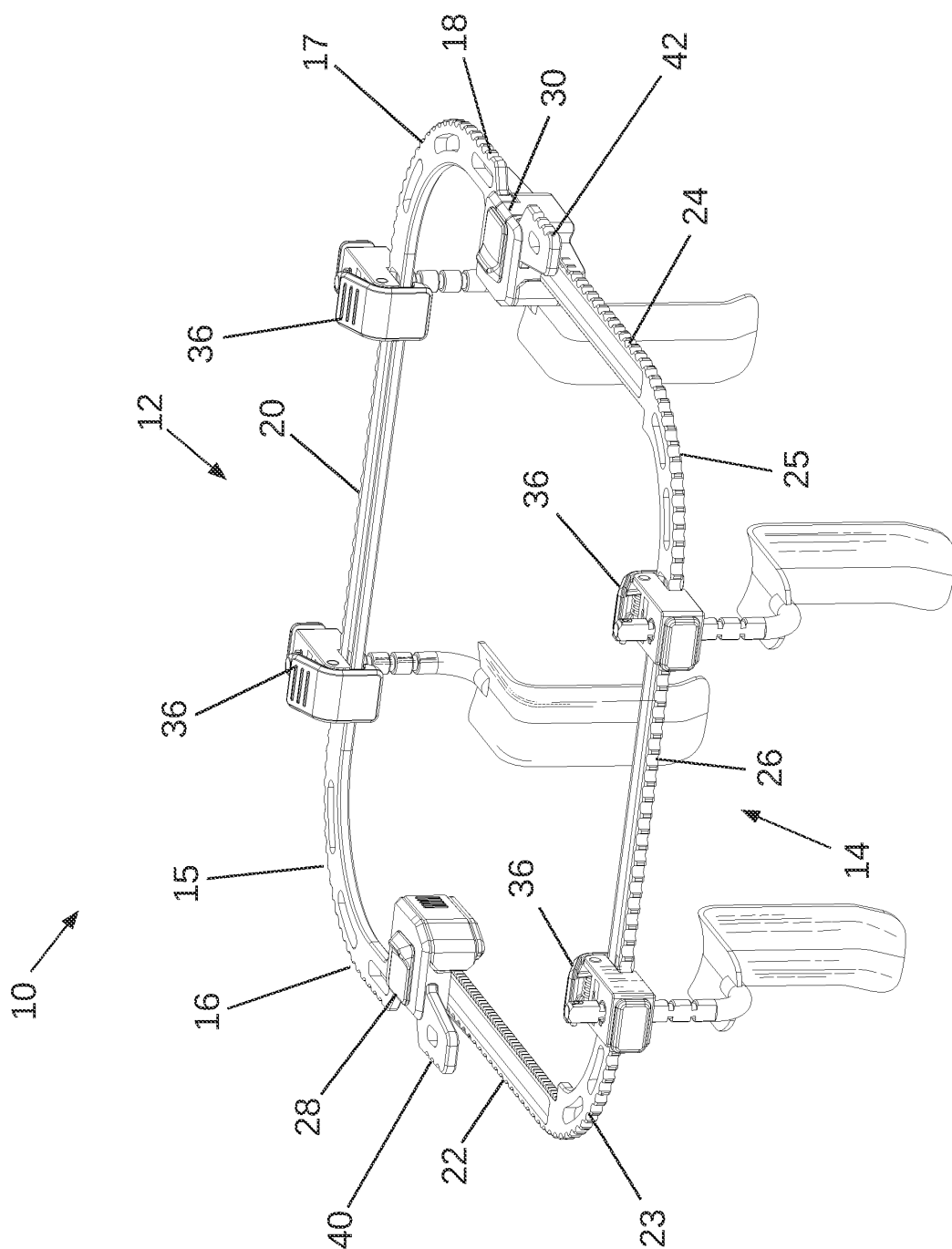
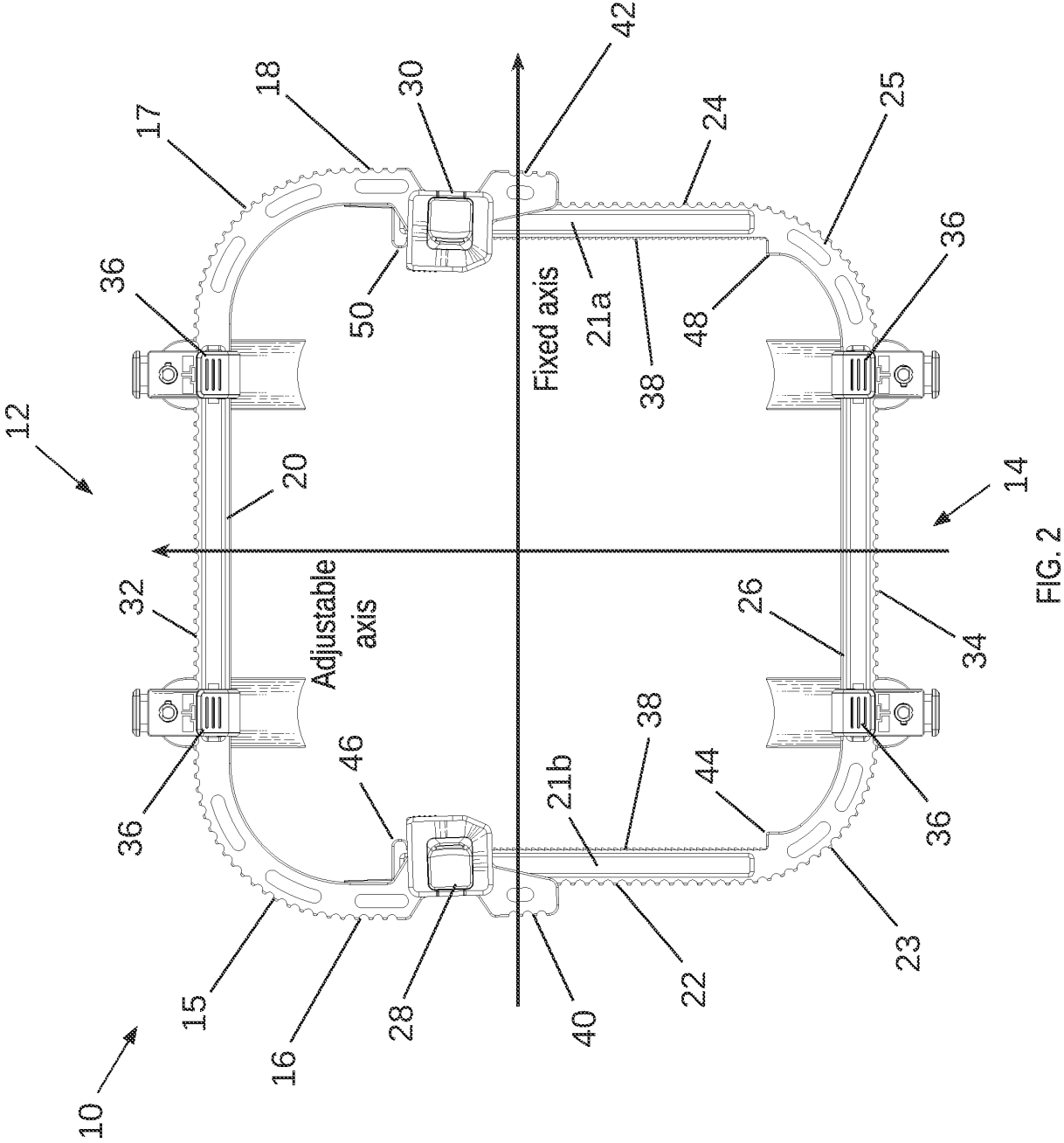
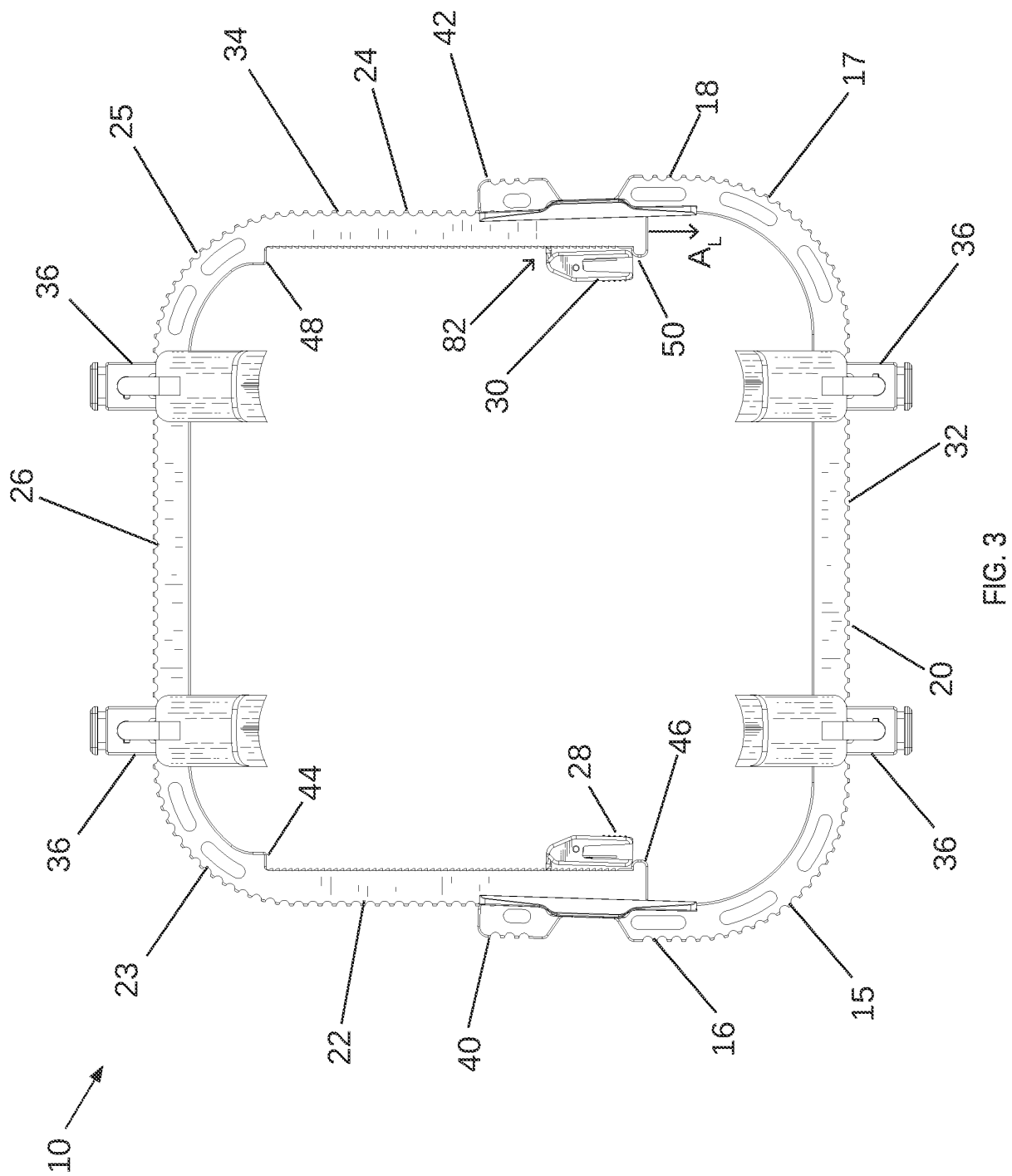








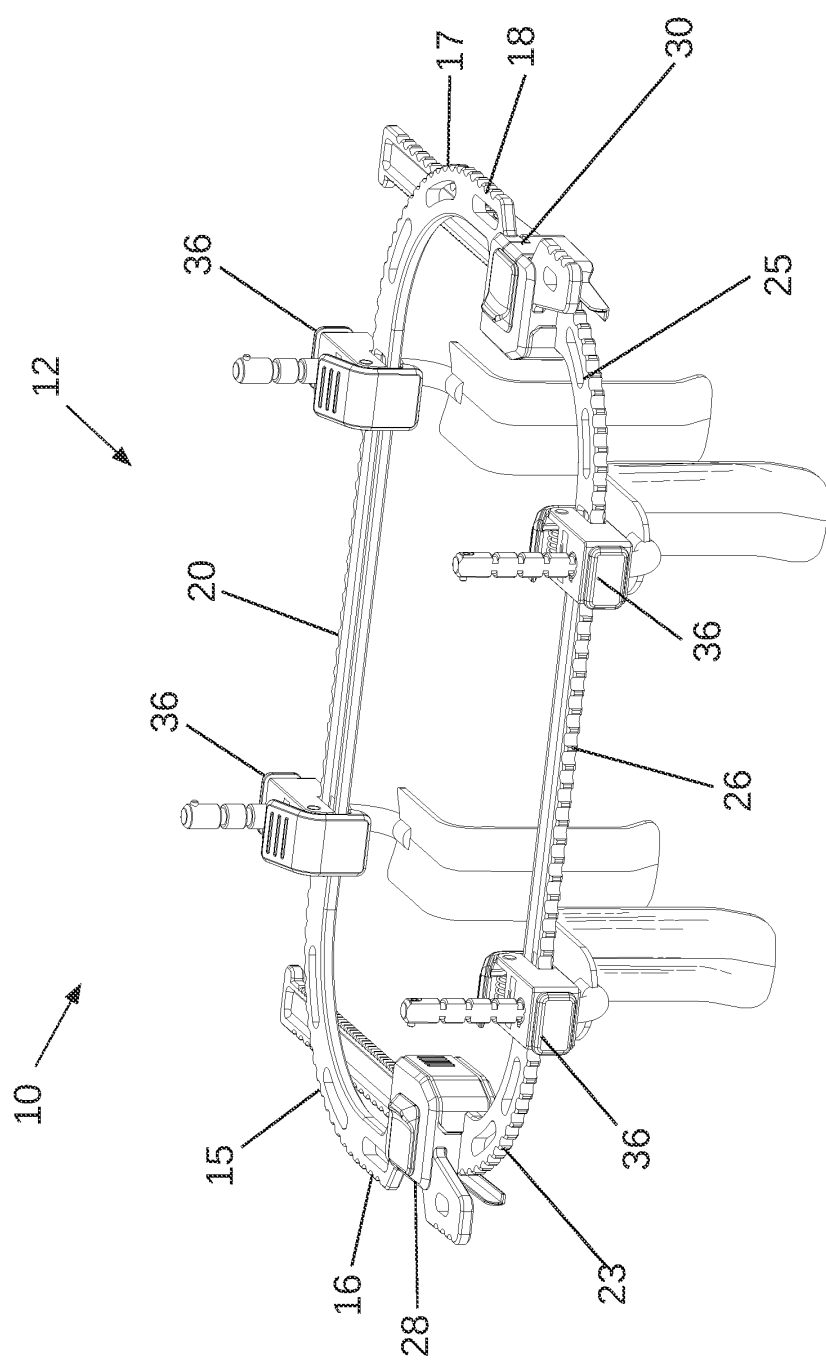


FIG. 4

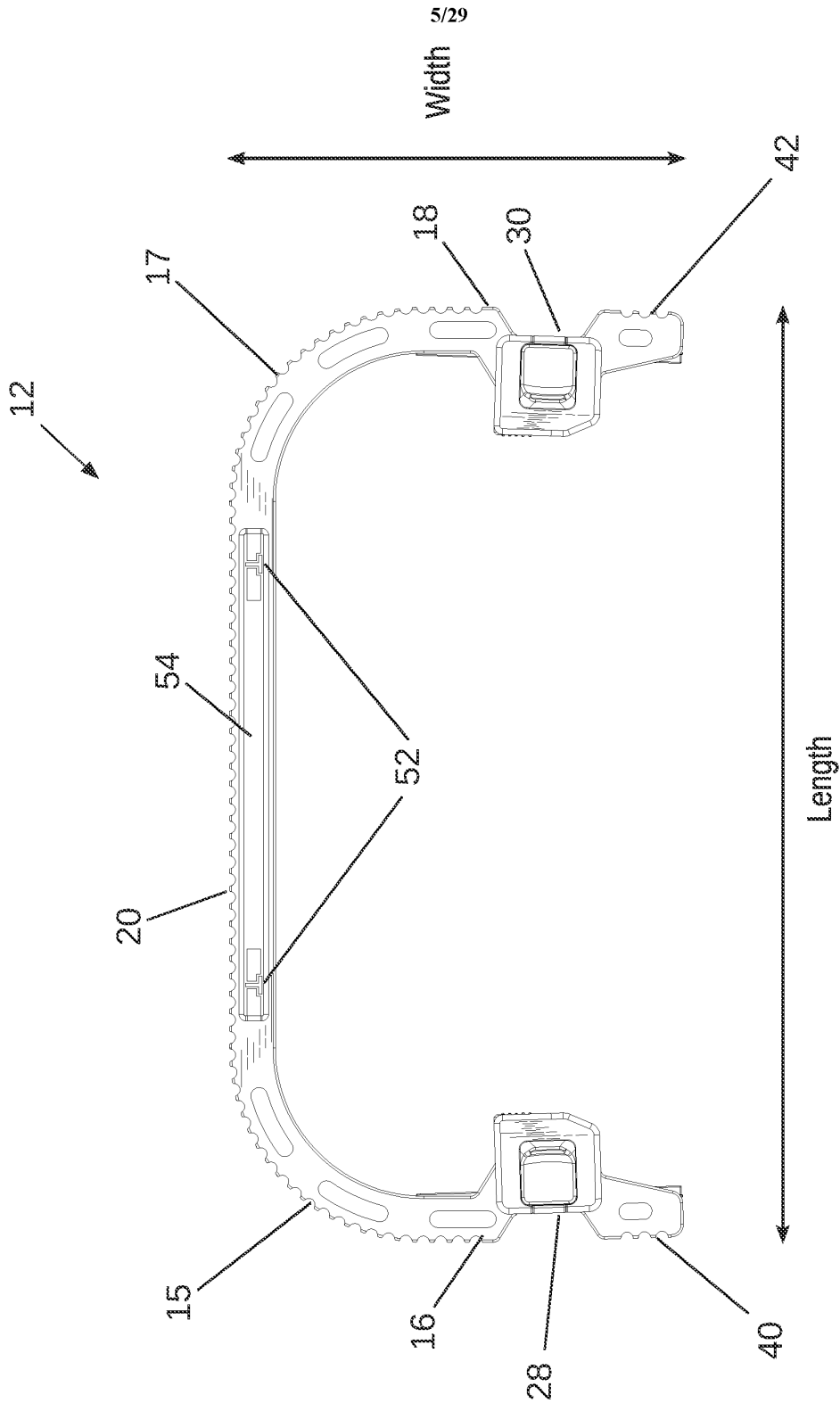


FIG. 5

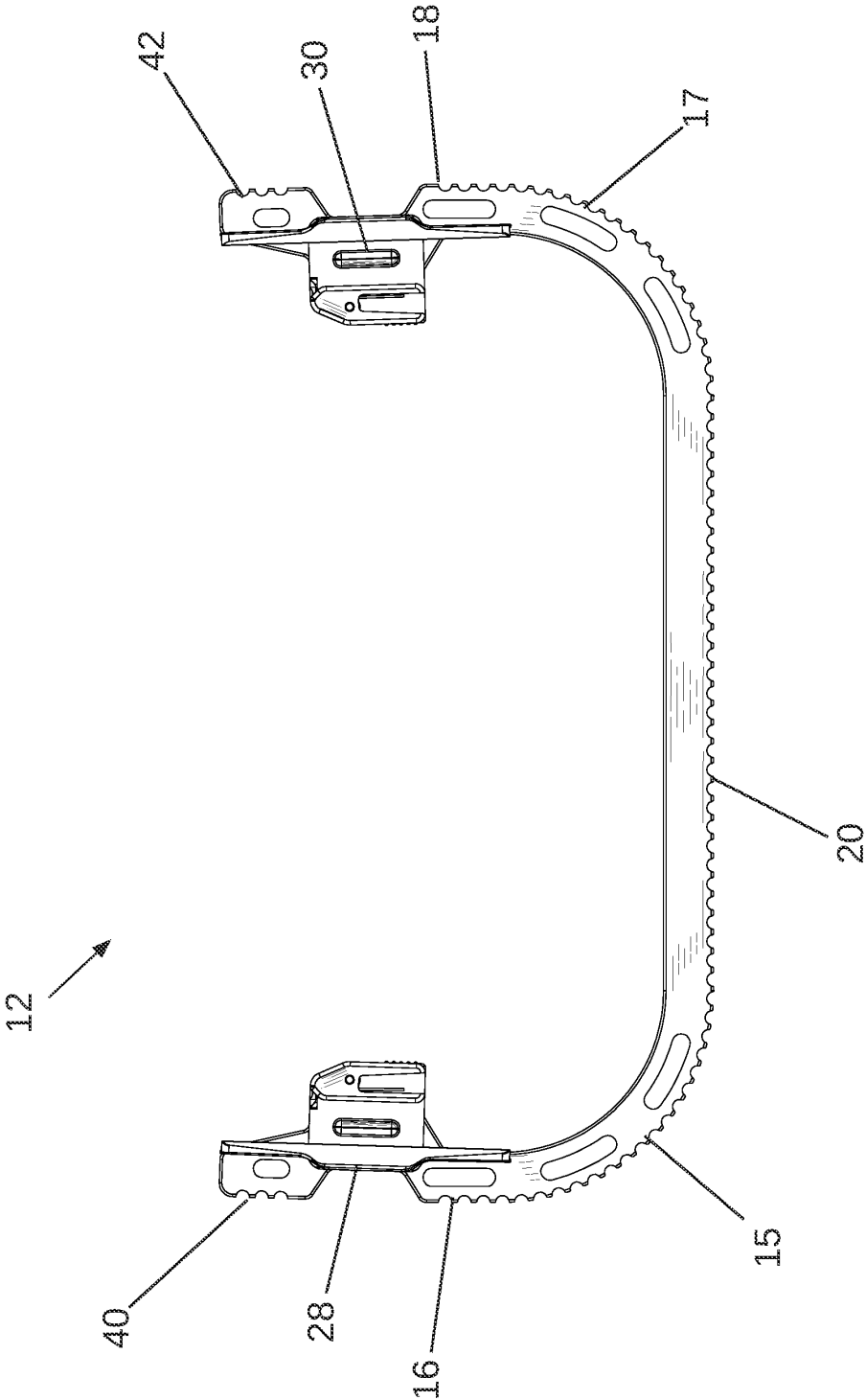
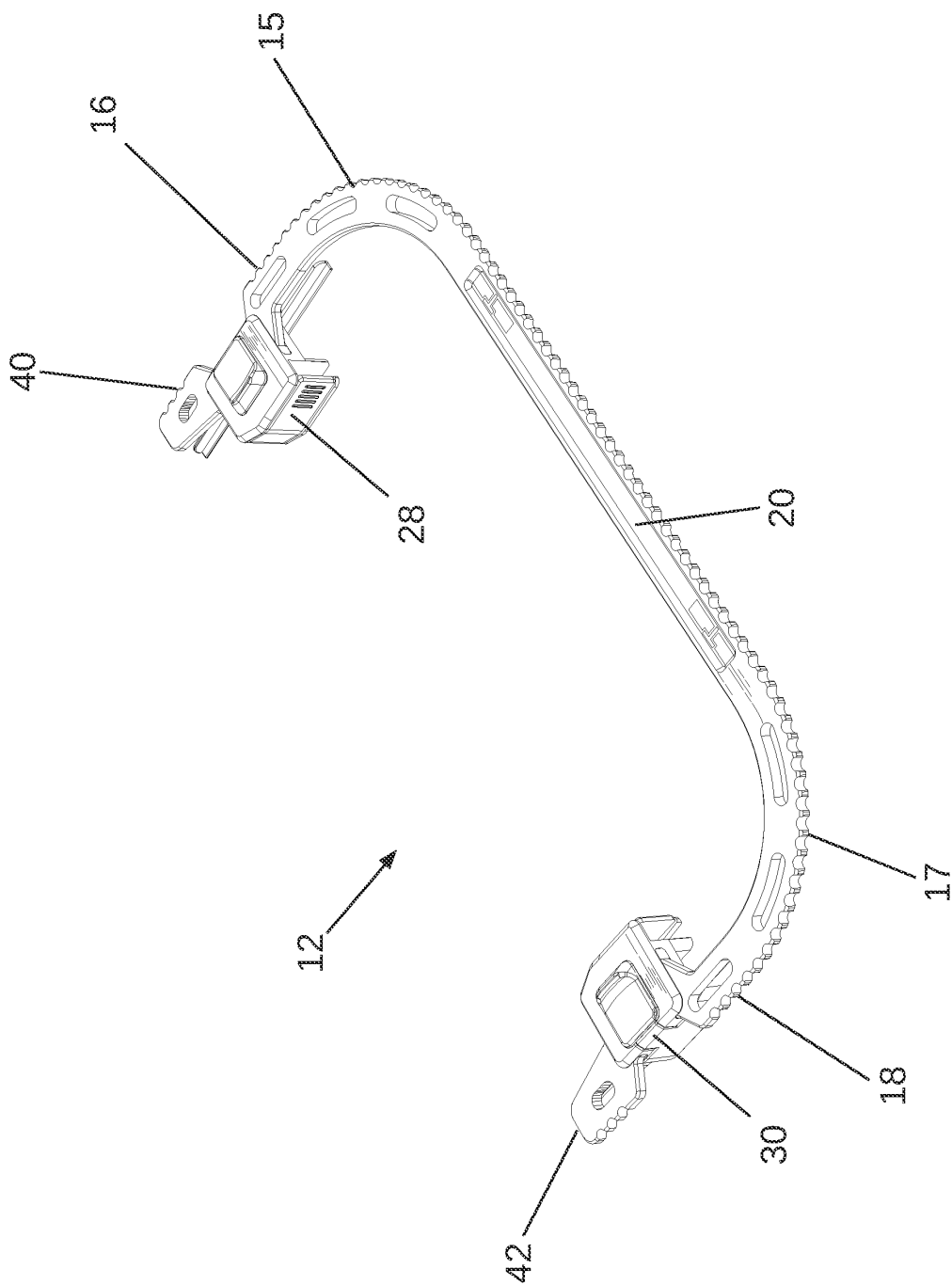


FIG. 6



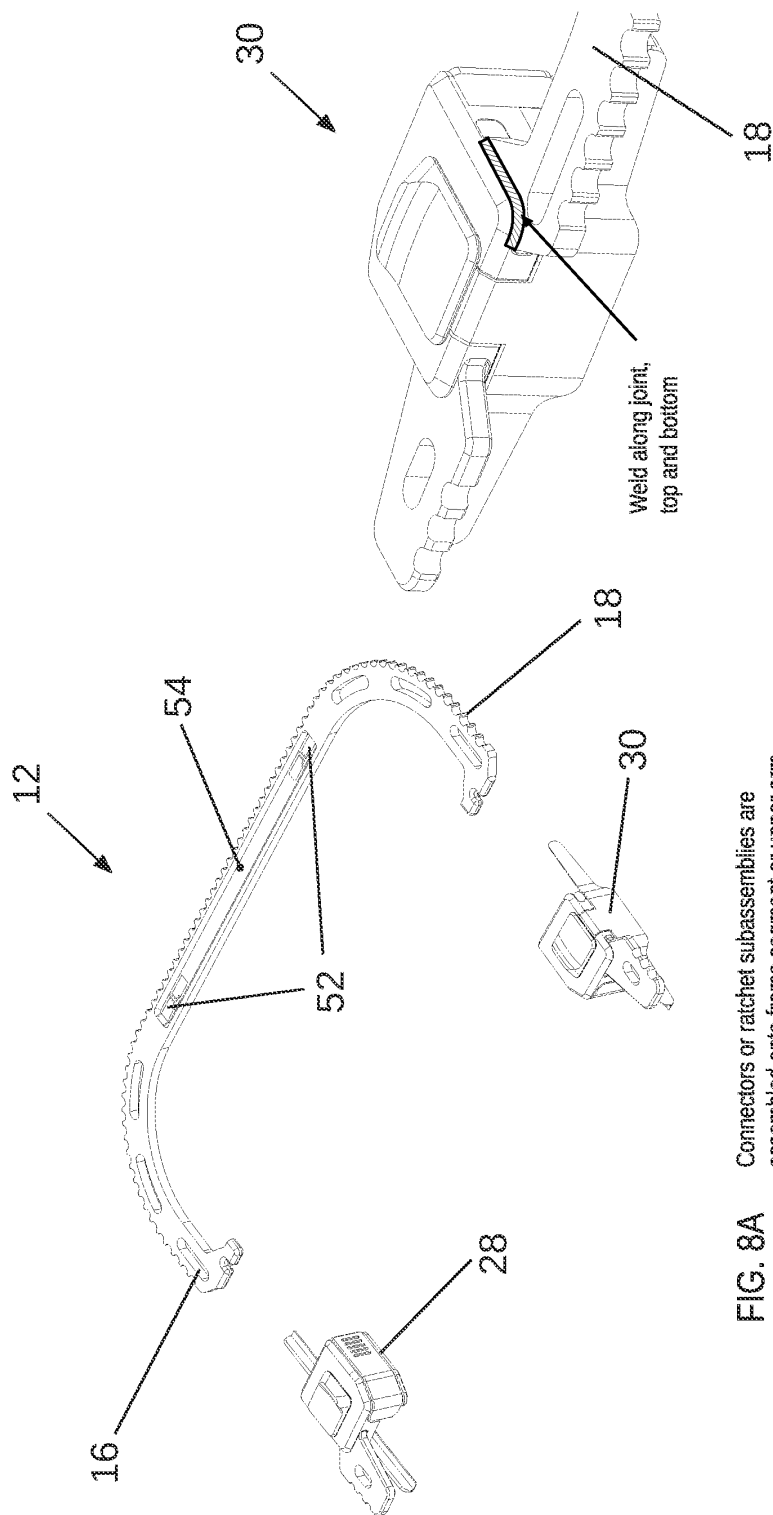


FIG. 8A Connectors or ratchet subassemblies are assembled onto frame segment or upper arm segment and welded into place.

FIG. 8B

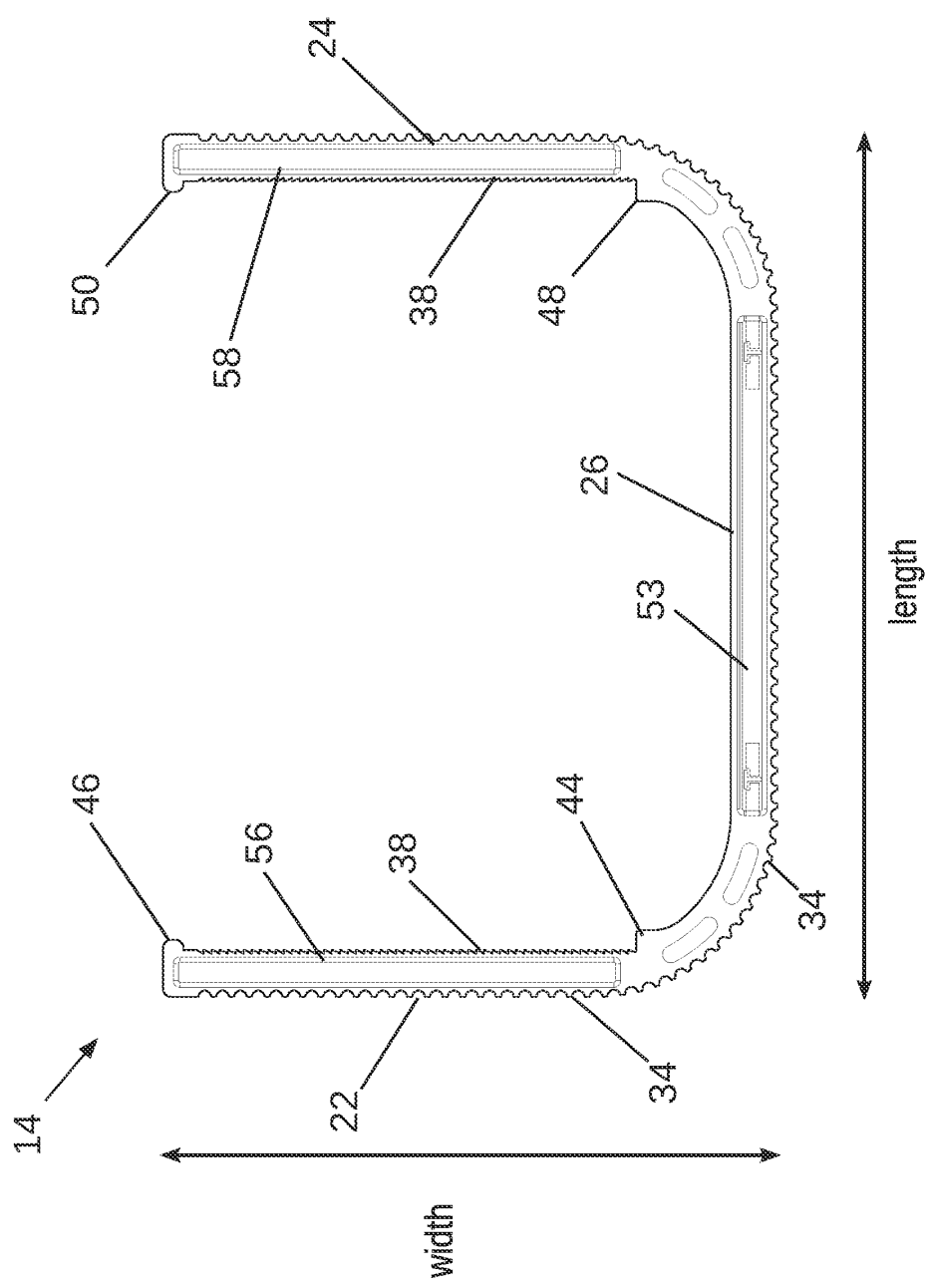


FIG. 9

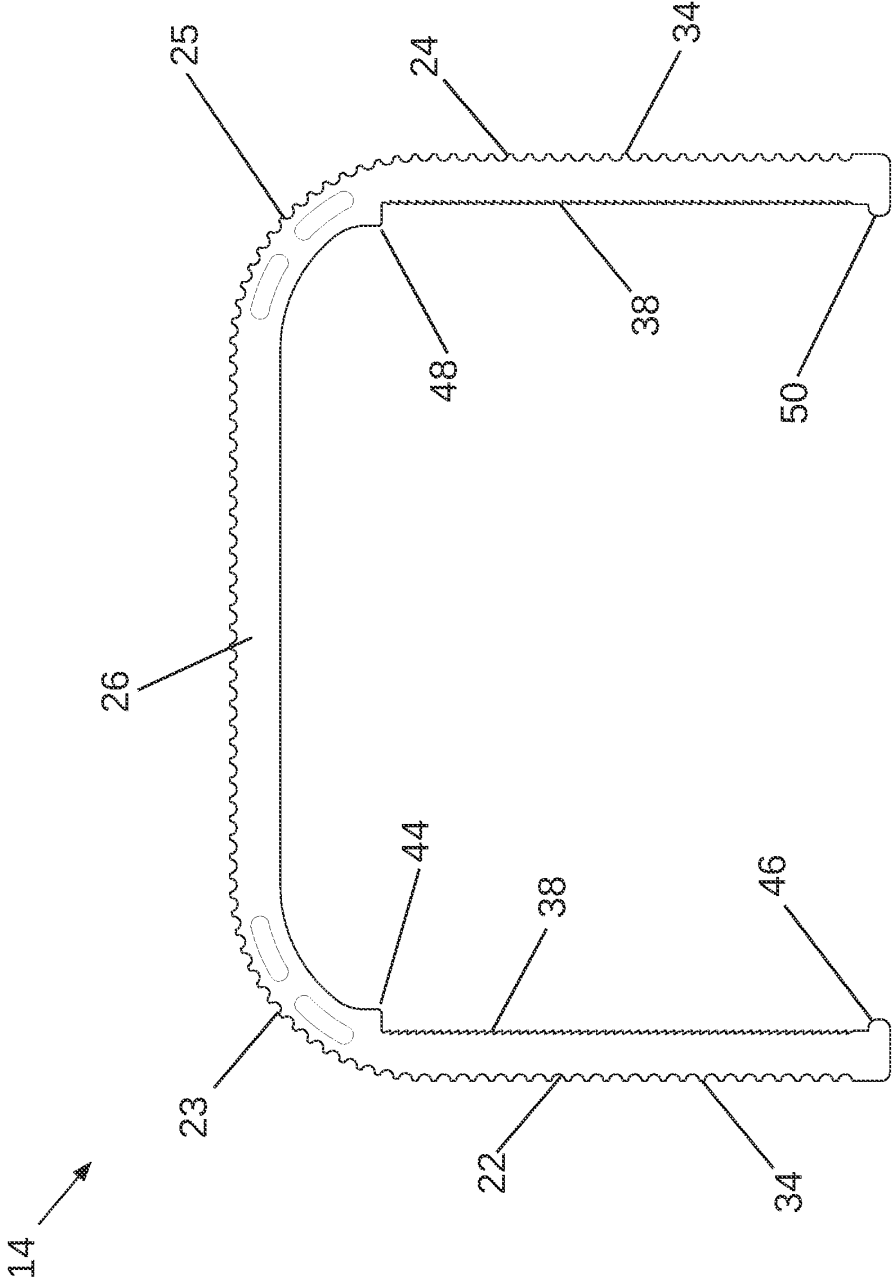


FIG. 10

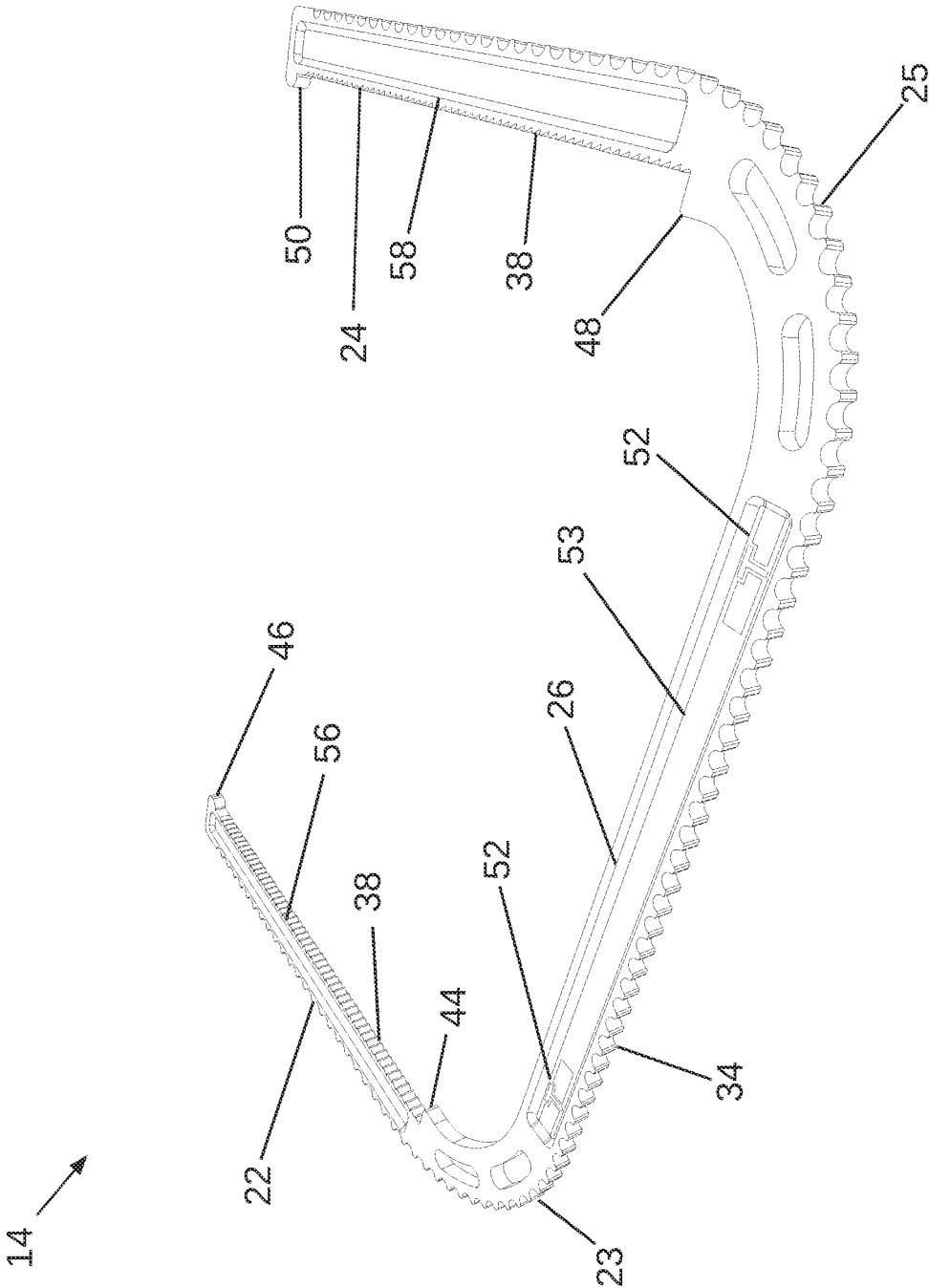


FIG. 11

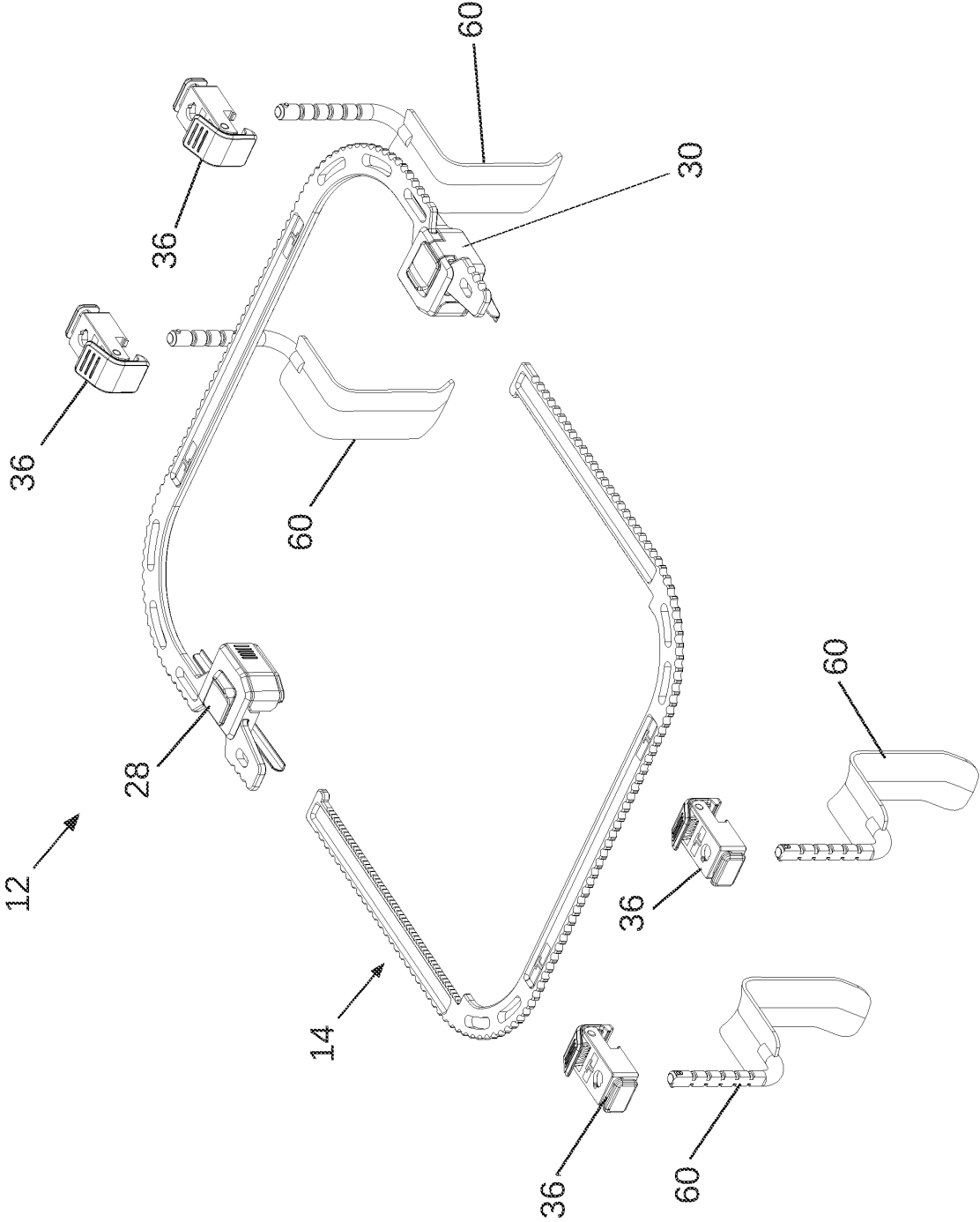
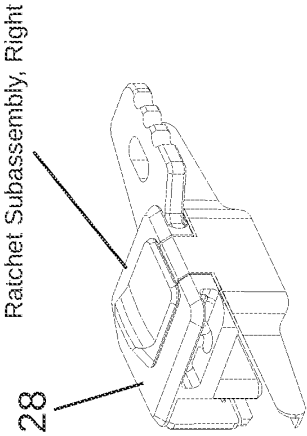


FIG. 12



Left and Right subassemblies may be substantially the same and include chiral ratchet housings.

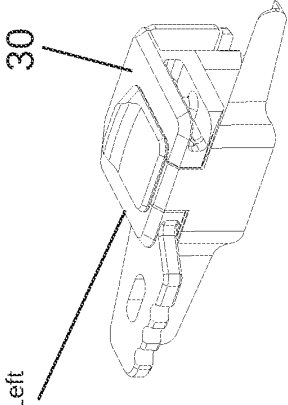
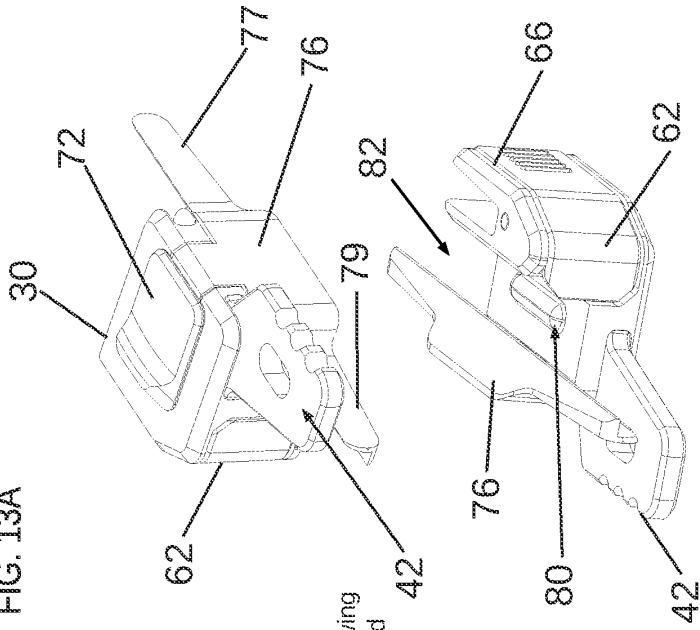


FIG. 13A

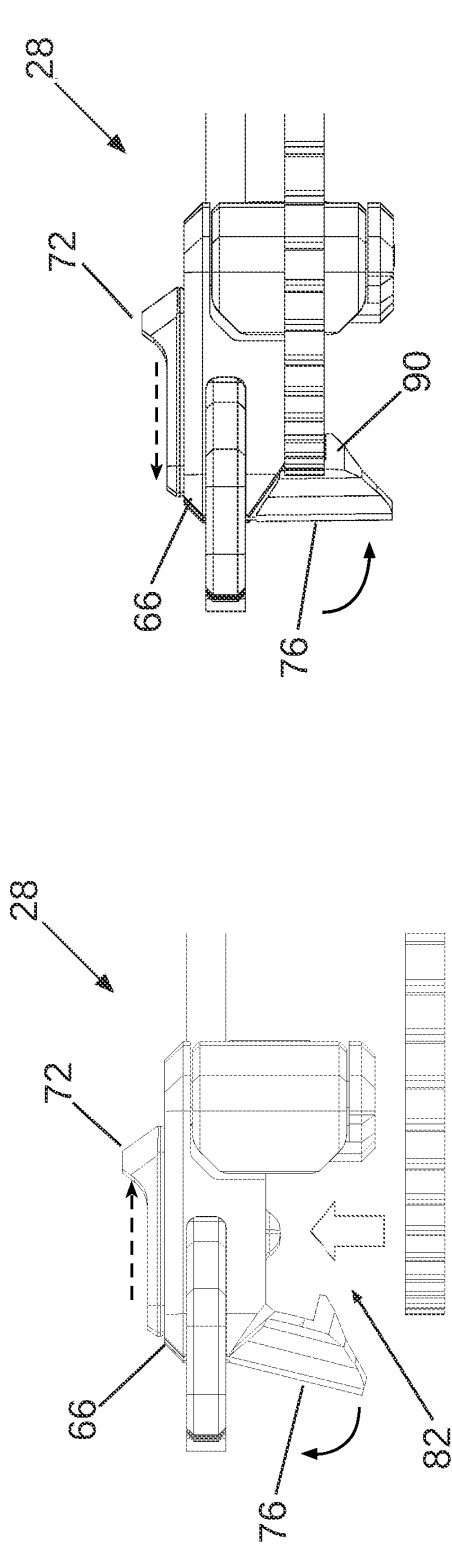


Ratchet housing "wing (42)" for standard attachment

Feature (80) for unidirectional assembly of second frame segment (e.g., assembly of lower frame arm)

FIG. 13B

FIG. 13C



Once lower arm is fully seated, user releases both slider button and side clamp. Spring action moves components in directions shown, returning them to locked position. (no actuation necessary to complete assembly)

User slides top slider in the direction shown, which releases the lock on side clamp. Clamp can be rotated in direction shown to allow lower arm to nest into ratchet subassembly.

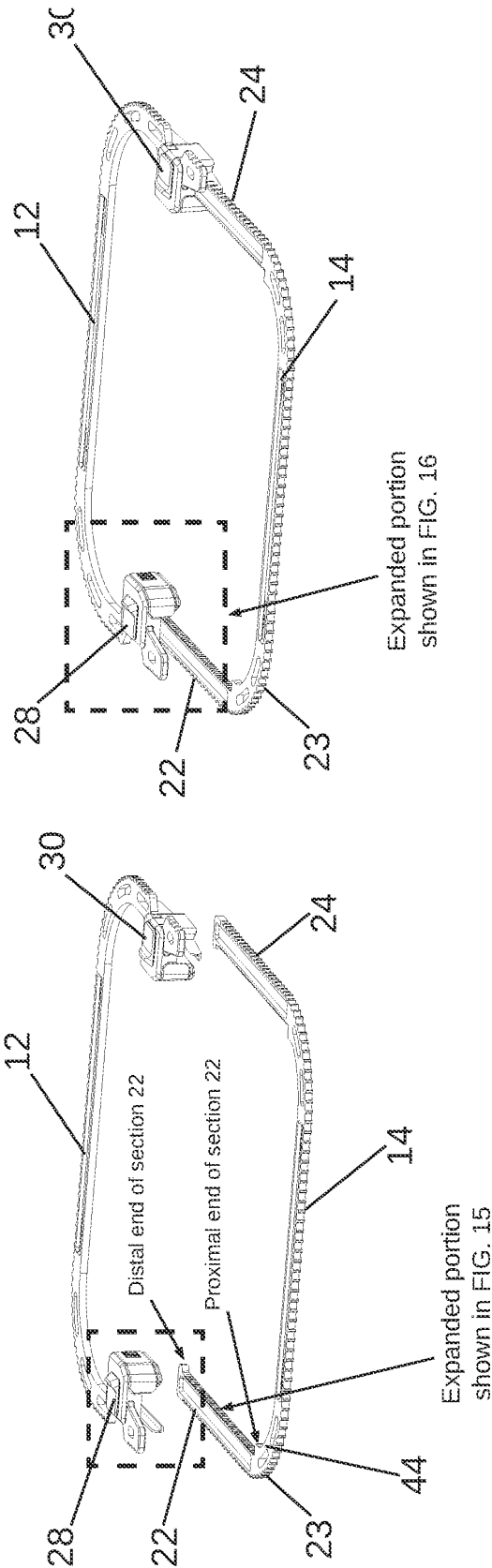


FIG. 14

Expanded portion shown in FIG. 15

Expanded portion shown in FIG. 16

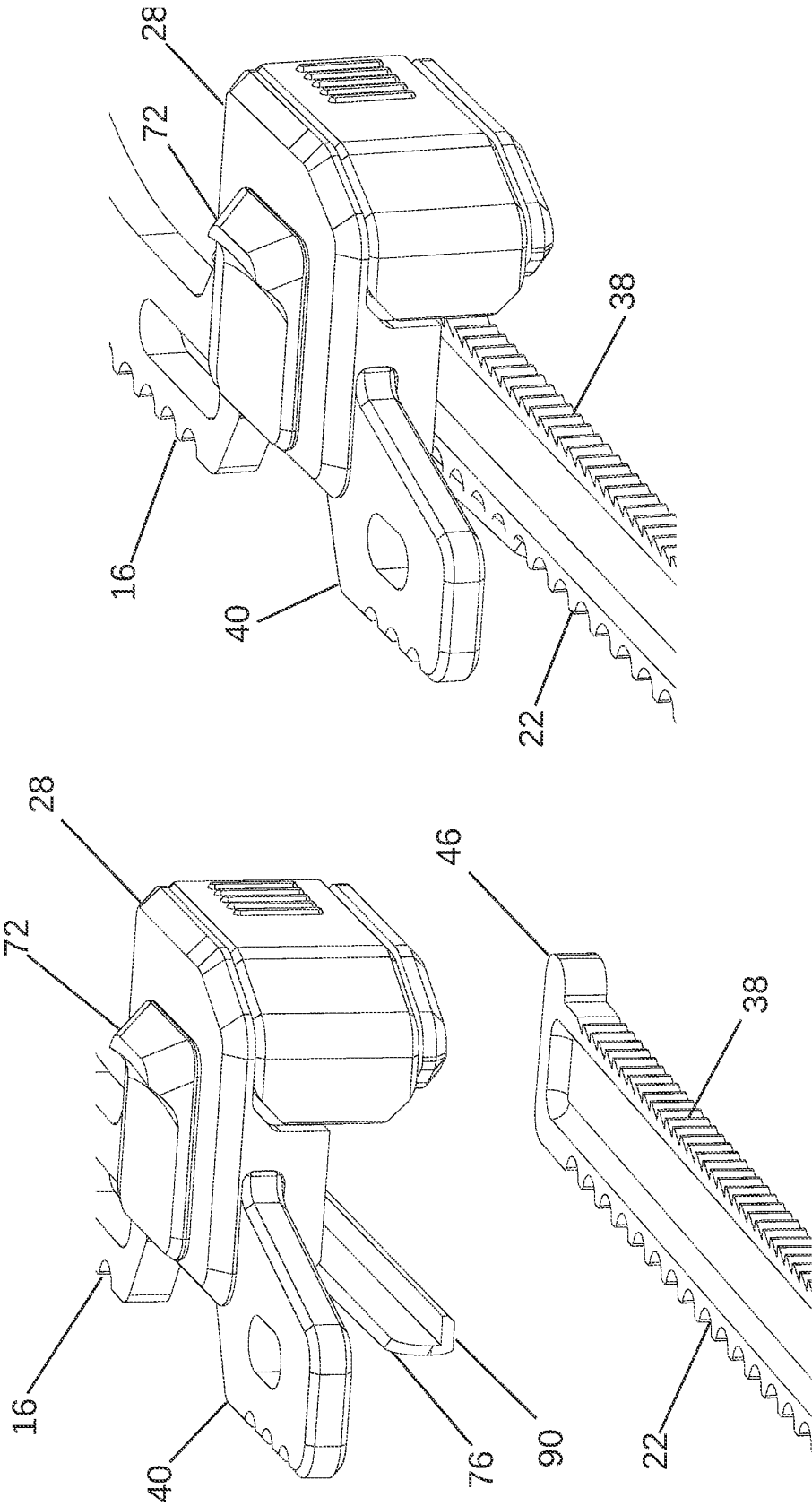


FIG. 16

FIG. 15

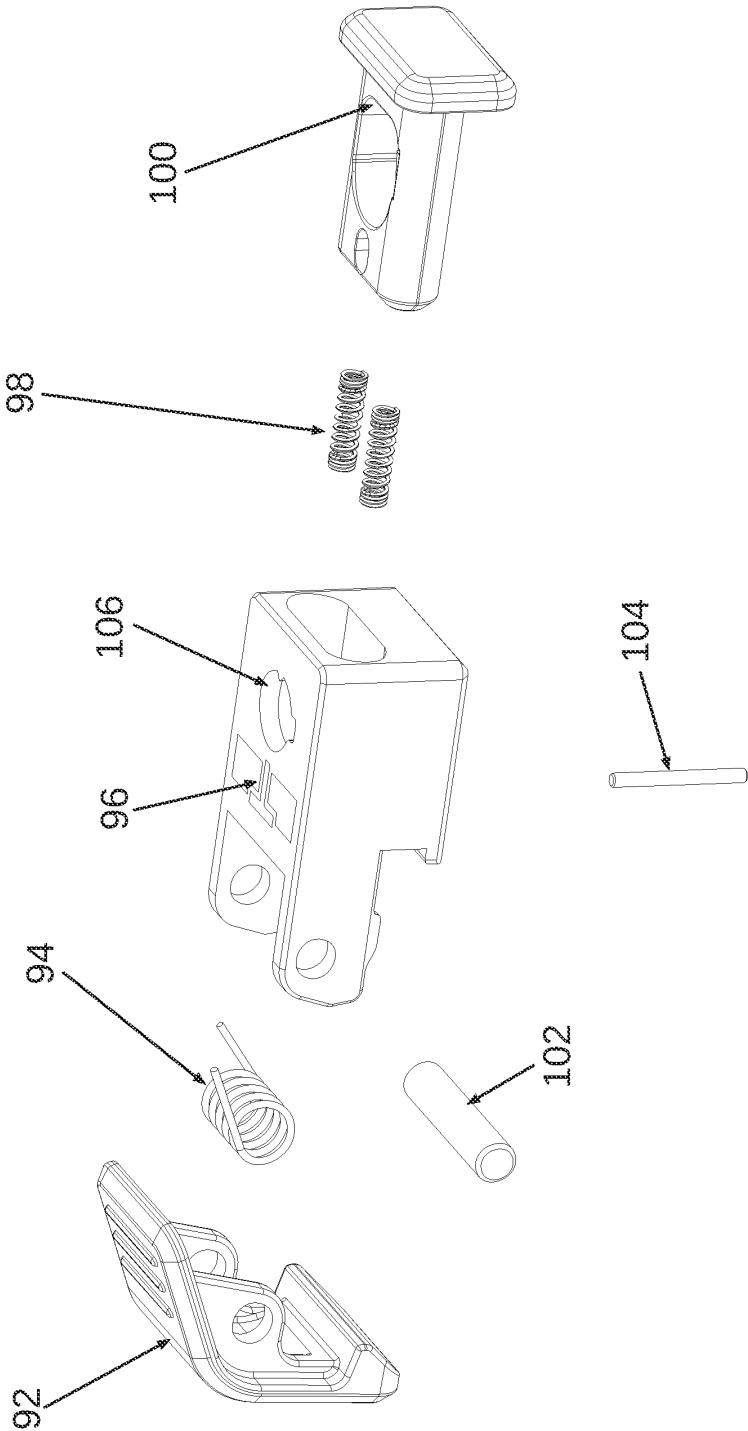


FIG. 17

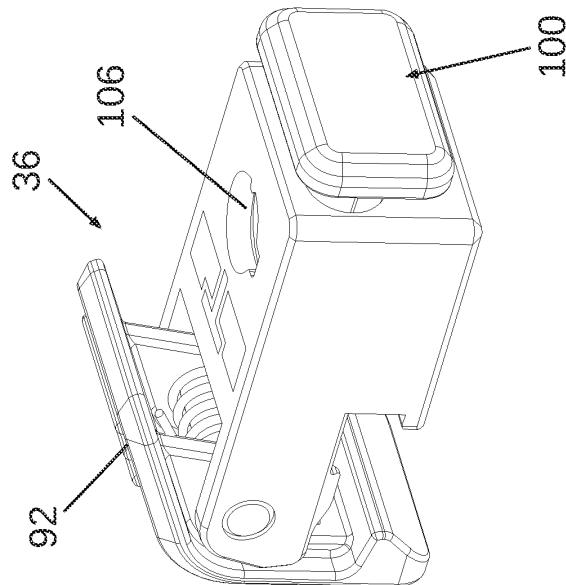
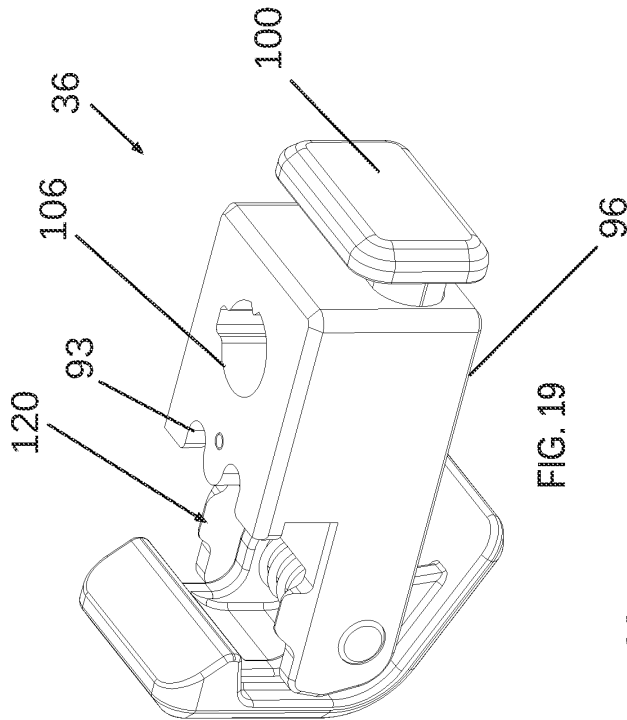


FIG. 18

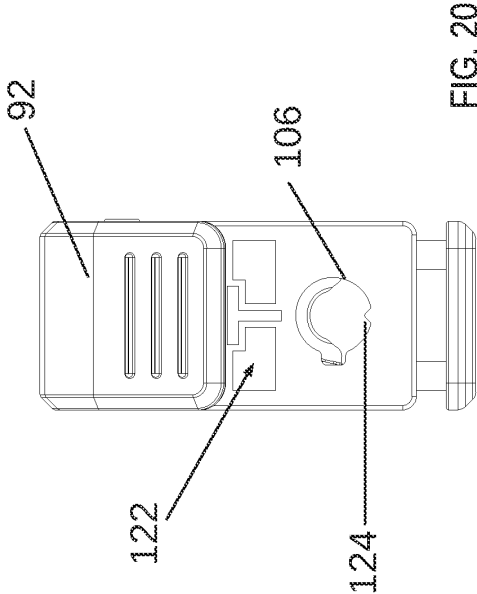
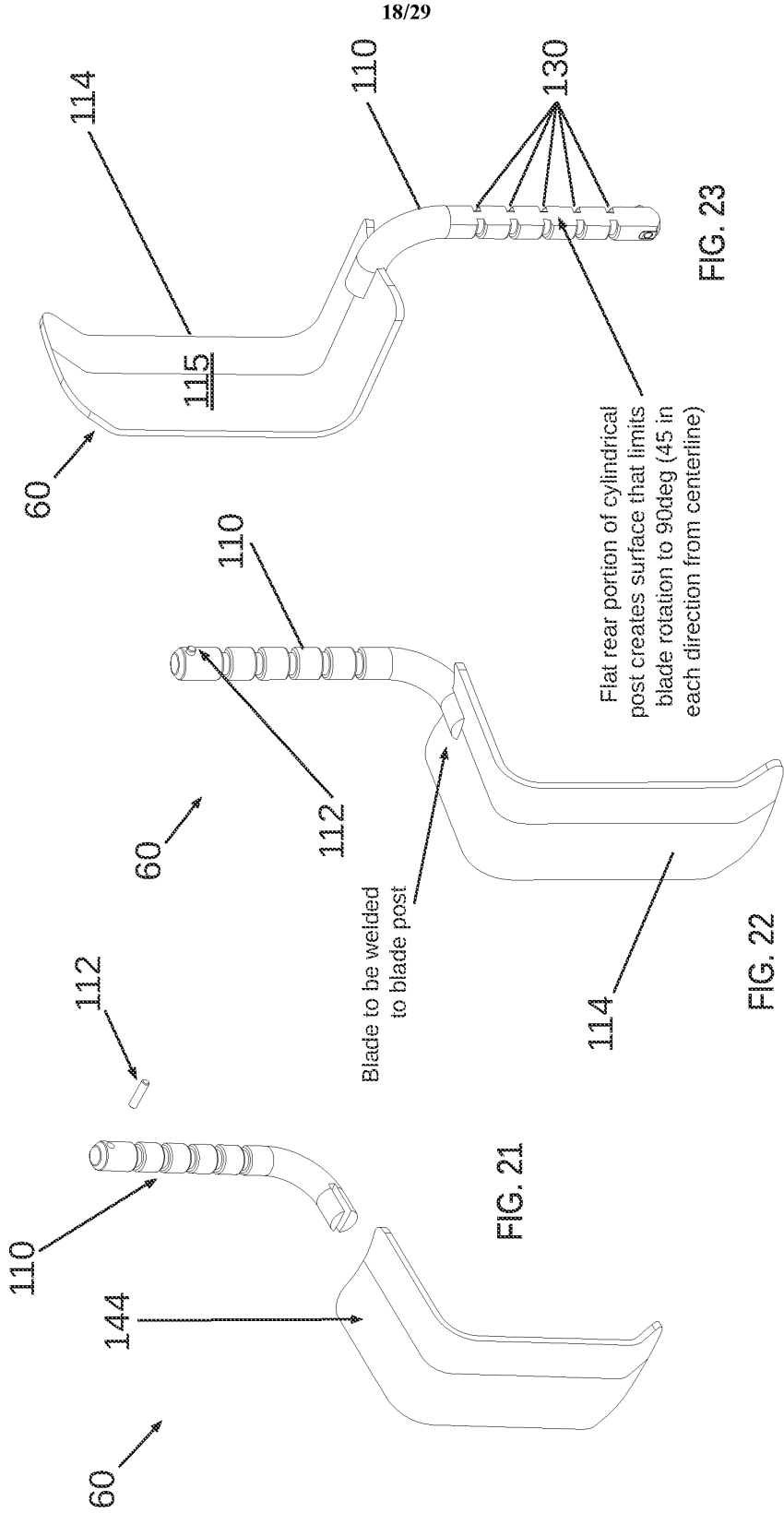


FIG. 20



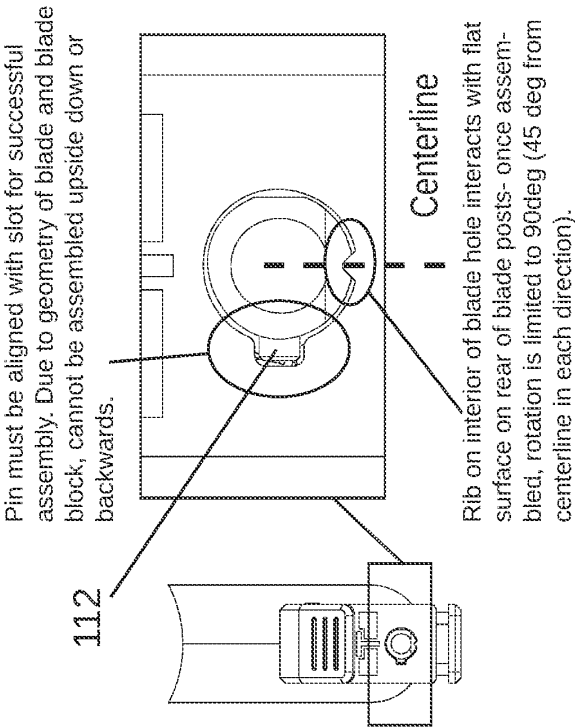


FIG. 25

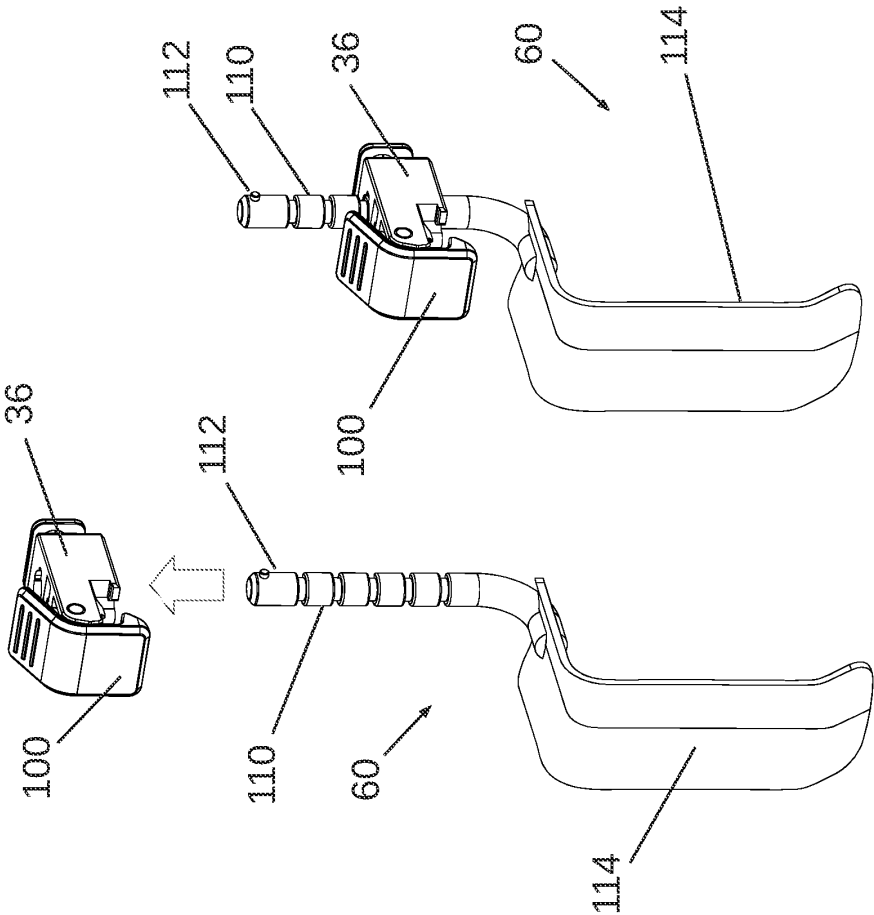


FIG. 24B

FIG. 24A

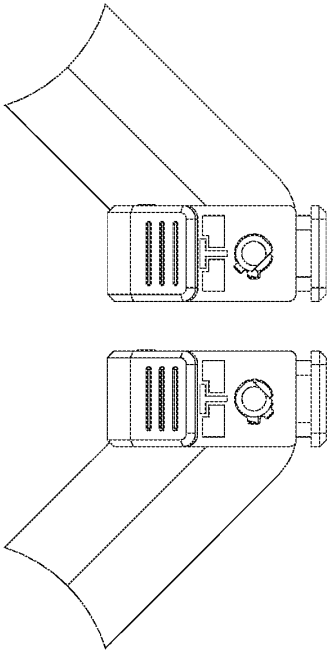
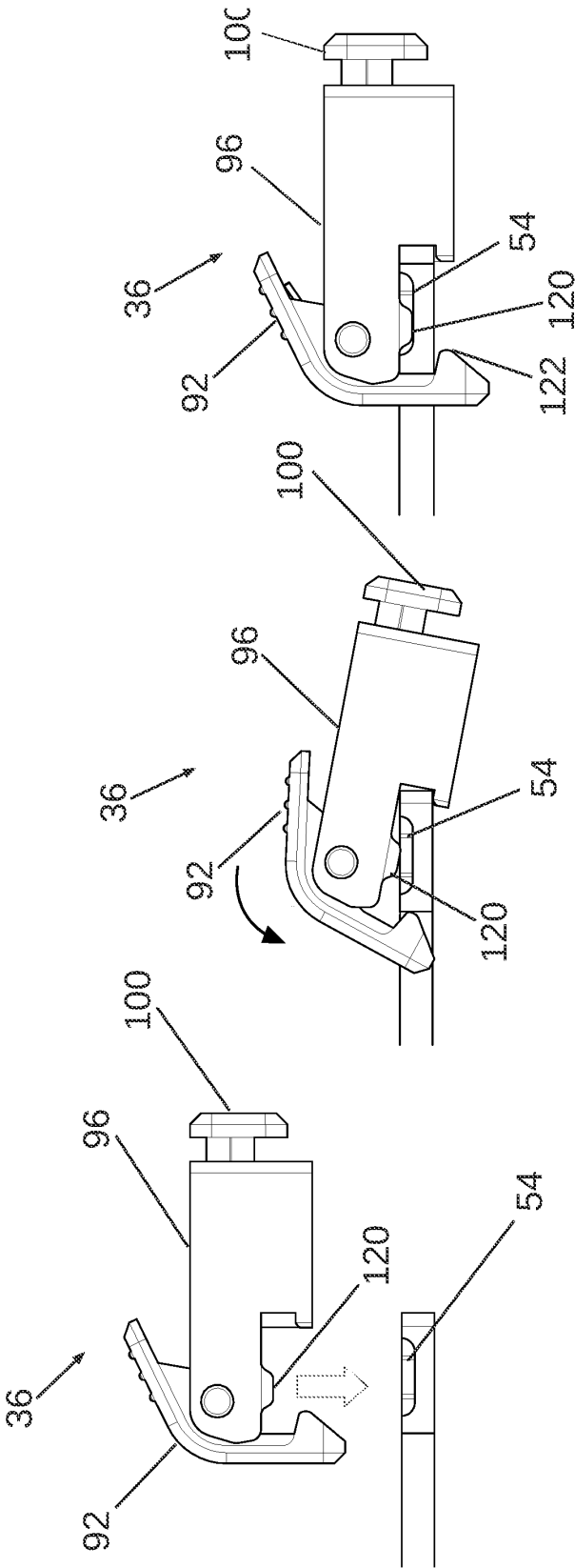


FIG. 26A

FIG. 26B



Blade block is positioned near indicated attachment.

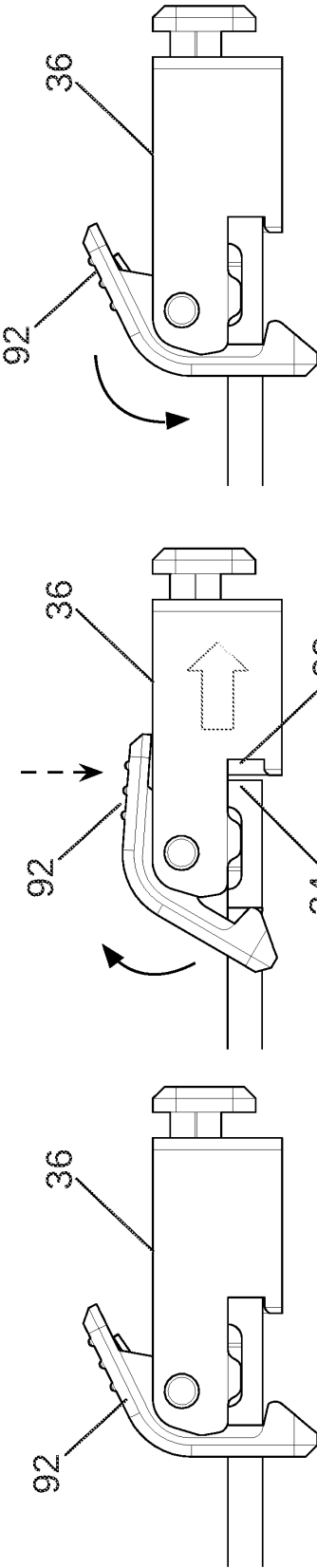
Blade block is angled onto arm, so that arm is inserted within inner ledge of blade block.
Blade block is rotated into place. Without actuating pivot button, blade block snaps onto arm.

When properly assembled, ridge on blade block nests into slot on arm and locks fully.
If blade block is assembled backwards, upside-down, or in incorrect position, lock will not engage.

FIG. 27A

FIG. 27B

FIG. 27C



Blade block in initial position.

Pivot button is actuated and blade block is shifted in direction 1, above. This allows clearance for the blade block to be slid along frame arm to desired position (does not need to be removed from framed).

Once is desired location, pivot button is released, snapping back into locking position.

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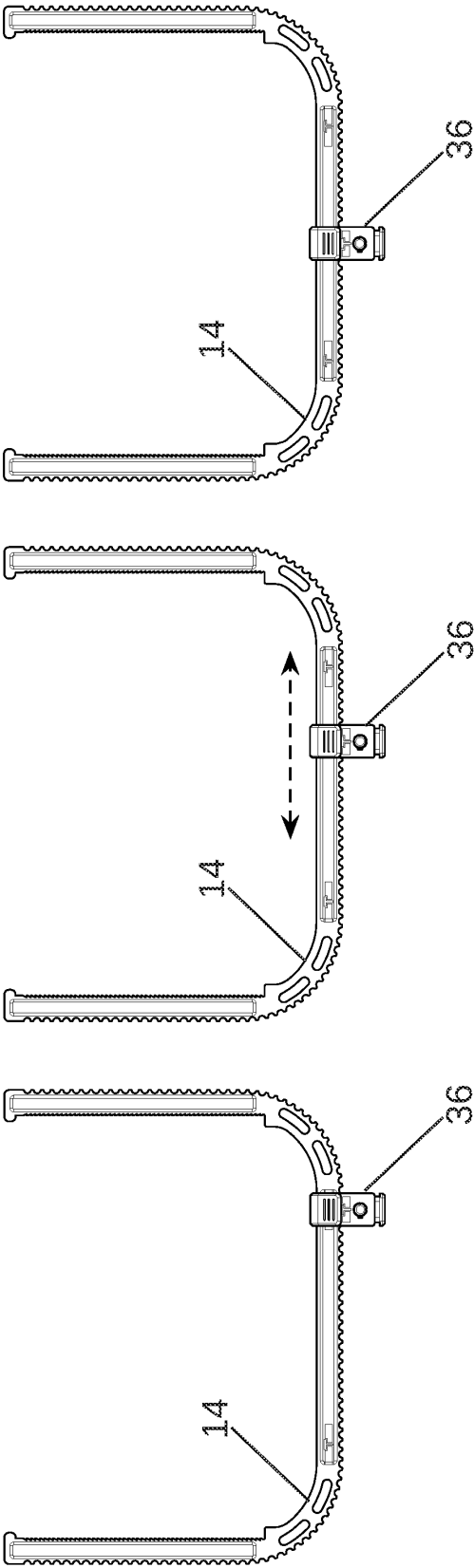


FIG. 28A

FIG. 28B

FIG. 28C

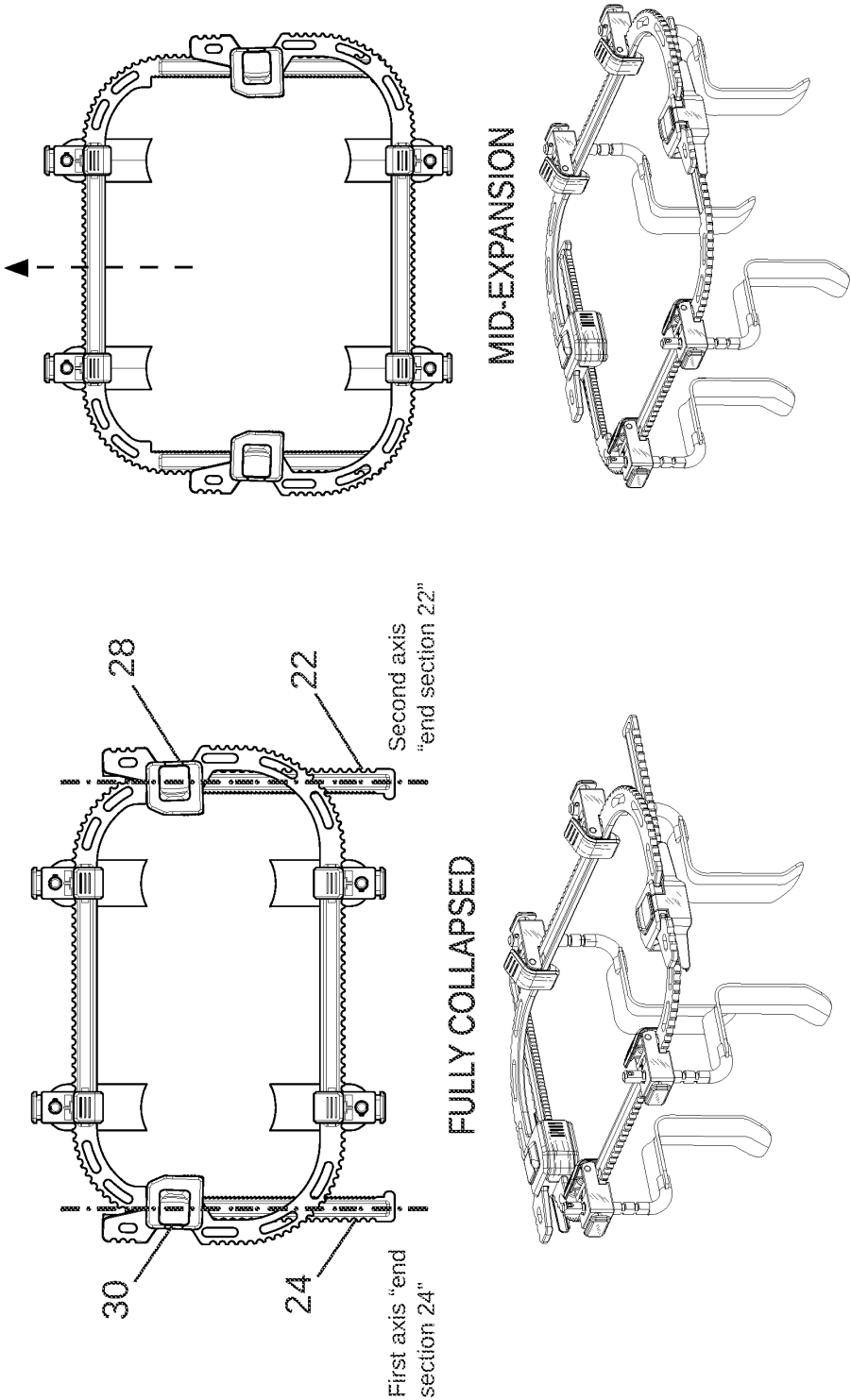
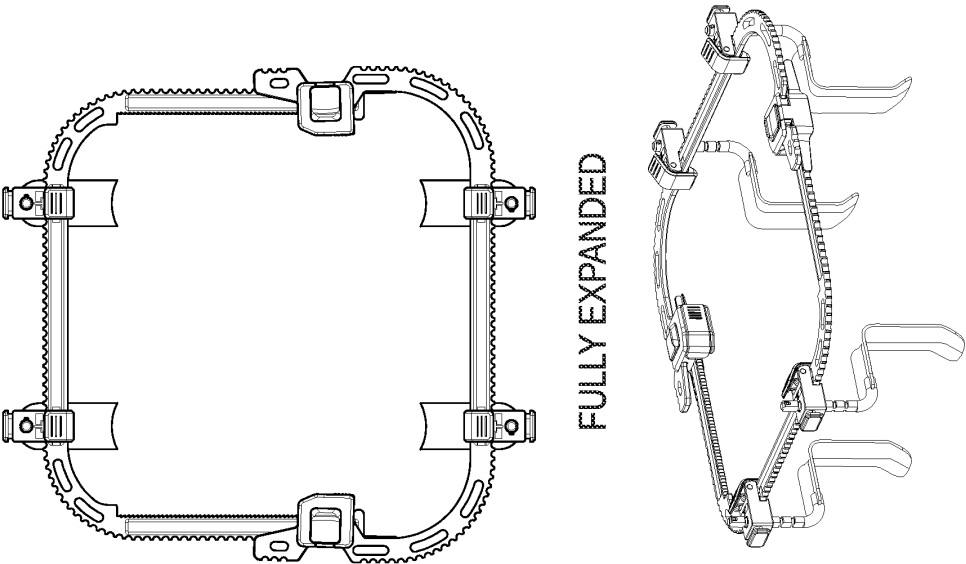
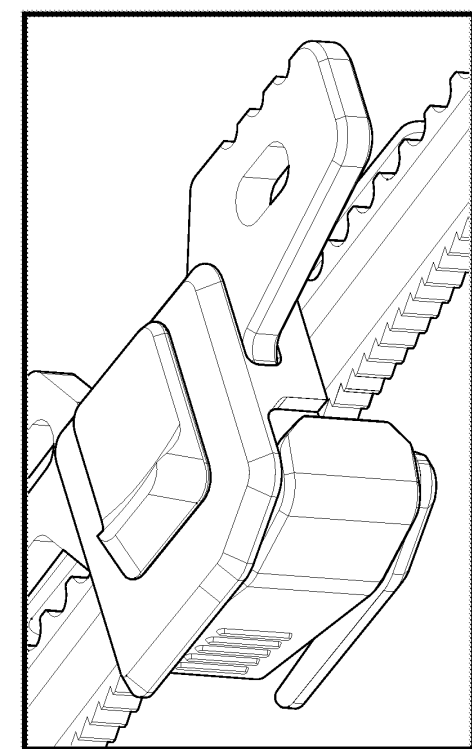


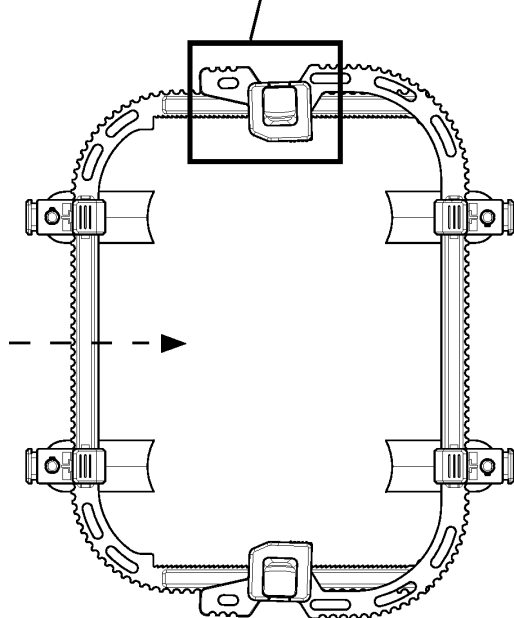
FIG. 29B

FIG. 29A





Ratchet button in "released" position;
Required to collapse system.



MID-EXPANDED

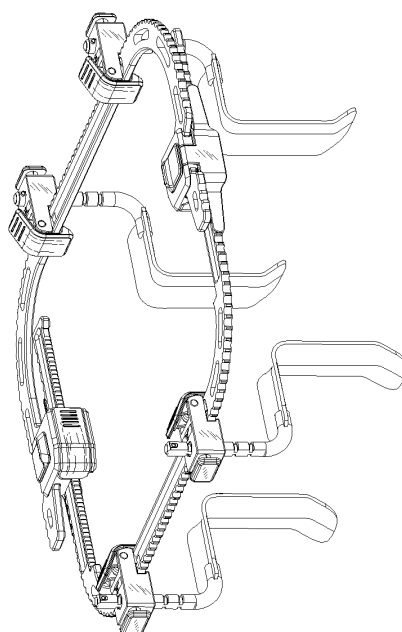
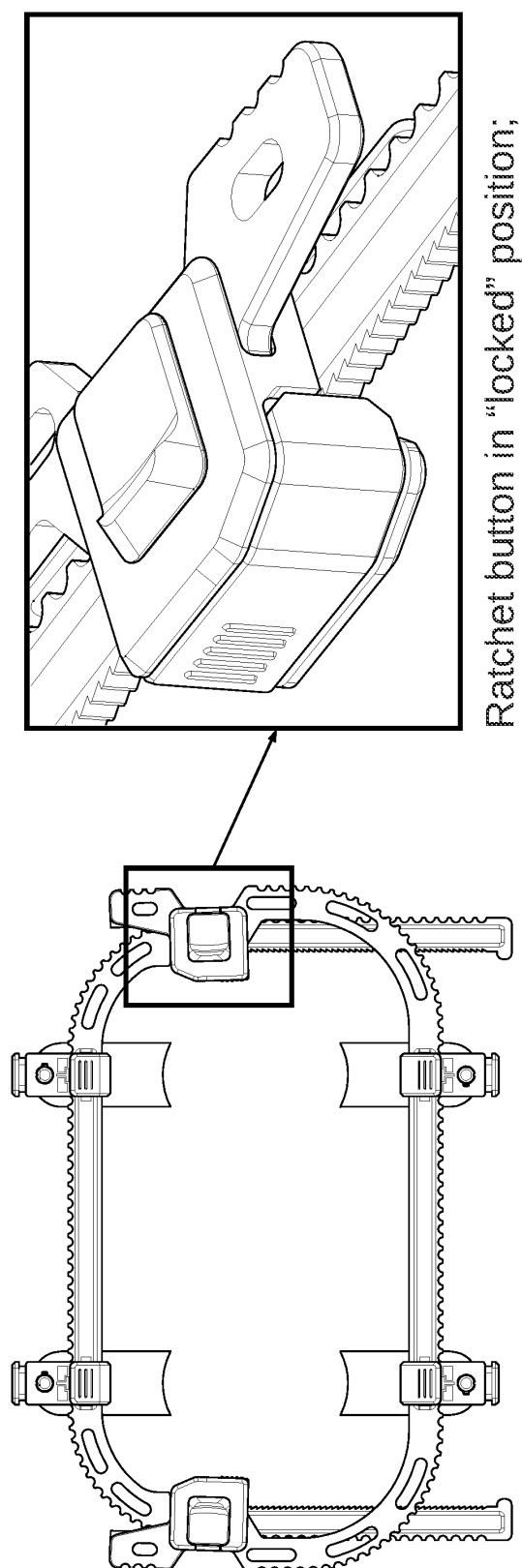


FIG. 30A



FULLY COLLAPSED

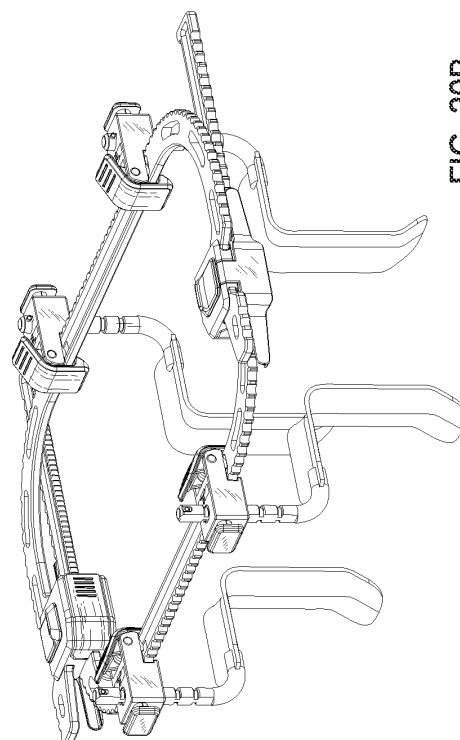
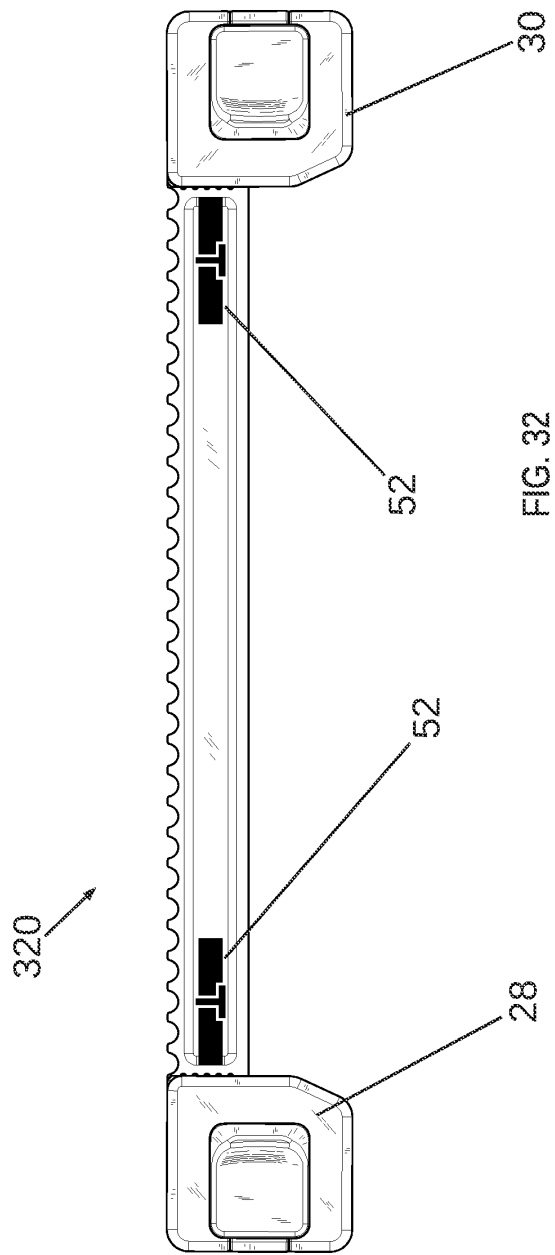
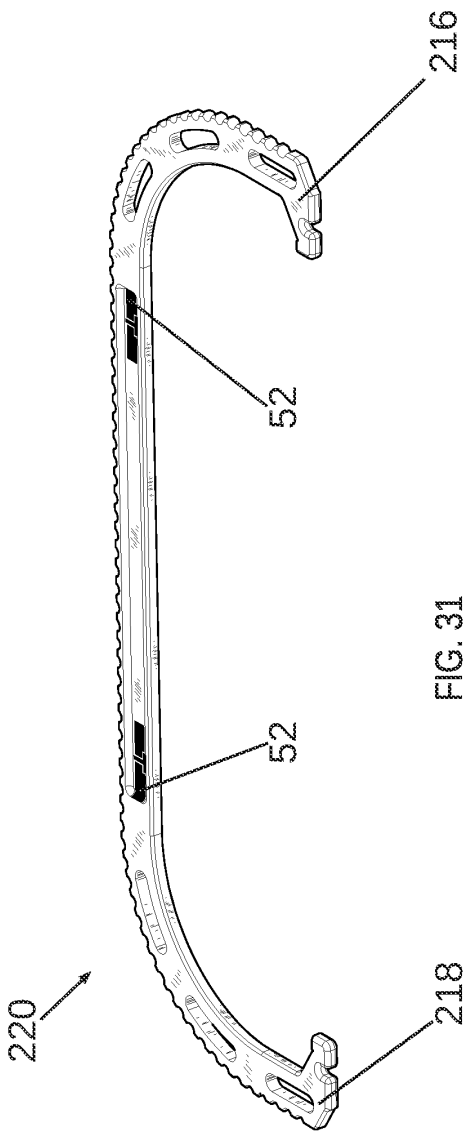


FIG. 30B



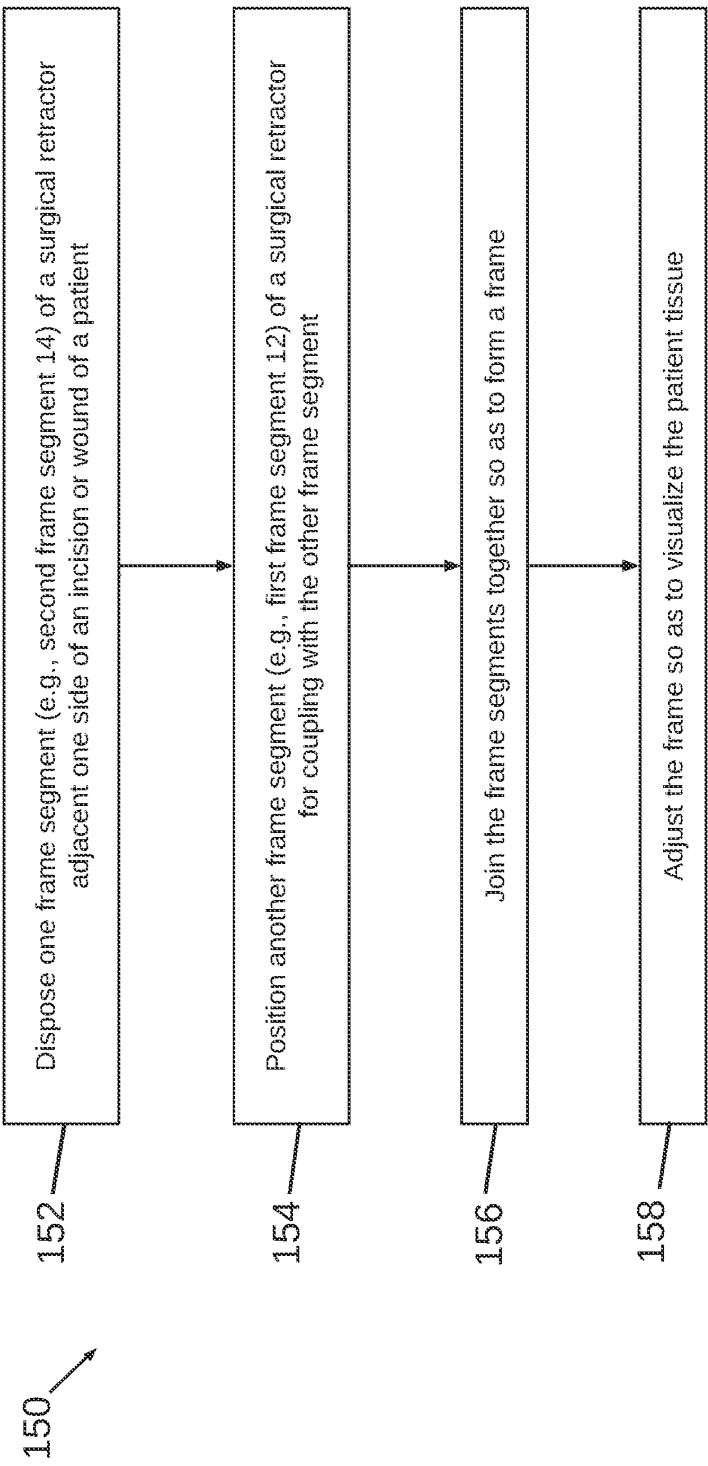


FIG. 33

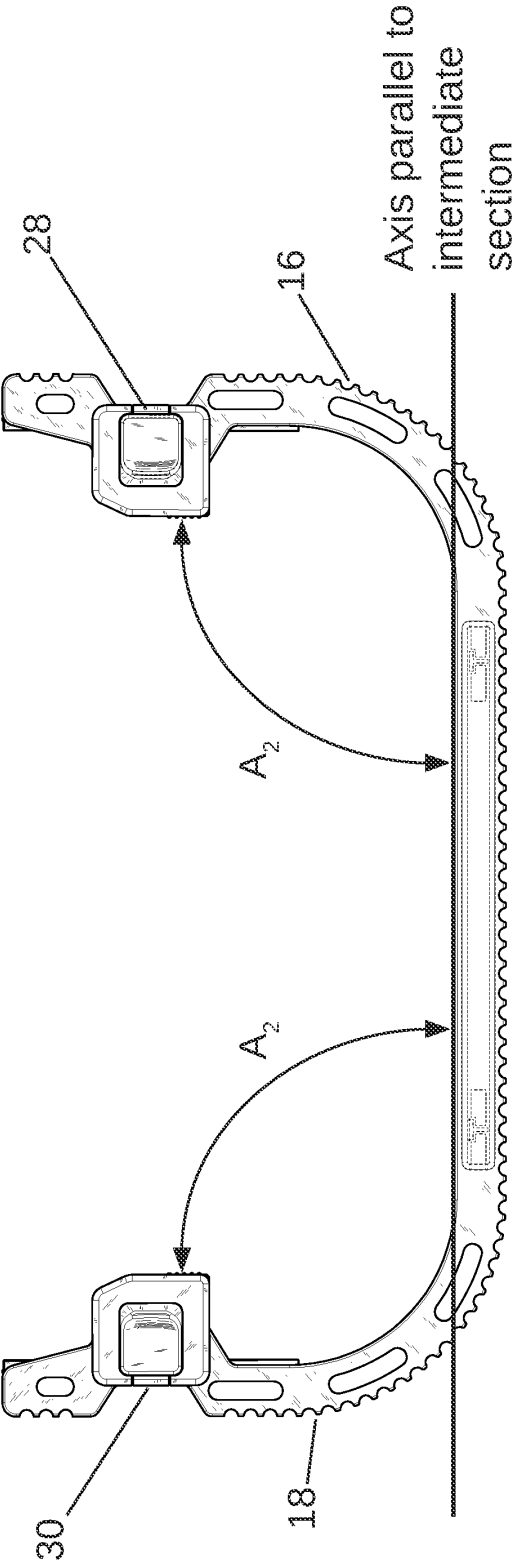


FIG. 34A

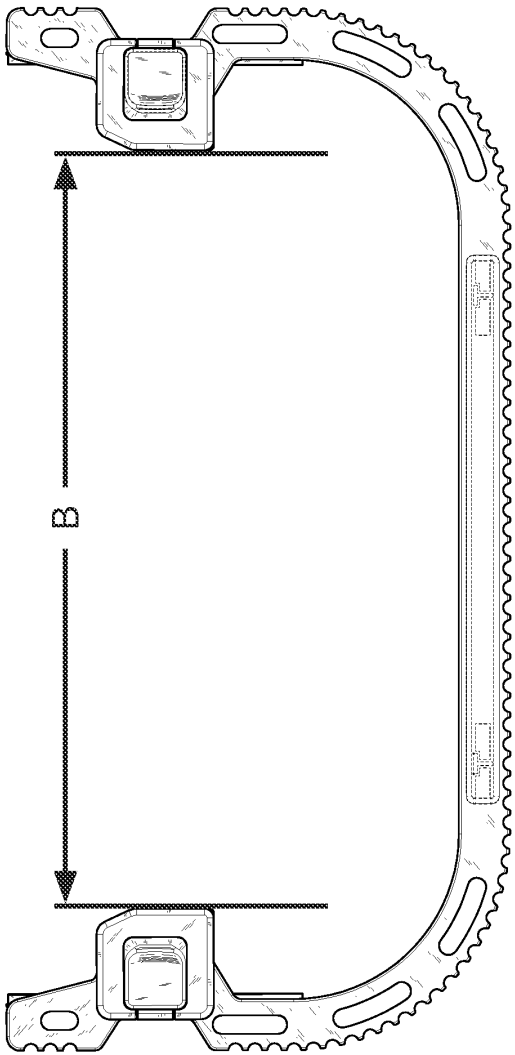


FIG. 34B

