
From: Eric Sugalski <eric@bostondevice.com>
Sent: Tuesday, May 3, 2011 4:29 PM CDT
To: Andy Moskowitz <andymoskow@gmail.com>
CC: David Schoon <dschoon@bostondevice.com>
Subject: Fusion Device Review
Attachments: 110503 Flexispine Review.pdf, 110503 fusion wedge.EASM

Hi Andy -

Attached are the following:

1. E-drawing of the updated wedge-based device with spikes. (Screw version not yet produced).
2. PDF describing some of the changes in the wedge-based device; ALSO 5 Sketch-level concepts of alternative expanding fusion devices.

It would be best if we could review these materials via web conference so that we could explain certain details to you that may not immediately be clear. Please let me know if you and your father have time for a brief chat in the next couple of days.

Thanks,

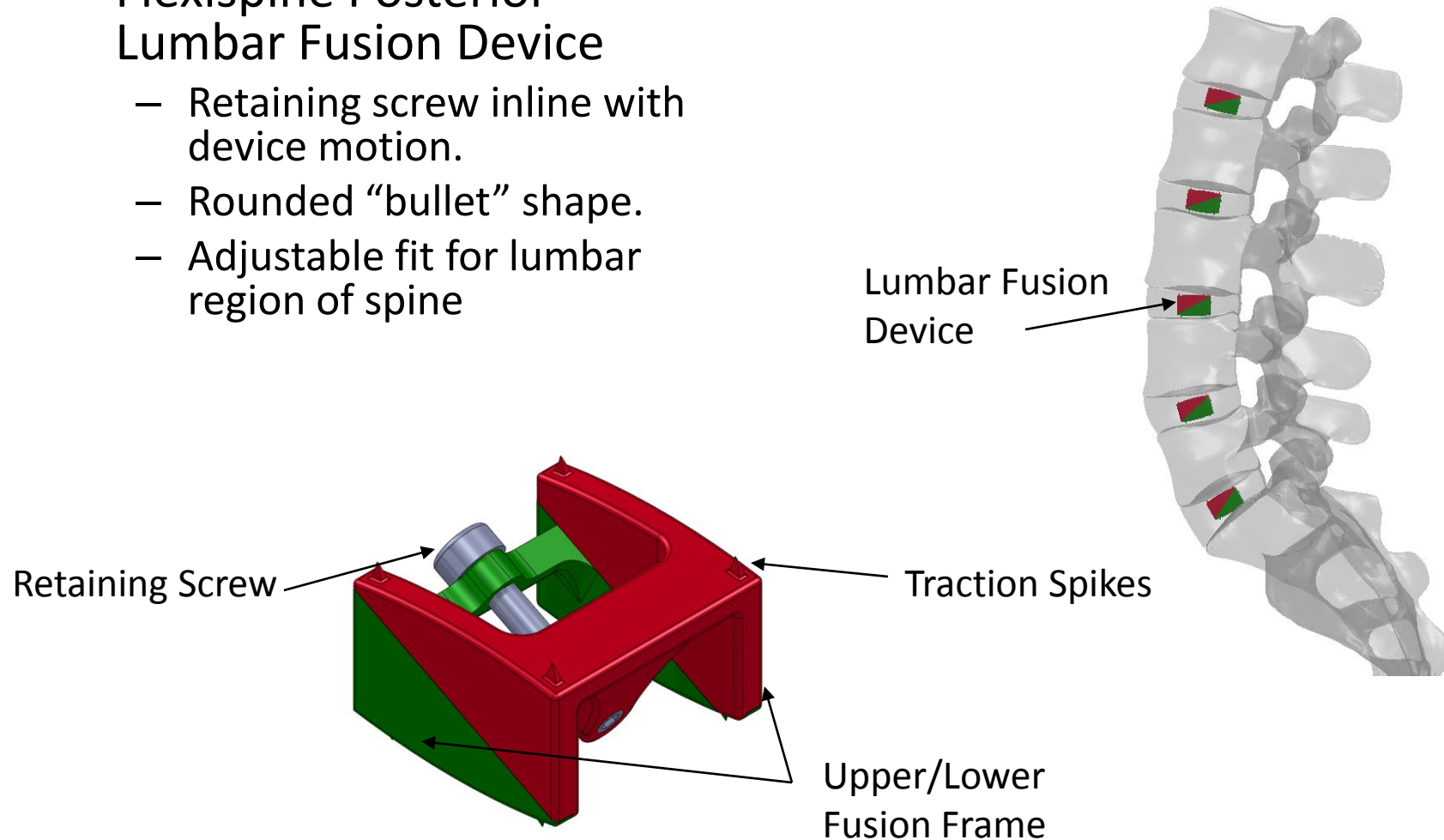
Eric

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Eric Sugalski
Boston Device Development, Inc
office - (617) 279-0057 x703
mobile - (617) 852-6622
www.bostondevice.com

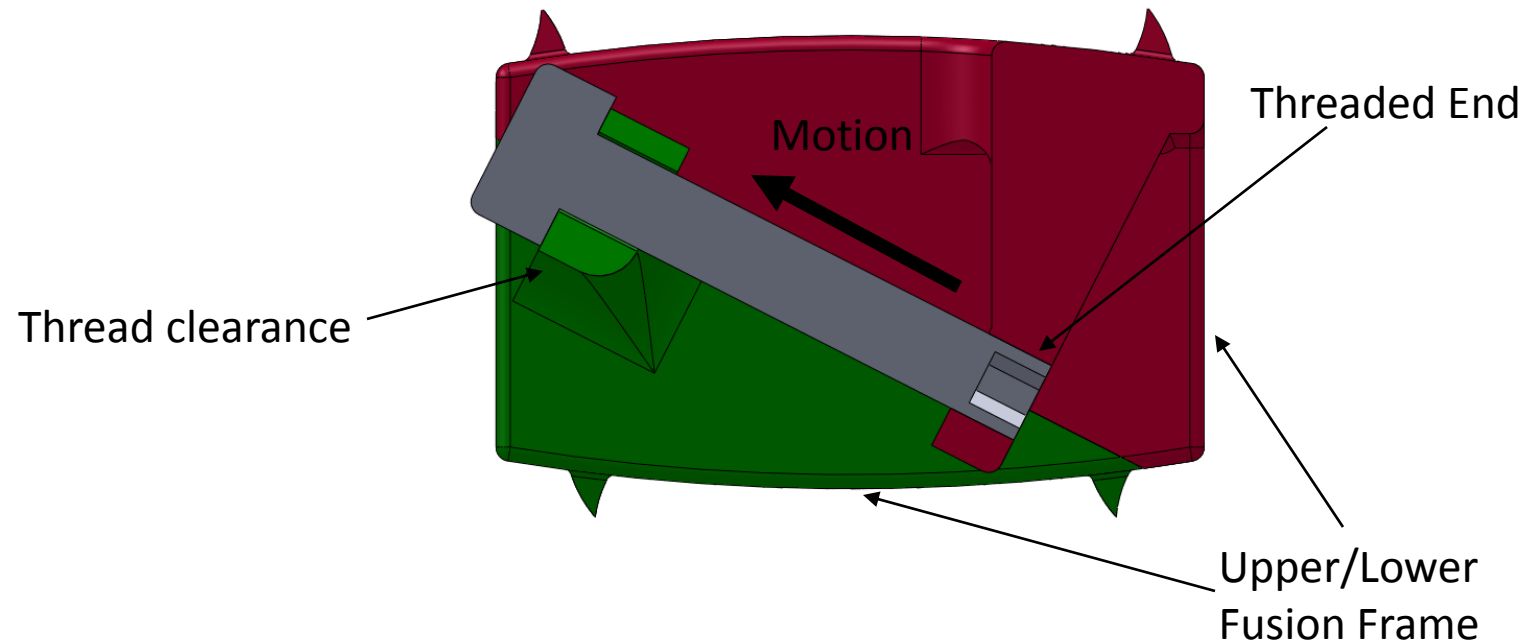
Flexispine Review – 05/03/11

- Flexispine Posterior Lumbar Fusion Device
 - Retaining screw inline with device motion.
 - Rounded “bullet” shape.
 - Adjustable fit for lumbar region of spine



Flexispine Review
05/03/2011

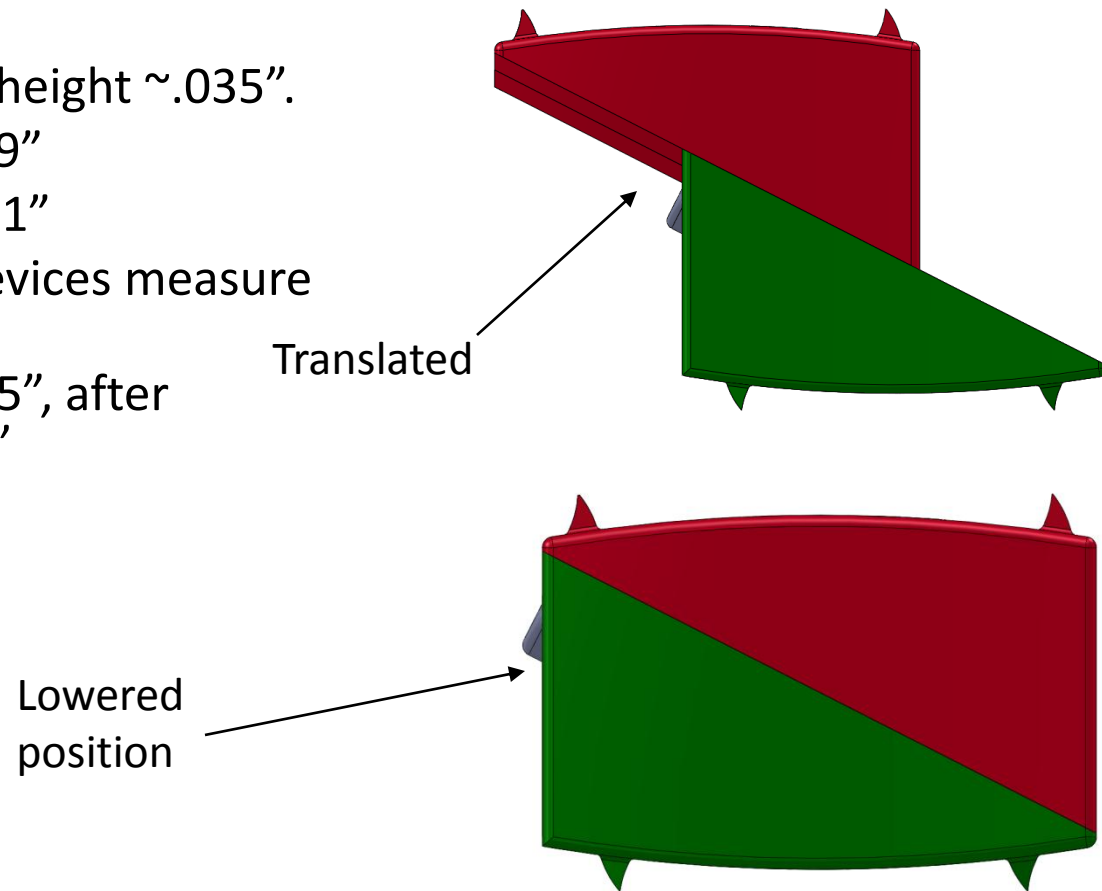
Flexispine Review – 05/03/11



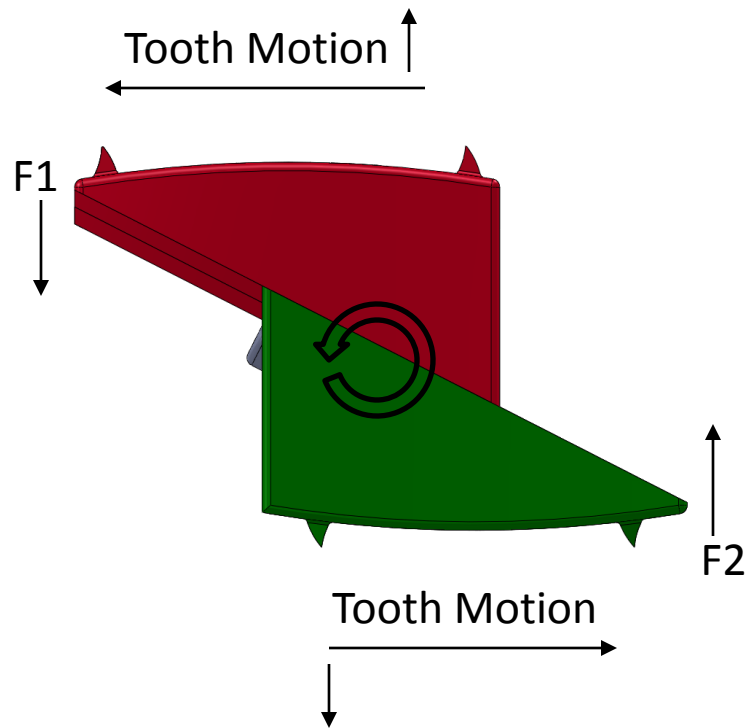
Flexispine Review – 05/03/11

- Flexispine Posterior Lumbar Fusion Device

- Traction tooth height $\sim .035''$.
- Height min $.359''$
- Height max $.471''$
- Fixed height devices measure $.406''$
- Device length $.5''$, after translation $.75''$
- Width $.512''$

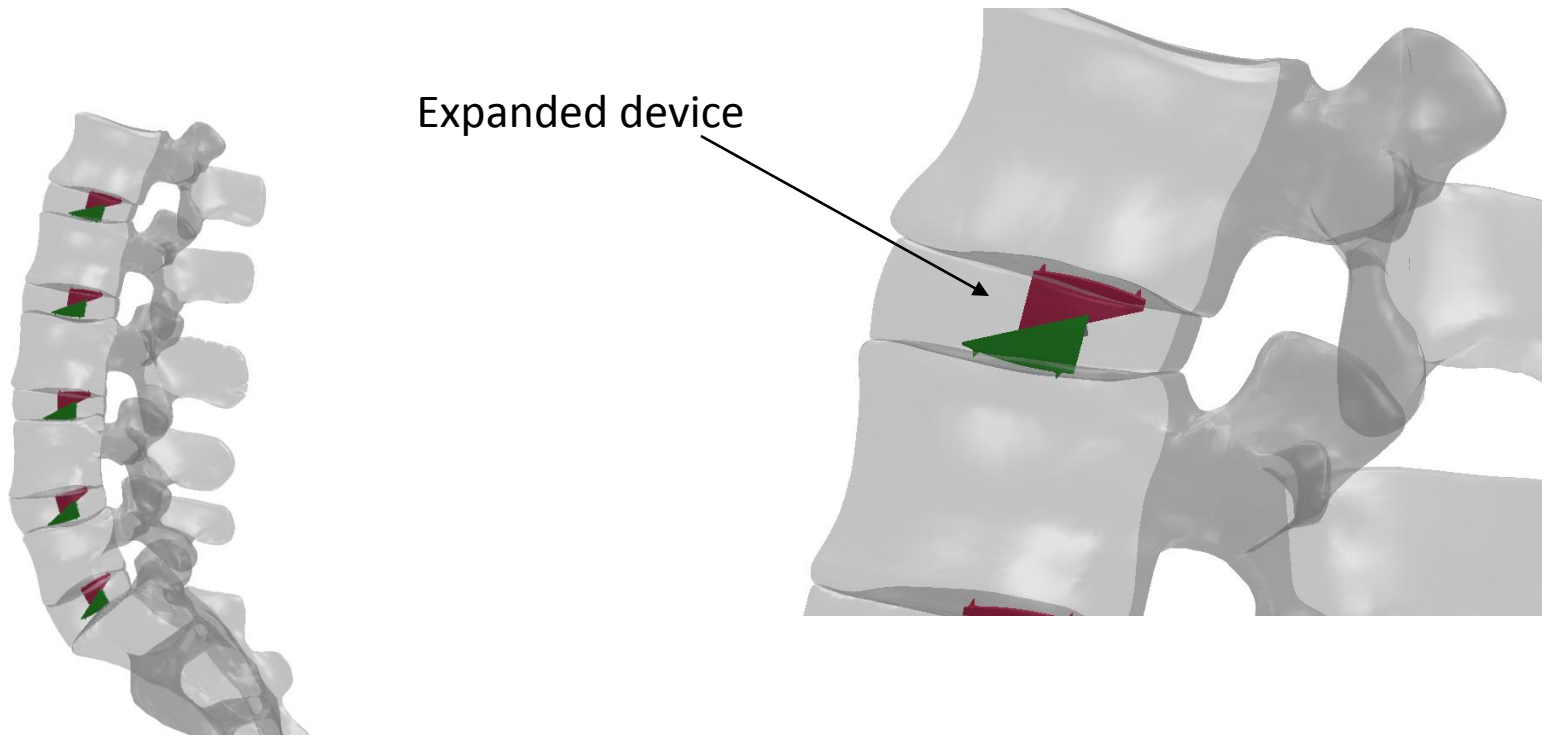


Flexispine Review – 05/03/11



- Flexispine Posterior Lumbar Fusion Device
 - Teeth move horizontally and vertically. Would drag against bone.
 - Translating body can be unstable dependent upon load conditions.

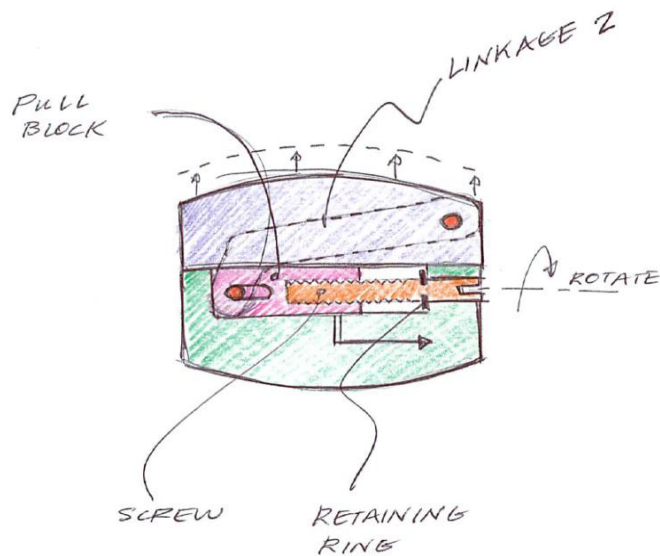
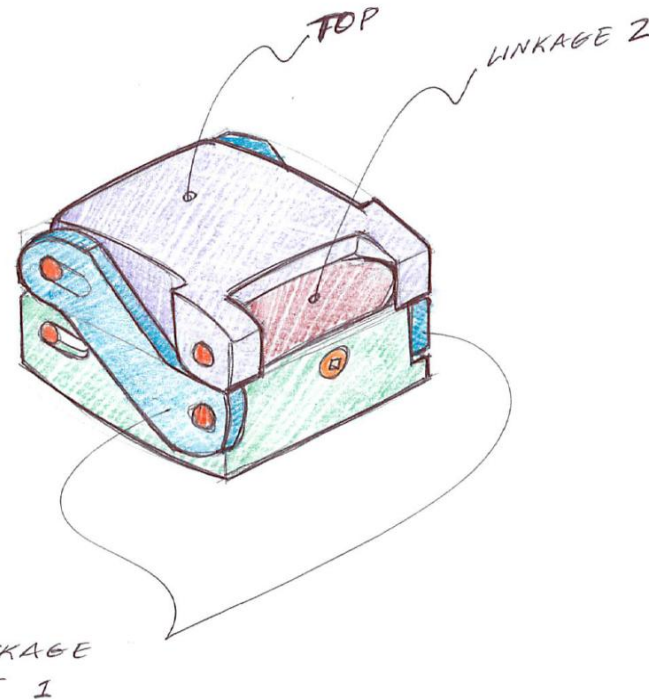
Flexispine Review – 05/03/11



Flexispine Review – 05/03/11

SCISSOR JACK

* SCREW DRIVES PULL-BLOCK WHICH
FORCES LINKAGES TO EXPAND. TOP
& BOTTOM SEPARATE IN PARALLEL
MOTION.



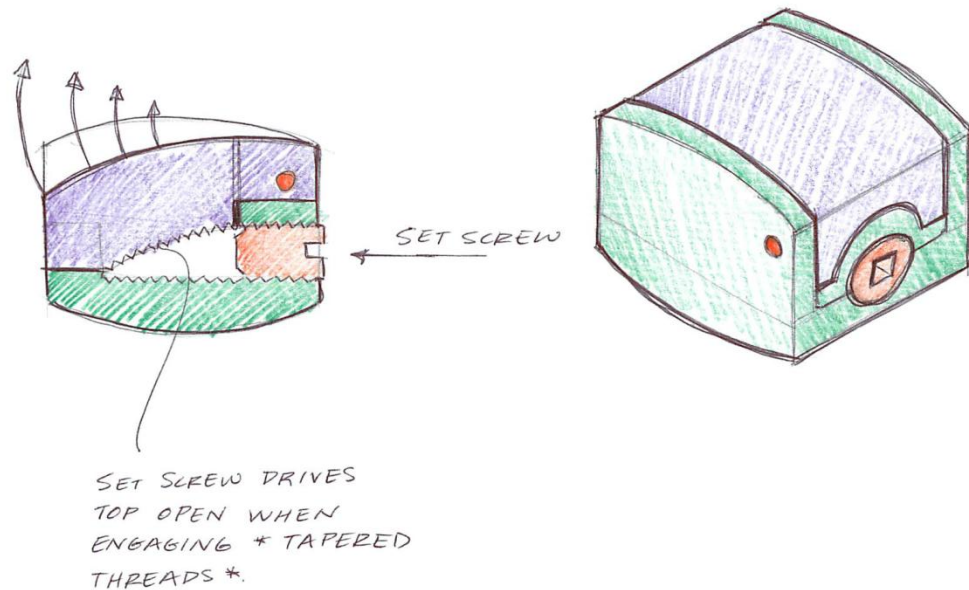
SS 5/2/11



Flexispine Review
05/03/2011

Flexispine Review – 05/03/11

TAPERED THREADS

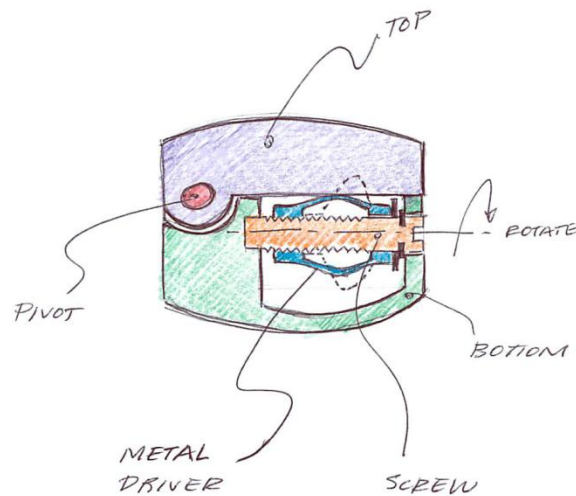
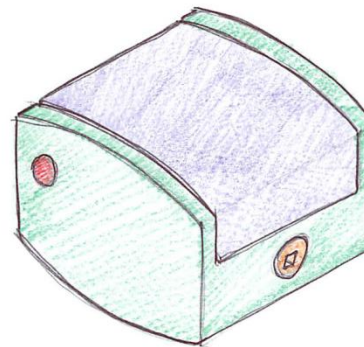


CS 5/2/11

Flexispine Review – 05/03/11

DRYWALL ANCHOR

SS 5/2/11

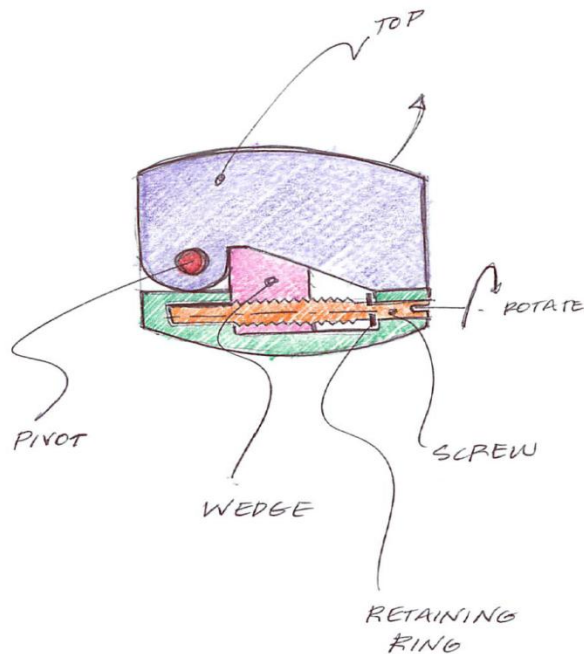
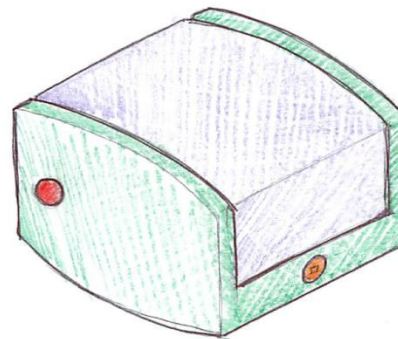


AS SCREW IS ROTATED, METAL DRIVER BUCKLES AND EXPANDS RADIALLY. THIS FORCES TOP TO PIVOT AWAY FROM BOTTOM.

Flexispine Review – 05/03/11

MODIFIED WEDGE

USER ROTATES SCREW, WHICH
DRIVES WEDGE AXIALLY, FORCING
TOP TO PIVOT UPWARD



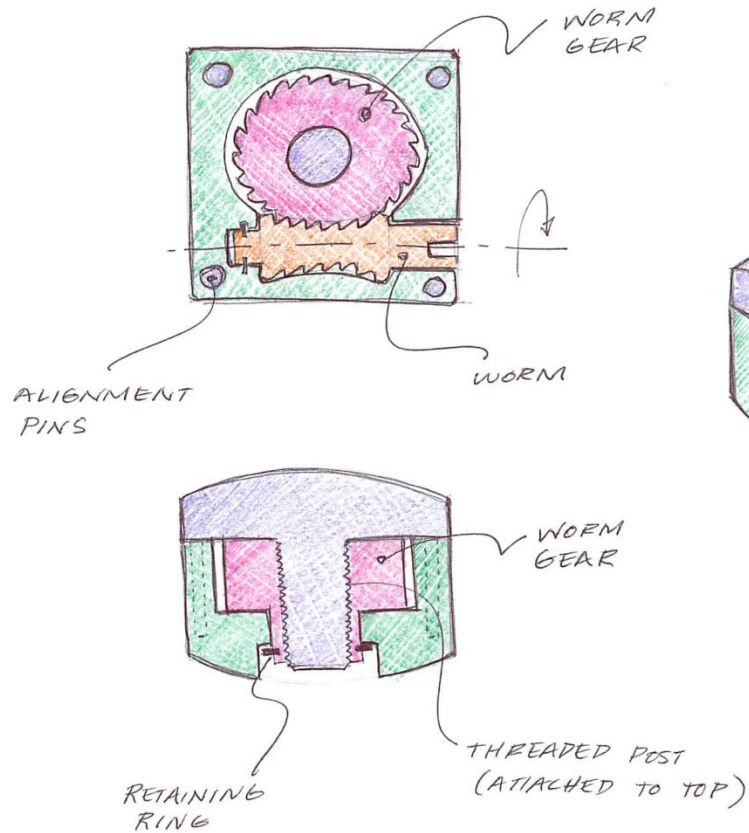
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Flexispine Review
05/03/2011

Flexispine Review – 05/03/11

WORM DRIVE



WORM GEAR IS DRIVEN BY
USER ROTATING WORM. AS
WORM GEAR IS ROTATED,
THREADED POST ON TOP
IS FORCED UPWARD. IN
PARALLEL MOTION.

CG 5/2/11