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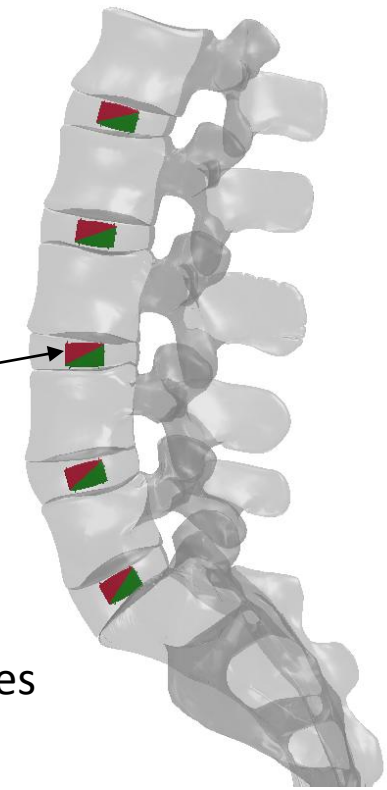
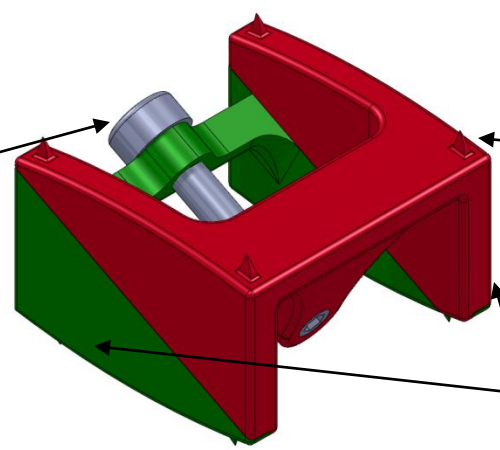
Eric Sugalski
Boston Device Development, Inc
office - (617) 279-0057 x703
mobile - (617) 852-6622
www.bostondevice.com

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

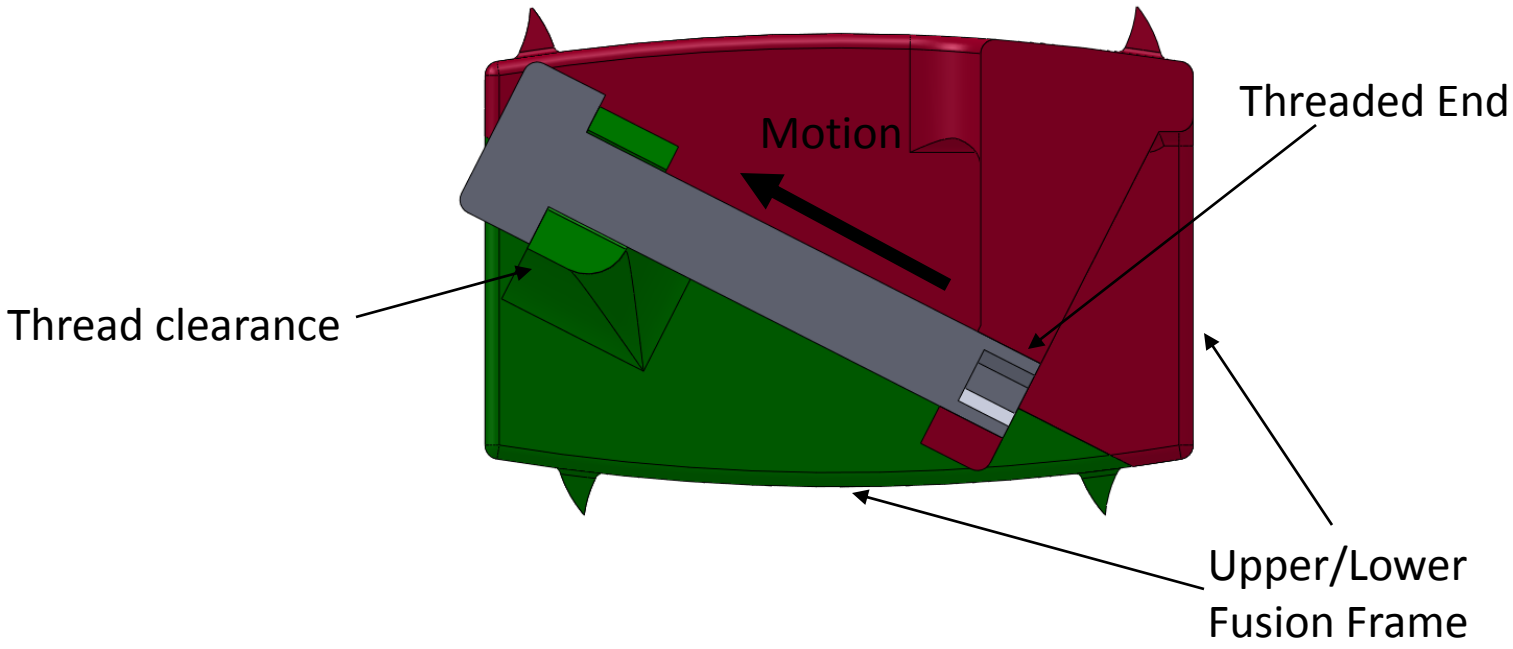




BOSTONDEVICE DEVELOPMENT

Moskowitz Exhibit 2027,
Medtronic v. Moskowitz IPR2026-00216 p. 2
MOSKOWITZ-00084853

Flexispine Review – 05/03/11

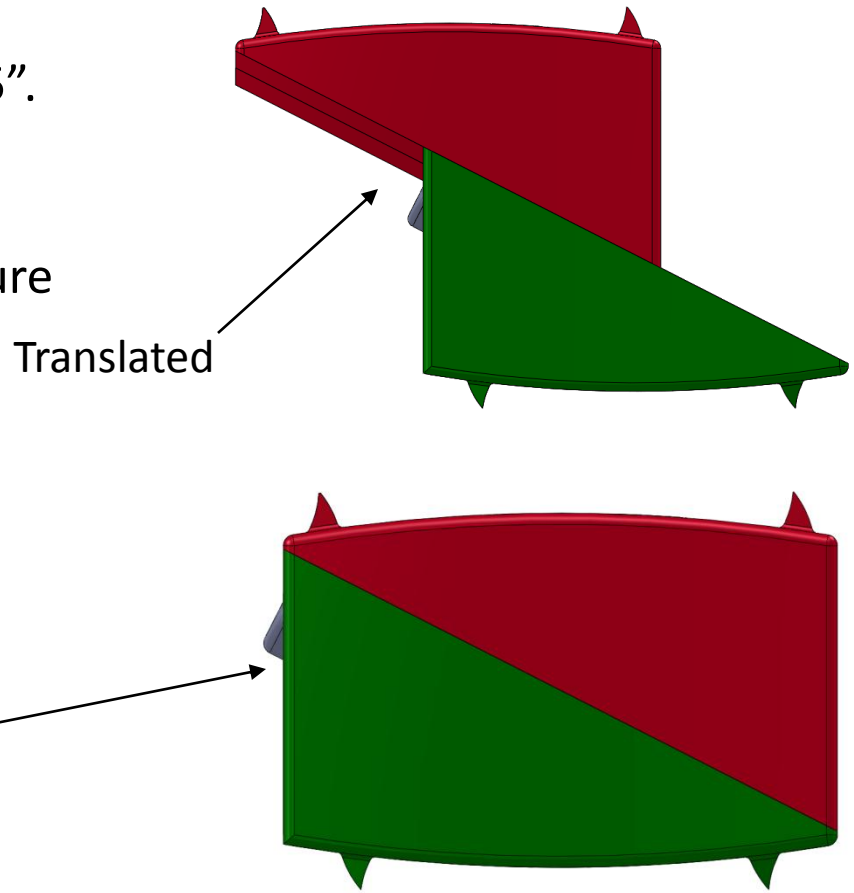


BOSTONDEVICE DEVELOPMENT

Moskowitz Exhibit 2027,
Medtronic v. Moskowitz IPR2026-00216 p. 3
MOSKOWITZ-00084854

Flexispine Review – 05/03/11

- Flexispine Posterior Lumbar Fusion Device
  - Traction tooth height ~.035”.
  - Height min .359”
  - Height max .471”
  - Fixed height devices measure .406”
  - Device length .5”, after translation .75”
  - Width .512”



BOSTONDEVICE DEVELOPMENT

Moskowitz Exhibit 2027,
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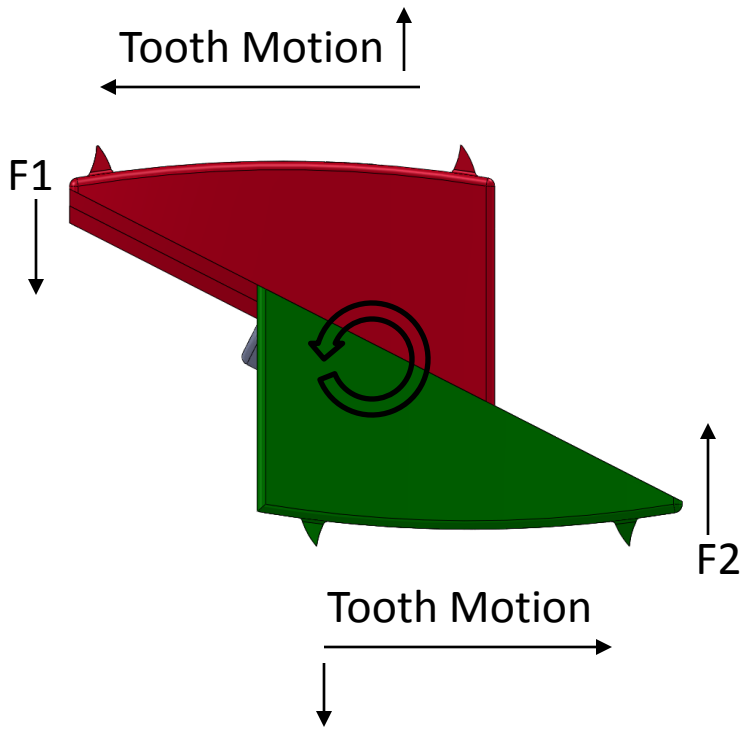
MOSKOWITZ-00084855

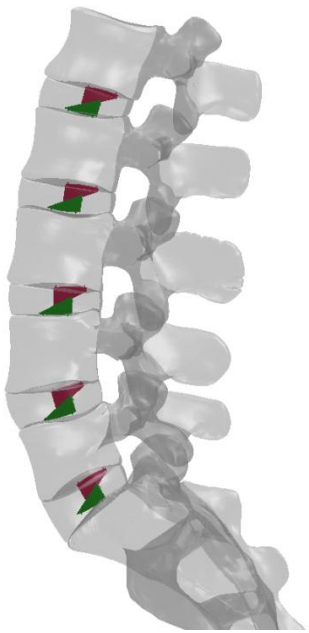
Flexispine Review – 05/03/11



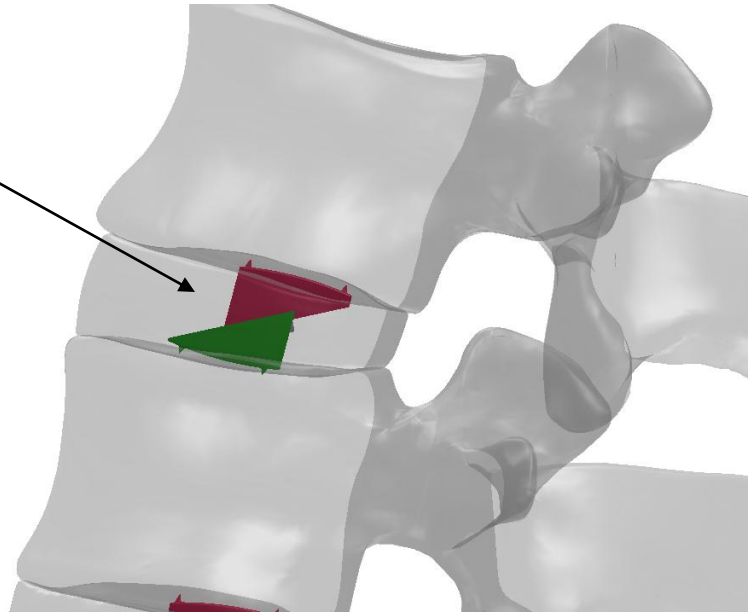
- Flexispine Posterior Lumbar Fusion Device
  - Teeth move horizontally and vertically. Would drag against bone.
  - Translating body can be unstable dependent upon load conditions.

Moskowitz Exhibit 2027,
Medtronic v. Moskowitz IPR2026-00216 p. 5
MOSKOWITZ-00084856

Flexispine Review – 05/03/11



Expanded device



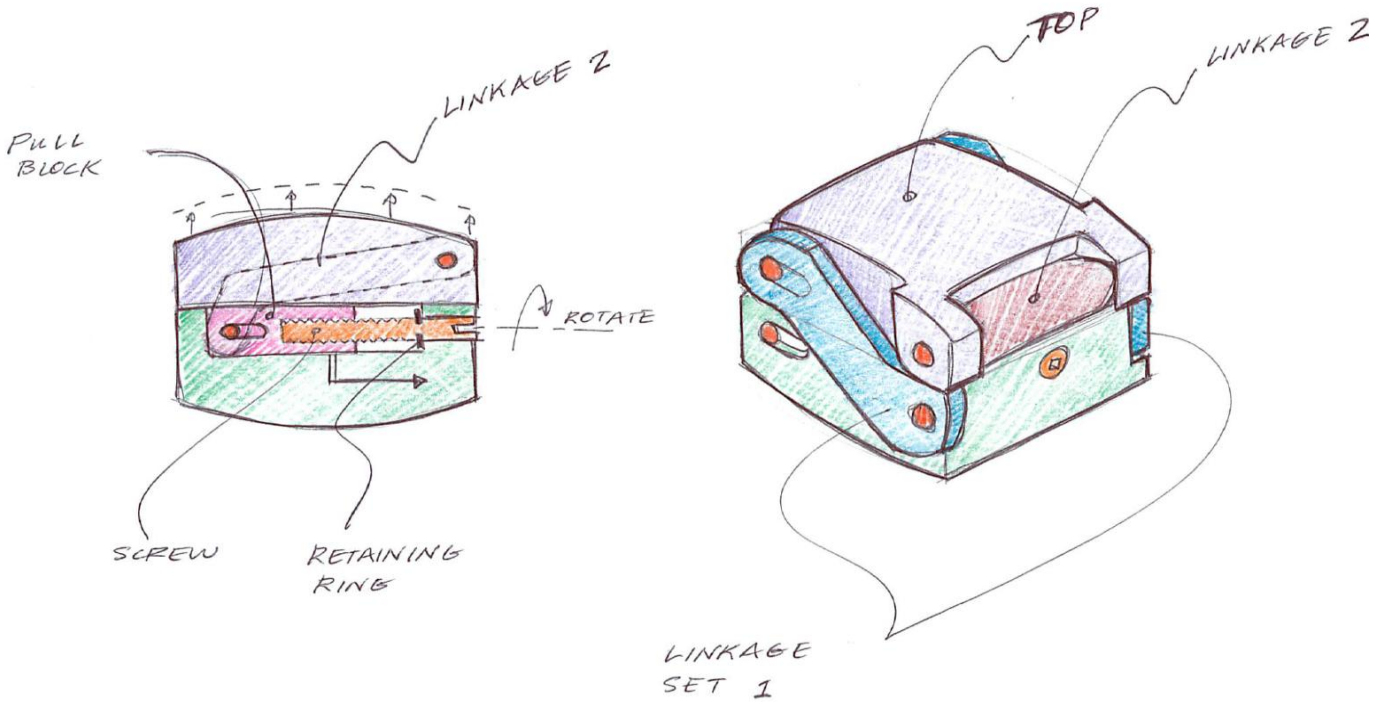
BOSTONDEVICE DEVELOPMENT

Moskowitz Exhibit 2027,
Medtronic v. Moskowitz IPR2026-00216 p. 6
MOSKOWITZ-00084857

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

BOSTONDEVICE DEVELOPMENT

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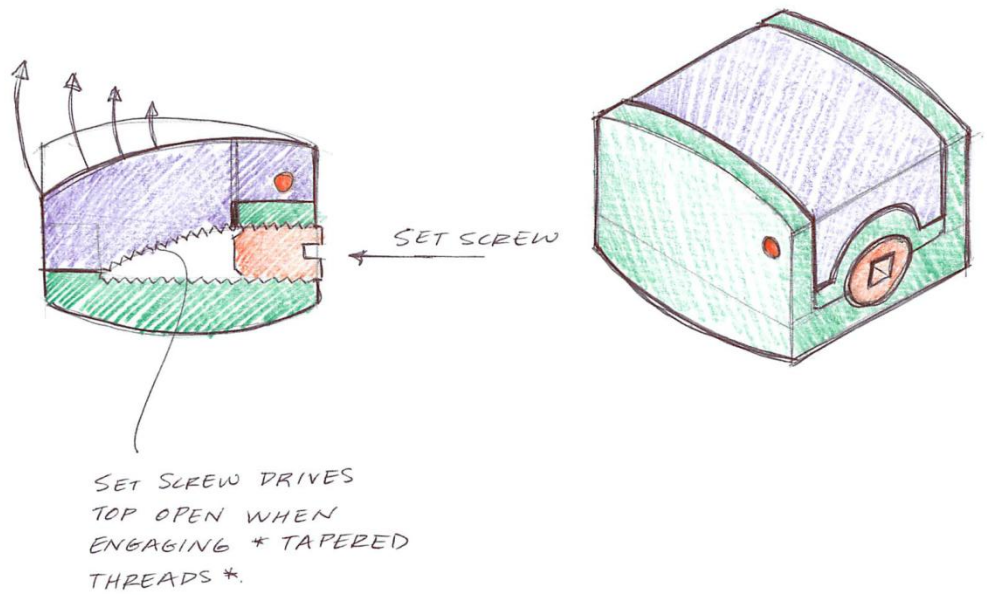
MOSKOWITZ-00084858

Flexispine Review – 05/03/11

TAPERED THREADS



GS 5/2/11

BOSTONDEVICE DEVELOPMENT

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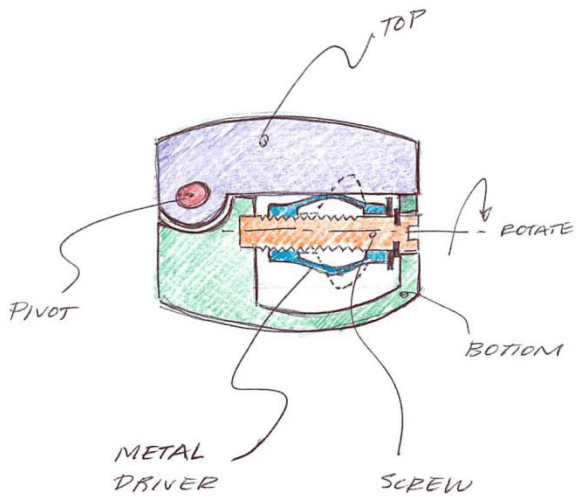
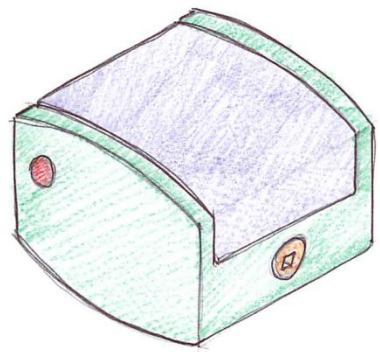
MOSKOWITZ-00084859

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.

BOSTONDEVICE DEVELOPMENT

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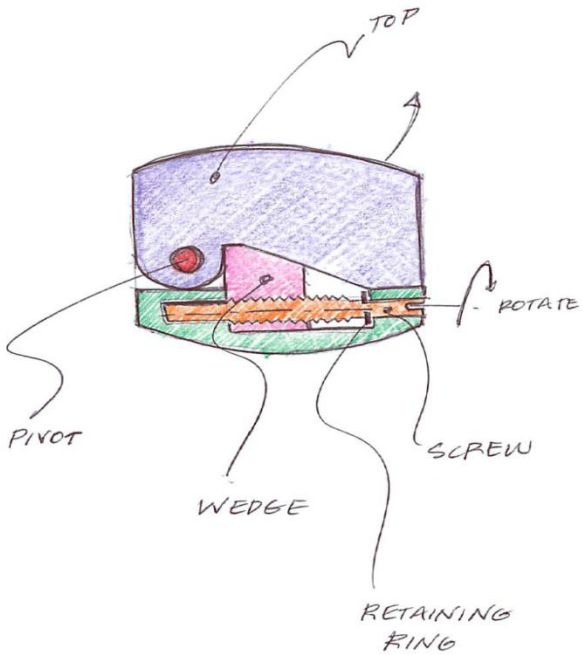
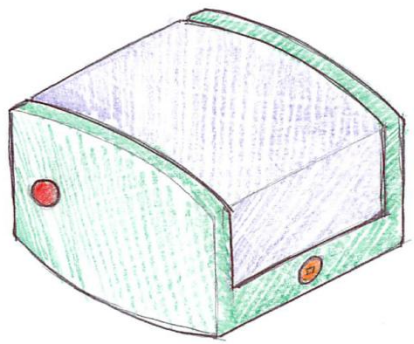
MOSKOWITZ-00084860

Flexispine Review – 05/03/11

MODIFIED WEDGE

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



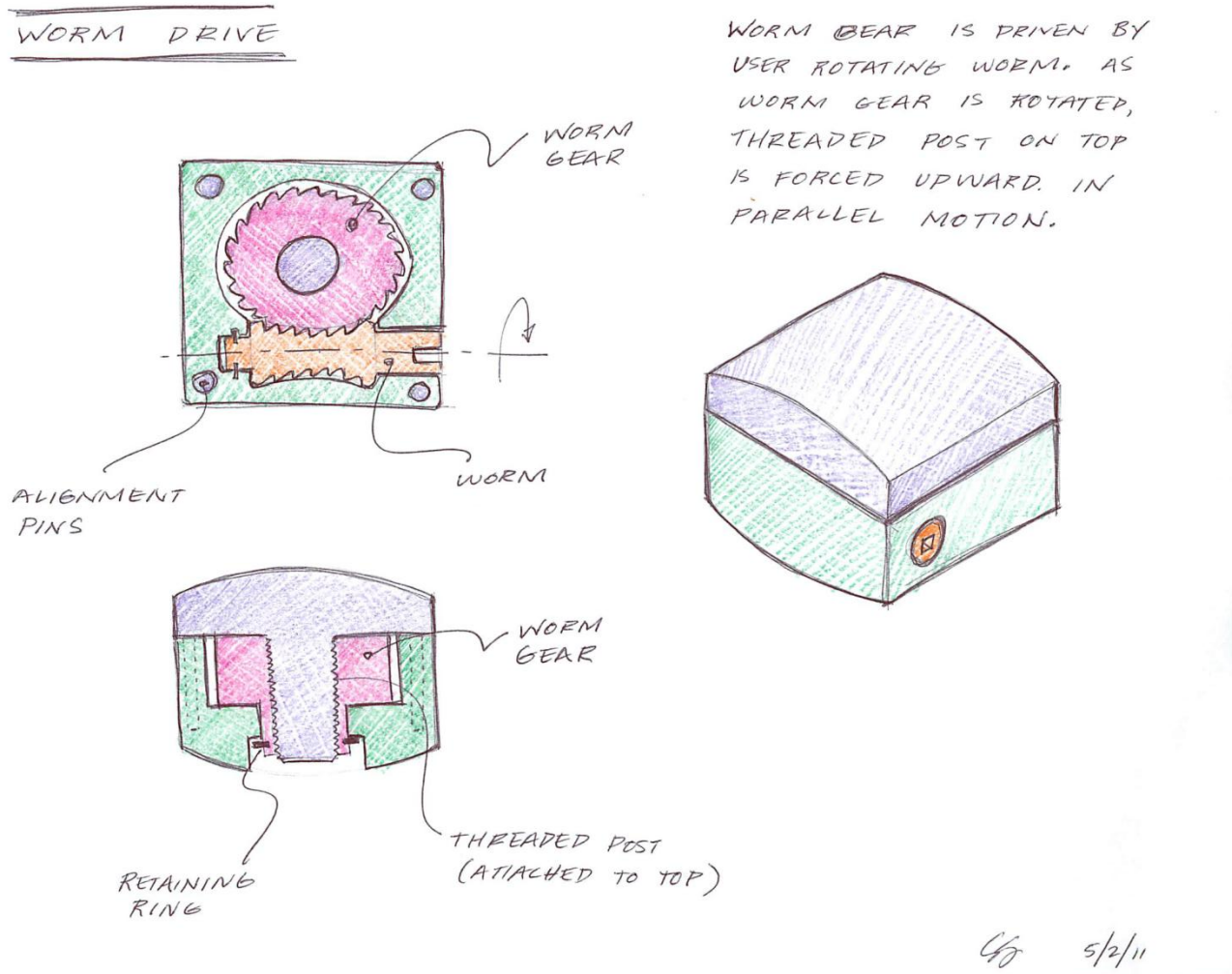


5/2/11

BOSTONDEVICE DEVELOPMENT

Moskowitz Exhibit 2027,
Medtronic v. Moskowitz IPR2026-00216 p. 10
MOSKOWITZ-00084861

Flexispine Review – 05/03/11



BOSTONDEVICE DEVELOPMENT

Moskowitz Exhibit 2027,
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MOSKOWITZ-00084862