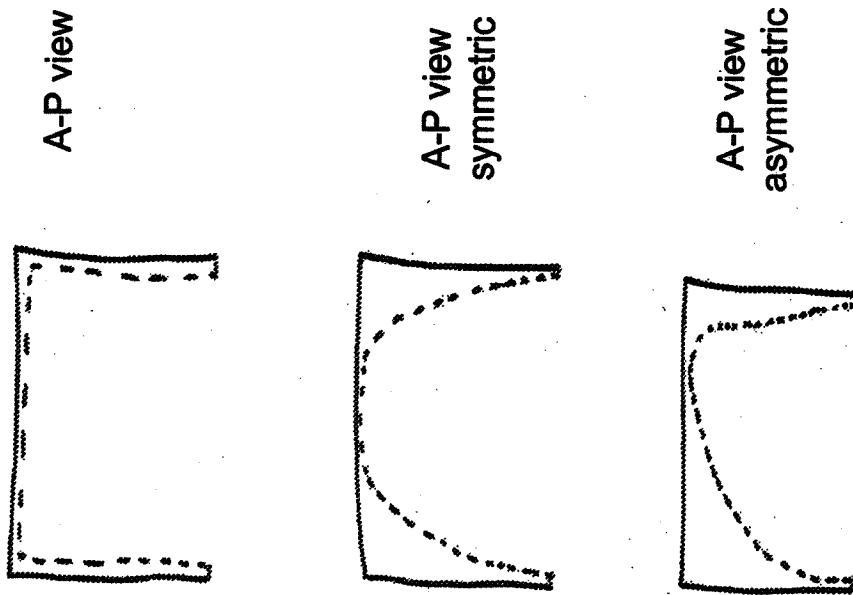


FIG. 52L

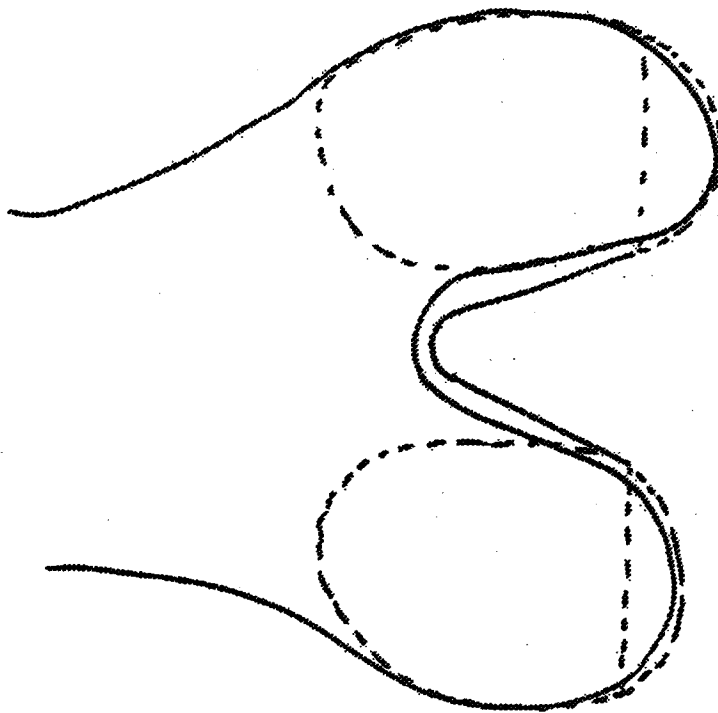


FIG. 52K

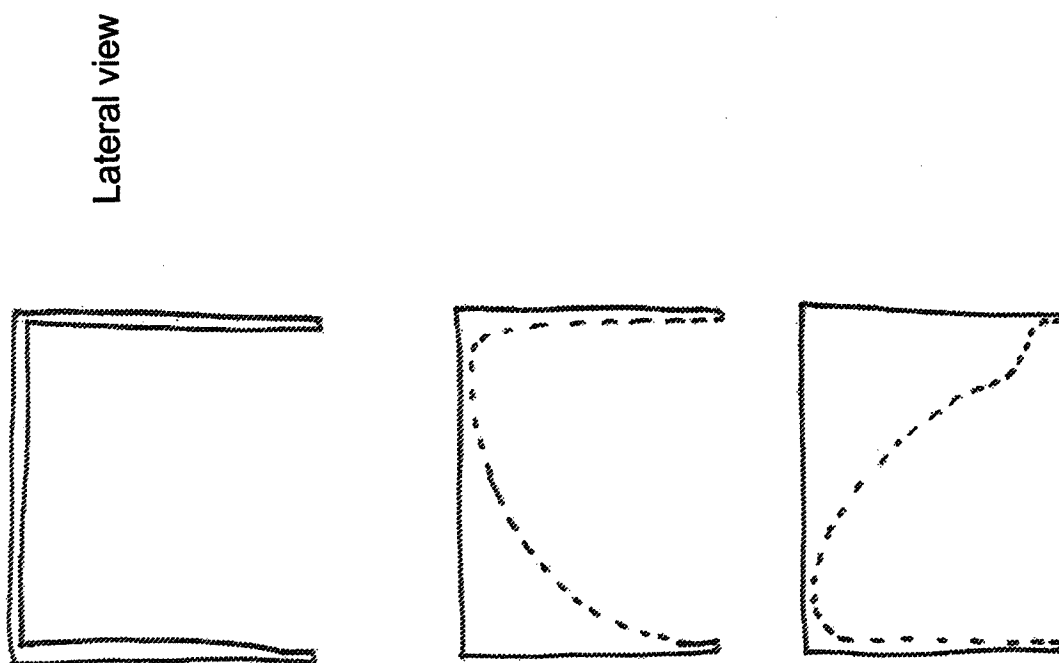


FIG. 52N

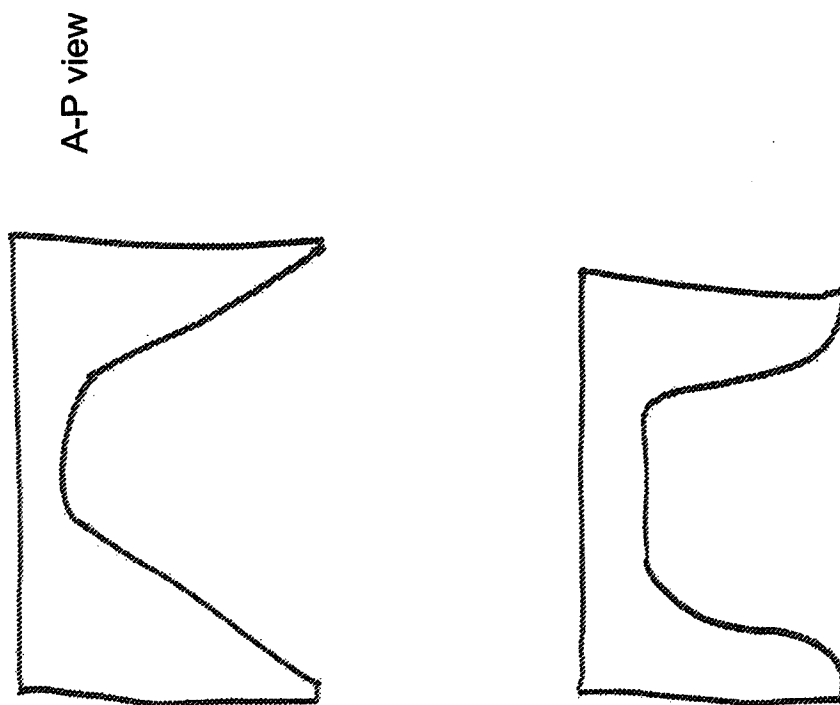


FIG. 52M

Lateral view

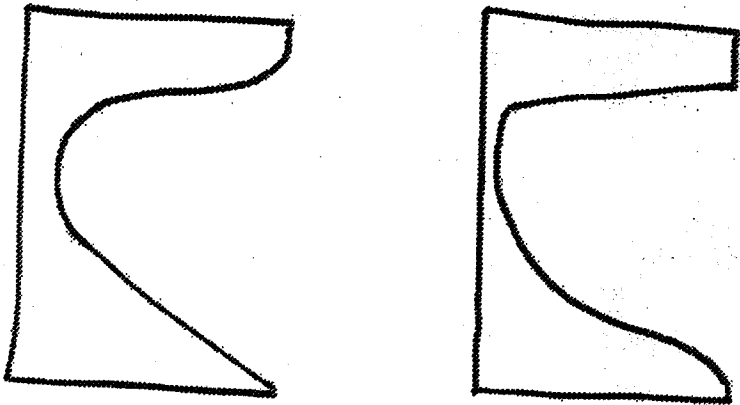


FIG. 52P

Lateral view

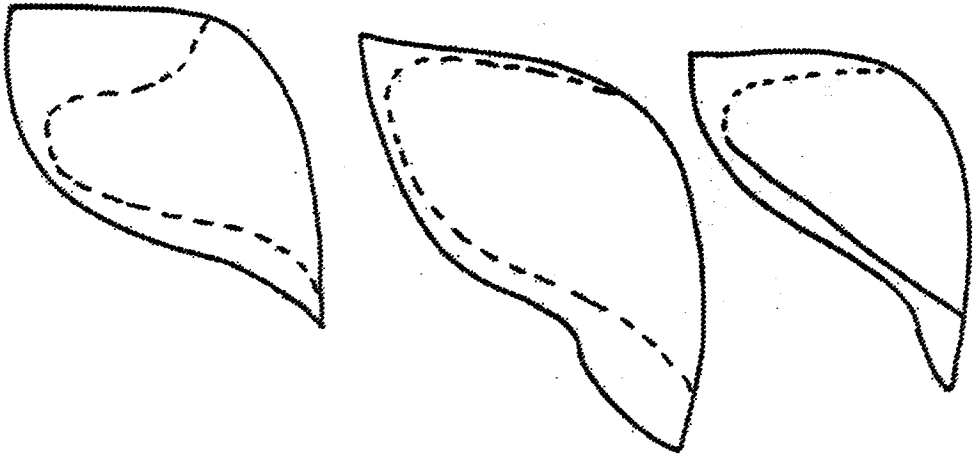


FIG. 52O

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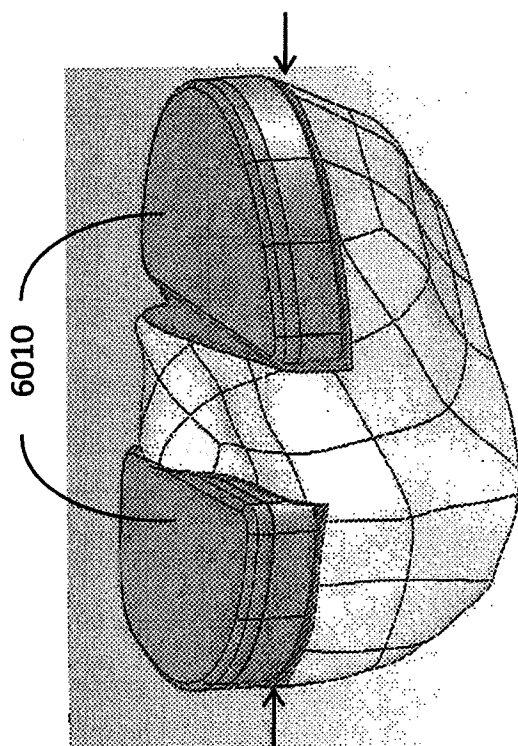


FIG. 60B

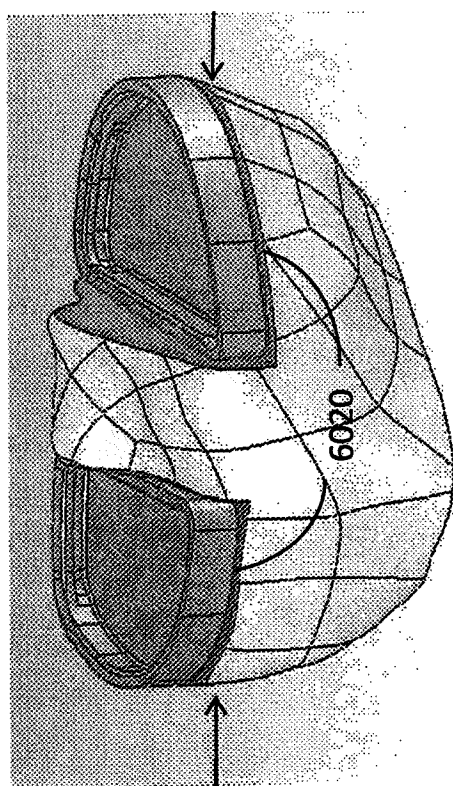


FIG. 60A

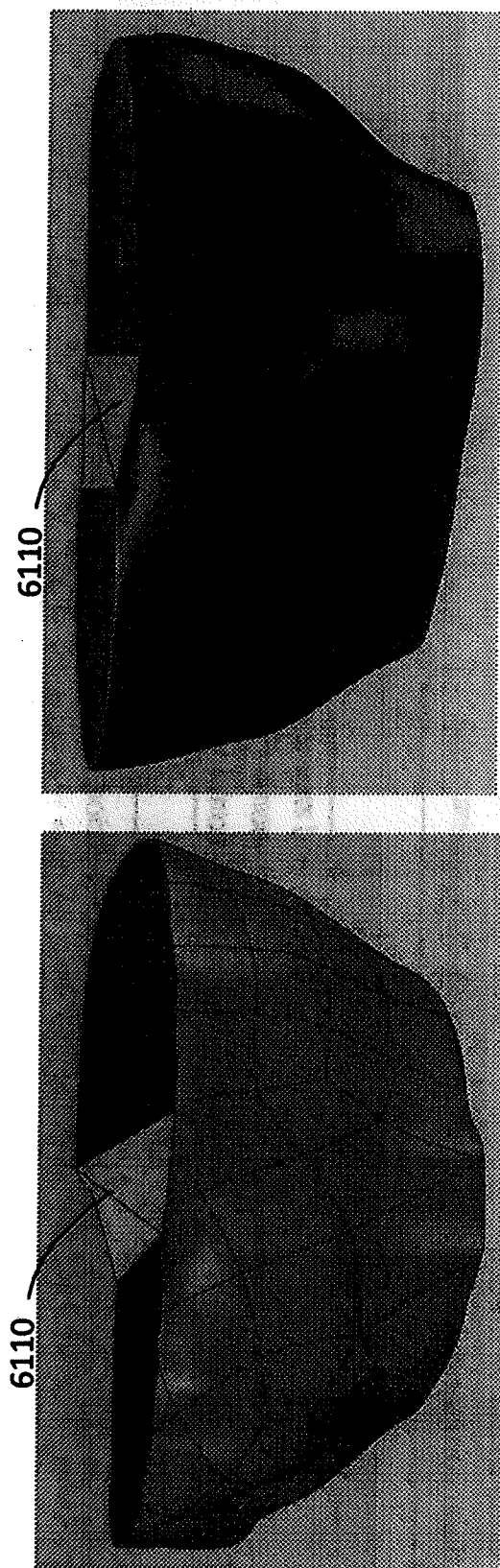


FIG. 61A

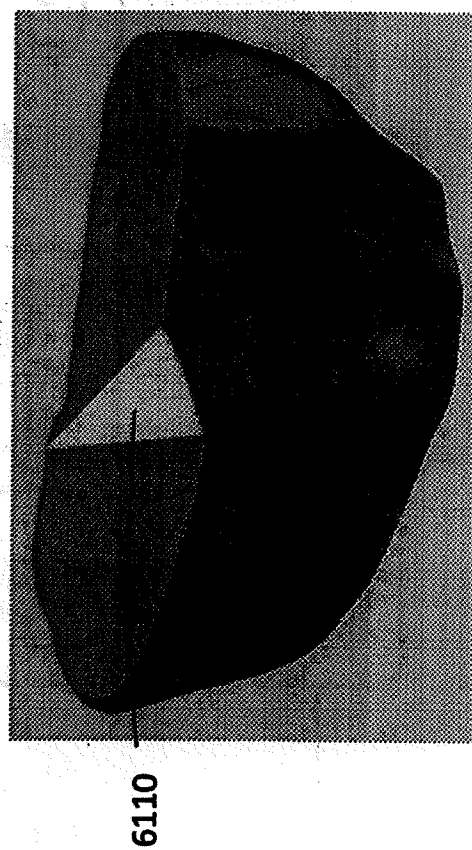


FIG. 61B

FIG. 61C

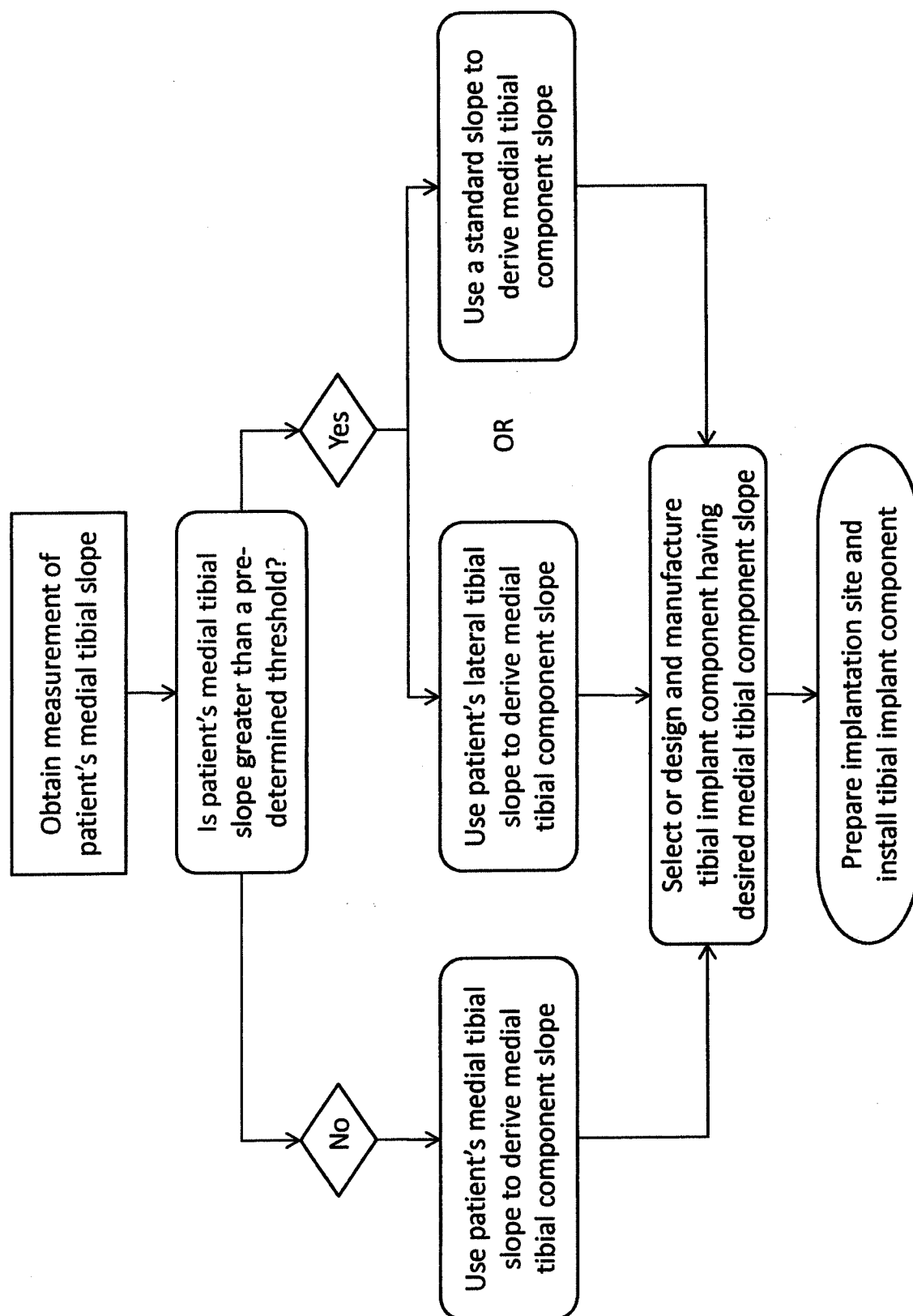


FIG. 62A

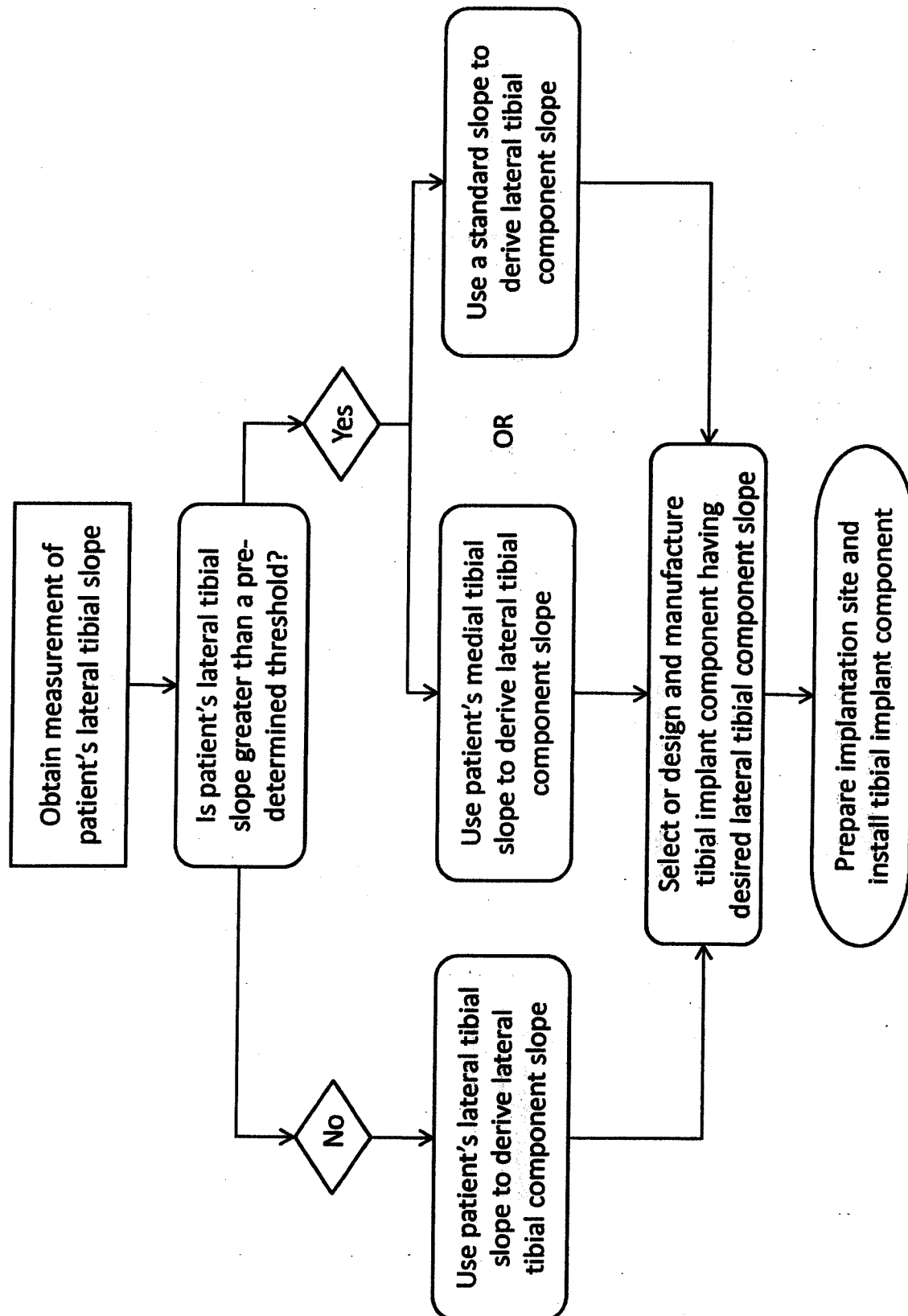


FIG. 62B

FIG. 63A

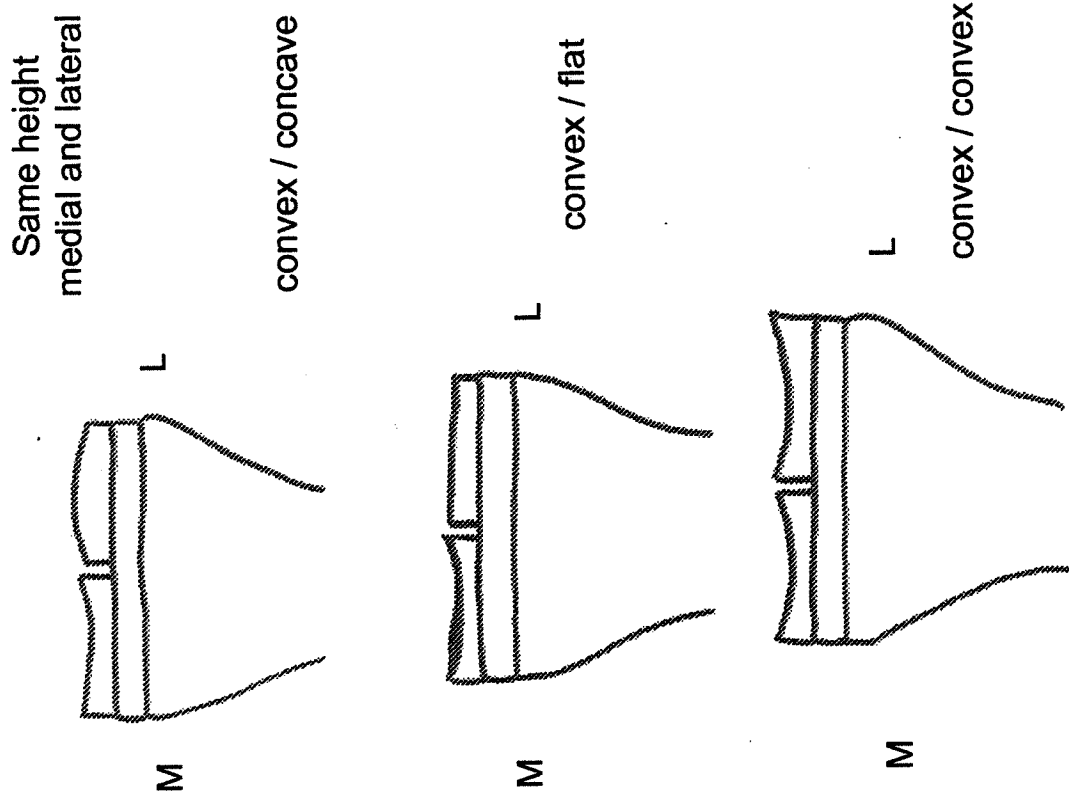


FIG. 63B

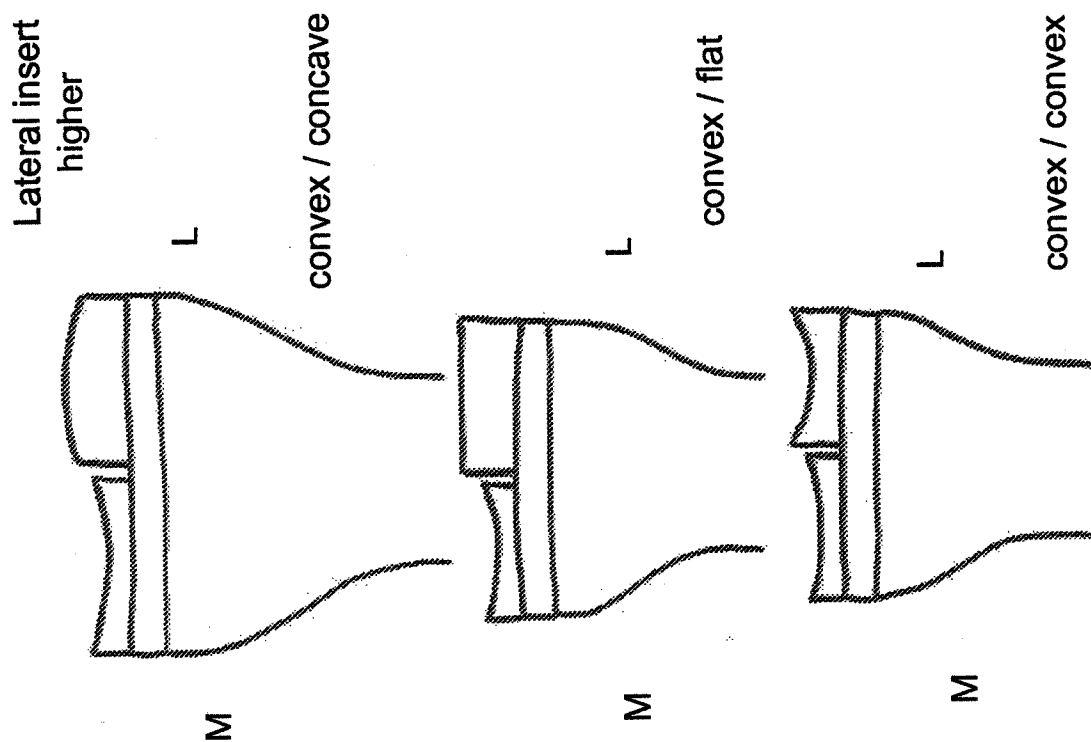
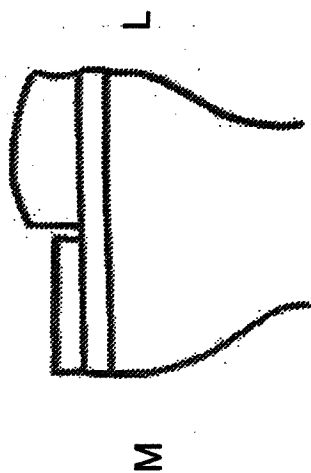
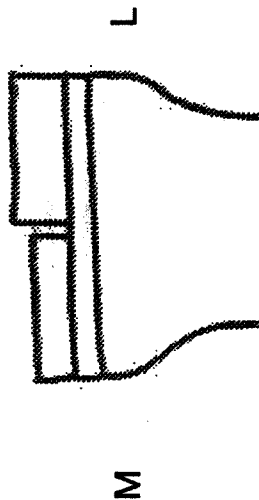


FIG. 63C

Lateral insert
higher



flat / convex



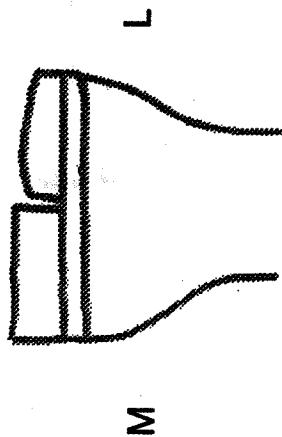
flat / flat



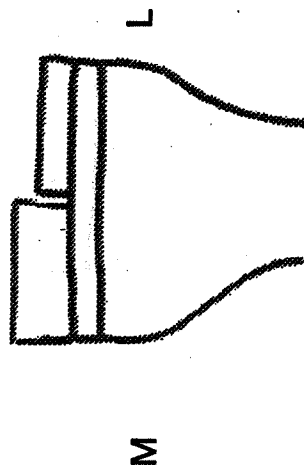
flat / concave

FIG. 63D

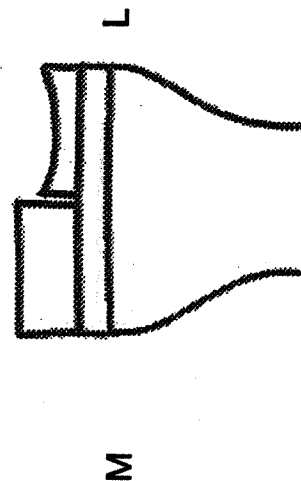
Medial insert
higher



flat / convex



flat / flat



flat / concave

FIG. 63F

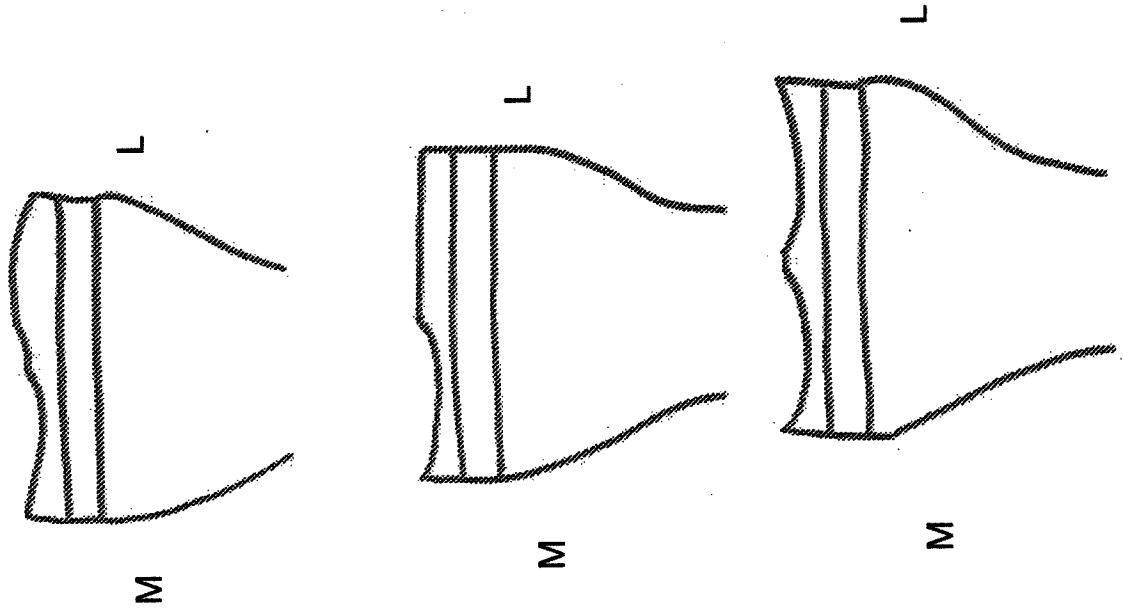


FIG. 63E

Medial insert
higher

concave / convex

concave / flat

concave /
concave

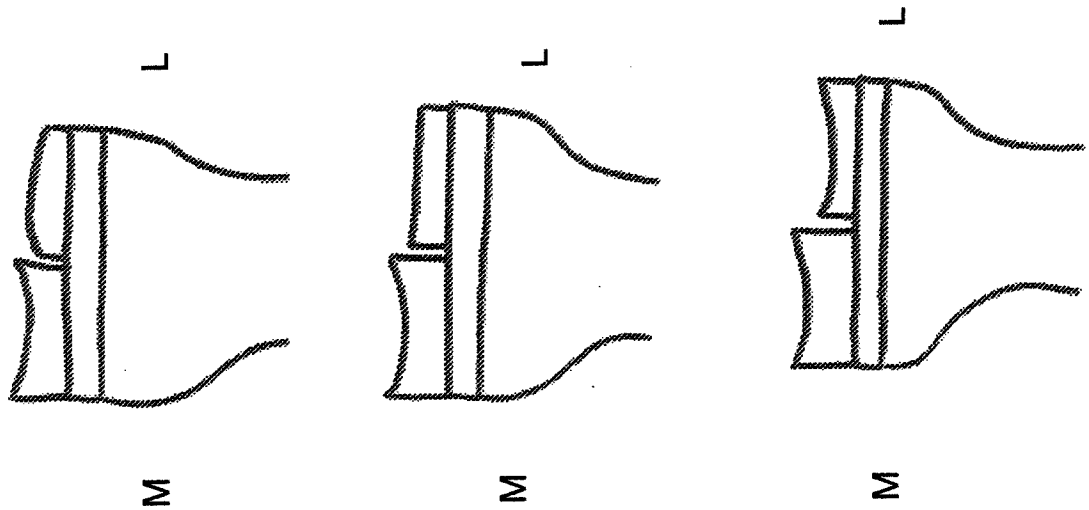


FIG. 63H

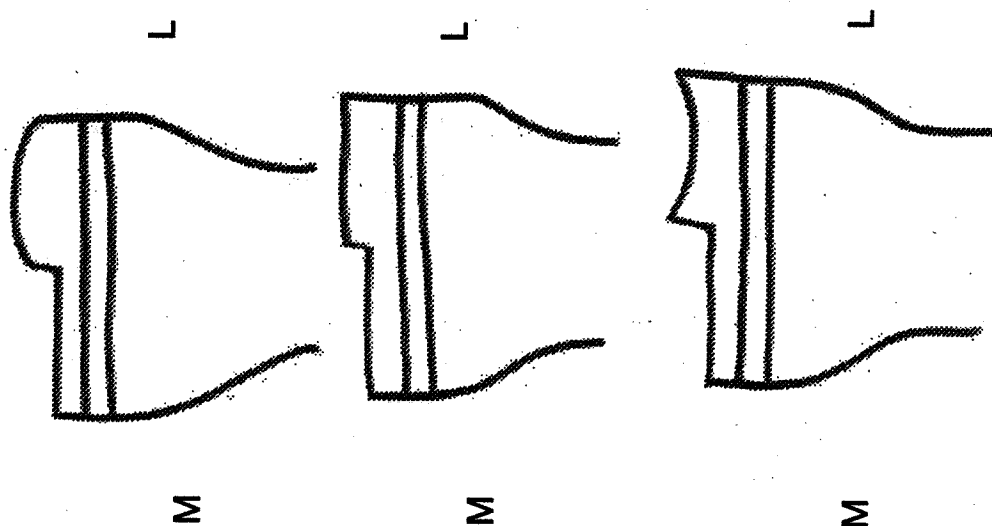


FIG. 63G

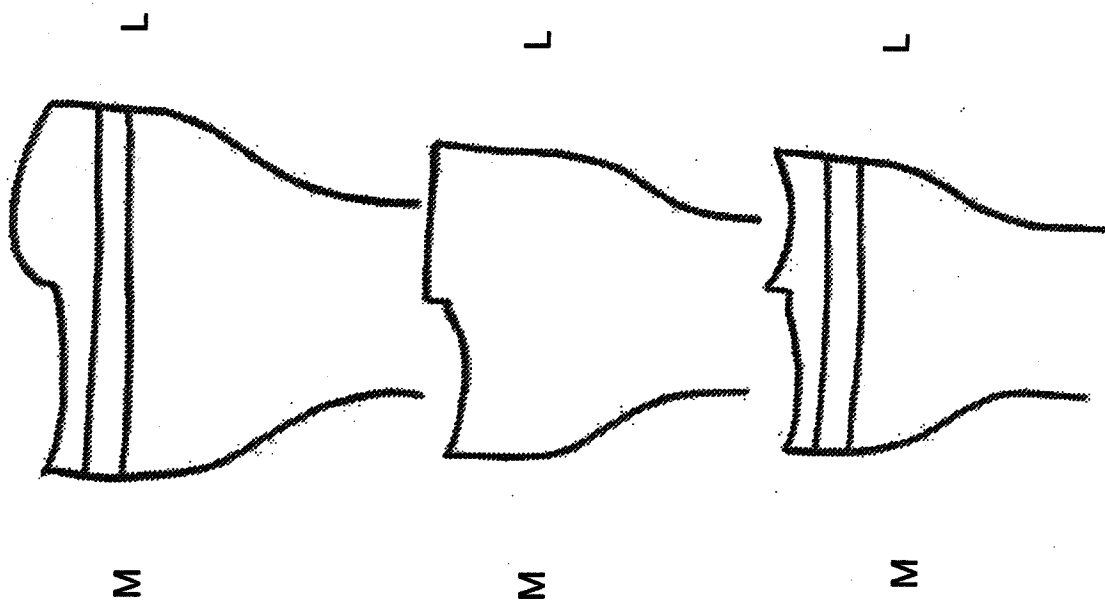


FIG. 63J

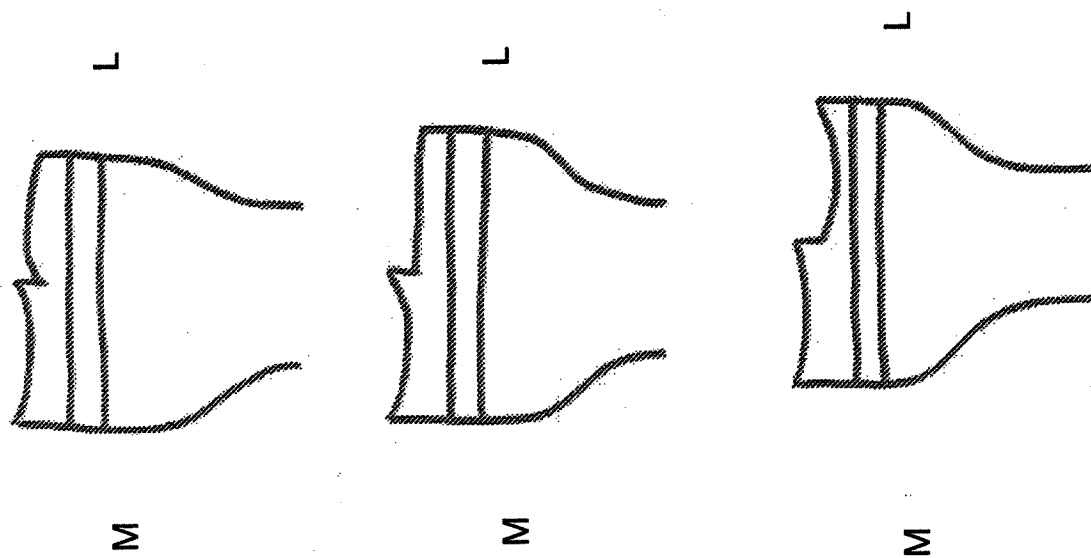


FIG. 63I

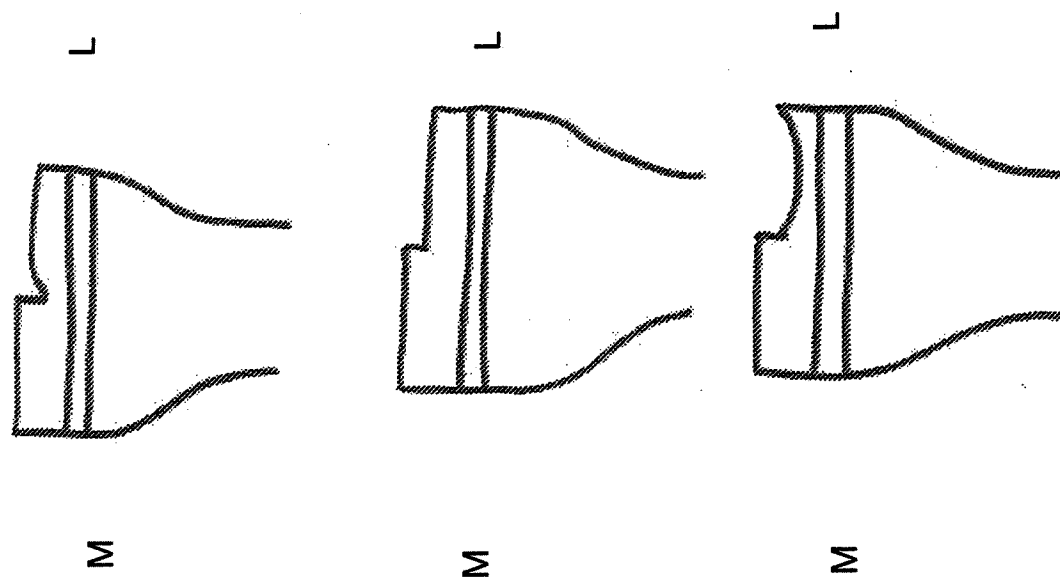


FIG. 64A

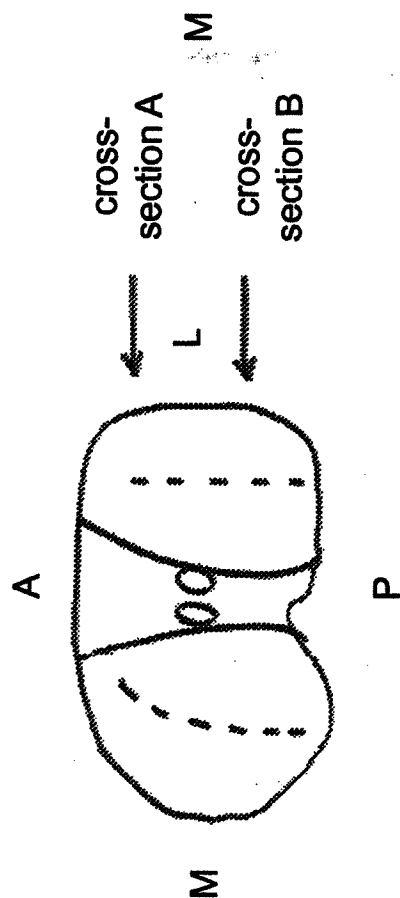
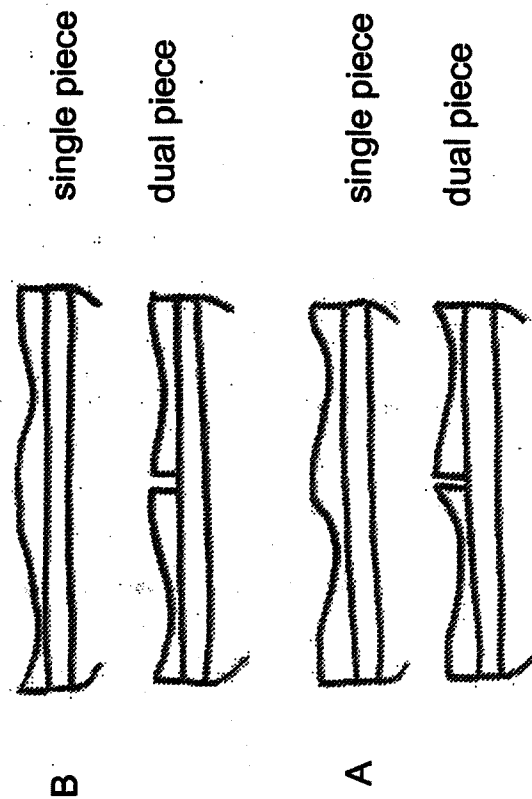
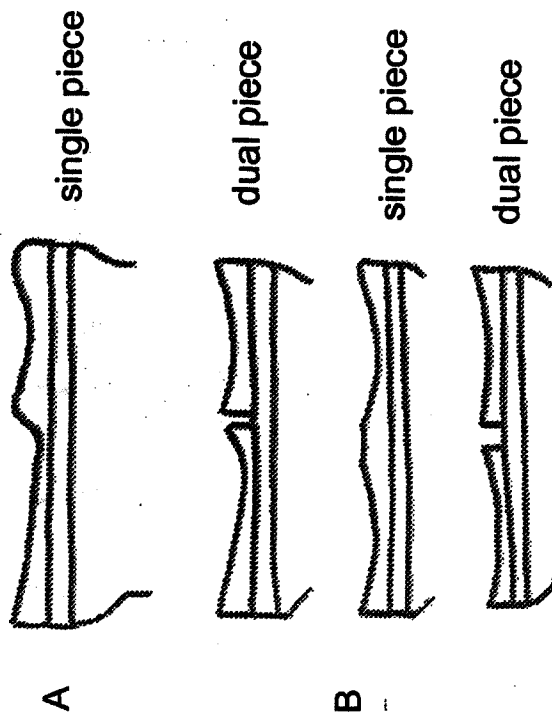
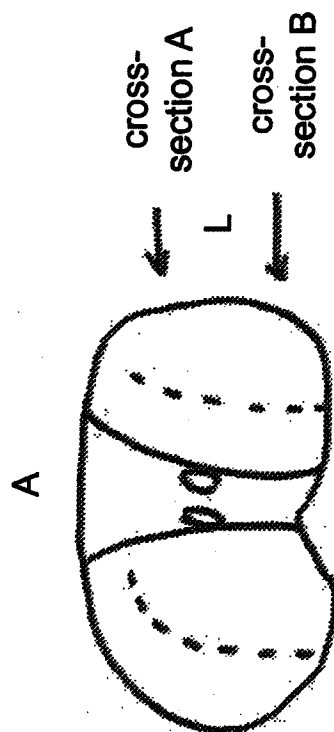
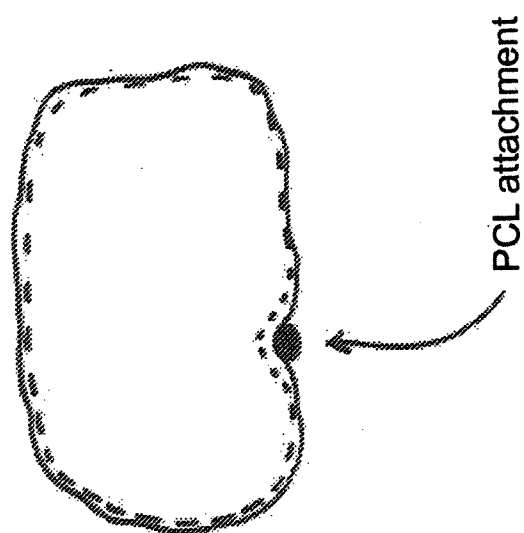


FIG. 64B





Stippled line = outline of tibial implant
avoiding interference with PCL

FIG. 64D

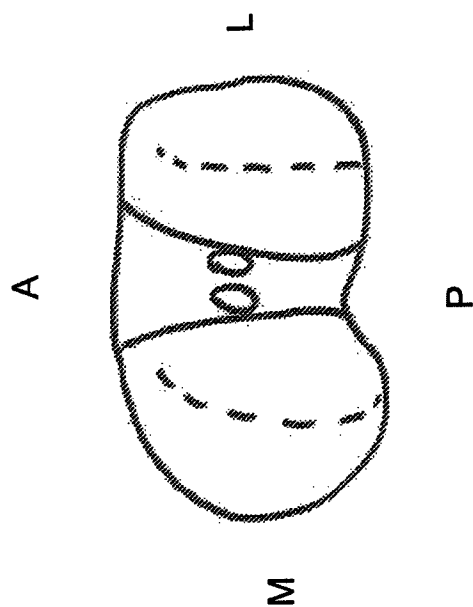


FIG. 64C

FIG. 64E

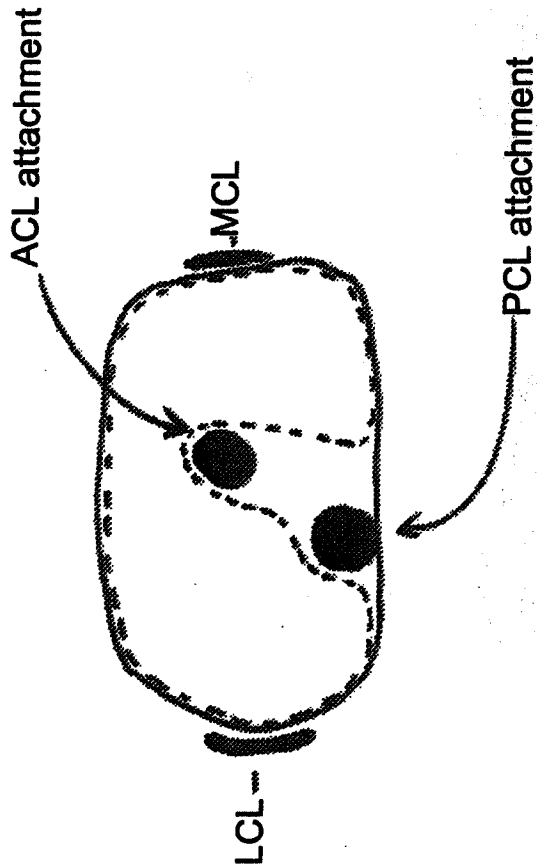
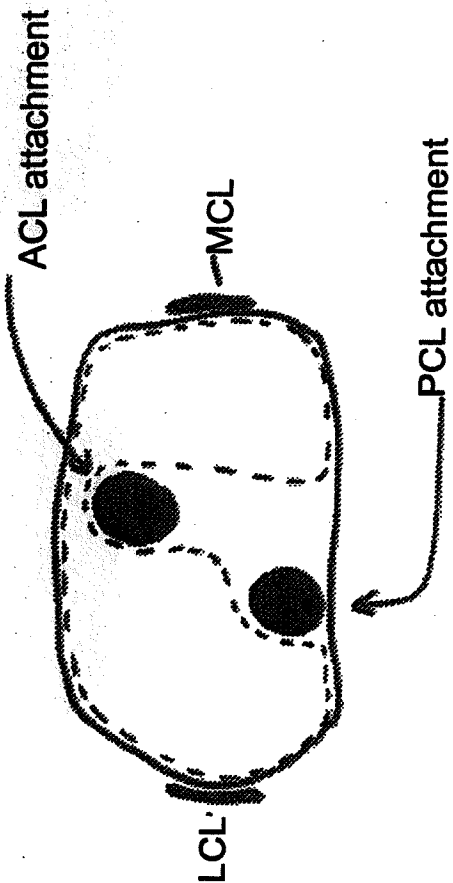
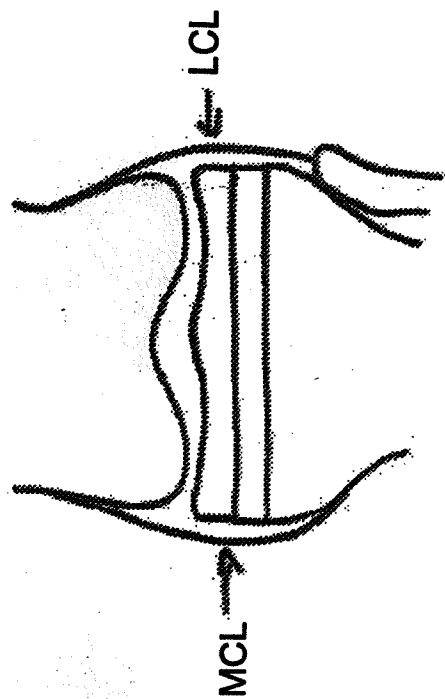
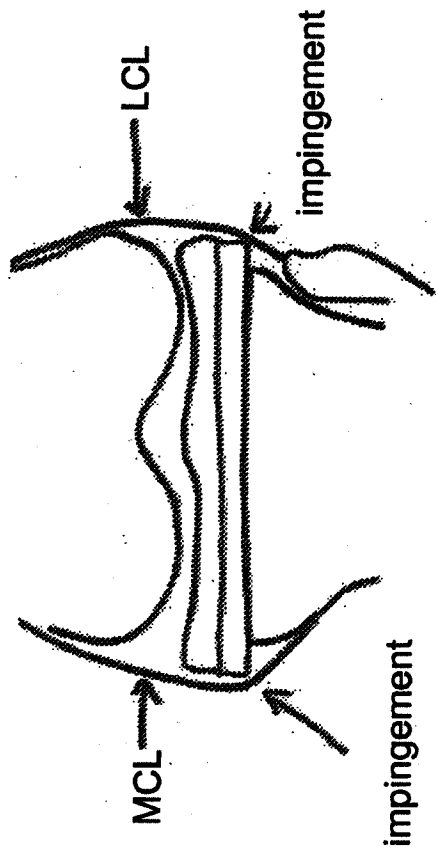
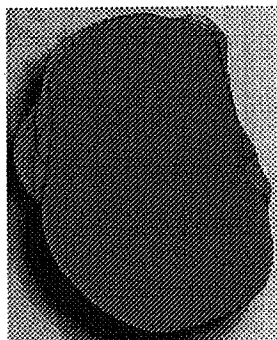


FIG. 64F



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4mm



3mm



2mm

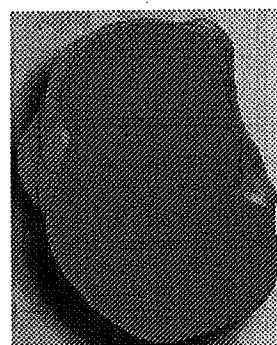


FIG. 65

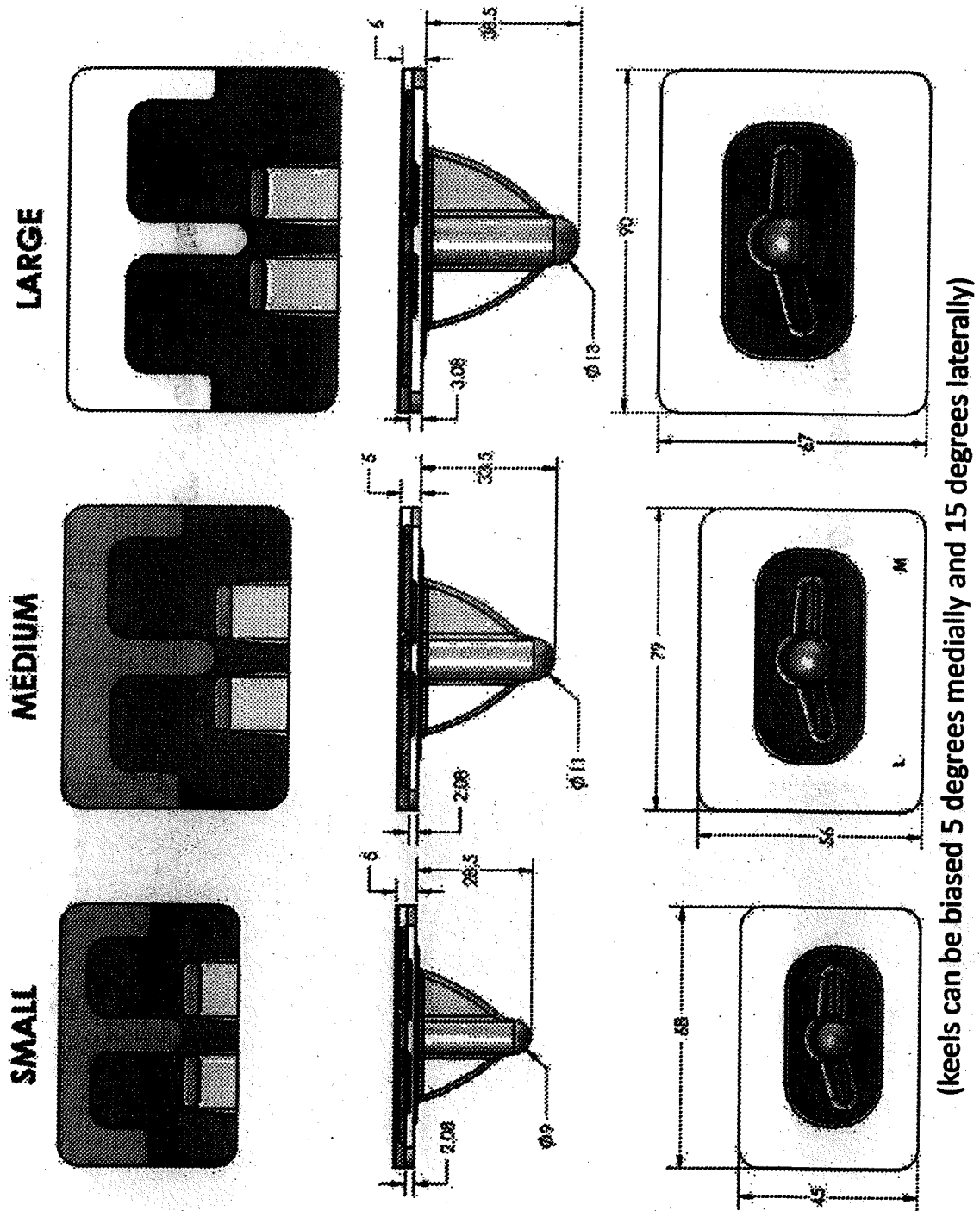


FIG. 66

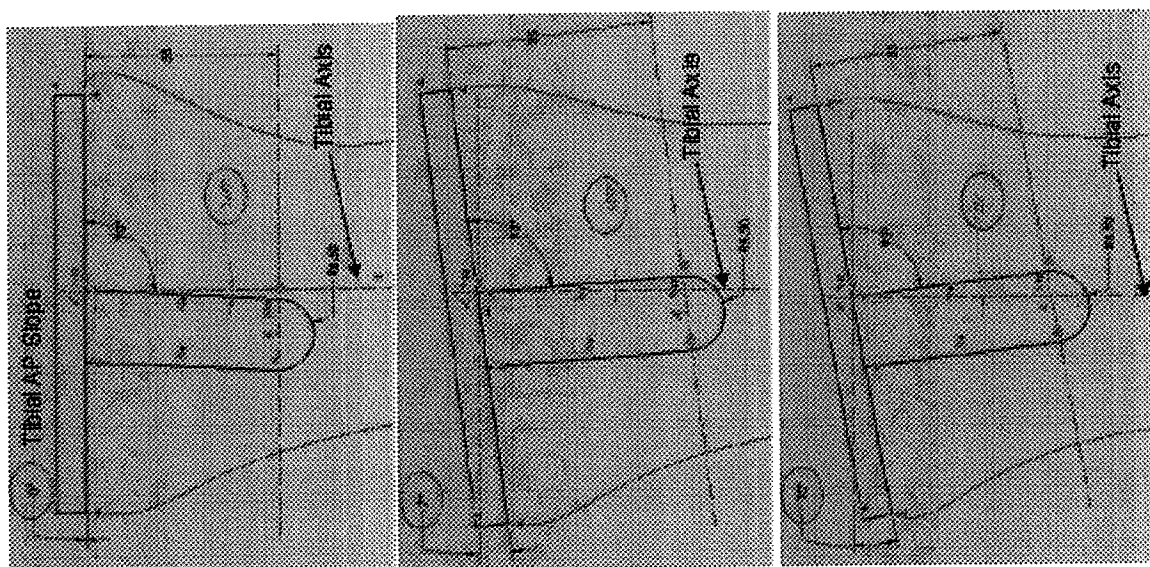
The stem is designed with a standard 3° posterior tilt.

AP Slope 0° - Tray tilts posteriorly 3°

AP Slope 7° - Tray tilts anteriorly 4°

AP Slope 10° - Tray tilts anteriorly 7°

FIG. 67



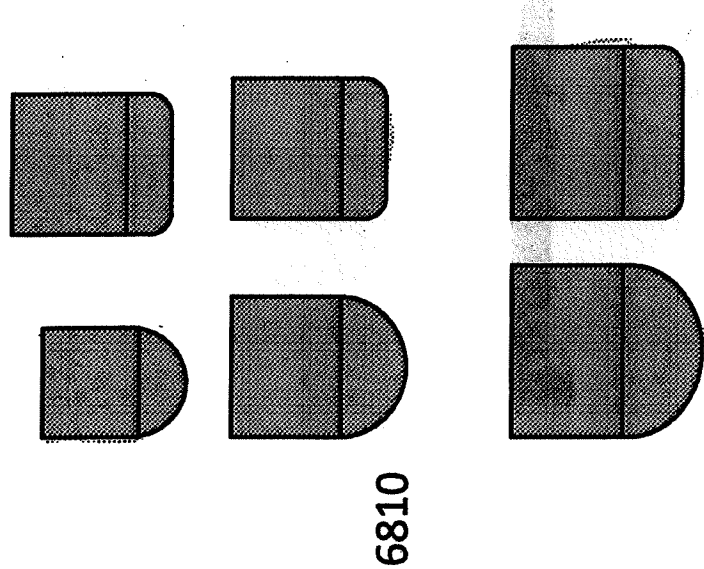


FIG. 68A

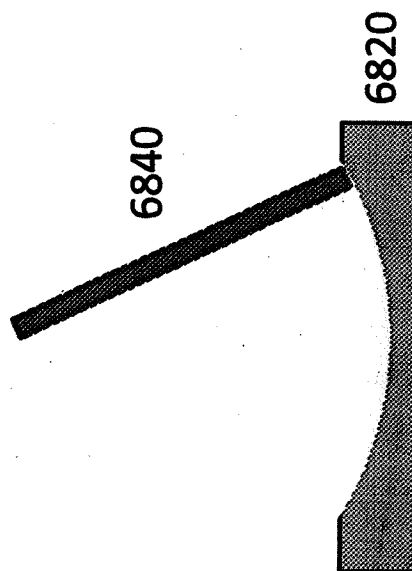
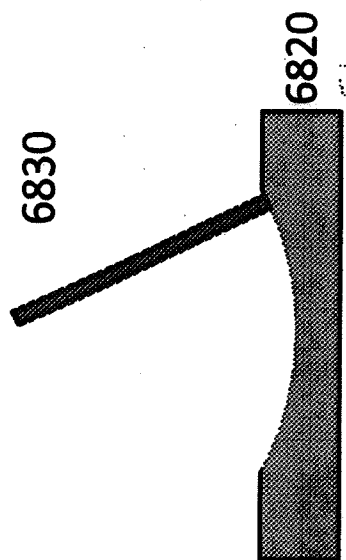
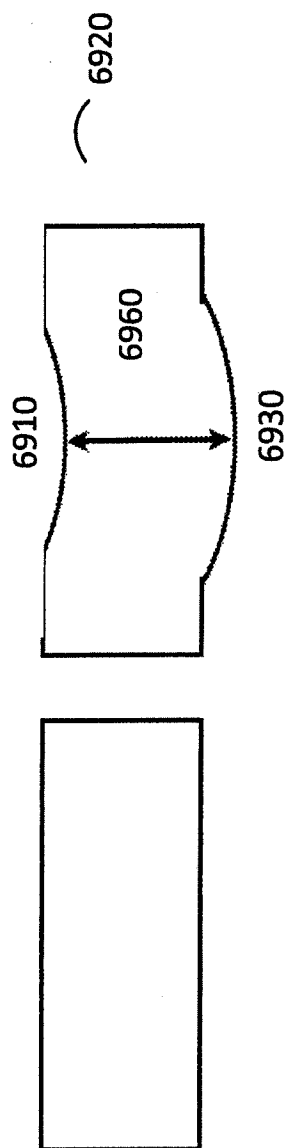


FIG. 68B



6950

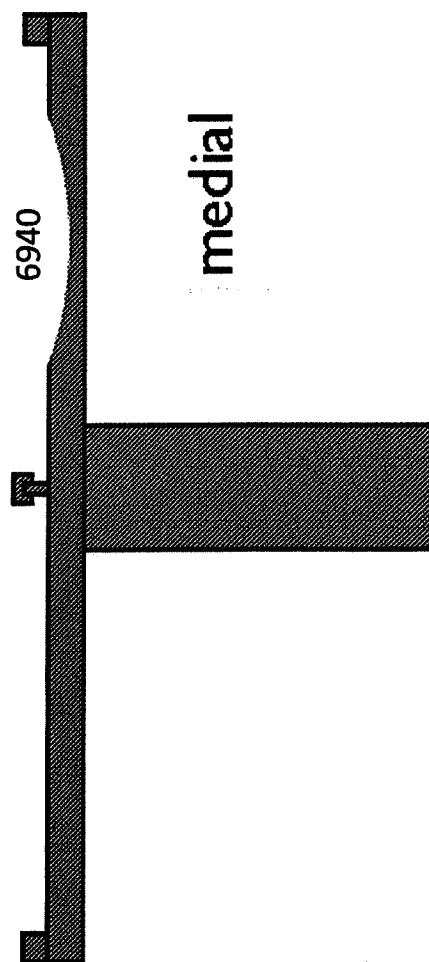


FIG. 69A

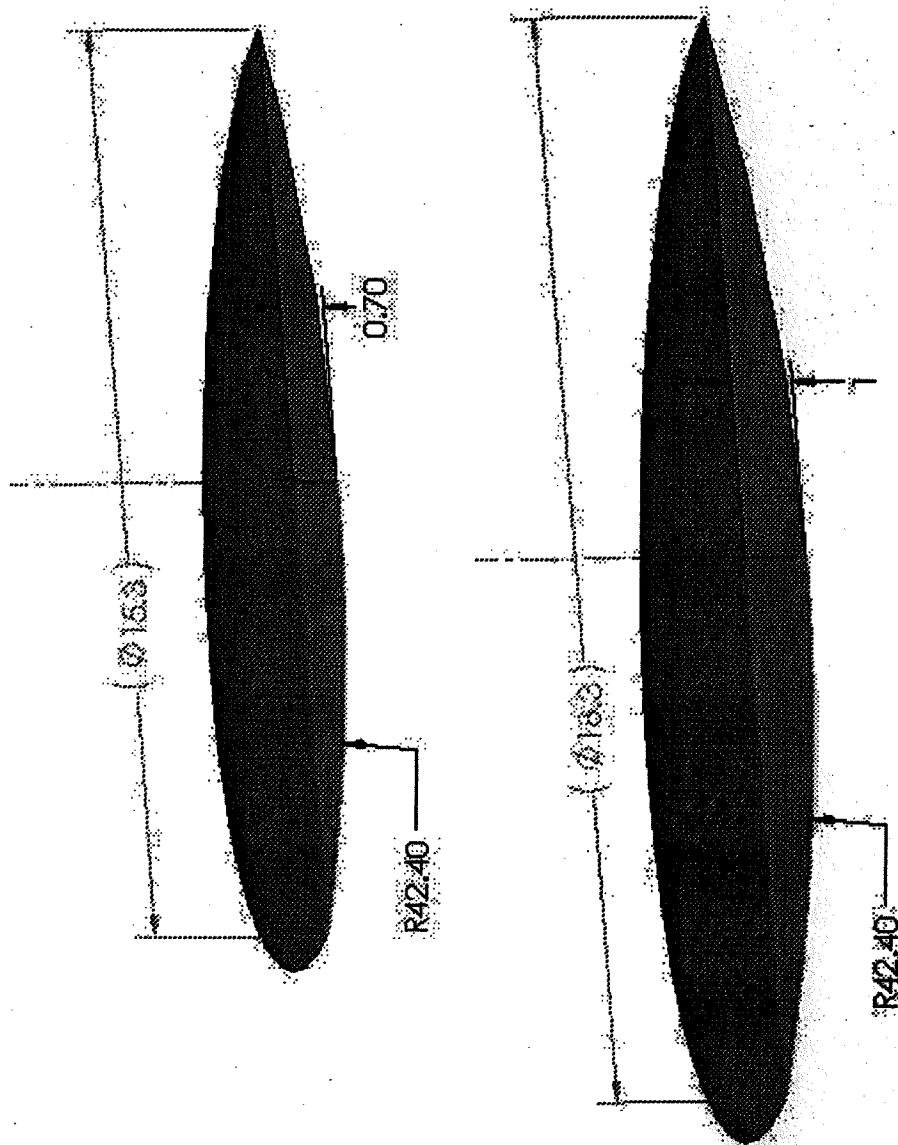
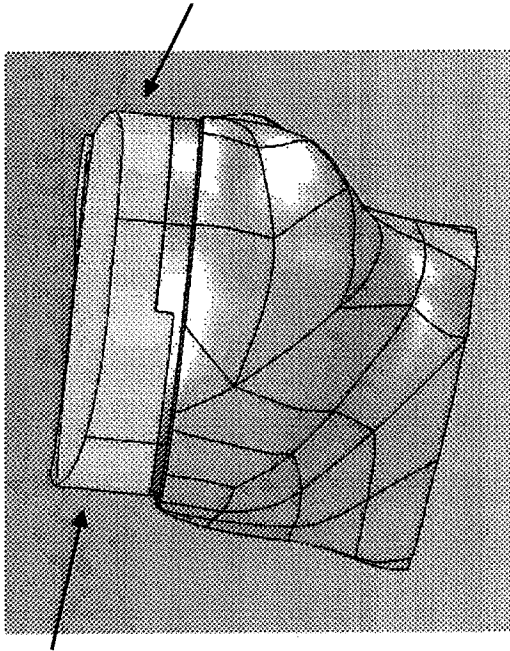
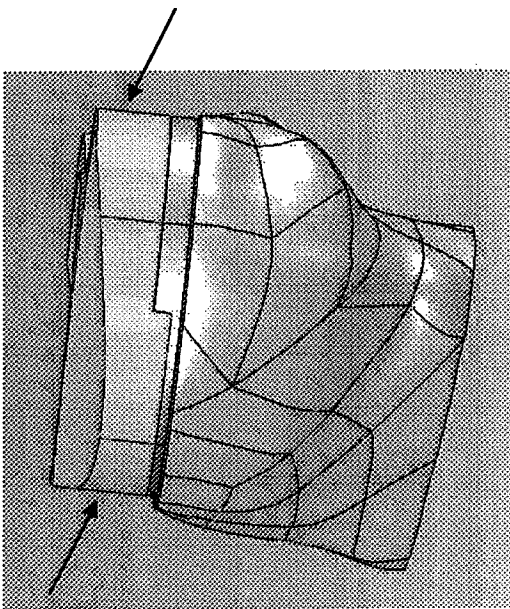


FIG. 69B



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

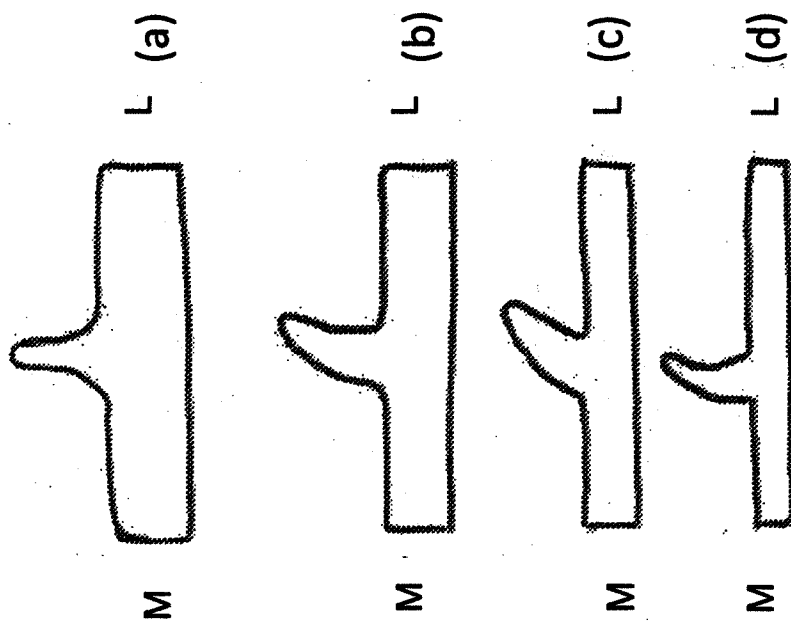


FIG. 71B

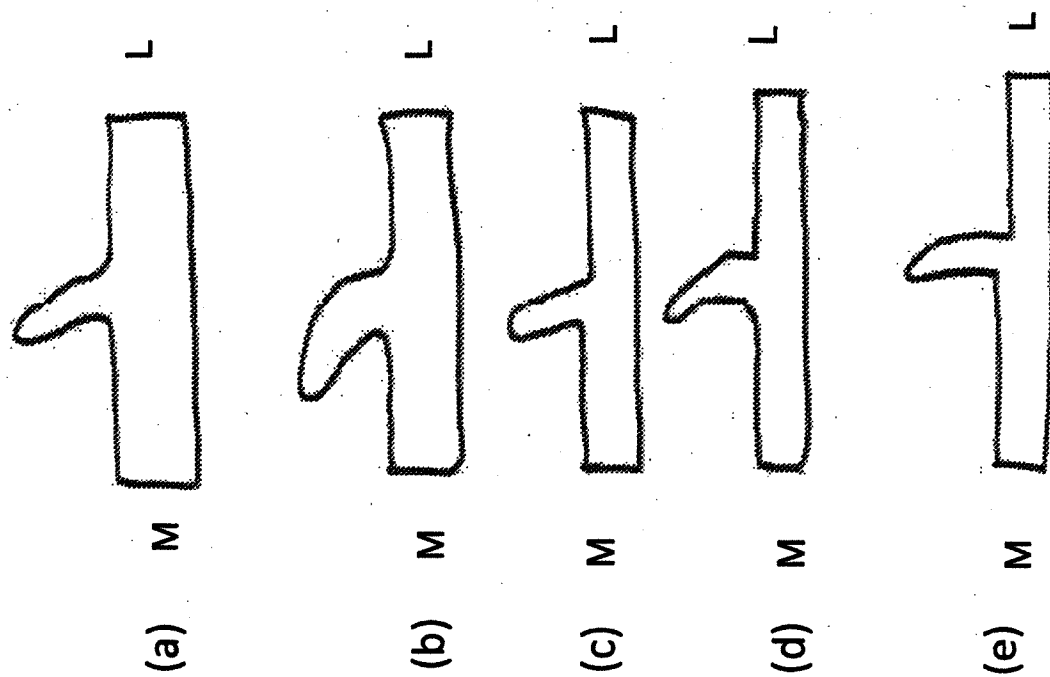


FIG. 72A

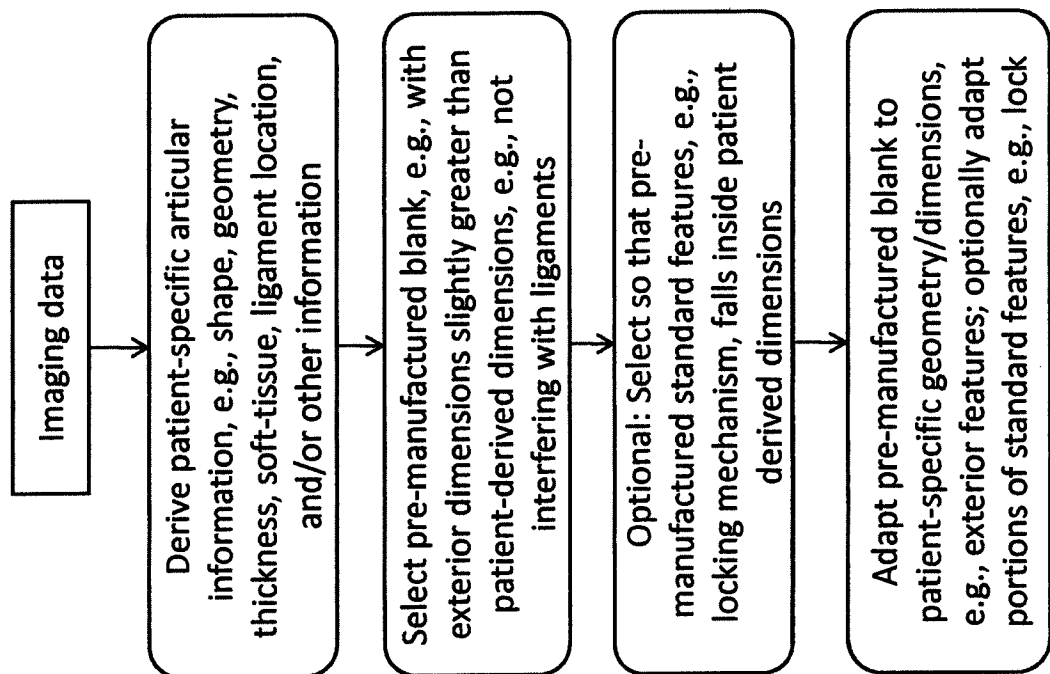
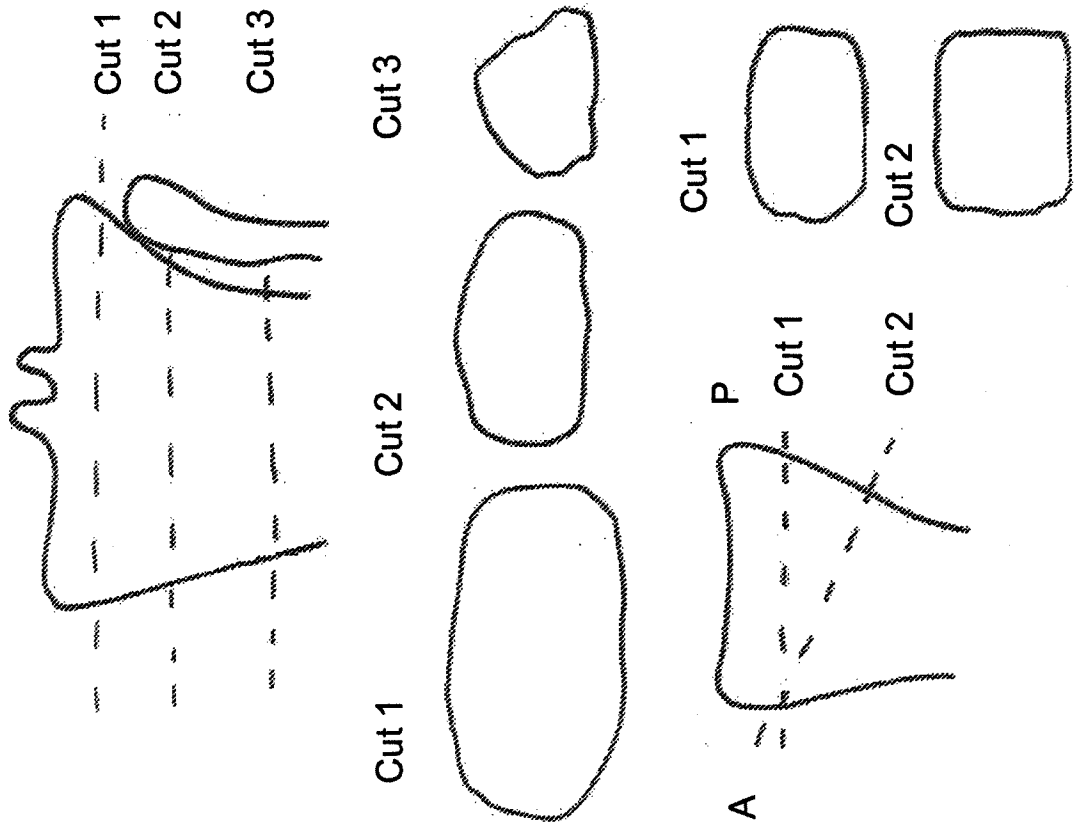


FIG. 72B



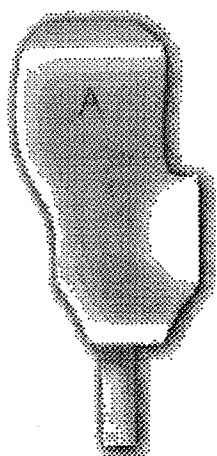


FIG. 73A

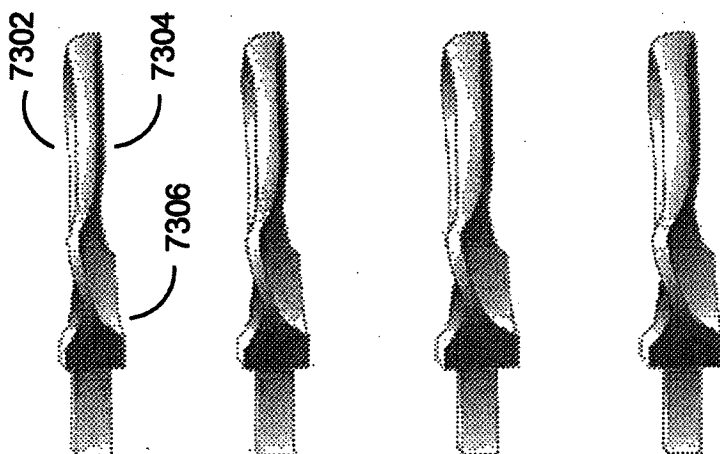


FIG. 73B

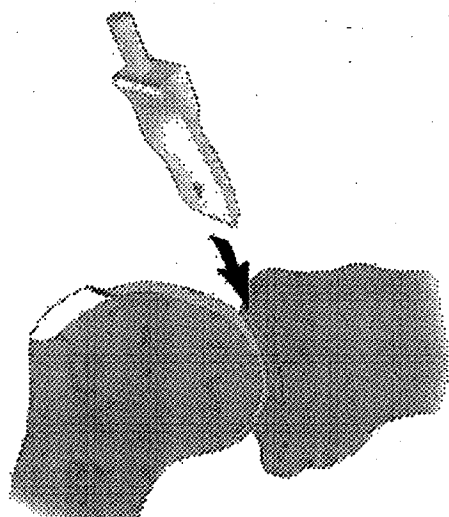


FIG. 73C

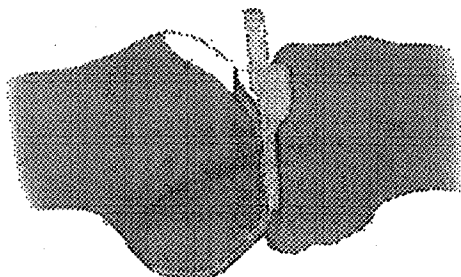


FIG. 73D

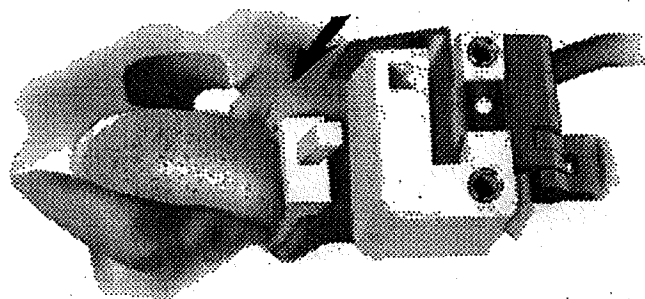


FIG. 73E

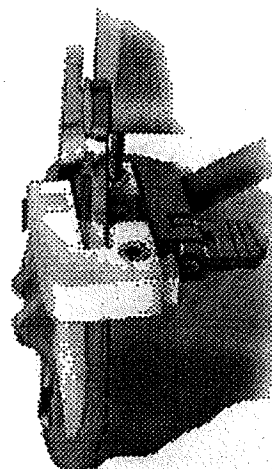


FIG. 73F

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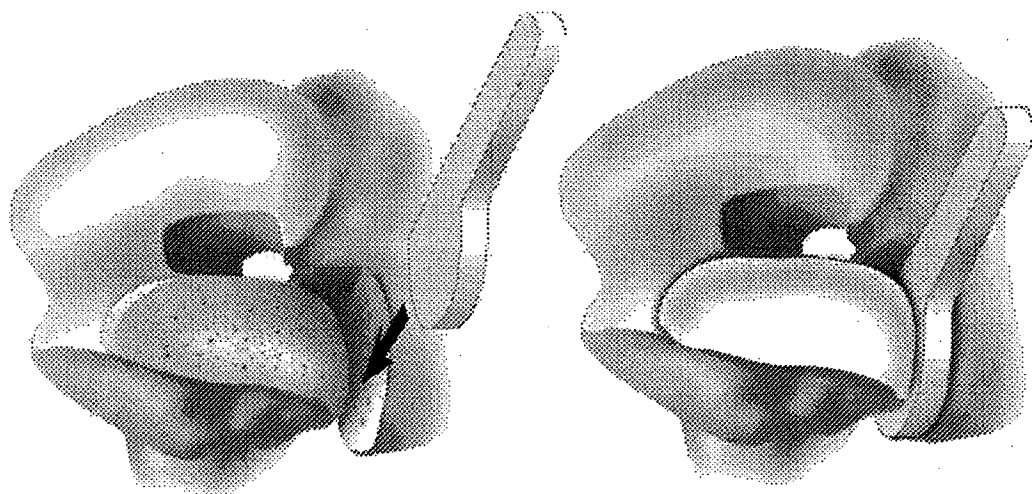


FIG. 74C

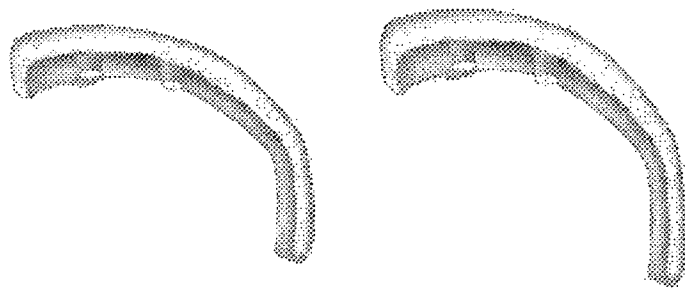


FIG. 74B

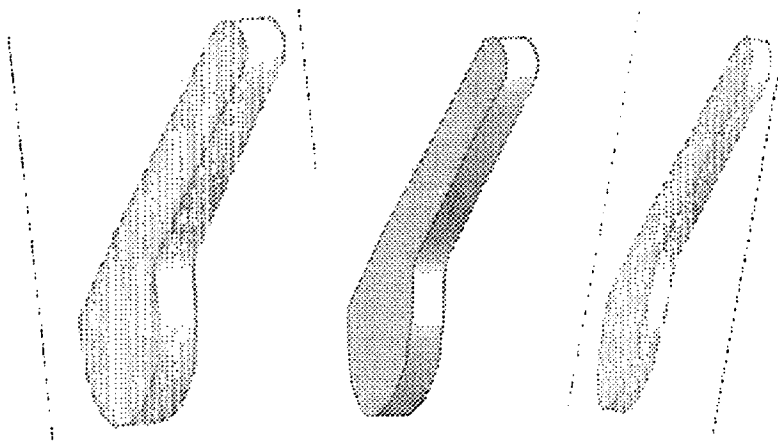


FIG. 74A

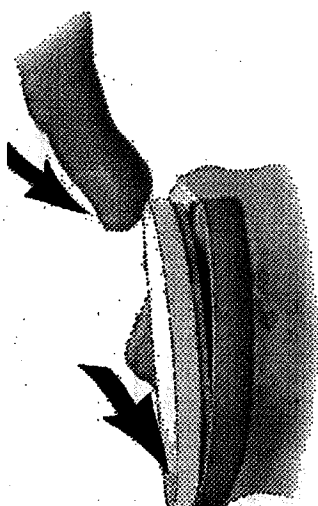


FIG. 75C

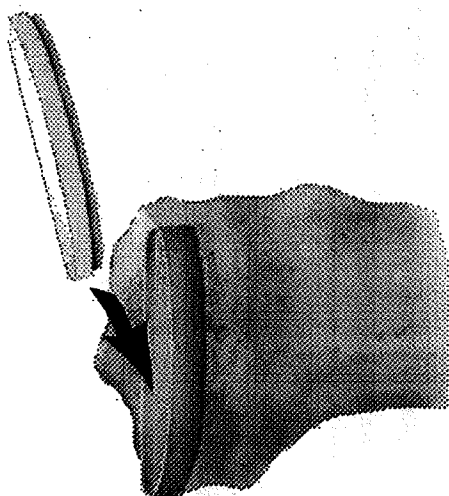


FIG. 75B

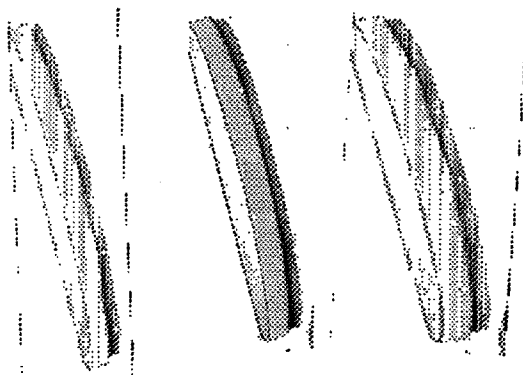


FIG. 75A

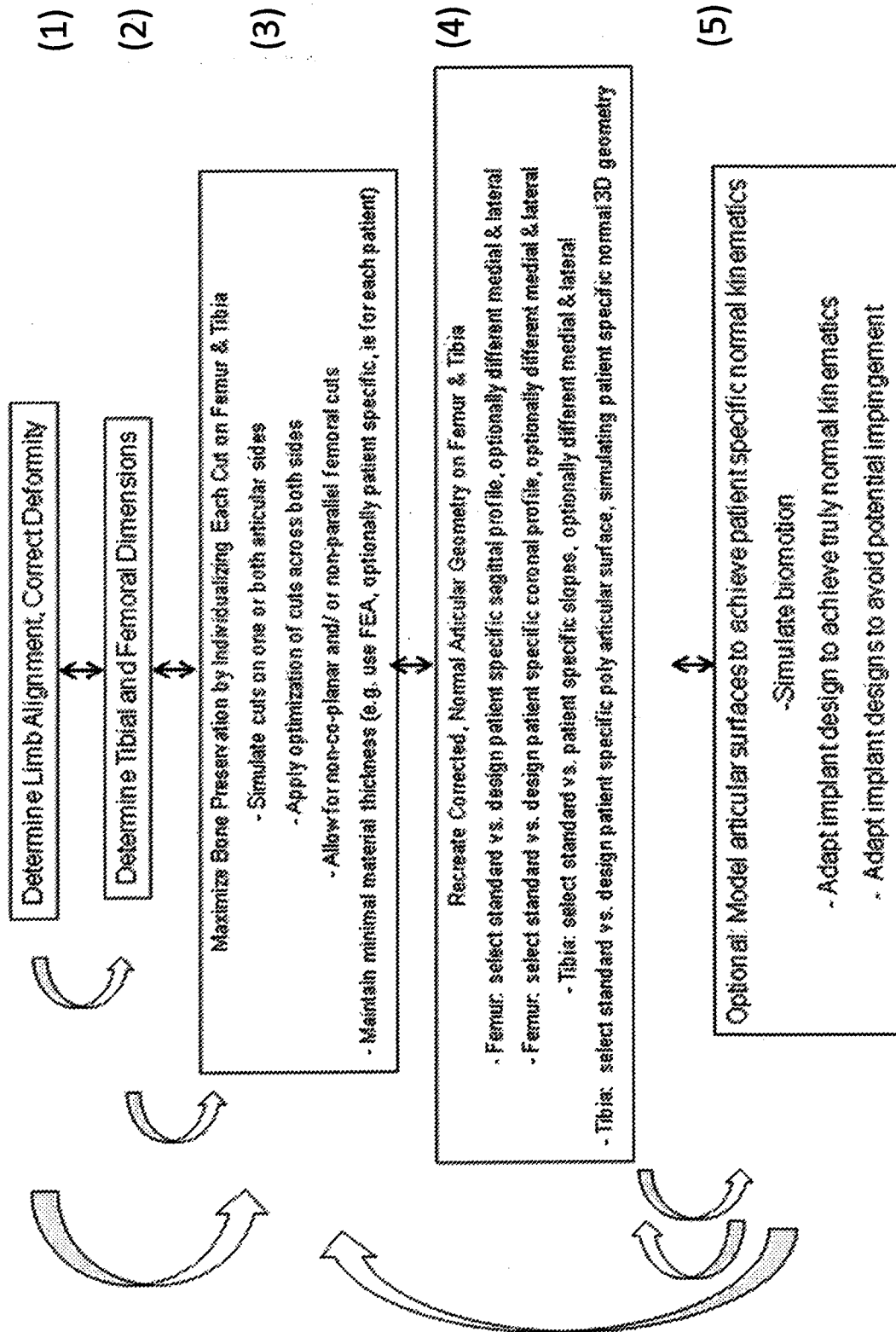


FIG. 87

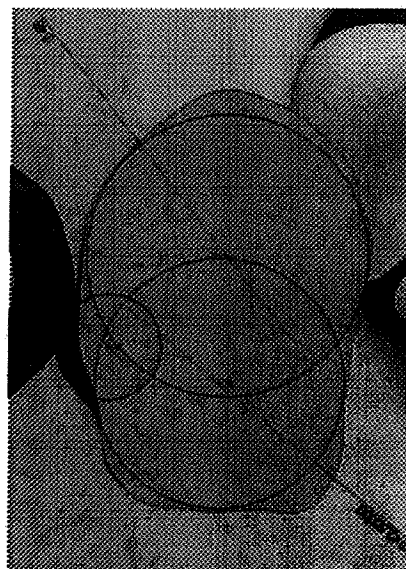


FIG. 143C

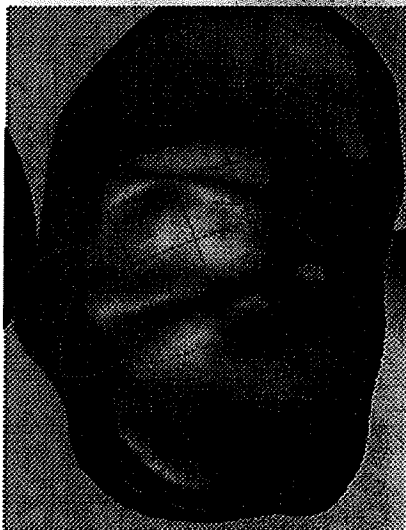


FIG. 143B

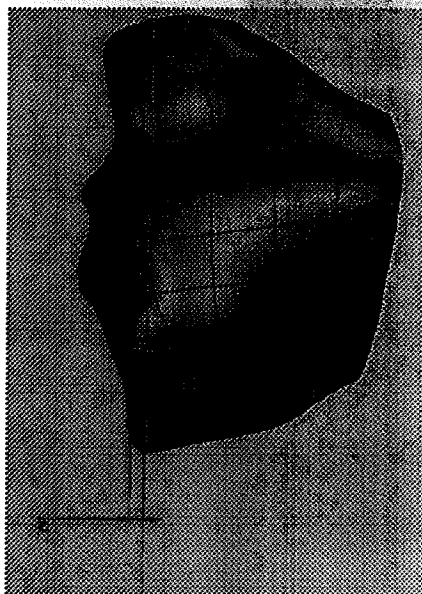


FIG. 143A

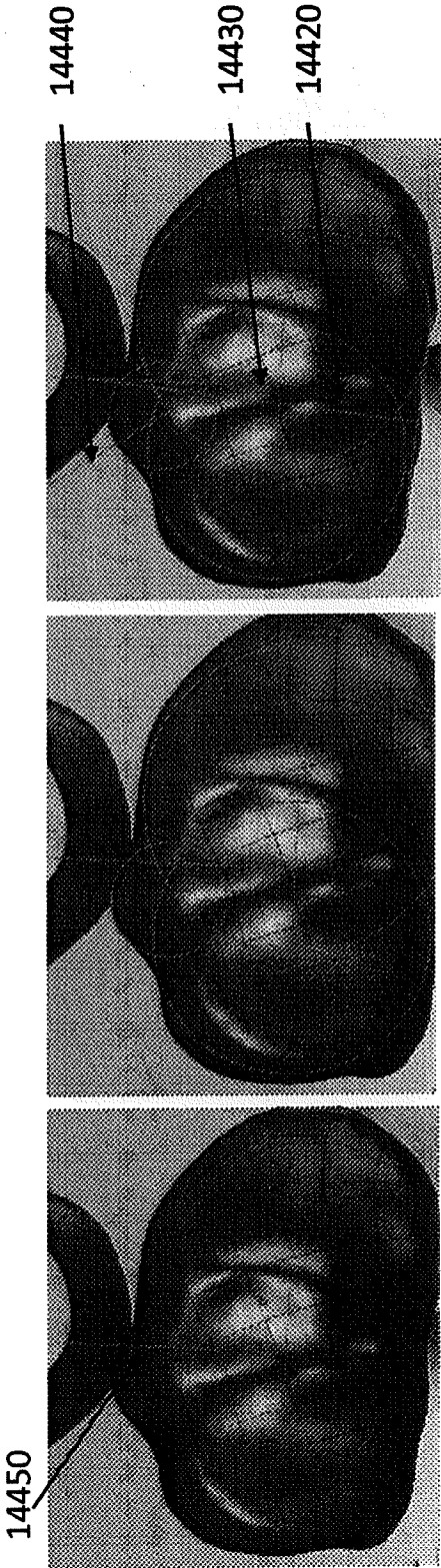


FIG. 144C

FIG. 144B

FIG. 144A

14500



FIG. 145C

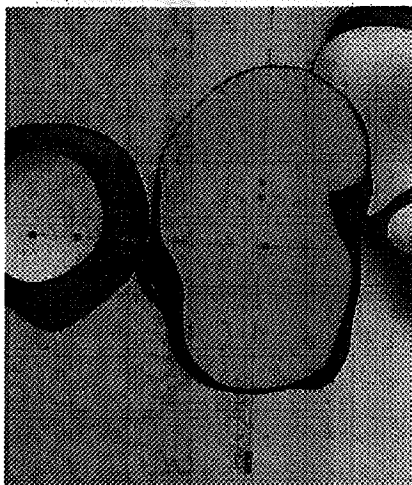


FIG. 145B

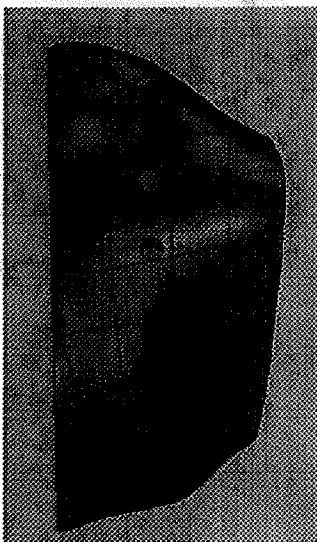


FIG. 145A

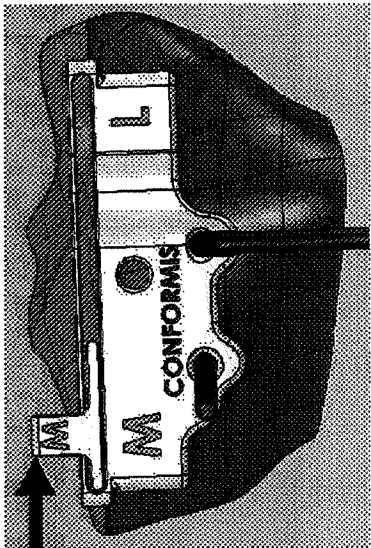


FIG. 146A

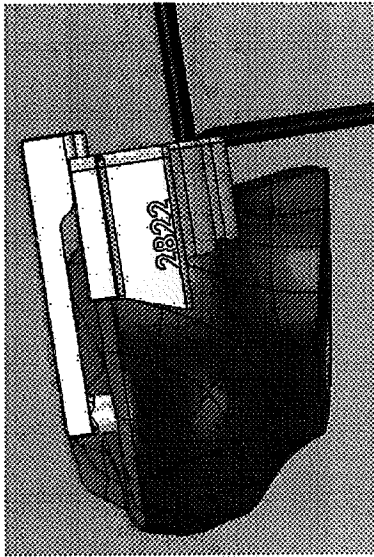


FIG. 147A

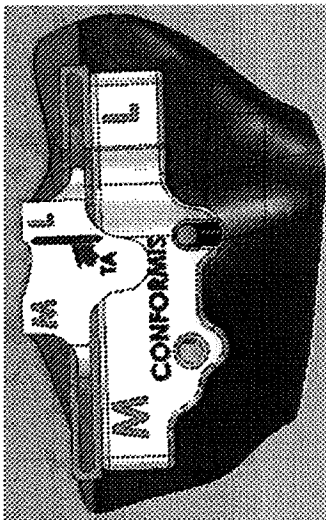


FIG. 146B

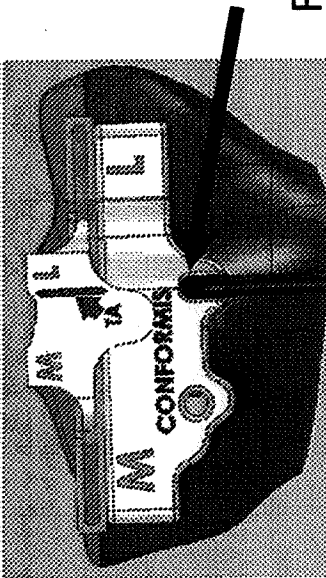


FIG. 147B

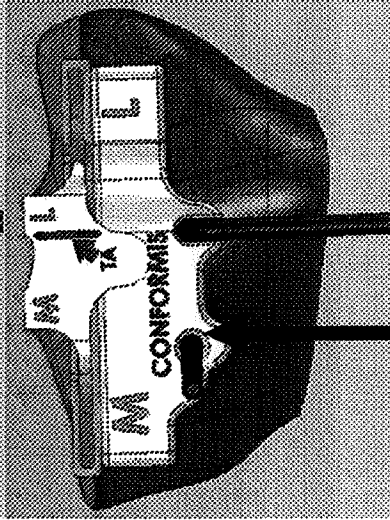


FIG. 148



FIG. 149

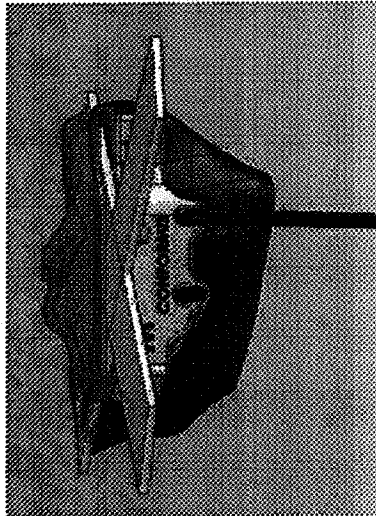


FIG. 150

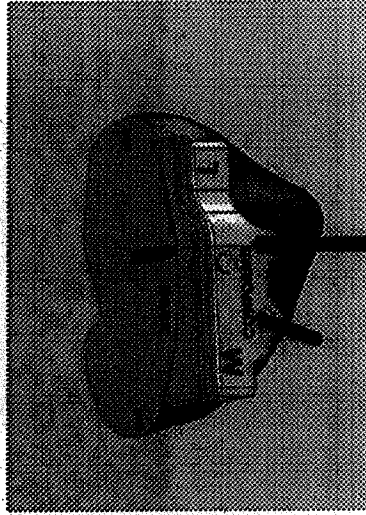


FIG. 151

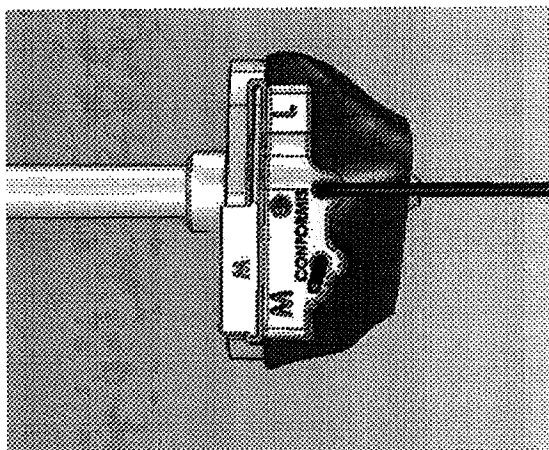


FIG. 153

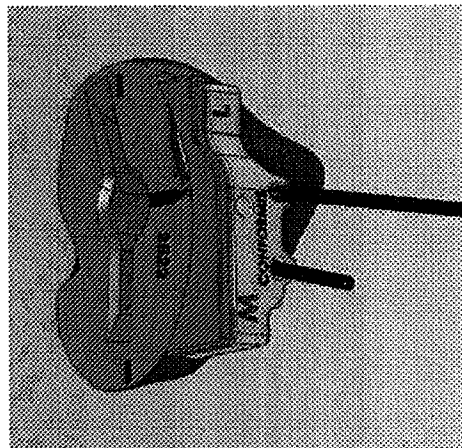


FIG. 155

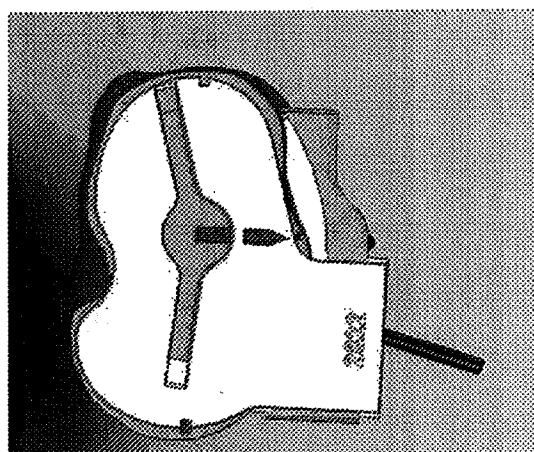


FIG. 152

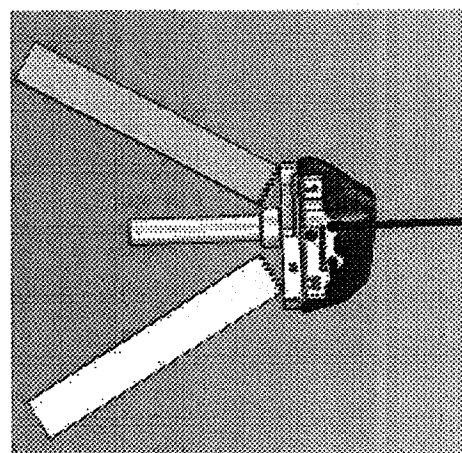


FIG. 154

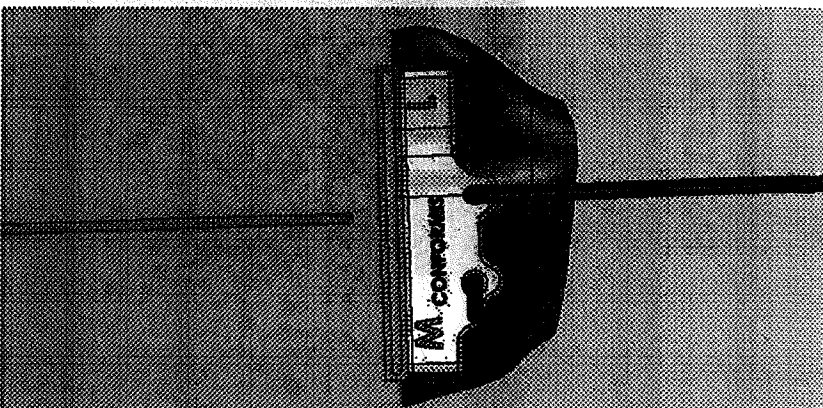


FIG. 156A

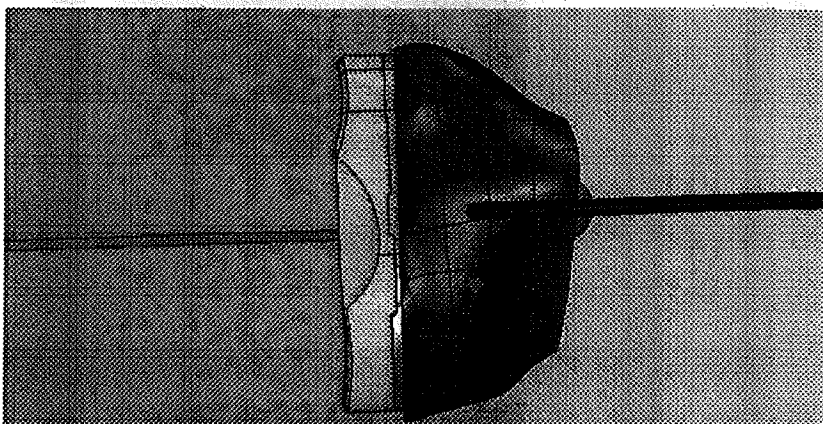


FIG. 156B

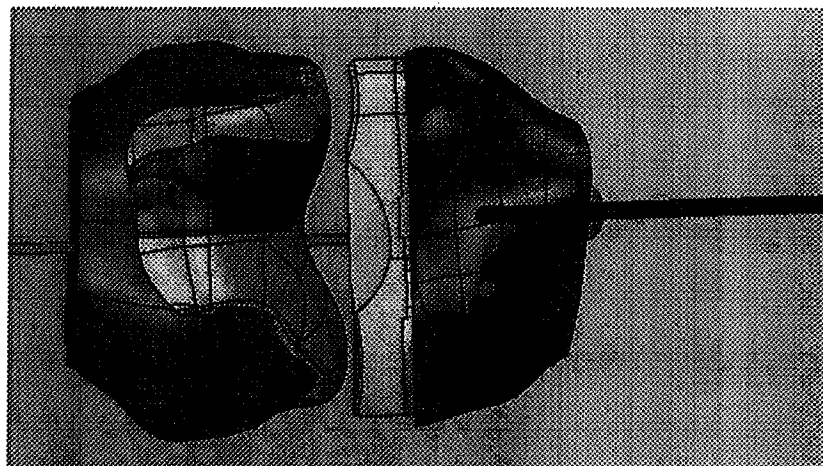


FIG. 156C

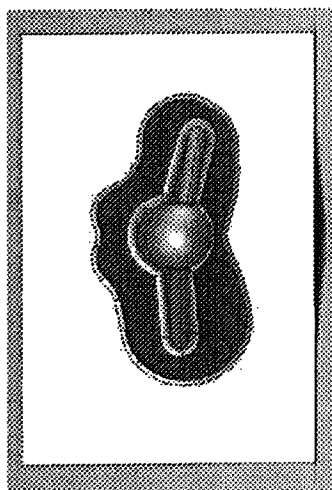


FIG. 157A

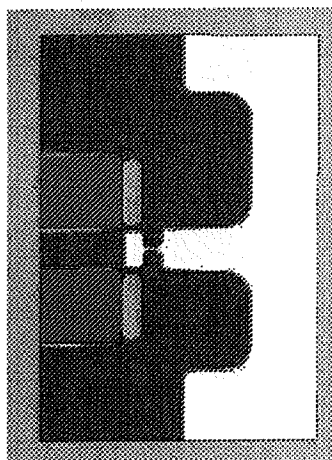


FIG. 157B

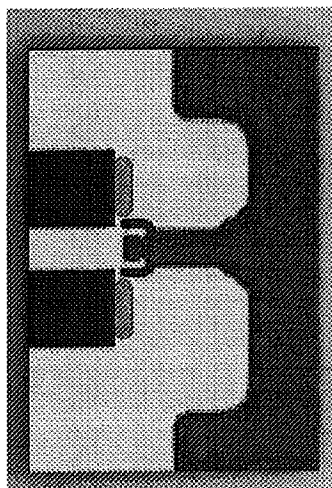


FIG. 157C

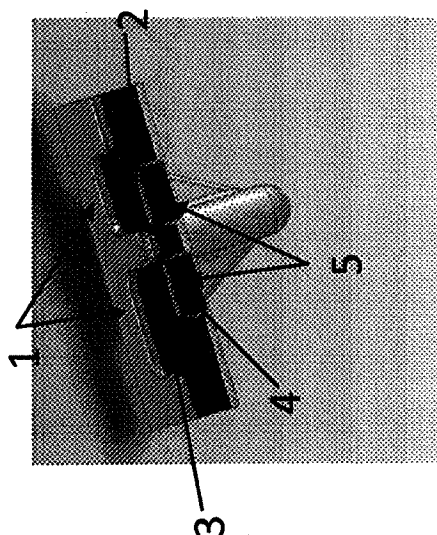


FIG. 157D

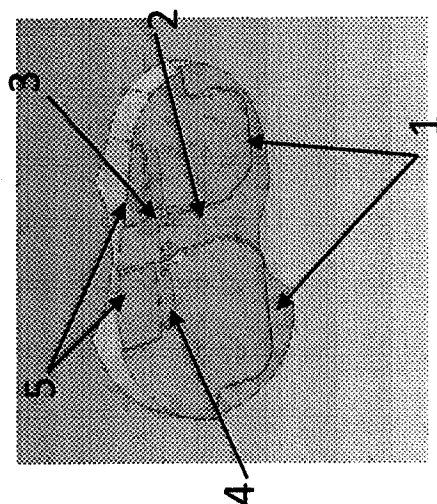


FIG. 157E

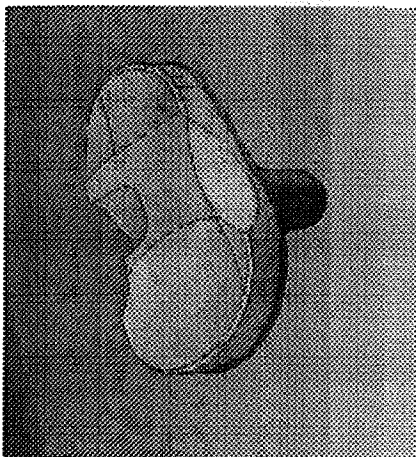


FIG. 158A

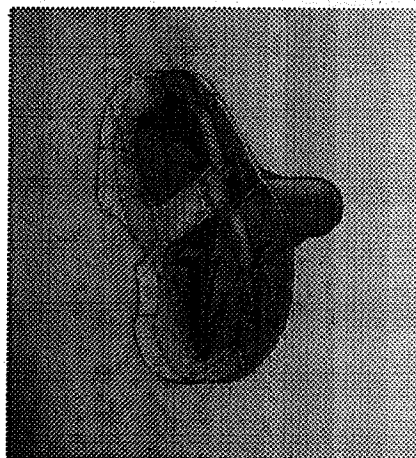


FIG. 158B

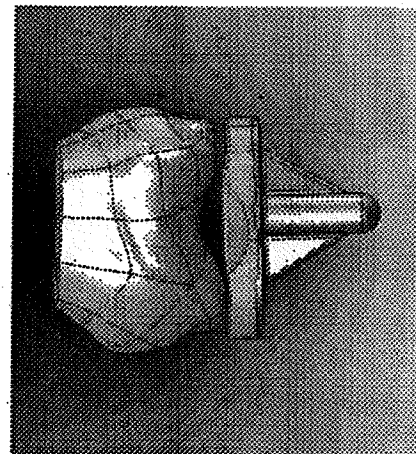


FIG. 158C

1
piece
Insert

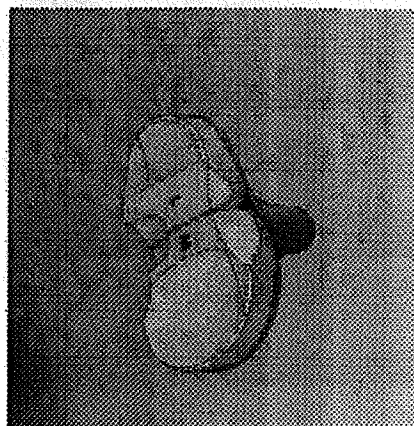


FIG. 159A

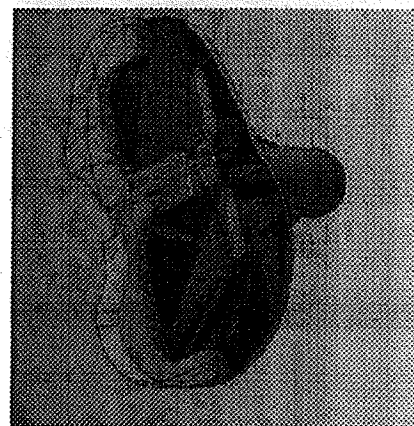


FIG. 159B

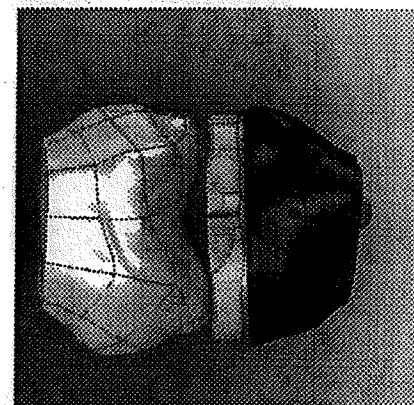


FIG. 159C

2
piece
Insert

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Standard to Patient-Specific

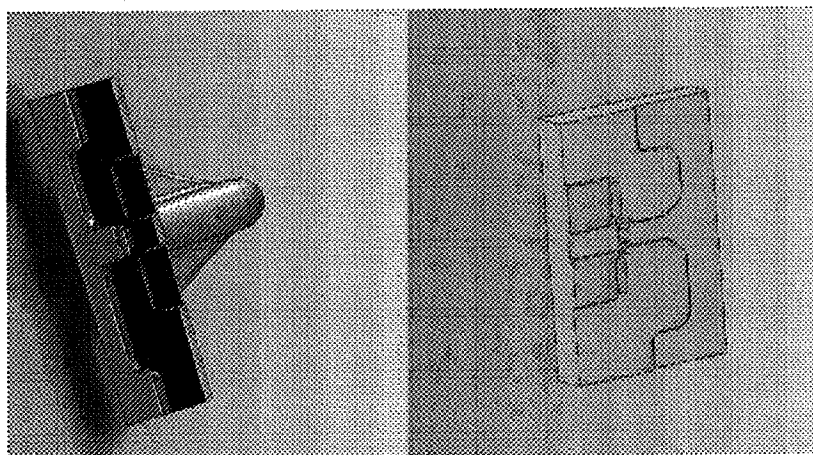


FIG. 160A

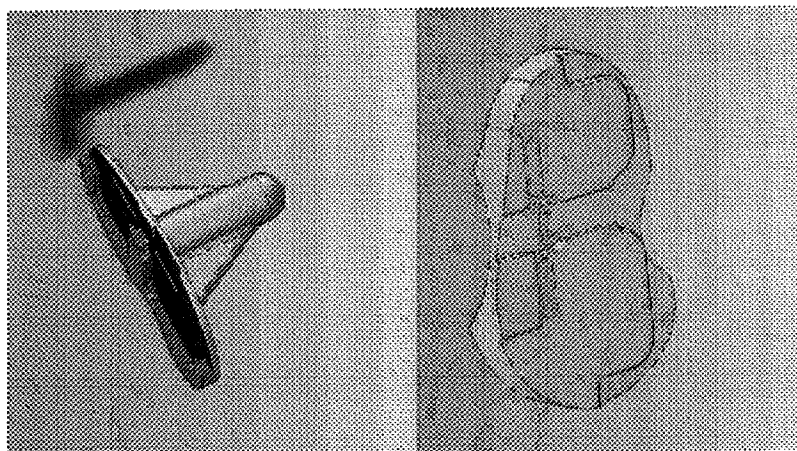


FIG. 160B

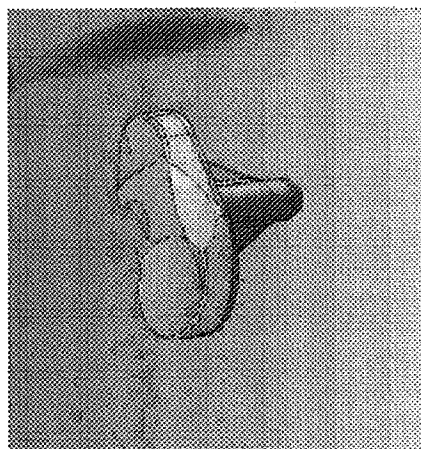


FIG. 160C

Tibial Rotation

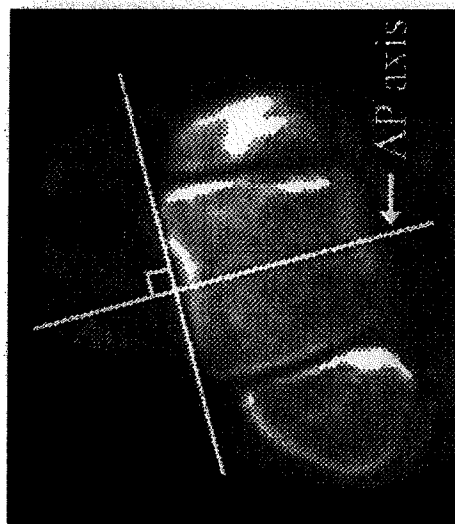


FIG. 161A

"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.

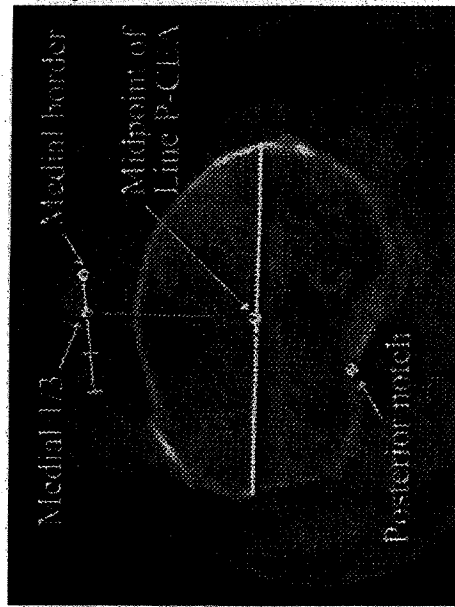


FIG. 161B

Anatomic Landmark Technique

(Mizu-uchi et 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

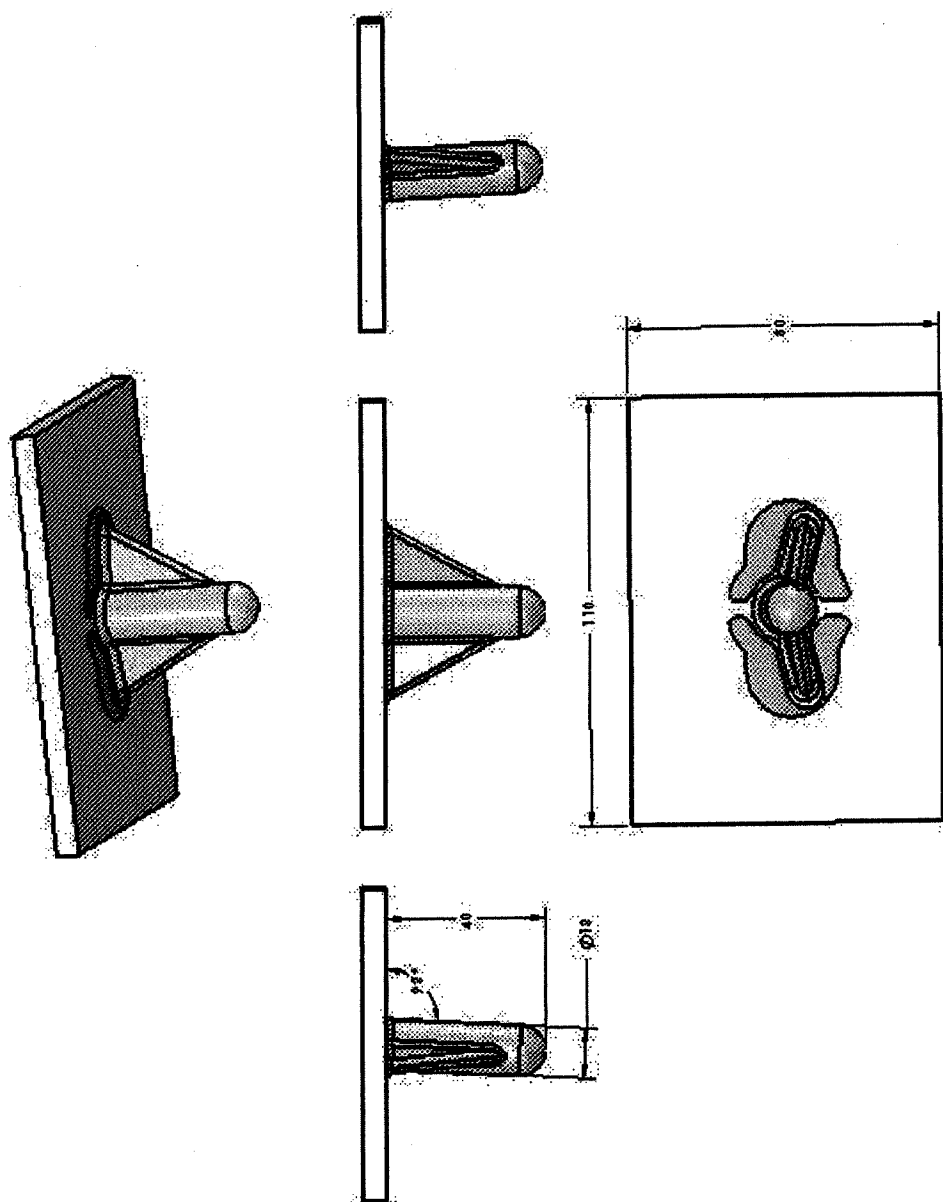


FIG. 162

Tibial Implant Profile

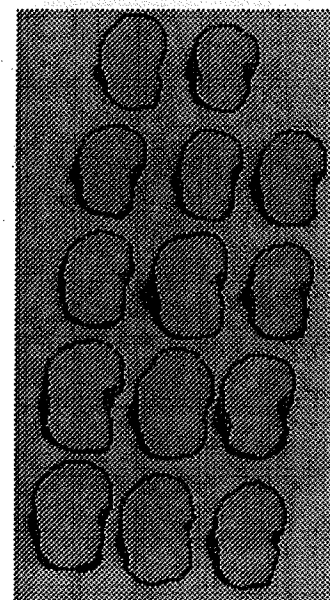


FIG. 163A

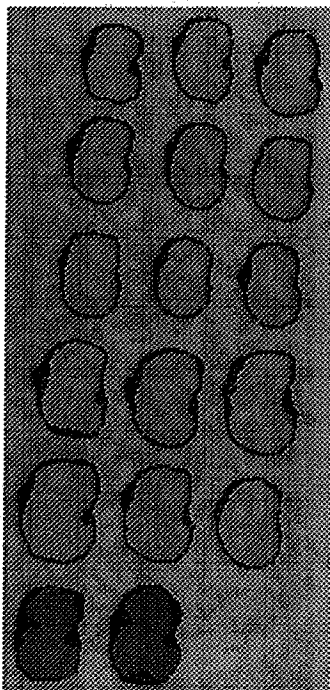


FIG. 164A

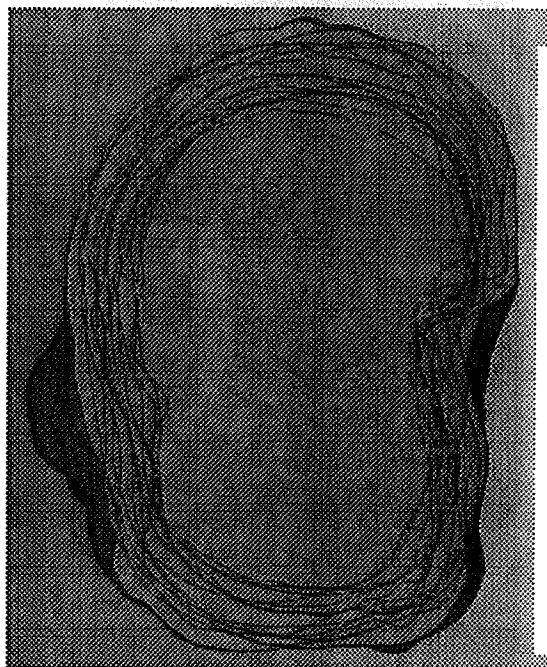


FIG. 163B

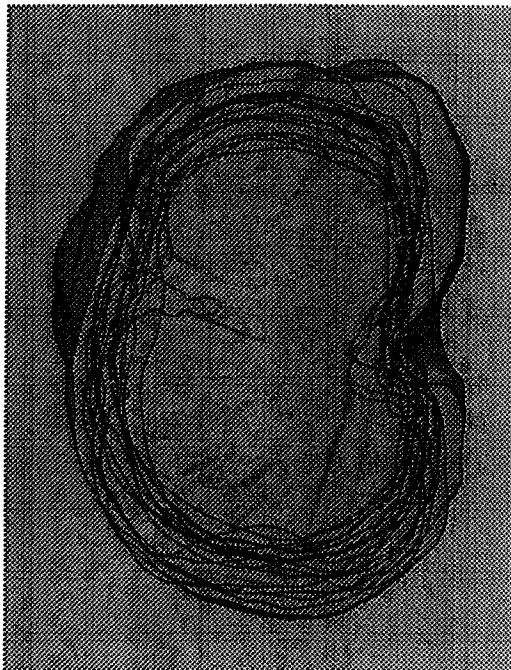


FIG. 164B

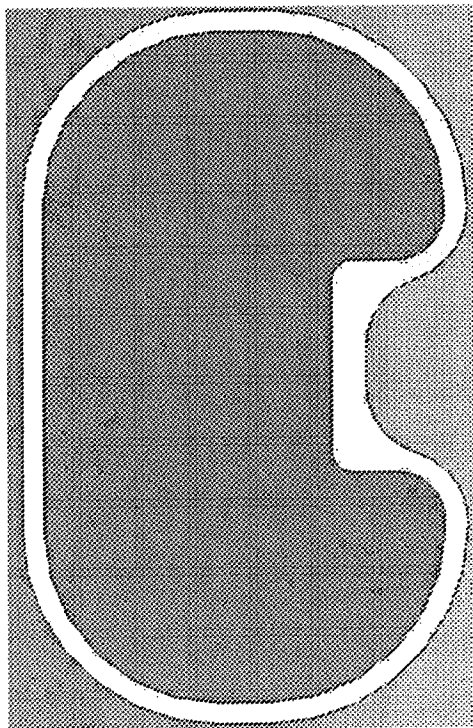


FIG. 165A

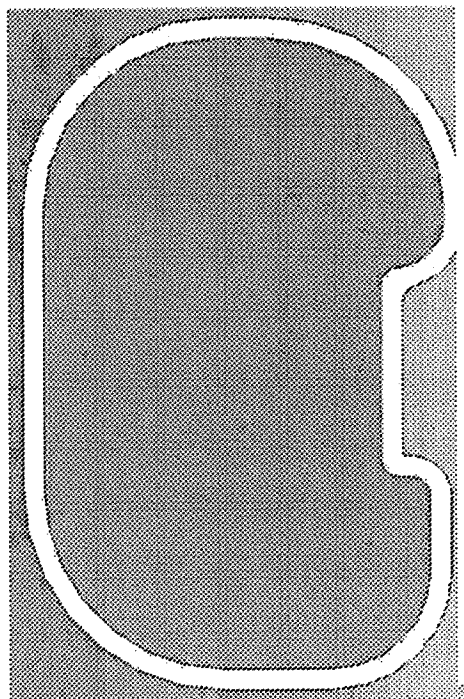


FIG. 165B

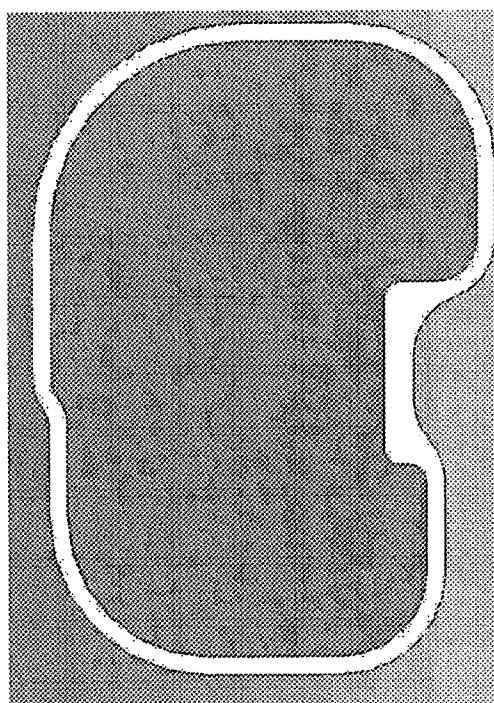


FIG. 165C

FIG. 165D

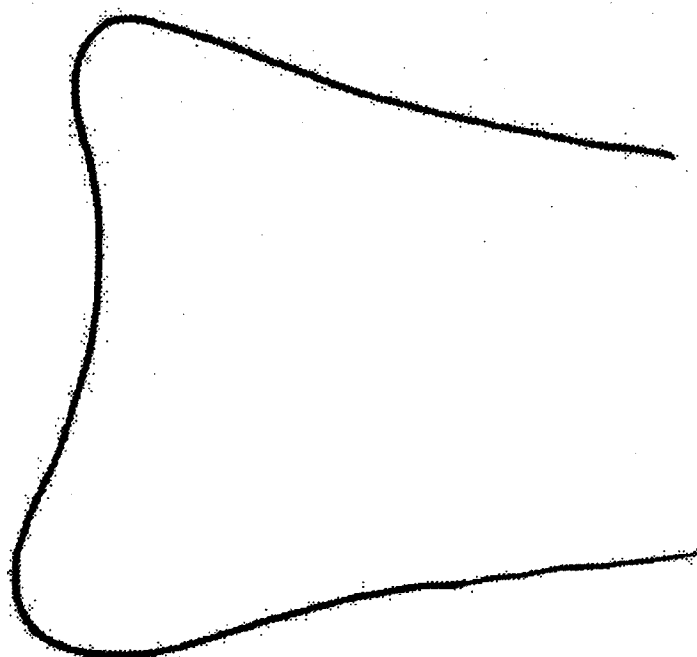


FIG. 176A

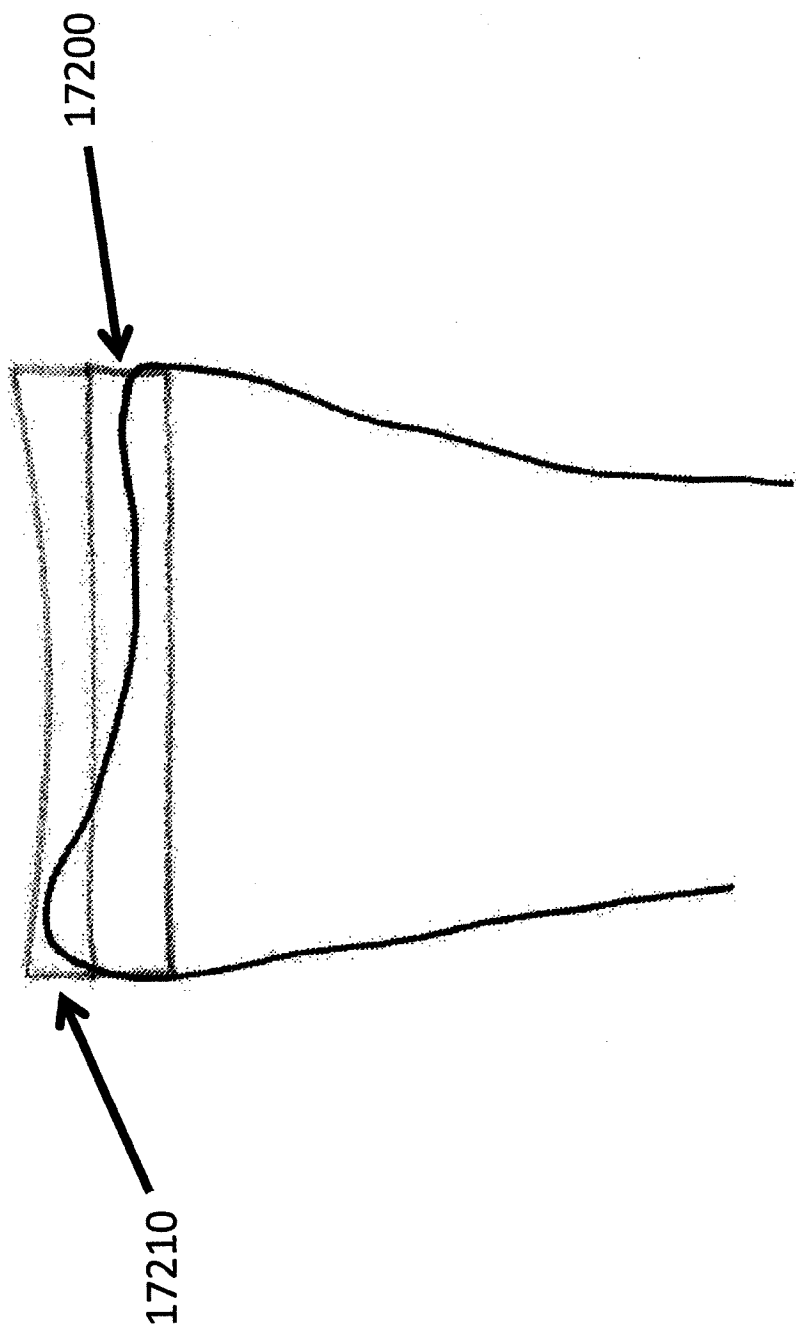


FIG. 176B

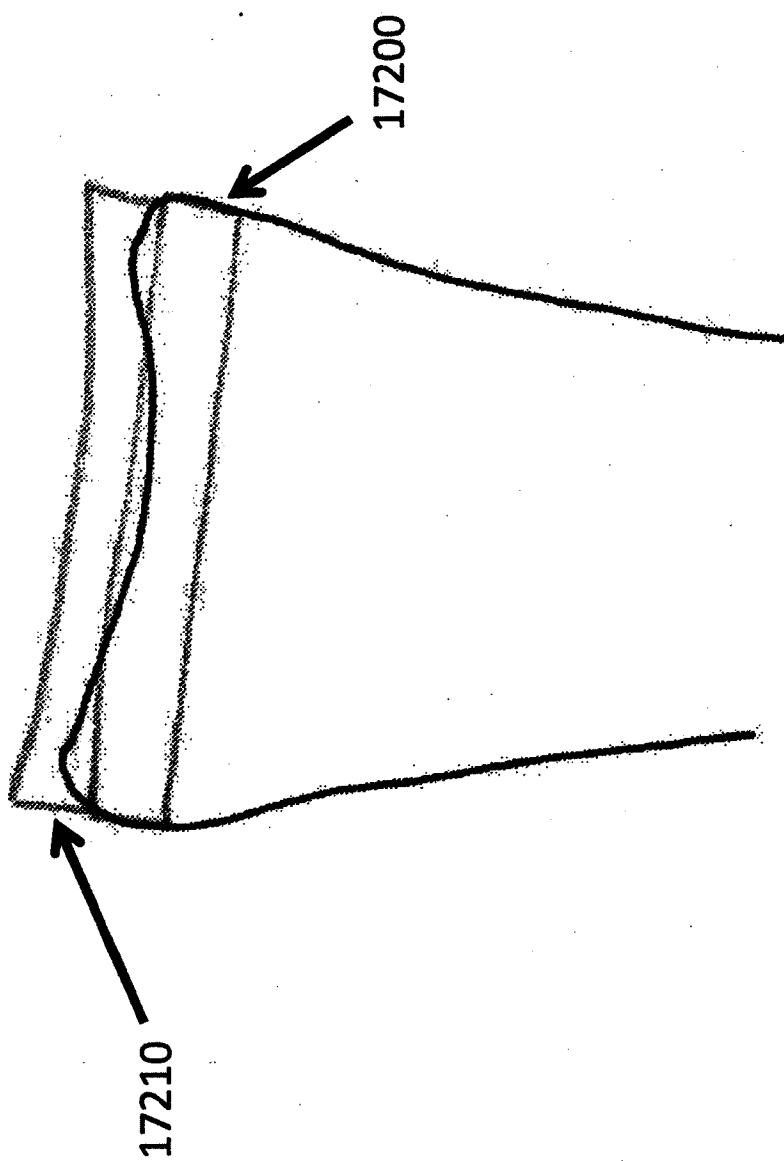


FIG. 176C

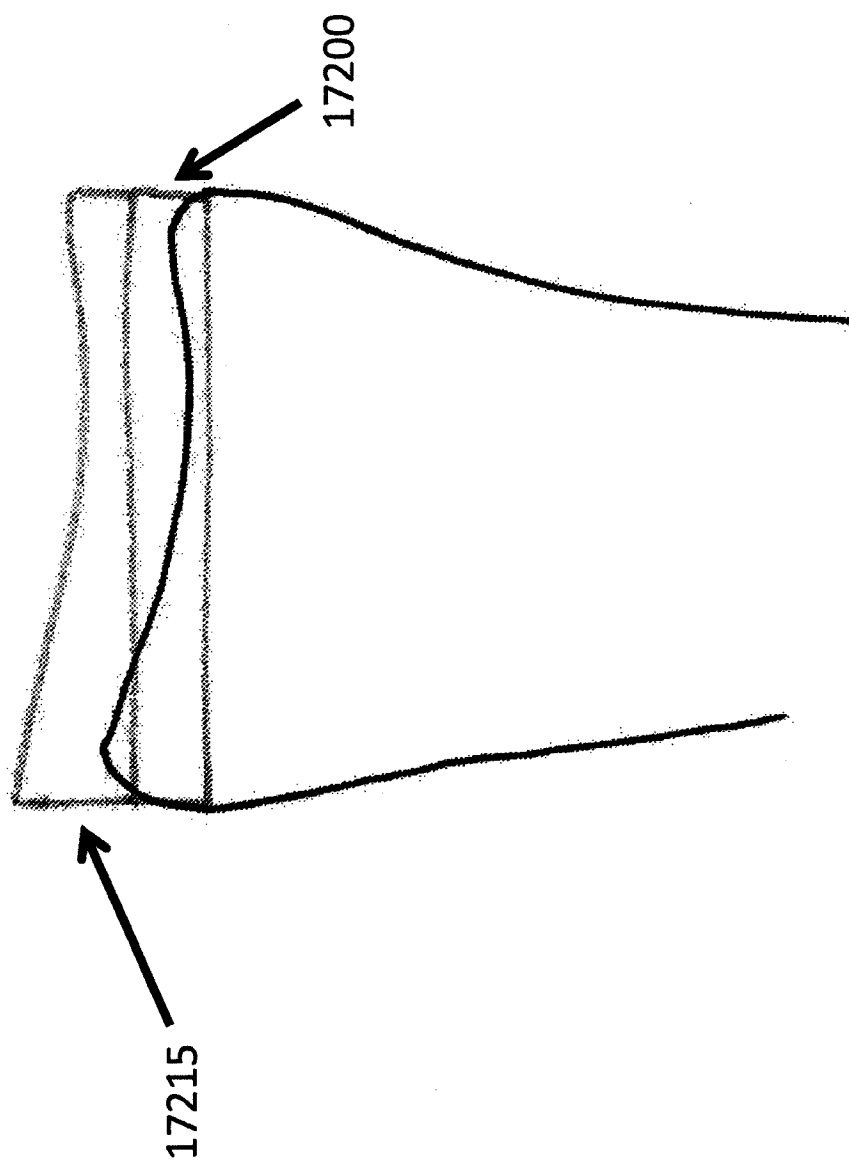


FIG. 176D

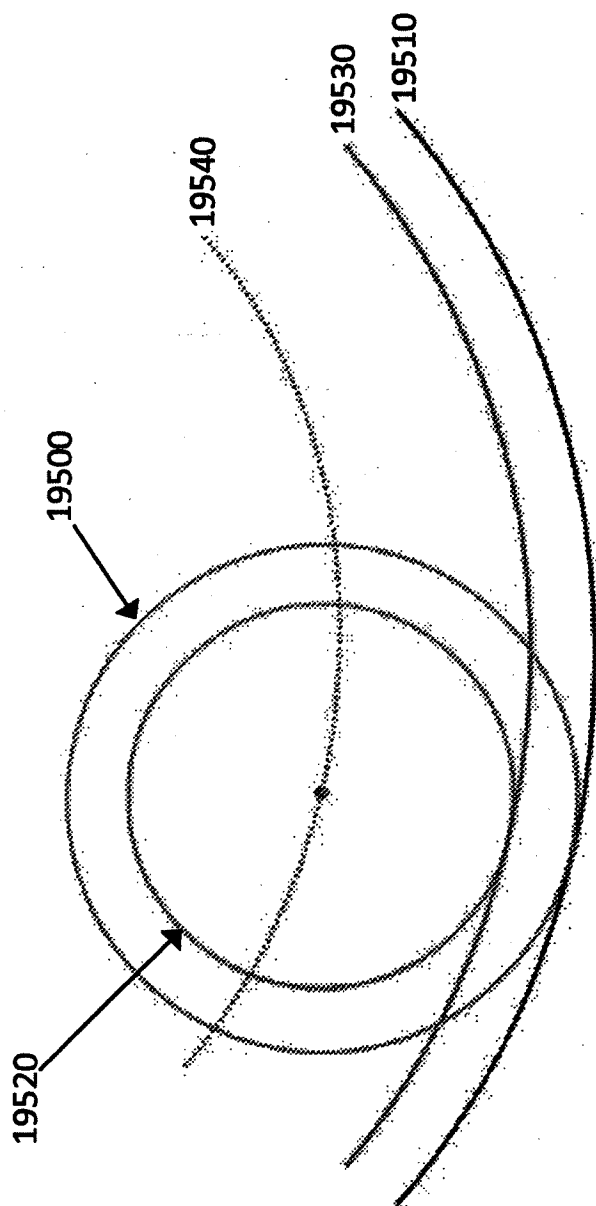


FIG. 191

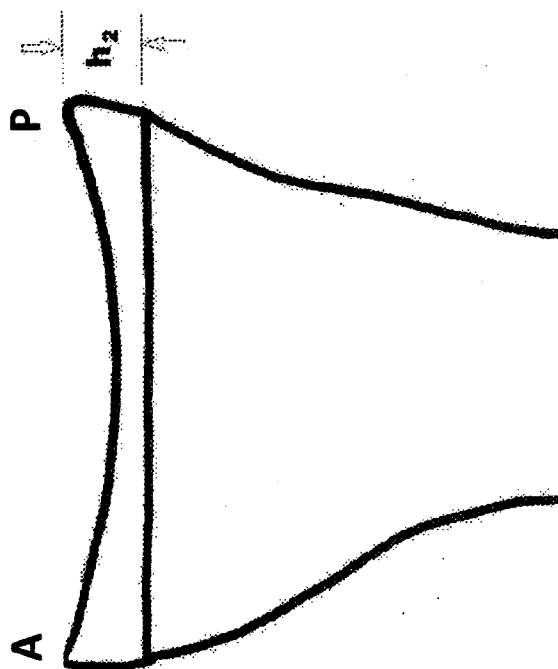


FIG. 192

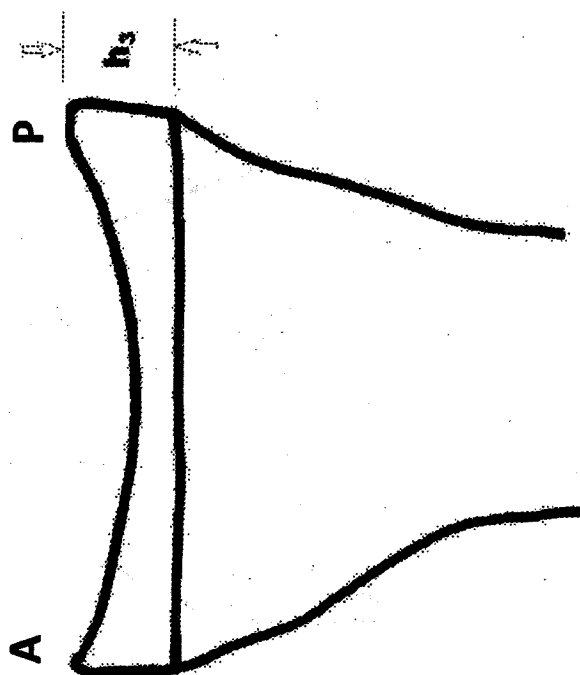
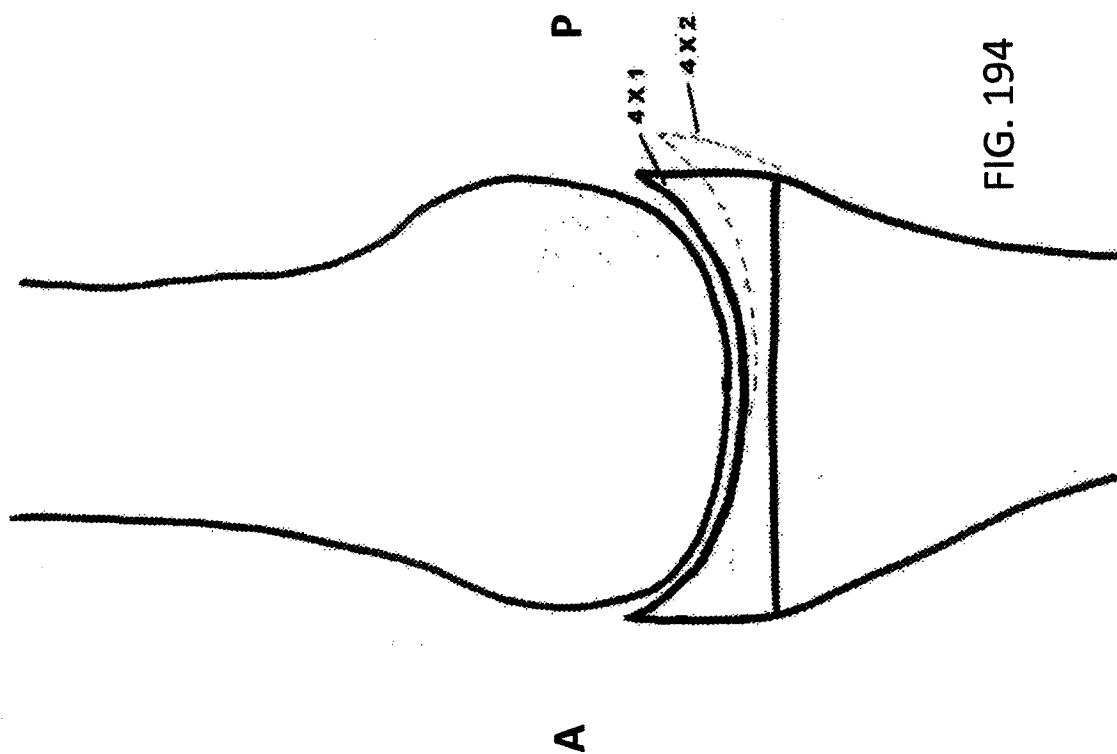


FIG. 193



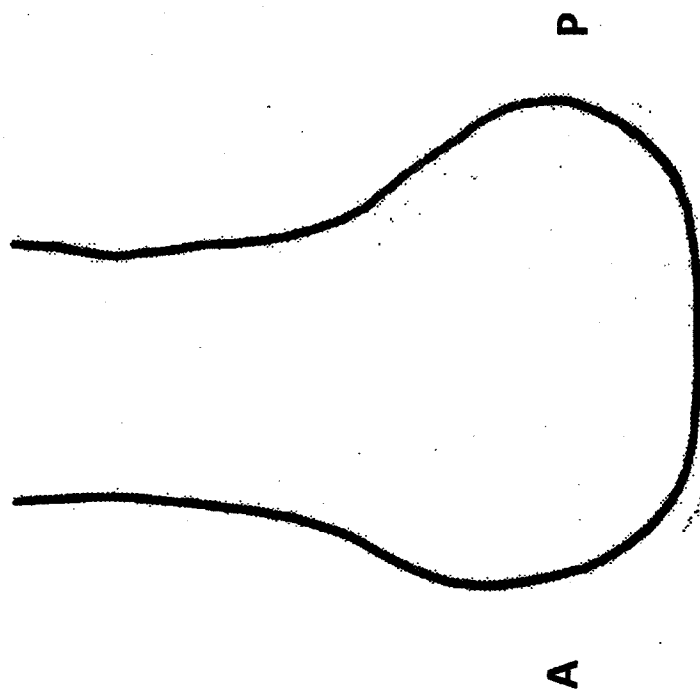


FIG. 195

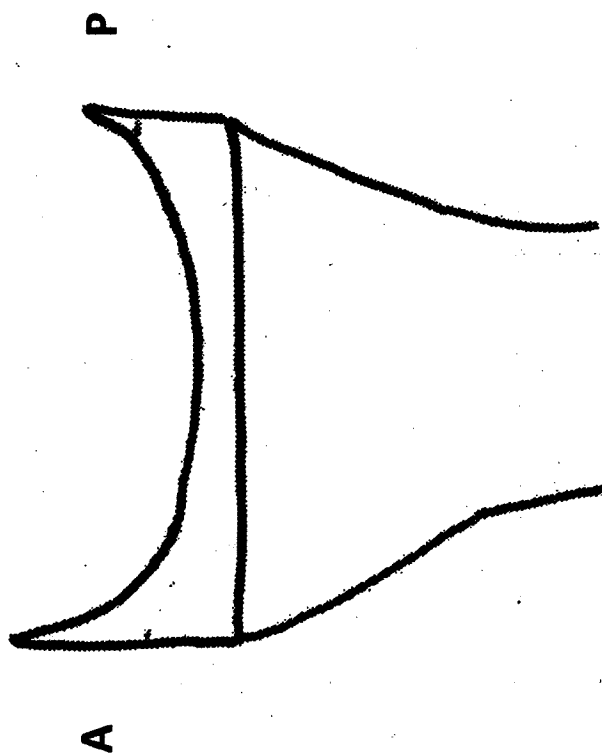


FIG. 196

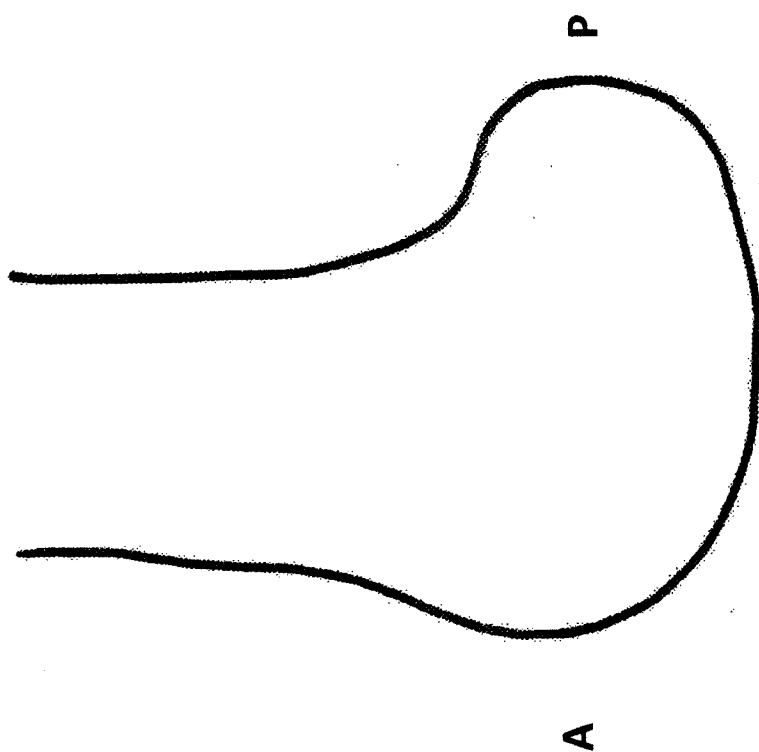


FIG. 197

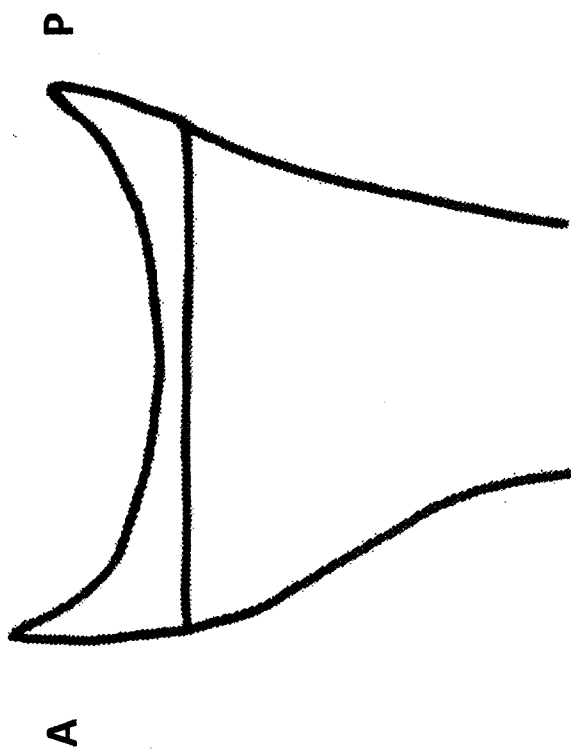


FIG. 198