From: Eric Sugalski <eric@bostondevice.com>
Sent: Thursday, May 5, 2011 7:36 AM CDT
To: Andy Moskowitz <andymoskow@gmail.com>
CC: David Schoon <dschoon@bostondevice.com>
Subject: Re: Fusion Device Review

Hi Andy -

Thanks for passing along the powerpoint. Could you also send me the patent application number for this device?

Regarding the lumbar fusion project, here are my takeaways from the meeting with your father and your subsequent notes:

1. 3D Screw Version - we will adapt the model to accommodate screws and eliminate the spikes. Ridges will also be placed on the top and bottom surfaces of the fusion wedges to maintain grip while inserted into spinal region. We will modify the angle to minimize the width expansion while producing 2.5mm of height adjustment. Additionally, we will modify the size of the device to be 10mm x 10mm x ~18mm. We will also reverse the expansion direction so that the largest height is at the exterior, and the smallest height is at the posterior. Lastly, the angle of the screw will be modified such that the clinician has direct line-of-site for easy access. This may be accommodated through either a small universal joint or a modified screw angle.
2. Concept Assessment <NEW> - we will take into account a number of parameters (usability, robustness, cost) and use a Pugh chart to evaluate each of the concepts. We will then provide a recommendation to Flexispine regarding a specific direction to pursue.
3. 3D Spike Version <NEW> - the selected new concept will be constructed in 3D and engineered suitable for prototype fabrication. The design will be reviewed with the Flexispine team before releasing the parts for fabrication.
4. Patent Illustrations <NEW> - the additional concepts will be refined in linework suitable for inclusion in a patent. This will require each of the concepts to be constructed in 3D for illustrating the necessary views (cross-sections, exploded views, orthographic views). The illustrations will be provided in PDF format.

Items 2-4 above (labeled NEW) will require additional work for us to complete. I am happy to revise our proposal to accommodate these tasks if you and your father agree that they are worth pursuing. Please let me know when you get a chance.

Thanks,

Eric

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On Wed, May 4, 2011 at 9:21 PM, Andy Moskowitz <andymoskow@gmail.com> wrote:

Dear Eric,

With regards to the box

1) something my father told you he forgot to mention is that it should expand in the other direction the spine is curved with the smallest height at the posterior and the largest at the exterior.

2) also you should loose the spikes put in grooves instead

3) also the angle should be 25 degrees or less since there are many nerves in the way. -also it does not need to expand more than a few millimeters so reducing the angle should be OK.

also please put further dimensioning millimeters.

4) also last time we talked over the phone the dimensions should be 10x10 x 18 millimeters for the non screwed version. this version looks bigger maybe it could be a little less than 18 since the box expands but the other dimensions should be 10x10.

also my father he told you about a wireless surgical endoscope.

enclosed is a PowerPoint though it is long I will explain to you the key points

1) there is an endoscope in between the surgical claw freeing up more space in the surgical area

2) there is an Led screen attached to the instrument so a surgeon can directly visualize what he is operating

3) there should be a battery could be placed in the place you feel easiest so there are no wires

4) this should be able to be reused in surgery

5) you could make it easier for the instrument to do an up bight or a straight bite - this part is not as essential you could just make it a straight bite if you think it is too much work.

Also you don't need to keep the same shape of the handles if you thought you wanted to expand the hardware in it.

There are many things that are in the PowerPoint that we put from the patent on file that you don't need to include

you need to do the things I mentioned and my father will mention some more key details I might of missed.

call him about it since he knows everything that he wants.

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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