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UNITED STATES PATENT AND TRADEMARK OFFICE
          BEFORE THE PATENT AND TRIAL APPEAL BOARD
 3
5 ALPHATEC HOLDINGS, INC., Case Nos. IPR2019-00361
 6 And ALPHATEC SPINE, INC.,
                                       IPR2019-00362
 7 Petitioners,
                                         IPR2019-00546
 8 Vs.
                            Patent Nos. 8,187,334
9 NUVASIVE, INC.,
                                        8,361,156
10 Patent Owner.
                                          8,187,334
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12
13
14
15
16
17
                   Deposition of
                      Matthew Link
18
19
                 Tuesday, January 7, 2020
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22
23 Reported by:
24 JOSHUA MANEA, CSR No. 13754
25 Job No: 596168
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| 1 | Page 2 APPEARANCES |
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| 2 | |
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| 21 | |
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| 25 | Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | | INDEX | Page 3 |
|----|-------------|--|--------|
| 2 | | | |
| 3 | Examination | on by | page |
| 4 | Ms. Wickra | masekera | 5 |
| 5 | | | |
| 6 | | | |
| 7 | | Exhibits | |
| 8 | | Deposition of Matthew Link | |
| 9 | | January 7, 2020 | |
| 10 | | | |
| 11 | NUMBER | DESCRIPTION | PAGE |
| 12 | Exhibit 1 | Declaration of Matthew Link in | 5 |
| 13 | | IPR2019-00361 case, 12 pgs | |
| 14 | Exhibit 2 | Declaration of Matthew Link in | 5 |
| 15 | | IPR2019-00362 case, 12 pgs | |
| 16 | Exhibit 3 | Declaration of Matthew Link in | 5 |
| 17 | | IPR2019-00546 case, 12 pgs | |
| 18 | Exhibit 4 | Patent ending in 156, 30 pgs | 6 |
| 19 | Exhibit 5 | Patents ending in 334, 34 pgs | 6 |
| 20 | | | |
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| 22 | | | |
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| 1 | UNITED STATES PATENT AND TRADEMARK OFFICE Page 4 |
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| 2 | BEFORE THE PATENT AND TRIAL APPEAL BOARD |
| 3. | |
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| 5 | ALPHATEC HOLDINGS, INC., Case Nos. IPR2019-00361 |
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| 8 | Vs. Patent Nos. 8,187,334 |
| 9 | NUVASIVE, INC., 8,361,156 |
| 10 | Patent Owner. 8,187,334 |
| 11 | |
| 12 | |
| 13 | BE IT REMEMBERED that on Tuesday, January 7, |
| 14 | 2020, commencing at the hour of 9:35 a.m. in the law |
| 15 | offices of Mintz, Levin, Cohn, Ferris, Glovsky & Popeo, |
| 16 | PC, 3580 Carmel Mountain Road, Suite 300, San Diego, |
| 17 | California, before me, JOSHUA MANEA, a Certified |
| 18 | Shorthand Reporter in and for the State of California, |
| 19 | personally appeared |
| 20 | MATTHEW LINK |
| 21 | Called as a witness herein, and after having |
| 22 | been first duly affirmed to tell the truth, the whole |
| 23 | truth, and nothing but the truth, was examined and |
| 24 | testified as follows. |
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| _ | Page 5 |
|----|---|
| 1 | EXAMINATION BY MS. WICKRAMASEKERA: |
| 2 | Q. Good morning, Mr. Link. |
| 3 | A. Good morning. |
| 4 | Q. You understand, you are here to testify |
| 5 | regarding you are here to testify in the proceedings |
| 6 | that are before the patent office, case number |
| 7 | IPR2019-361, 362 and 546, regarding the 334 and 156 |
| 8 | patents; is that correct? |
| 9 | A. That is my understanding, yes. |
| 10 | Q. Okay. Let's go ahead and mark your |
| 11 | declarations; for the record. |
| 12 | (Exhibits 1, 2 marked for identification.) |
| 13 | BY MS. WICKRAMASEKERA: |
| 14 | Q. I'm going to show you what's been marked as |
| 15 | Exhibit 1, which is the declaration you submitted in the |
| 16 | 361 proceeding for the 334 patents. |
| 17 | A. Okay. |
| 18 | Q. As Exhibit 2, I'm handing you what's been |
| 19 | marked I'm sorry. As Exhibit 2, I'm handing you your |
| 20 | declaration in the 362 proceeding for the 156 patents. |
| 21 | (Exhibit 3 marked for identification.) |
| 22 | BY MS. WICKRAMASEKERA: |
| 23 | Q. And Exhibit 3 is your declaration in the 546 |
| 24 | proceeding for the 334 patents. Here you go. |
| 25 | And Mr. Link, are these declarations that you Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 6 submitted in the three proceedings, are they |
|----|--|
| 2 | substantively identical? |
| 3 | A. It is my understanding that they are |
| 4 | substantively identical, yes. |
| 5 | Q. And did you review the 334 and the 156 patents |
| 6 | in preparing your declarations? |
| 7 | A. I did not review those specifically. I relied |
| 8 | on information, I believe, was provided by Jim Youssef |
| 9 | and it was related to those patents. |
| 10 | Q. Okay. And what did you understand, from Dr. |
| 11 | Youssef, the 156 patent covers? |
| 12 | A. I don't I don't know the numeric assignment |
| 13 | to the specific patents. If you have that, I am happy |
| 14 | to take a look at it. My general understanding? |
| 15 | Q. Sure. I can mark the - if it is easier, I'll |
| 16 | go ahead and mark the patents for you. |
| 17 | (Exhibit 4 marked for identification.) |
| 18 | BY MS. WICKRAMASEKERA: |
| 19 | Q. So as Exhibit 4, I'm handing you what's been |
| 20 | marked as the I keep doing this wrong. I'm handing |
| 21 | you the 156 patent that I've marked as Exhibit 4. |
| 22 | A. Okay. |
| 23 | Q. There you go. |
| 24 | (Exhibit 5 marked for identification.) |
| 25 | BY MS. WICKRAMASEKERA: Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Q. Exhibit 5, which I'm handing you, is the 334 |
|----|--|
| 2 | patents. |
| 3 | Do these look familiar to you? |
| 4 | A. Yes, they lock generally familiar. Yes. |
| 5 | Q. Okay. |
| 6 | A. So, again, do you mind repeating the question? |
| 7 | Q. Sure. For the I'll start with the 334 |
| 8 | patent. I'm not sure which one I started with earlier. |
| 9 | For the 334 patent, what did you understand, from Dr. |
| 10 | Youssef, this patent covers? |
| 11 | A. So, again, not being an attorney or expert in |
| 12 | this field, my general understanding is that this patent |
| 13 | covered claims related to the CoRoent implant. |
| 14 | Q. Okay. Did you believe same question for |
| 15 | the 156 patent. Based on your your understandings, |
| 16 | from Dr. Youssef, what did you understand the 156 patent |
| 17 | to cover? |
| 18 | A. So similarly, understood it to cover claims |
| 19 | related to the CoRoent implant. |
| 20 | Q. Okay. How many different versions of the |
| 21 | CoRoent implant are there? |
| 22 | A. I don't know, off the top of my head. |
| 23 | Q. Okay. You are familiar with the CoRoent XL, |
| 24 | correct? |
| 25 | A. I am familiar with CoRoent XL, yes. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Q. And is that implant, the CoRoent XL, only used |
|----|--|
| 2 | for lateral procedures? |
| 3 | MR. ROSATO: Objection. Form. |
| 4 | THE WITNESS: In my experience, I have only |
| 5 | observed it being utilized for lateral procedures. |
| 6 | BY MS. WICKRAMASEKERA: |
| 7 | Q. Okay. Can you tell me, one way or the other, |
| 8 | whether it has been used in non-lateral procedures? |
| 9 | A. I do not know conclusively if it has or has |
| 10 | not. |
| 11 | Q. Okay. Are you familiar with the CoRoent XLR? |
| 12 | A. The CoRoent XLR? I'm not sure I'm familiar |
| 13 | with that one. |
| 14 | Q. Did I stump you? |
| 15 | Are you familiar with the CoRoent XL implant |
| 16 | that was the assignment for anterior procedures? |
| 17 | A. Yes. I don't recall as having the designation |
| 18 | of R, but I'm familiar with the CoRoent implant that is |
| 19 | designated for anterior approaches. |
| 20 | Q. Okay. And do you know, structurally, how the |
| 21 | CoRoent design for anterior differs from the CoRoent |
| 22 | design for lateral? |
| 23 | A. Again, I'm not an expert in that field. I'm |
| 24 | not sure I'm qualified to answer that question. |
| 25 | Q. Well, I'm just asking if you know. If you Litigation Services 800-330-1112 www.litigationservices.com |

| | Page 9 |
|----|--|
| 1 | don't know, that's okay. |
| 2 | A. I believe I answered that. |
| 3 | Q. So is the answer that you don't know? |
| 4 | MR. ROSATO: Objection to form. |
| 5 | BY MS. WICKRAMASEKERA: |
| 6 | Q. I guess, I'm not trying to trick you and I'm |
| 7 | not, actually, asking for opinion testimony. I'm asking |
| 8 | if you know do you know, structurally, any |
| 9 | differences between the CoRoent that's used for lateral |
| 10 | and the CoRoent that's used for anterior? |
| 11 | A. And based on my experience, I understand those |
| 12 | two implants to be different in geometry. |
| 13 | Q. Okay. How? |
| 14 | A. Within the geometry of length and width. |
| 15 | Q. So the CoRoent that's used for anterior has a |
| 16 | different length than the CoRoent that's used for |
| 17 | lateral? |
| 18 | A. The |
| 19 | MR. ROSATO: Objection to form. |
| 20 | THE WITNESS: Again, in my experience and |
| 21 | familiarity with our implants that are in those |
| 22 | categories for anterior ALIF surgery versus lateral |
| 23 | surgery, the relative dimension of the length to the |
| 24 | width are proportionately different in those two implant |
| 25 | types. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | BY MS. WICKRAMASEKERA: |
|----|--|
| 2 | Q. Okay. And what are you referring to as to the |
| 3 | length to the anterior CoRoent anterior implant? |
| 4 | A. I'm sorry. I don't understand your question. |
| | Q. What's is the when the CoRoent anterior |
| 5 | |
| 6 | implant is in place, once it's been inserted, which |
| 7 | direction does the length go in? Is it the |
| 8 | anterior-posterior direction or the lateral direction? |
| 9 | MR. ROSATO: Objection to form. |
| 10 | THE WITNESS: Yeah. |
| 11 | MR. ROSATO: Foundation. |
| 12 | THE WITNESS: My understanding of it is the |
| 13 | lateral direction. |
| 14 | BY MS. WICKRAMASEKERA: |
| 15 | Q. Okay. And what's the what's the greatest |
| 16 | length for the anterior implant? |
| 17 | A. I don't know. |
| 18 | MR. ROSATO: Objection to form, foundation. |
| 19 | THE WITNESS: I don't recall what the greatest |
| 20 | length is, off the top of my head. If there's a |
| 21 | reference, so I'd be happy to review it and see if it is |
| 22 | familiar, based on past experiences. |
| 23 | BY MS. WICKRAMASEKERA: |
| 24 | Q. Do you know what the anterior-posterior depth |
| 25 | of the anterior CoRoent implant is? Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 11 MR. ROSATO: Objection to form, foundation, |
|----|--|
| 2 | scope. |
| 3 | THE WITNESS: The anterior CoRoent implant, |
| 4 | again, there is a range of depths associated with that |
| 5 | implant. I don't recall what those are, off the top of |
| 6 | my head, no. |
| 7 | BY MS. WICKRAMASEKERA: |
| 8 | Q. Okay. Would the anterior-posterior depth of |
| 9 | the lateral implant, the lateral CoRoent implant, |
| 10 | necessarily be different from the depth of the CoRoent |
| 11 | anterior implant? |
| 12 | MR. ROSATO: Same objection. |
| 13 | THE WITNESS: Yeah, so if we are talking about |
| 14 | the CoRoent XL lateral implant, at least is my |
| 15 | understanding as we have categorized that, the primary |
| 16 | implant for the lateral XL implant is 18 millimeters in |
| 17 | depth or width, if you want to categorize it that way, |
| 18 | so anterior to posterior. |
| 19 | BY MS. WICKRAMASEKERA: |
| 20 | Q. And is that 18 millimeters, is that an |
| 21 | anterior-posterior depth that's unique to lateral |
| 22 | implants? |
| 23 | MR. ROSATO: Objection. Form, foundation. |
| 24 | THE WITNESS: Again, based on my understanding |
| 25 | and experience at the time it was introduced, it was Litigation Services 800-330-1112 www.litigationservices.com |

Page 12 1 unique to implants, lateral implants, yes. 2 BY MS. WICKRAMASEKERA: Do you know whether the CoRoent XLR is 3 available in an 18 millimeter anterior-posterior depth? I don't recall, off the top of my head, no. 5 6 Any other structural differences you can think of between the CoRoent XLR for anterior and the CoRoent 7 8 XL? 9 MR. ROSATO: Objection. Form. 10 THE WITNESS: Again, as I answered previously, my recollection of the primary differences between the 11 12 implants, from my observations, are the proportion, sort 13 of, the relative dimensions anterior to posterior to 14 lateral. 15 BY MS. WICKRAMASEKERA: 16 Q. Okay. I guess, actually, and that observation 17 A. categorized maybe better, the proportion of those 18 dimensions, one implant, as I understood it, was defined 19 20 to be wholly contained within the disc space versus 21 another that was designed to be able to bridge across the end plates of the disc space. And so the intended 22 clinical application, I understood to be different. 23 24 Okay. What ranges of lengths is the CoRoent XL available in? Litigation Services 25 800-330-1112 www.litigationservices.com

| 1 | Page 13 MR. ROSATO: Objection to form. |
|----|---|
| 2 | THE WITNESS: Yeah. So as I recall, the |
| 3 | ranges of lengths were 40 to 55 millimeters with a line |
| 4 | addition sometime I don't remember exactly when I |
| 5 | believe, it extended that length out to 60 millimeters. |
| 6 | BY MS. WICKRAMASEKERA: |
| 7 | Q. Are you referring to the CoRoent XL standard? |
| 8 | A. I'm referring to the CoRoent lateral implant. |
| 9 | Q. Okay. Don't you also have a thoracic implant |
| 10 | that's CoRoent XL? |
| 11 | A. I don't believe that was the naming |
| 12 | nomenclature. I believe that was XLT. And so since you |
| 13 | made it a point to characterize XLR as a different |
| 14 | implant, I thought we were going to continue down that |
| 15 | line. |
| 16 | Q. Oh. I'm sorry if I confused you. |
| 17 | From my understanding, XLR is the anterior |
| 18 | implant. |
| 19 | A. Right. |
| 20 | Q. And so that's correct? |
| 21 | A. Yes. |
| 22 | Q. And the CoRoent XL comes in standard and |
| 23 | thoracic; is that correct? |
| 24 | A. And, again yeah. And so I'm the as I |
| 25 | understand the naming nomenclature, it is XLT. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Q. Okay. |
|----|--|
| 2 | A. And so since you made it a point to designate |
| 3 | the XL implant as XLR, I wanted to be as specific as |
| 4 | possible. |
| 5 | Q. Did that name change at some point? |
| 6 | A. I believe it may have changed, but given I |
| 7 | have been with the company since 2007, that's the |
| 8 | nomenclature I'm familiar with. |
| 9 | Q. Okay. Is the CoRoent XLT for lateral |
| 10 | insertion? |
| 11 | MR. ROSATO: Objection to form. |
| 12 | THE WITNESS: As I understand it, it was |
| 13 | designed for lateral insertion, yes. |
| 14 | BY MS. WICKRAMASEKERA: |
| 15 | Q. Do you know what the greatest length of the |
| 16 | CoRoent XLT is? |
| 17 | MR. ROSATO: Objection to form, scope. |
| 18 | THE WITNESS: Yeah, I don't recall, with |
| 19 | certainty, what the maximum length was. I believe it to |
| 20 | be 40, but I'm not 100-percent certain on that. |
| 21 | BY MS. WICKRAMASEKERA: |
| 22 | Q. That's my understanding as well. |
| 23 | To insert a CoRoent XLT laterally, you don't |
| 24 | have to go through the psoas muscle, correct? |
| 25 | MR. ROSATO: Objection. Form, foundation. Litigation Services 800-330-1112 www.litigationservices.com |

Page 15 THE WITNESS: It depends on which anatomic 1 level you choose to insert it. BY MS. WICKRAMASEKERA: 3 In the lower thoracic, do you necessarily have to go through the psoas muscle? 5 MR. ROSATO: Objection to form, foundation, 6 7 scope. THE WITNESS: So in the lower thoracic spine, 8 9 that would not be typical anatomy to traverse, no. 10 BY MS. WICKRAMASEKERA: Okay. Are you familiar with where the markers 11 12 are located in the CoRoent XLT? MR. ROSATO: Objection to form, foundation and 13 14 scope. 15 THE WITNESS: I do not recall all of the exact 16 locations, no. BY MS. WICKRAMASEKERA: 17 Okay. In your -- actually, let me ask you a 18 few more questions about the patents. 19 20 For the 156 patent, is it your understanding 21 that the patent requires going through the psoas muscle? MR. ROSATO: Objection to form, foundation and 22 23 scope. 24 THE WITNESS: Yeah, I'm not an attorney. I don't have a complete understanding as to what all the Litigation Services | 800-330-1112 25 www.litigationservices.com

Page 16 specific claims and requirements are of that. 1 BY MS. WICKRAMASEKERA: Okay. So based on your conversations or your 3 understanding from reading Dr. Youssef's declaration, do you have any understanding, based on that, whether the 5 claims for either patent require you to go through the 7 psoas muscle? Yeah, again, so per my declaration, it is my 8 understanding that, based on Dr. Youssef's expert 10 opinion, that it -- that, you know, there are certain areas of claims. I am not qualified to characterize all 11 12 of those things specifically. 13 In various parts of your declarations, you refer to the nerves of the psoas muscle and creating a 14 15 corridor through the psoas muscle. And I'm just 16 wondering why you thought that was relevant to put in your declaration? 17 18 Do you mind pointing out specifically --19 Q. Sure. 20 MR. ROSATO: Let me get my objections. Objection to form, foundation. 21 BY MS. WICKRAMASEKERA: 22 23 Q. Okay. So you can look at paragraph 5 of your 24 declaration. 25 I'm sorry, paragraph 5? Litigation Services 800-330-1112 www.litigationservices.com

| 1 | Q. Yes. Let me know once you've had a chance to |
|----|---|
| 2 | review it. |
| 3 | A. So as I read paragraph 5, it is in a section |
| 4 | related to NuVasive and XLIF history, and as I read the |
| 5 | paragraph, in my recollection at the time is when asked |
| 6 | to provide a characterization of, you know, what the |
| 7 | XLIF procedure is, that's a relevant component of the |
| 8 | procedure or a relevant consideration in the approach |
| 9 | related to the procedure. |
| 10 | Q. Let me back you up to paragraph 3. You define |
| 11 | XLIF, as you've used it throughout your declaration, as |
| 12 | "NuVasive's eXtreme Lateral Interbody Fusion, products |
| 13 | and systems." Do you see that? |
| 14 | A. I see in paragraph 3 where it says that, yes. |
| 15 | Q. Okay. Can you tell me what's all included in |
| 16 | that, what products and systems are you referring to? |
| 17 | MR. ROSATO: Objection to form. |
| 18 | THE WITNESS: So a general characterization of |
| 19 | the products and technologies associated with that |
| 20 | portfolio. Portfolio being the eXtreme Lateral |
| 21 | Interbody Fusion. |
| 22 | Again, from my tenure at the company, which is |
| 23 | 13 years, has been a series of retractor systems, |
| 24 | dilating tools associated with retractor system. Sub |
| 25 | some components of an automatic nerve physiology system. Litigation Services 800-330-1112 www.litigationservices.com |

Page 18 Instrumentation associated with addressing spinal 1 anatomy, particularly the disc, space, as well as a number of interbody devices and fixation options for the 3 lateral procedure. BY MS. WICKRAMASEKERA: 5 Q. Okay. So when you are referring to XLIF 6 throughout your declaration, you are referring to all of 7 these systems and products that you just mentioned? 8 MR. ROSATO: Objection to form. 9 10 THE WITNESS: Again, I think it would depend on the specific context of wherever the statement lies. 11 12 But as I just stated, generally speaking, those would 13 all be technologies and components that comprise some portion of a XLIF procedure. 14 15 BY MS. WICKRAMASEKERA: If you already were referring to the implant 16 Q. specifically in your declaration, would you have called 17 it "XLIF" or would you have called it the "CoRoent XL 18 implant"? 19 20 MR. ROSATO: Objection to form, foundation. THE WITNESS: Is there a specific segment you 21 22 are referring to where I've categorized it one way or the other? 23 24 BY MS. WICKRAMASEKERA: 25 Well, I was just asking based on your answer stigation Services 800-330-1112 www.litigationservices.com

Page 19 1 that if you used XLIF, it would depend on the context. 2 And what I'm just trying to understand is, you have used "XLIF" throughout your declaration. And I understood 3 from paragraph 3, you were defining "XLIF" to be NuVasive's Extreme Lateral Interbody Fusion products and 5 systems. So are you using a different definition of 6 XLIF anywhere else throughout the declaration? 7 MR. ROSATO: Objection to form and foundation. 8 9 THE WITNESS: Yeah, I don't recall. Again, if 10 there is an area of specific question, I'd be happy to read it and address it. I don't recall any specific 11 12 example. As I look through the declaration, I also see 13 specific reference to the CoRoent XL implant, in 14 15 addition to XLIF. So it would be helpful if you could 16 maybe highlight a specific area where you have a 17 question. 18 BY MS. WICKRAMASEKERA: Okay. How about paragraph 4. In the middle 19 Q. 20 of the paragraph, you state, "When NuVasive began 21 development of XLIF." Do you see that? "When NuVasive began development of XLIF," in 22 23 paragraph 4, yes, I do. 24 Yes. When did NuVasive begin development of 25 XLIF? Litigation Services 800-330-1112 www.litigationservices.com

Page 20 So the development of XLIF predates my time 1 A. with the company. The procedure had already been launched and commercialized when I joined in 2006. 3 Based on my experience and understanding from others in the company -- I mean, to some extent, the development 5 of XLIF began as early when the company was founded. 6 They began seeking an alternative minimally-invasive solution for the spine. And there was a series of developments. 10 But, I guess, my general understanding was in or around, you know, 2001, in that general time period. 11 12 But, again, that predates my time with the company. I 13 don't know specifically. 14 Okay. And then when you are saying, "When 15 NuVasive began development of XLIF, " what specifically 16 are you referring to in that sentence as "XLIF"? What products, I guess? What -- what -- what products 17 18 specifically are you referring to --MR. ROSATO: Objection to form. 19 BY MS. WICKRAMASEKERA: 20 21 -- in that sentence? Q. So my recollection at the time of this 22 statement would have been related to the products and 23 24 technologies that I referenced earlier. So a series of 25 retractor systems, dilating tools to support the www.litigationservices.com

Page 21 retractor system, implant -- interbody-implant options or solutions, lateral-fixation solutions and a subset of neurophysiology technology to support the procedure. 3 When specifically did NuVasive begin Q. development of the CoRoent XL implant? 5 A. I don't -- I don't know. And so when you -- I 6 just want to clarify, when you say "CoRoent" -- you said "CoRoent XL implant"? Q. Yes. 10 I don't know, off the top of my head, 11 specifically. 12 Do you know who specifically developed the Q. 13 CoRoent XL implant? MR. ROSATO: Objection to form. 14 15 THE WITNESS: I don't know who is specifically 16 responsible for it, no. BY MS. WICKRAMASEKERA: 17 18 Do you know how long it took to develop the CoRoent XL implant? 19 20 MR. ROSATO: Objection to form and foundation. THE WITNESS: I do not. 21 22 BY MS. WICKRAMASEKERA: 23 Q. Okay. In paragraph -- actually, stay with 24 paragraph 5. At the end of paragraph 5, you state that, 25 "NuVasive built and tested an array of specialized
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Page 22 1 instruments and surgical components, e.g., MaXcess retractor, neuromonitoring-equipped dilators, specially-constructed implants, to enable the XLIF 3 surgical approach." Do you see that? I do see that, yes. 5 A. 6 What -- how -- when you refer to 0. "specially-instructed implants," what do you mean? So, again, my understanding of the evolution of the development process included an implant that 10 could be optimized based on lateral insertion and the geometry associated with the available anatomy or 11 12 anatomic access from a lateral approach. What -- what sources of information did 13 NuVasive draw on to develop the CoRoent XL implant, if 14 15 you know? I do not know. 16 A. Do you know whether they -- NuVasive was 17 18 looking at other implants that were available in the market at the time? 19 20 MR. ROSATO: Objection to form and scope. THE WITNESS: I'm sorry. My -- my knowledge 21 at the time was that they -- that there was some instances where allograft implants were utilized in a 23 24 lateral approach and were found to be suboptimal, based - the footprint or dimension of that implant in Litigation Services | 800-330-1112 25 www.litigationservices.com

Page 23 1 the disc space. That's the extent of my knowledge around implants associated with, again, what I understand to be 3 the development of XLIF being the tools and technologies developed by NuVasive. 5 BY MS. WICKRAMASEKERA: 6 7 Are you familiar with the work of Dr. Crock (phonetic)? 8 I'm sorry? 9 A. 10 MR. ROSATO: Objection to form. BY MS. WICKRAMASEKERA: 11 12 Dr. Crock? Q. 13 I am not, no. 14 Okay. Who are you referring to when you are 15 referring to prior insertion of allograft implants in a 16 lateral approach, who's work are you referring to? I'm not referring to any one surgeon, in 17 A. 18 familiar. I'm referring to information and education I received when I joined the organization and in support 19 20 of the rationale for the CoRoent XL implants and the 21 advantages it offered relative to other implants that were available in the market at that time. 22 23 Was NuVasive aware of artificial implants 24 being used in spinal fusion surgery before it developed CoRoent XL?
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Page 24 1 MR. ROSATO: Objection to form, foundation. THE WITNESS: I'm sorry. What do you mean by "artificial implants"? 3 BY MS. WICKRAMASEKERA: 5 Non-bone. 0. MR. ROSATO: Same objection. 6 THE WITNESS: Again, I wasn't at NuVasive at the time that they initiated development of that 9 implant. 10 MR. ROSATO: Excuse me. There is a scope in 11 the objection, please. Thank you. 12 BY MS. WICKRAMASEKERA: 13 How were the -- was NuVasive aware of the publications regarding Dr. Brantigan's use of non-bone 14 15 implants in spinal fusion surgery before it developed 16 the CoRoent implant? MR. ROSATO: Objection to form, foundation, 17 18 scope. THE WITNESS: Again, I wasn't present. 19 20 wasn't part of the organization at that time, so I do not know. 21 22 BY MS. WICKRAMASEKERA: 23 Q. Okay. In paragraph 8, you refer to, 24 "NuVasive's initial expenditures for the development of 25 XLIF that were approximately \$20 to \$30 million."
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| 1 | you see that? Page 25 |
|----|---|
| 2 | A. Paragraph 8? I do see that, yes. |
| 3 | Q. Okay. How much of that specifically was |
| 4 | attributed to the CoRoent XL implant? |
| 5 | A. I do not know how much was directly attributed |
| 6 | to CoRoent XL. |
| 7 | Q. I'm going to have you flip, just quickly, over |
| 8 | to paragraph 16 in your declaration. And I'm going to |
| 9 | refer you to the sort of the middle of the paragraph |
| 10 | and it starts, "As of the end of 2017." Do you see |
| 11 | that? |
| 12 | A. I'm sorry. To? |
| 13 | Q. Paragraph 16. |
| 14 | A. Yes. |
| 15 | Q. And it is just it is towards the middle of |
| 16 | the paragraph. There is a sentence that starts, "As of |
| 17 | the end of 2017." Do you see that? |
| 18 | A. I do see that, yes. |
| 19 | Q. Okay. So in paragraph 16 of your declaration, |
| 20 | it states that, "As of the end of 2017, the CoRoent XL |
| 21 | implant had generated about 400 million in revenue for |
| 22 | NuVasive." Do you see that? |
| 23 | A. I do see that, yes. |
| 24 | Q. And you note in a footnote, "These revenue |
| 25 | numbers are for the 18-millimeter-wide CoRoent XL Litigation Services 800-330-1112 www.litigationservices.com |

| | Page 26 |
|----|---|
| 1 | implant." Do you see that? |
| 2 | A. I do see that, yes. |
| 3 | Q. Do you have any understanding as to what drove |
| 4 | the sales of the CoRoent XL implant |
| 5 | MR. ROSATO: Objection to form. |
| 6 | BY MS. WICKRAMASEKERA: |
| 7 | Q that you are referring to here? |
| 8 | A. I'm sorry? |
| 9 | Q. That's okay. Maybe I asked that in a |
| 10 | confusing way. |
| 11 | A. Yeah. |
| 12 | Q. Let me ask you this question: In reference to |
| 13 | the sentence that I just read in your declaration in |
| 14 | paragraph 16, do you have any understanding as to |
| 15 | whether it was demand specifically for the CoRoent XL |
| 16 | implant as opposed to some other component of XLIF that |
| 17 | drove this \$400 million sales figure? |
| 18 | MR. ROSATO: Objection to form. |
| 19 | THE WITNESS: So it is my understanding, based |
| 20 | on financial information provided to me in support of |
| 21 | this statement, as well as my own experience, that the |
| 22 | revenues attributed to the CoRoent XL implant in that |
| 23 | again, in my experience, the CoRoent XL implant afforded |
| 24 | a clinical advantage in terms of its biomechanical |
| 25 | stability relative to smaller implants. And that that Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 27 was a driving factor in the utilization of an implant |
|----|--|
| 2 | like that. |
| 3 | And I believe, in my experience, NuVasive |
| 4 | invested in biomechanical data in support of those |
| 5 | facts, to also then support the marketing and promotion |
| 6 | of that implant in the market. |
| 7 | BY MS. WICKRAMASEKERA: |
| 8 | Q. Do you think any of the 400 million in revenue |
| 9 | for the CoRoent XL 18-millimeter-wide implant was driven |
| 10 | by anything other than the CoRoent XL implant? |
| 11 | MR. ROSATO: Objection to form. |
| 12 | THE WITNESS: I'm not sure I understand what |
| 13 | you mean by "driven." |
| 14 | BY MS. WICKRAMASEKERA: |
| 15 | Q. Well, do you do you think that the demand |
| 16 | from from surgeons, for the CoRoent XL implant that's |
| 17 | reflected in the \$400 million number that you provided, |
| 18 | do you believe that that's due solely to the CoRoent XL |
| 19 | implant or could it also be due to the MaXcess |
| 20 | retractor? |
| 21 | MR. ROSATO: Objection to form. |
| 22 | THE WITNESS: So, again, as I understand it, |
| 23 | the \$400 million is revenue is attributed directory to |
| 24 | the CoRoent XL implant. Theoretically, per a surgeon's |
| 25 | discretion, they could place another implant as an Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 28 alternative. Yet, this was the implant they chose. |
|----|--|
| 2 | And so I believe as it relates to this |
| 3 | statement, again, it is attributed the revenue is |
| 4 | attributed directly to the implant. And there, I think, |
| 5 | was a consistent demonstration from the surgeon |
| 6 | community for a preference for that implant. |
| 7 | BY MS. WICKRAMASEKERA: |
| 8 | Q. Okay. So do you believe that the sales |
| 9 | revenue, that you've mentioned here in paragraph 16 for |
| 10 | the CoRoent XL implant, reflects in any way a demand for |
| 11 | the MaXcess retractor? |
| 12 | MR. ROSATO: Objection to form. |
| 13 | THE WITNESS: So, again, as I understand this, |
| 14 | this is revenue attributed directly to the CoRoent XL |
| 15 | implant. And we have categorization with other products |
| 16 | that would be reflective of the retractor utilization. |
| 17 | And so as it relates to this \$400 million, I believe it |
| 18 | is a reflection of revenues related directly to the |
| 19 | implant. |
| 20 | BY MS. WICKRAMASEKERA: |
| 21 | Q. Okay. And then it does not reflect any demand |
| 22 | for the MaXcess retractor; is that correct? |
| 23 | MR. ROSATO: Objection to form, asked and |
| 24 | answered. |
| 25 | THE WITNESS: The 400 million is directly Litigation Services 800-330-1112 www.litigationservices.com |

Page 29 attributed to product SKUs associated with the CoRoent XL implant, as I understand it, based on the financial information provided. 3 BY MS. WICKRAMASEKERA: 5 If you turn back to paragraph 6. Q. I'm sorry? You said paragraph 6? 6 A. Yes. You say, "Prior to XLIF, there were 7 different procedures available for treating patients in 8 9 need of spinal fusion that suffered from their own 10 drawbacks." Do you see that? I see the sentence, yes. 11 12 Are you referring to lateral in that -- in 13 that sentence as different procedures that were 14 available? 15 MR. ROSATO: Objection to form. THE WITNESS: So my recollection at the -- the 16 time this statement, that I was referring to a wide 17 range of procedural alternatives to what we have 18 categorized as XLIF. 19 20 BY MS. WICKRAMASEKERA: 21 That would include other lateral procedures? Q. MR. ROSATO: Objection to form. 22 THE WITNESS: It could be -- it could be 23 24 inclusive of other lateral procedures, but not exclusive 25 Litigation Services 800-330-1112 www.litigationservices.com

Page 30 1 BY MS. WICKRAMASEKERA: 2 And in paragraph 7, you state, "NuVasive recognized the unmet need for an effective spinal fusion 3 surgery without the disadvantages of these earlier procedures." Who -- who specifically at NuVasive 5 6 recognized that need? A. Again, I wasn't at NuVasive during the time period in which, yeah, the development of XLIF began. 8 During my long tenure at the organization, I understood 10 it to be a combination of -- a combination of people, both within NuVasive as well as, potentially, 11 12 clinicians. Is it your testimony that NuVasive was the 13 only entity to recognize that need at that time? 14 15 MR. ROSATO: Objection. Form, foundation. 16 THE WITNESS: I don't know that to be true or not. 17 BY MS. WICKRAMASEKERA: 18 Okay. Further down in paragraph 7, you refer 19 Q. 20 to "when NuVasive invented XLIF." 21 A. I'm sorry? Did I say paragraph 9? I meant to say 22 23 paragraph 7. 24 Okay. Paragraph 7. 25 The last sentence. Litigation Services | 800-330-1112 www.litigationservices.com

Page 31 A. Yeah, I got you. Okay. 1 You see it? So in paragraph 7, you state, "That changed, however, when NuVasive invented XLIF." 3 Do you see that? I do see that, yes. 5 A. Okay. What did you mean by "when NuVasive 6 0. invented XLIF"? What are you referring to there? 7 Again, my recollection from the time of this 8 declaration and in general, how I've referred to XLIF is 9 10 inclusive of the components we discussed previously, which would be access systems, tools to facilitate the 11 12 access instruments to facilitate addressing the spine as well as the implants, which ultimately result in 13 stabilization of the spine. 14 15 Okay. How do you know that NuVasive invented 16 XLIF? MR. ROSATO: Objection to form. 17 18 THE WITNESS: Again, just based on my tenure with the organization and my experience in the spine 19 20 market, having been at a competitive spine company at the time XLIF was introduced to the market. That is my 21 understanding, both from within NuVasive, I've heard 22 23 that certainly categorized that way by other leaders in the company at the time, including Pat Miles, Alex 24 25 Lukianov, Keith Valentine. Litigation Services 800-330-1112 www.litigationservices.com

| 1 | Page 32 So both from what I've heard from within the |
|----|--|
| 2 | organization, from leaders that were involved with the |
| 3 | development of XLIF as well as my observation in the |
| 4 | marketplace as a competitor and within the organization. |
| 5 | BY MS. WICKRAMASEKERA: |
| 6 | Q. Did you ever hear Pat Miles say he invented |
| 7 | CoRoent? |
| 8 | A. I don't recall hearing him say specifically he |
| 9 | invented CoRoent. Although, I again, I'm not an |
| 10 | expert. I thought he was party to the patents |
| 11 | associated with the implants, but that's just my general |
| 12 | recollection. That's not necessarily a read of the |
| 13 | patent. |
| 14 | Q. Do you believe that Pat Miles invented |
| 15 | CoRoent? |
| 16 | MR. ROSATO: Objection. Form, foundation and |
| 17 | scope. |
| 18 | THE WITNESS: Again, as I understand the |
| 19 | development, I believe he was party to those |
| 20 | developments, based on his role at the time as the head |
| 21 | of marketing and product and technology. But I also |
| 22 | understood it was others who may, or likely had, |
| 23 | contributed to that. |
| 24 | BY MS. WICKRAMASEKERA: |
| 25 | Q. Go ahead and turn to paragraph 9. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 33 A. I'm sorry? 9? |
|----|--|
| 2 | Q. Yeah, 9 of your declaration. |
| 3 | A. Yes. |
| 4 | Q. You have excerpts there, a figure from the |
| 5 | patents, Figure 2? |
| 6 | A. Yes. |
| 7 | Q. And you have some photograph a photograph |
| 8 | of the CoRoent XL implants. Do you see that? |
| 9 | A. I do, yes. |
| 10 | Q. Okay. And below that, you have a heading |
| 11 | titled "Skepticism regarding XLIF and CoRoent XL |
| 12 | implant." Do you see that? |
| 13 | A. I do, yes. |
| 14 | Q. Okay. What skepticism was expressed well, |
| 15 | actually, withdrawn. |
| 16 | Let me ask you this question: Was any |
| 17 | skepticism expressed to NuVasive regarding the |
| 18 | construction of an implant made of PEEK? |
| 19 | MR. ROSATO: Objection. Form, foundation. |
| 20 | THE WITNESS: I don't recall hearing an |
| 21 | objection to an implant made of PEEK, in my own |
| 22 | experience. And I don't recall having heard that |
| 23 | accounted from others. |
| 24 | BY MS. WICKRAMASEKERA: |
| 25 | Q. Okay. Do you recall anyone expressing any Litigation Services 800-330-1172 www.litigationservices.com |

| 1 | Page 34 skepticism at the time of using a spinal fusion implant |
|----|--|
| 2 | of non-bone construction? |
| 3 | MR. ROSATO: Objection to form, foundation. |
| 4 | THE WITNESS: I don't recall an objection |
| 5 | related to a non-bone product. And as stated in the |
| 6 | declaration, the primary skepticism was around the size |
| 7 | and dimension of the implant relative to implants that |
| 8 | were available in the market. |
| 9 | BY MS. WICKRAMASEKERA: |
| 10 | Q. And by "size," you are referring to only the |
| 11 | width or are you referring to the length as well? |
| 12 | A. In in my experience, width was a concern. |
| 13 | Length, relative to how we suggested the |
| 14 | or, again, at least in my experience, marketing and |
| 15 | promoting the device, the sort of recommended length to |
| 16 | optimize the stability and stabilizing the interbody |
| 17 | space. |
| 18 | Q. That was a concern that length was a |
| 19 | concern? I'm sorry. I might have missed the first part |
| 20 | of your answer there. I did understand you to say that |
| 21 | width was a concern; is that correct? |
| 22 | A. Yes. |
| 23 | Q. And as for length, I believe you testified |
| 24 | that it was a concern to determine the length to |
| 25 | optimize the stability and stabilizing the interbody Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 35 space; is that correct? |
|----|--|
| 2 | A. Correct. |
| | |
| 3 | MR. ROSATO: Objection to form. |
| 4 | BY MS. WICKRAMASEKERA: |
| 5 | Q. Okay. Was NuVasive aware of the use of |
| 6 | interbody implants that were longer than 40 millimeters, |
| 7 | at the time it invented CoRoent? |
| 8 | MR. ROSATO: Objection to form, foundation. |
| 9 | THE WITNESS: Again, I wasn't present when the |
| 10 | development of CoRoent began, so I can't speak to |
| 11 | whether or not they were aware of that or not. |
| 12 | BY MS. WICKRAMASEKERA: |
| 13 | Q. Are you familiar with the BAK long cage? |
| 14 | A. I'm not familiar with the BAK long cage. I'm |
| 15 | familiar with the BAK cages that were traditionally used |
| 16 | from a posterior approach and were shorter than 40 |
| 17 | millimeters. |
| 18 | Q. So you are not aware of the BAK long cage that |
| 19 | were inserted in the lateral approach in the late 1990s? |
| 20 | MR. ROSATO: Objection to form, foundation. |
| 21 | THE WITNESS: I have familiarity with BAK |
| 22 | cages being inserted from a lateral approach. I am not |
| 23 | familiar specifically of a length of 40 millimeters or |
| 24 | longer, no. |
| 25 | BY MS. WICKRAMASEKERA: Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Q. Were you you were at NuVasive during the |
|----|--|
| 2 | time that NuVasive was involved in the lawsuit with |
| 3 | Medtronic; is that correct? |
| 4 | A. I was, yes. |
| 5 | Q. Okay. Do you recall the trial in that case? |
| 6 | Do you recall a trial occurring in that case? |
| 7 | A. I do recall a trial occurring, yes. |
| 8 | Q. Okay. Do you recall NuVasive presenting |
| | |
| 9 | testimony from Dr. Paul McAfee that surgeons had been |
| 10 | routinely inserting non-bone implants from a lateral |
| 11 | approach since the mid '90s? Do you recall that |
| 12 | testimony? |
| 13 | MR. ROSATO: Objection to form, foundation and |
| 14 | scope. |
| 15 | THE WITNESS: Yeah, sorry. |
| 16 | I was not involved in the trial at that stage, |
| 17 | and so I don't have specific knowledge of Dr. McAfee's |
| 18 | testimony, no. |
| 19 | BY MS. WICKRAMASEKERA: |
| 20 | Q. So you didn't you didn't consider the |
| 21 | testimony presented by Dr presented by NuVasive, |
| 22 | from Dr. McAfee, in preparing your declaration; is that |
| 23 | correct? |
| 24 | A. I did not review that testimony, no. |
| 25 | Q. Do you recall NuVasive presenting evidence of Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 37 publications from 19 from the late 1990s regarding |
|----|--|
| 2 | the use of the BAK long cage in the lateral approach? |
| 3 | MR. ROSATO: Objection. Form, foundation, |
| 4 | scope. |
| 5 | THE WITNESS: Again, I wasn't involved in the |
| 6 | trial or proceedings at that time, so no, I'm not |
| 7 | familiar with that. |
| 8 | BY MS. WICKRAMASEKERA: |
| 9 | Q. Okay. So you didn't consider that evidence, |
| 10 | in preparing your declaration; is that correct? |
| 11 | A. I did not, no. |
| 12 | Q. Okay. Do you know who Dr. Regan is? |
| 13 | A. I do not know him personally, but I am |
| 14 | familiar with who he is, yes. |
| 15 | Q. Okay. Are you familiar with the publications |
| 16 | of from Dr. Reagan during the late '90s about |
| 17 | inserting the long BAK cage in a lateral approach? |
| 18 | A. I have |
| 19 | MR. ROSATO: Objection to form. |
| 20 | THE WITNESS: I have general knowledge of his |
| 21 | publications on lateral surgery. And my recollection is |
| 22 | that they didn't involve BAK or other cylindrical cages. |
| 23 | I don't recall the specific dimensions of those devices, |
| 24 | no. |
| 25 | BY MS. WICKRAMASEKERA: Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 38 Q. Okay. If you know who Dr. Michaelson is? |
|----|--|
| 2 | A. I am familiar with Dr. Michaelson. |
| 3 | Q. Are you familiar with Dr. Michaelson's patents |
| 4 | from 1995 that describe lateral implants that span the |
| 5 | full transverse in the vertebral body? |
| 6 | MR. ROSATO: Objection to form, foundation and |
| 7 | scope. |
| 8 | THE WITNESS: I do not have firsthand |
| 9 | knowledge of those, no. |
| 10 | BY MS. WICKRAMASEKERA: |
| 11 | Q. Okay. Are you aware that NuVasive was found |
| 12 | to infringe those patents from Dr. Michaelson regarding |
| 13 | his translateral spinal implant? |
| 14 | MR. ROSATO: Same objection. |
| 15 | THE WITNESS: So it was my understanding that |
| 16 | they were and that there were some elements of that that |
| 17 | are appealed. And, again, my area of expertise is not |
| 18 | specific claims associated with patents. So I can't |
| 19 | tell I can speak to that. Dr. Youssef would probably be |
| 20 | better versed. |
| 21 | BY MS. WICKRAMASEKERA: |
| 22 | Q. So you're not aware that the Federal Circuit |
| 23 | affirmed the jury's verdict that NuVasive's CoRoent XL |
| 24 | implant infringes Dr. Michaelson's translateral spinal |
| 25 | <pre>implant patent, correct? Litigation Services 800-330-1112</pre> |

| 1 | Page 39 MR. ROSATO: Objection to form, foundation and |
|----|--|
| 2 | scope. |
| 3 | THE WITNESS: Again, I know that there are a |
| 4 | number of claims associated with these patents. I'm not |
| | |
| 5 | an expert in the individual claims and |
| 6 | BY MS. WICKRAMASEKERA: |
| 7 | Q. So you didn't consider Dr. Michaelson's 1995 |
| 8 | translateral spinal implant patent, in preparing your |
| 9 | declaration, correct? |
| 10 | MR. ROSATO: Objection. Form, scope, asked |
| 11 | and answered. |
| 12 | THE WITNESS: I did not. |
| 13 | BY MS. WICKRAMASEKERA: |
| 14 | Q. Okay. Were you aware that NuVasive presented |
| 15 | testimony, under penalty of perjury, from Dr. Brantigan |
| 16 | in the jury trial against Medtronic? |
| 17 | A. As stated earlier, I wasn't directly involved |
| 18 | with those proceedings, but I did have some general |
| 19 | awareness that Dr. Brantigan testified in some capacity. |
| 20 | Q. Okay. And were you aware that Dr. Brantigan |
| 21 | testified about his use of his anterior cages that |
| 22 | were made by AcroMed that were long and that he inserted |
| 23 | using the lateral approach? |
| 24 | MR. ROSATO: Objection. Form, foundation, |
| 25 | scope. I'm going to note, you are introducing Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 40 representations of evidence that's not in record. |
|----|--|
| 2 | MS. WICKRAMASEKERA: That's fine. |
| 3 | MR. ROSATO: And I don't like where you are |
| 4 | going with this. |
| | |
| 5 | MS. WICKRAMASEKERA: That's fine. He can tell |
| 6 | me whether he is aware of it or not. |
| 7 | THE WITNESS: I'm sorry. Can you restate the |
| 8 | question? |
| 9 | BY MS. WICKRAMASEKERA: |
| 10 | Q. Sure. Are you okay. Actually, did you |
| 11 | let me just ask this simpler, okay? |
| 12 | Did you consider the testimony presented by |
| 13 | NuVasive from Dr. Brantigan, under penalty of perjury, |
| 14 | in the jury trial against Medtronic, in preparing your |
| 15 | declaration? |
| 16 | A. I did not consider the testimony of Dr. |
| 17 | Brantigan, no. |
| 18 | Q. Okay. But you were aware there was testimony |
| 19 | from Dr. Brantigan? |
| 20 | A. Again, as I stated |
| 21 | MR. ROSATO: Objection. Asked and answered, |
| 22 | scope. |
| 23 | THE WITNESS: As I stated previously, I was |
| 24 | not aware I was not party to the proceedings. I was |
| 25 | not aware of the specifics associated with that Litigation Services 800-330-1112 www.litigationservices.com |

Page 41 1 testimony, no. BY MS. WICKRAMASEKERA: Okay. So when you refer in your declaration Q. 3 to the length of the CoRoent implant being novel --I'm sorry. Could you --5 A. Actually, you know what? Let me ask you that, 6 as a foundational question. 7 Do you believe that the length of the CoRoent 8 9 XL -- do you believe the length of the CoRoent XL 10 implant is novel? MR. ROSATO: Objection. Form, foundation and 11 12 scope. 13 THE WITNESS: I believe, at least, again, based on my experience having competed against NuVasive 14 15 in the marketplace when they introduced the CoRoent XL 16 implant and then having represented it, marketed it, sold it, having the optionality of lengths, you know, 17 greater than 40 millimeters -- or 40 millimeters and 18 greater, I believe to be novel, based on my experience 19 20 at the time. BY MS. WICKRAMASEKERA: 21 22 Okay. So that in -- and is that belief reflected in your declarations? 23 24 I don't recall if that is cited specifically. 25 I believe my reference to -- there is a reference to Litigation Services | 800-330-1112 www.litigationservices.com

Page 42 size which would include -- in my mind, would have been inclusive of the overall dimensions. Now, you refer in paragraph 15 to testimony 3 from Mr. Miles, "that the CoRoent XL implants were the first commercially available lumbar interbody implants 5 having a length greater than 40 millimeters." Do you see that? A. I'm sorry? It is in paragraph 15. Did I refer to it 10 wrong? 11 Yes, I see it in paragraph 15. 12 Q. Yes. 13 A. "Mr. Miles further testified," yes. So Mr. -- you state that, "Mr. Miles further 14 testified that the CoRoent XL implants were the first 15 commercially available lumbar implants having a length 16 greater than 40 millimeters." Do you see that? 17 18 A. I don't believe that's exactly what that 19 statement says. 20 You go on to state further things about the width and the other -- and other aspects --21 22 I don't -- I didn't actually state this. Mr. Miles stated this. 23 24 Right. I think I said that you stated that 25 Mr. Miles did, but if I didn't, let me ask the question Litigation Services 800-330-1112 www.litigationservices.com

Page 43 1 again. Okay? In paragraph 15, you state that, "Mr. Miles further testified that the CoRoent XL implants were the 3 first commercially available lumbar interbody implants having a length greater than 40 millimeters." 5 Do you see that? A. Yes, but it also says, "Implants having a length greater than 40 millimeters, a maximum width of 18 and designed for insertion," a direct lateral 10 transpsoas approach to the lumbar spine." I don't -- I don't believe that those -- at least my interpretation 12 of those comments from Mr. Miles were not that each of those is mutually exclusive, but that they are 13 interrelated. 14 15 Q. Right. That's fair. So let me ask you first about the length 16 greater than 40 millimeters. Do you agree with Mr. 17 Miles' statement that CoRoent XL implants were the first 18 commercial available lumbar interbody implants having a 19 20 length greater than 40 millimeters? A. Again, I think you are mischaracterizing the 21 22 statement. I don't believe -- at least my 23 interpretation of this is not that he was saying it was 24 greater -- independently greater than 40 millimeters. 25 He is saying that it was greater than 40 millimeters, Litigation Services | 800-330-1112 www.litigationservices.com

Page 44 inclusive of a maximum width of 18 millimeters, and designed for lateral. That was my interpretation of this statement. Q. Okay. That's fair. 5 So what I want to ask you, though, is I want to specifically ask the 40-millimeter-length portion of the implant and take each one in turn. I understand that you are talking --I don't believe that's an accurate reflection 10 of the statement, though. Okay. Well, let me just ask you this. Do you 11 believe that NuVasive was the first to have a 40 12 13 millimeter lumbar implant? MR. ROSATO: Objection to form, foundation, 14 15 asked and answered. 16 THE WITNESS: I do not know that NuVasive was the first to have a 40 millimeter implant. 17 BY MS. WICKRAMASEKERA: 18 19 Q. Okay. Do you believe that NuVasive was the 20 first to have an implant that measured 18 millimeters in 21 the anterior-posterior direction? 22 MR. ROSATO: Objection. Form, foundation, 23 scope. 24 THE WITNESS: I do not know that NuVasive was 25 the first to have a implant that measured 18 Litigation Services | 800-330-1112 www.litigationservices.com

| _ | Page 45 |
|----|--|
| 1 | millimeters. And per the statement, I think the |
| 2 | interpretation of importance was a combination of the |
| 3 | length and the width of the implant. |
| 4 | BY MS. WICKRAMASEKERA: |
| 5 | Q. Okay. So you don't have any opinion as to |
| 6 | whether NuVasive was the first to have an implant that |
| 7 | measured 18 millimeters in the anterior to posterior |
| 8 | dimension? |
| 9 | MR. ROSATO: Objection. Scope. |
| 10 | THE WITNESS: I think my previous answer is |
| 11 | the same, which is, I don't know that to be true or not. |
| 12 | BY MS. WICKRAMASEKERA: |
| 13 | Q. Okay. Do you believe that NuVasive was the |
| 14 | first to design an implant for a direct lateral |
| 15 | approach? |
| 16 | MR. ROSATO: Objection to form, foundation and |
| 17 | scope. |
| 18 | THE WITNESS: I don't know that to be true or |
| 19 | not. |
| 20 | BY MS. WICKRAMASEKERA: |
| 21 | Q. Do you believe that NuVasive was the first to |
| 22 | design an implant for insertion using the transpsoas |
| 23 | approach? |
| 24 | MR. ROSATO: Same objection. |
| 25 | THE WITNESS: I don't know that to be true or Litigation Services 800-330-1112 www.litigationservices.com |

Page 46 1 not. 2 BY MS. WICKRAMASEKERA: And so just to round this out on the 3 skepticism. The skepticism that you are referring to in 4 your declaration regarding the CoRoent XL implant is 5 specifically skepticism of the width and the length of 6 the implant; is that correct? 7 MR. ROSATO: Objection. Form, asked and 8 answered. 9 10 THE WITNESS: Yeah, so my understanding, consistent with Ms. Howell's statement as well as my own 11 12 experience, was that there was a skepticism over the 13 overall size of the implant; width being one consideration; the availability of length, in 14 15 particular, the length in excess of 40 millimeters, that 16 allowed positioning of the implant to bridge the 17 apophyseal ring and optimize the stability. I'm unaware of other implants, as Mr. Miles 18 said, that offered all of those features or benefits 19 20 through geometry being length of 40 millimeter and greater, along with a width of 18 millimeters 21 specifically designed to be facilitated through a 22 23 lateral approach. 24 And so I agree with Mr. Miles' statements that the combination of those features were unique, based on Litigation Services 800-330-1112 25 www.litigationservices.com

Page 47 my experience. 1 BY MS. WICKRAMASEKERA: I notice in your excerpts of Ms. Howell's 3 testimony, paragraph 14, you cut off her answer. Do you 4 5 know why you did that? MR. ROSATO: Objection to form. 6 THE WITNESS: I do not recall at the time. 7 recollection was in my discussion around experience around skepticism related to the size and geometry of 10 the implant, that Ms. Howell's statements were consistent with what I have heard her and others 11 characterize previously as well as my own experience. 12 13 BY MS. WICKRAMASEKERA: O. And how -- how did -- what did Ms. Howell 14 15 testify -- or how did Ms. -- withdrawn. 16 Did Ms. Howell testify as to how NuVasive overcame that skepticism? 17 A. I do not recall the specifics of her 18 testimony. I can speak from my own experience, how I 19 20 believe that was addressed in the market. 21 Q. How do you believe that was addressed in the market? 22 23 Well, in paragraph 12, I state specifically, 24 "NuVasive undertook considerable efforts to overcome the 25 skepticism expressed by industry professionals, Litigation Services 800-330-1112 www.litigationservices.com

Page 48 including establishing a cadaver lab in San Diego, 1 California headquarters as an XLIF training center, " that being one component of it. How did that specifically address skepticism regarding the length and the width of the implant? 5 MR. ROSATO: Objection to form. 6 THE WITNESS: So in my experience, it provided a forum for surgeons to appreciate the anatomic, you know, geometry of the spine and the ability to -- and 10 surrounding that, I mean, the ability to safely deliver the implant. 11 12 So I believe that training component was 13 important, and that -- an important part of the education process. 14 15 BY MS. WICKRAMASEKERA: 16 Was there any skepticism expressed regarding the location of the markers in the implant? 17 18 MR. ROSATO: Objection to form, foundation. THE WITNESS: I don't recall there -- I don't 19 20 recall, in my own experience, that being a primary point 21 of skepticism, no. 22 BY MS. WICKRAMASEKERA: 23 Q. Do you recall any skepticism about whether 24 placing the markers in the middle of the implant would assist a surgeon with aligning the implant during Litigation Services | 800-330-1112 25 www.litigationservices.com

| 1 | insertion? |
|----|--|
| 2 | MR. ROSATO: Objection to form, foundation, |
| 3 | scope. |
| 4 | THE WITNESS: I don't recall any skepticism |
| 5 | with the markers yeah placement of the markers are |
| 6 | the role they played in visualization of the implant. |
| 7 | BY MS. WICKRAMASEKERA: |
| 8 | Q. How did NuVasive know that you could place the |
| 9 | markers in the middle of the implant and that would be |
| 10 | useful to a surgeon? |
| 11 | MR. ROSATO: Objection. Scope, form. |
| 12 | THE WITNESS: So, again, just based on my own |
| 13 | experience and recollection of, you know, what I |
| 14 | understood it, it was just through clinical evaluation |
| 15 | of the implant. |
| 16 | BY MS. WICKRAMASEKERA: |
| 17 | Q. Before the implant was made or after? |
| 18 | A. Again, at least to my understanding. I did |
| 19 | not have direct involvement in the development of the |
| 20 | implant, but through the development of the implant |
| 21 | utilization, I think as I stated in my declaration, in |
| 22 | addition to utilizing the cadaver lab as a training |
| 23 | facility, it was also a testing facility, not just for |
| 24 | XLIF, but other procedures. |
| 25 | So it was my understanding, just based on my Litigation Services 800-330-1112 www.litigationservices.com |

Page 50 experience, that they evaluated different options to 1 facilitate the -- how best to visualize the orientation of the implant in the space. I think, given the size 3 and geometry of the implant, accurate visualization of its placement in the disc space was deemed as important. 5 I certainly heard that type of feedback from surgeons. 6 And, at least, again, just based on my experience, there is implants that have different marker types and different marker orientations that, I've 10 heard, suggested are more difficult to understand the orientation of the implant in the disc space. 11 12 Are those implants that have different marker 13 types and different orientations, that you just 14 testified were more difficult to understand, were those 15 prior our implants? 16 MR. ROSATO: Objection to form. THE WITNESS: I don't know. 17 BY MS. WICKRAMASEKERA: 18 Okay. 19 Q. I'm speaking from my clinical experience. 20 21 Your clinical experience being -- starting from what time -- time period? 22 I started in the spine industry in 2004. 23 24 Okay. Do you recall any skepticism about 25 fusion aperture passing through the implant, Litigation Services 800-330-1112 www.litigationservices.com

| 1 | from the top to bottom? |
|----|---|
| 2 | A. I don't recall a skepticism specific to the |
| 3 | fusion aperture. |
| 4 | Q. Do you recall any skepticism regarding the |
| 5 | number of radiopaque markers to put in the implant? |
| 6 | A. I do not recall skepticism specific to the |
| 7 | number of markers. |
| 8 | Q. Do you believe that NuVasive was the first to |
| 9 | conceive of the idea of including radiopaque markers in |
| 10 | a PEEK implant? |
| 11 | MR. ROSATO: Objection to form, foundation and |
| 12 | scope. |
| 13 | THE WITNESS: My experience, prior to |
| 14 | NuVasive, was that other implants had radiopaque markers |
| 15 | in them. |
| 16 | BY MS. WICKRAMASEKERA: |
| 17 | Q. Okay. And the 18-millimeter width that you've |
| 18 | referred to for the CoRoent XL implant, what were the |
| 19 | what were the primary anatomical considerations in |
| 20 | arriving at the 18-millimeter width? |
| 21 | MR. ROSATO: Objection to form and foundation. |
| 22 | THE WITNESS: At least, again, I was not at |
| 23 | NuVasive at the time the implant was developed. My |
| 24 | understanding at the time that I arrived at NuVasive was |
| 25 | that the desire was to make the implant as wide as Litigation Services 800-330-1112 www.litigationservices.com |

Page 52 1 possible. And, again, as -- when I started with the company in 2006, as I understood at that time, the 3 limitation to making the implant wider was the initial skepticism and feedback from the clinical community, 5 that the 18-millimeter-wide implant could be a challenge 6 clinically to place. And so ... BY MS. WICKRAMASEKERA: Q. So when you say it "could be a challenge 10 clinically to place," do you mean -- do you mean its placement safely on the vertebral body or in the 11 12 intervertebral space itself or do you mean the path of 13 insertion? Both are considerations. 14 15 Okay. And let's take the first one, in terms 0. of the -- where it sits in the intervertebral space. 16 17 A. Yes. What are the -- what are the considerations 18 19 there? 20 Primary considerations would be a -- if the implant was placed, I think at least in my experience, 21 22 the primary concern was that the implant was placed too far anterior. It could, upon placement, violate and 23 24 involuntary release the ligament that sits across the front of the spine, which is an important factor in Litigation Services | 800-330-1112 25 www.litigationservices.com

| 1 | Page 53 stabilization, but also protects the vascular structures |
|----|---|
| 2 | that reside in the anterior part of the lumbar spine. |
| 3 | Q. Do you know what the common anterior-posterior |
| 4 | dimension was of the implants that were inserted that |
| 5 | were commercially available prior to the CoRoent XL? |
| 6 | MR. ROSATO: Objection to form, foundation. |
| 7 | THE WITNESS: From what approach? |
| 8 | BY MS. WICKRAMASEKERA: |
| 9 | Q. From any approach. |
| 10 | A. Okay. |
| 11 | Q. And I'm talking about the reason why I said |
| 12 | anterior-posterior dimension, is I mean approach. |
| 13 | A. Okay. |
| 14 | Q. Anterior-posterior dimensions. Are you |
| 15 | familiar with what is commercially available? |
| 16 | A. So |
| 17 | MR. ROSATO: Same objection. |
| 18 | THE WITNESS: from a posterior approach, in |
| 19 | my experience, an average width was probably somewhere |
| 20 | between 9 and 11 millimeters. |
| 21 | BY MS. WICKRAMASEKERA: |
| 22 | Q. But you're not talking in a posterior |
| 23 | approach, when you are referring to the width, that's |
| 24 | not the anterior-posterior dimension, is it? |
| 25 | A. If you place it correctly, it is, yes. So if Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 54 you do if you do an anterior TLIF procedure, which is |
|----|--|
| 2 | a banana-shaped cage to the front of the spine. |
| 3 | Q. All right. |
| 4 | A. Which will sit in a similar orientation to an |
| 5 | ALIF or an XLIF, that is that is the correct |
| 6 | orientation in width. |
| 7 | Q. Okay. So if you are doing a PLIF, a bilateral |
| 8 | PLIF, you are familiar with the bilateral PLIF |
| 9 | (Reporter asks for clarification.) |
| 10 | BY MS. WICKRAMASEKERA: |
| 11 | Q. If you are doing the commercially-available |
| 12 | cages that were used for a bilateral PLIF at the time |
| 13 | A. Right. |
| 14 | Q before CoRoent XL, what was the typical |
| 15 | anterior to posterior dimension of those implants? |
| 16 | MR. ROSATO: Objection to form, foundation and |
| 17 | scope. |
| 18 | THE WITNESS: Yeah, so depending on the |
| 19 | offering, there was a there is a wide range of |
| 20 | offerings. I can't tell you, yeah, conclusively, what |
| 21 | the range or average would be. Based on my experience, |
| 22 | I'd say the average length is probably in the |
| 23 | neighborhood of 25 millimeters. |
| 24 | Again, what you're you're comingling, you |
| 25 | know, the clinical requirements based on the approach, Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 55 because while you had a you are talking about an |
|----|---|
| 2 | implant that is placed in a different orientation. You |
| 3 | are talking about an implant that's contained entirely |
| 4 | within the disc space, not designed to bridge across the |
| 5 | apophyseal ring. |
| 6 | And so I think you are trying to make a |
| 7 | comparison to dimensions that are unrelated to one |
| 8 | another. So if you wanted to make a more accurate |
| 9 | comparison |
| 10 | BY MS. WICKRAMASEKERA: |
| 11 | Q. Yeah. |
| 12 | A you could compare it to an ALIF. |
| 13 | MR. ROSATO: Let him finish. |
| 14 | BY MS. WICKRAMASEKERA: |
| 15 | Q. Okay. |
| 16 | A. You can compare it to an ALIF. |
| 17 | Q. Okay. |
| 18 | A. And similarly, while you have a wider implant |
| 19 | front to back, anterior to posterior, than 18 |
| 20 | millimeters, you have a narrower implant laterally, |
| 21 | typically, than the CoRoent XL. And, again, the |
| 22 | independent of how they are used, because surgeons can |
| 23 | ultimately use an implant at their discretion, an ALIF |
| 24 | implant is designed to be contained within the disc |
| 25 | space. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 56 And an XLIF or CoRoent XL implant is |
|----|---|
| | |
| 2 | designed to bridge across the interbody space. And so |
| 3 | when you think about the anterior-posterior dimension |
| 4 | relative to the width, you have a vertebral body that is |
| 5 | not of uniform width. |
| 6 | Q. Right. |
| 7 | A. And so you are talking about very different |
| 8 | anatomic considerations as you comingle approaches in |
| 9 | the dimension of an implant of one approach versus the |
| 10 | other. |
| 11 | Q. Now, the CoRoent XL implant doesn't actually |
| 12 | sit on the apophyseal ring on the anterior portion of |
| 13 | the vertebrae, does it? |
| 14 | A. I'm sorry? |
| 15 | Q. The CoRoent XL implant does not actually sit |
| 16 | on the apophyseal ring on the anterior portion of the |
| 17 | vertebral body, correct? |
| 18 | A. Again, so in my experience and how we how |
| 19 | NuVasive promoted the technique, oftentimes, if not, I'd |
| 20 | say most oftentimes, included a discussion around |
| 21 | placing an implant that bridged the apophyseal ring. |
| 22 | Q. Now, when you say "bridged the apophyseal |
| 23 | ring," you're referring to the portions of the |
| 24 | apophyseal ring on the lateral aspects of the vertebral |
| 25 | body; am I correct? Litigation Services 800-330-1112 www.litigationservices.com |

Page 57 Α. That is correct. 1 Okay. So you are not you are referring to the portions of the apophyseal ring that are on the anterior 3 and posterior portions of the vertebral body, correct? That would be -- in my experience, that would 5 be typically correct, yes. 6 7 Q. Okay. And so you believe that NuVasive was the first to conceive of the concept of sizing an 8 9 implant to bridge the apophyseal ring; is that correct? 10 MR. ROSATO: Objection. Form, foundation and 11 scope. 12 THE WITNESS: I did not say that. And I don't 13 know that to be true or not. BY MS. WICKRAMASEKERA: 14 15 When the CoRoent XL implant is inserted, is 0. the -- is the -- actually, withdrawn, because I can't 16 remember the name of that portion of the anatomy. 17 What is it called, the contralateral -- the 18 part of the disc that remains on the contralateral side 19 20 when you do a lateral procedure? Do you recall what 21 that's called? Do you know what I'm talking about? I'm not trying to be difficult. 22 23 Q. Yeah. In my experience, if you are doing a lateral 24 interbody preparation correctly, there should not be Litigation Services | 800-330-1112 25 www.litigationservices.com

| 1 | Page 58 disc or annulus intact on the contralateral side. |
|----|--|
| 2 | Q. There should not be? Don't you release it but |
| 3 | don't remove it? |
| 4 | A. I mean |
| 5 | MR. ROSATO: Objection to form, foundation |
| 6 | scope. |
| 7 | BY MS. WICKRAMASEKERA: |
| 8 | Q. Do you know? |
| 9 | A. No, I know. |
| 10 | Q. Yeah. |
| 11 | A. If you if you again, in my experience |
| 12 | Q. Right. |
| 13 | A the technique that we taught and |
| | |
| 14 | promoted |
| 15 | Q. Yeah. |
| 16 | A to our surgeons and including the |
| 17 | certifications we provide in on the procedure, our |
| 18 | sales force, is that you would comprehensively evacuate |
| 19 | the disc across the disc space and that you would |
| 20 | completely disrupt the annulus on the contralateral |
| 21 | side. |
| 22 | Q. Okay. So there is no portion of the anulus on |
| 23 | the contralateral side that would remain intact? |
| 24 | MR. ROSATO: Objection. Form, foundation, |
| 25 | scope. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 59 THE WITNESS: Again, it would depend on the |
|----|--|
| 2 | surgeon's technique and how how aggressively they |
| 3 | release the annulus. |
| 4 | BY MS. WICKRAMASEKERA: |
| | |
| 5 | Q. Okay. |
| 6 | A. The as I understand how we have most |
| 7 | consistently taught the technique would be a release of |
| 8 | the contralateral annulus, you know, consistent to the |
| 9 | width of the implant, ideally. |
| 10 | Q. Right. But a release and a removal of the |
| 11 | contralateral annulus are two different things, correct? |
| 12 | MR. ROSATO: Same objection. |
| 13 | THE WITNESS: It could be, I suppose, yes. |
| 14 | BY MS. WICKRAMASEKERA: |
| 15 | Q. Okay. And if you release but don't remove the |
| 16 | contralateral annulus, it is still attached to the |
| 17 | apophyseal ring, correct? |
| 18 | A. Again, I'm not sure if that's an accurate |
| 19 | characterization or not. |
| 20 | Q. Do you have any reason to believe it is not |
| 21 | accurate? |
| 22 | MR. ROSATO: Objection. Asked and answered. |
| 23 | THE WITNESS: Yeah, I'm not sure I'm actually |
| 24 | clear on what you are asking. |
| 25 | BY MS. WICKRAMASEKERA: Litigation Services 800-330-1112 www.litigationservices.com |

Page 60 1 If you release but don't remove the Q. contralateral annulus, what is the contralateral annulus connected to on the vertebral body? 3 MR. ROSATO: Objection. Form, scope, asked and answered. 5 THE WITNESS: In theory, it would be attached 6 7 to the vertebral end plate. BY MS. WICKRAMASEKERA: At what point? 10 A. On or about the -- yeah, the edge of the vertebral body, which would be an approximation to the 11 12 apophyseal ring. Whether or not the implant sits in 13 direct contact with the apophyseal ring, if there happens to be some element of annular tissue that's 14 15 remnant, in my experience based on my knowledge, I don't 16 believe implants the biomechanic stability of the -- of 17 the implant. 18 In paragraph 20 of your declaration, you provide a side-by-side comparison of a CoRoent XL and 19 20 the Alphatec Battalion implants. Do you see that? 21 A. I do see that, yes. And you refer to the side-by-side comparison 22 23 as showing "the striking similarities between NuVasive's 24 CoRoent XL and Alphatec's Battalion implants." Do you see that? 25 800-330-1112 www.litigationservices.com

Page 61 A. I do see that, yes. 1 In preparing your declaration, did you consider the Court's -- in the District Court, the 3 Court's dismissal of NuVasive's claims that Alphatec's Battalion lateral implant was similar in design to the 5 6 CoRoent XL? MR. ROSATO: Objection. Form, foundation and scope. And we are also introducing inaccurate 8 characterizations of evidence that's not in record. 10 THE WITNESS: I did not consider that, no. 11 BY MS. WICKRAMASEKERA: 12 Okay. If the Court in the District Court 13 litigation concluded that Alphatec's Battalion lateral 14 implant had obvious differences between the CoRoent XL 15 implant and -- with the CoRoent XL implant, would you 16 disagree? MR. ROSATO: Same objection. 17 18 THE WITNESS: Again, I'm not an attorney. I don't have the ability, I think, to form an opinion off 19 20 of some legal judgment or ruling. BY MS. WICKRAMASEKERA: 21 22 If the Court in the District Court litigation 23 had concluded that the design of the CoRoent XL implant 24 and the Battalion lateral implant were plainly 25 dissimilar, would you disagree?
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Page 62 MR. ROSATO: Same objection. 1 THE WITNESS: Again, I'm not an attorney and I'm not sure I'm qualified to make a decision on that basis. BY MS. WICKRAMASEKERA: 5 No one provided you a copy of the Court's 6 order dismissing NuVasive's design-pattern claims, in 7 preparing your declaration? MR. ROSATO: Same objection. 10 THE WITNESS: I did not review that, no. 11 BY MS. WICKRAMASEKERA: 12 Q. Do you recall NuVasive making public 13 statements to investors, following the jury verdict, that it infringed the Medtronic implant patent? 14 15 MR. ROSATO: Objection. Form, foundation, 16 scope. THE WITNESS: I have a general recollection of 17 18 statements. I don't recall the exact form, whether it 19 be press release or otherwise. I don't recall the 20 specifics now. Several -- many years ago. BY MS. WICKRAMASEKERA: 21 22 In 2012, did you have any involvement with Q. 23 CoRoent? 24 A. In 2012, I was in a sales leadership role of in that capacity, was responsible for the sales Litigation Services | 800-330-1112 25 www.litigationservices.com

Page 63 1 and promotion of CoRoent implants, yes. What design-arounds were considered by NuVasive for the CoRoent XL implants to address the 3 jury's verdict in the -- in the Medtronic case? MR. ROSATO: Objection. Form, foundation, 5 scope. I'll caution we be careful about privileged 6 information. 7 THE WITNESS: I don't recall having any 8 9 firsthand knowledge related to the specifics of the 10 technical design of the implant at that time. BY MS. WICKRAMASEKERA: 11 12 Do you know which patents NuVasive was found 13 to infringe in the Medtronic case? I do not know, off the top of my head. 14 15 MR. ROSATO: Objection. Form, foundation, 16 scope. 17 BY MS. WICKRAMASEKERA: You didn't review the Federal Circuit's 18 decision regarding the jury verdict of infringement in 19 20 the Medtronic case, in preparing your declaration? 21 MR. ROSATO: Objection. Form, foundation and 22 scope. 23 THE WITNESS: I did not. Like I said, I am 24 not an attorney as it relates to legally interpret these claims and implications. Litigation Services 25 800-330-1112

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Page 64

- 1 BY MS. WICKRAMASEKERA:
- Q. Aside from Dr. Youssef, are you aware of
- 3 anyone else stating that Alphatec copied the design of
- 4 the NuVasive CoRoent XL implant?
- 5 A. As indicated in the declaration, it was the
- 6 expert opinion of Dr. Youssef that I relied upon, with
- 7 respect to the claims on the -- as it reflected in the
- 8 patents, and the similarity.
- 9 Q. Okay. I'm -- I think I'm speaking more
- 10 generally regarding your opinion as expressed in
- 11 paragraph 20, that the CoRoent XL and Alphatec Battalion
- 12 lateral -- Battalion implants are strikingly similar.
- 13 With respect to that opinion, are you aware of anyone,
- 14 other than Dr. Youssef, expressing to you that opinion?
- 15 A. Yeah, so as I read paragraph 20 and recall as
- 16 best I can, the declaration, I believe that's reflective
- 17 of my opinion that per the exhibits or images that are
- 18 provided in the declaration, in my opinion, they look
- 19 similar or nearly identical.
- Q. Okay. Has anyone else expressed to you --
- 21 other than Dr. Youssef, has anyone else expressed to you
- 22 that the implants, the two implants, are strikingly
- 23 similar?
- A. I haven't actively sought that input.
- Q. No one said it to you anyway, despite your not Litigation Services | 800-330-1112 www.litigationservices.com

| 1 | Page 65 actively seeking it? |
|----|---|
| 2 | MR. ROSATO: Objection. Asked and answered. |
| 3 | THE WITNESS: I haven't actively sought that |
| 4 | input, no. |
| 5 | MS. WICKRAMASEKERA: We could probably take a |
| 6 | break now. |
| 7 | MR. ROSATO: Okay. |
| 8 | (Recess.) |
| 9 | BY MS. WICKRAMASEKERA: |
| 10 | Q. Mr. Link, could you turn to paragraph 13 of |
| 11 | your report. |
| 12 | A. Yes. |
| 13 | Q. Let me know once you are there. |
| 14 | A. I'm on paragraph 13. |
| 15 | Q. Okay. Do you see the second sentence of |
| 16 | paragraph 13? It starts with "only"? |
| 17 | A. Yes. |
| 18 | Q. Okay. So in paragraph 13, you state, "Only a |
| 19 | handful of highly-skilled surgeons had even attempted a |
| 20 | minimally-invasive lateral approach for degenerative |
| 21 | disc spinal fusion surgery, with mixed results at best." |
| 22 | Do you see that? |
| 23 | A. I do see that, yes. |
| 24 | Q. Which surgeons are you referring to? |
| 25 | A. So, again, based on my understanding during my Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 66 tenure in the company, one surgeon in particular was Dr. |
|----|---|
| 2 | Luiz Pimenta, who had a technique, as I understood it, |
| 3 | for lateral approaches that was different than the, you |
| 4 | know, XLIF procedure and different forms of technology. |
| 5 | I think if you and I guess, again, in my |
| 6 | experience, other surgeons who had done lateral |
| 7 | approaches happen to be familiar with Dr. McAfee. You |
| 8 | could even argue whether or not it was even considered |
| 9 | minimally invasive, depending on how subjectively you |
| 10 | categorize that. But those would be two examples of |
| 11 | others I had been familiar with prior to my my |
| 12 | personal experience with XLIF. |
| 13 | Q. Okay. Are there any other surgeons that you |
| 14 | are referring to here? |
| 15 | A. I don't recall what other surgeons may have |
| 16 | I may have considered at that time. |
| 17 | Q. Okay. How do you measure reproducibility? |
| 18 | A. So I think one of the major measures, at least |
| 19 | in my opinion, in my experience of reproducibility is |
| 20 | whether or not a procedure could be successfully and |
| 21 | broadly adopted. I think that's indicative of |
| 22 | reproducibility. |
| 23 | In my experience, surgeons tend not to adopt |
| 24 | techniques or technologies that don't facilitate good |
| 25 | outcomes. So if it is reproducible, i.e., in the Litigation Services 800-330-1112 |

Page 67 1 ability to achieve a good outcome. I think reproducibility is reflected through the broad clinical and commercial adoption of a technique or technology. 3 There is other, I think, more objective measures which can be, you know, operative time, 5 associated with -- or variability in operative time 6 between clinicians, things like that. But, certainly, I think the adoption within the marketplace is a solid 9 reflection. 10 Q. How many surgeons need to adopt it for it to 11 be considered reproducible? 12 A. I don't have a set definition of what that would be. 13 Does the number of surgeons who adopt it 14 15 depend, in part, on a company's efforts with surgeon 16 training? A. I believe --17 MR. ROSATO: Objection to form and foundation. 18 THE WITNESS: Again, in my experience, a 19 20 surgeon's ability to adopt is related to, I think, the 21 merits and the validity of the technology, overcoming skepticism over their belief in that, safety and 22 23 reproducibility, certainly, can be supported through 24 training and education. 25 BY MS. WICKRAMASEKERA: Litigation Services 800-330-1112 www.litigationservices.com

| 1 | Q. Have you okay. |
|----|---|
| 2 | Is there an objective way to measure safety? |
| 3 | A. Yes, I believe there is. |
| | |
| 4 | Q. And what is that measure, objective measure? |
| 5 | A. Again, based on my experience in the industry, |
| 6 | typically, safety would be reflected through |
| 7 | complications measured or associated with a surgical |
| 8 | procedure. |
| 9 | Q. Okay. So for lateral procedures, what |
| 10 | complication rates would be considered the threshold for |
| 11 | safety versus safe versus non-safe? |
| 12 | A. I think the primary consideration would be how |
| 13 | those complication rates compare to other procedures or |
| 14 | interventions intended to address the same pathology or |
| 15 | anatomic disease. |
| 16 | Q. So is there a single objective measure to |
| 17 | determine whether a lateral approach is safe or not |
| 18 | safe? |
| 19 | A. I am not aware of one single measure. I am |
| 20 | aware of several hundred published studies or examples |
| 21 | of clinical evidence related to XLIF that show a |
| 22 | clinical profile as safe, or more safe, than other |
| 23 | surgical techniques that have commonly been used to |
| 24 | address spinal pathology. |
| 25 | Q. As safe as ALIF? Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | A. I believe that the body of clinical evidence |
|----|--|
| 2 | around XLIF demonstrates a safety profile as good as |
| 3 | ALIF, yes, in my opinion and my experience. |
| 4 | Q. Is there an objective measure to determine |
| 5 | whether a lateral approach is reproducible or not |
| 6 | reproducible? |
| 7 | A. I'm not aware of a single objective measure. |
| 8 | I would say that my characterization of it as safe and |
| 9 | reproducible, again, is a reflection of the broad |
| 10 | adoption that we have seen of the technique in the |
| 11 | marketplace, including within academic training centers. |
| 12 | It is also how I've heard XLIF categorized by clinicians |
| 13 | as well as other executives who have been either at |
| 14 | NuVasive or previously at NuVasive, like Ms. Miles and |
| 15 | Ms. Howell. |
| 16 | Q. Is the phrase "safe and reproducible" a |
| 17 | marketing phrase? |
| 18 | A. In my experience, it is a reflection of how I |
| 19 | have categorized in my own experience and promotion of |
| 20 | the procedure, but I think also a reflection of how the |
| 21 | company has assessed the procedure, but also how the |
| 22 | market has received the procedure, based on a safety |
| 23 | profile and the ability to successfully adopt into a |
| 24 | physician's practice, or surgeon's practice, in a manner |
| 25 | similar to other spinal surgery techniques. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Q. Are you aware of who within NuVasive came up |
|----|---|
| 2 | with the term "safe and reproducible"? |
| 3 | MR. ROSATO: Objection. Form, foundation. |
| 4 | THE WITNESS: I'm not aware of that phrase |
| 5 | being attributed to one single individual. |
| 6 | BY MS. WICKRAMASEKERA: |
| 7 | Q. Okay. But NuVasive did come up with the term |
| 8 | "safe and reproducible"? |
| 9 | A. I can't say conclusively that NuVasive coined |
| 10 | the phrase "safe and reproducible," and that it's never |
| 11 | been used in conjunction with any other surgical |
| 12 | technology, let alone spine technology, no. |
| 13 | Q. Is that a phrase, "safe and reproducible," is |
| 14 | that a phrase you generally associate specifically with |
| 15 | NuVasive? |
| 16 | A. It is a phrase that I have used, yes, in my |
| 17 | time at NuVasive. Yes. |
| 18 | Q. Is it contained in a lot of the marketing |
| 19 | materials for NuVasive? |
| 20 | A. I mean, "a lct" is a subjective word, but I am |
| 21 | familiar with it being utilized in a number of different |
| 22 | marketing materials, yes. |
| 23 | Q. Now, in the middle of your paragraph 13, you |
| 24 | state, "These earlier lateral approaches were not |
| 25 | considered safe or reproducible." And then you go on to Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 71 state a few other things in that sentence. |
|----|---|
| 2 | But I'd like to ask you about your statement |
| 3 | that the lateral approaches the "earlier lateral |
| 4 | approaches were not considered safe or reproducible." |
| 5 | Who specifically did not consider those earlier lateral |
| 6 | approaches to be safe or reproducible? |
| 7 | A. Yeah, so as I stated in my in a previous |
| 8 | response, I think at least in my view, a measure of the |
| 9 | market's perception or acceptance of a of safety and |
| 10 | reproducibility is reflected through the market's |
| 11 | adoption. And in my experience, I did not see other |
| 12 | lateral approaches being widely adopted. |
| 13 | Q. Are there any other factors that would lead to |
| 14 | a competitor company not developing a lateral approach, |
| 15 | aside from safety and reproducibility? |
| 16 | MR. ROSATO: Objection to form and foundation. |
| 17 | THE WITNESS: I suppose there could be. I |
| 18 | have not been party to those discussions at other |
| 19 | companies. |
| 20 | BY MS. WICKRAMASEKERA: |
| 21 | Q. Would, for example, cannibalism of your own |
| 22 | alternative product lines potentially be a reason why |
| 23 | others may not have developed commercial lateral |
| 24 | products before NuVasive? |
| 25 | MR. ROSATO: Objection. Form, foundation, Litigation Services 800-330-1112 |

| 1 | Page 72 scope. |
|----|---|
| 2 | THE WITNESS: Again, I'm not at those other |
| 3 | companies, so I can't speak to what their rationale in |
| | |
| 4 | those decisions were. |
| 5 | BY MS. WICKRAMASEKERA: |
| 6 | Q. So there may be other reasons why others have |
| 7 | not commercially launched a lateral interbody fusion |
| 8 | technique before NuVasive that have nothing to do with |
| 9 | lack of safety and reproducibility; is that correct? |
| 10 | MR. ROSATO: Objection. Form, foundation. |
| 11 | THE WITNESS: Again, I wasn't at those |
| 12 | companies, wasn't party to those discussions. I can |
| 13 | only speak to my experience at NuVasive, where, in |
| 14 | addition to XLIF, we have developed a full line of |
| 15 | complimentary procedures. So that's the only experience |
| 16 | I can speak to. |
| 17 | BY MS. WICKRAMASEKERA: |
| 18 | Q. So you have no opinion, one way or the other, |
| 19 | as to whether there might be other factors other than |
| 20 | safety and reproducibility that might have prevented |
| 21 | other competitors from launching a lateral product |
| 22 | portfolio before NuVasive; is that correct? |
| 23 | A. What I'm saying is, I can't speak factually as |
| 24 | to what their rationale was for whether they made that |
| 25 | decision or not. Litigation Services 800-330-1112 |

| 1 | Q. Now, NuVasive has an ALIF product line, |
|----|---|
| 2 | correct? |
| 3 | A. We do, yes. |
| 4 | Q. And is that safe and reproducible? |
| 5 | A. In my experience, there is a known |
| 6 | complication profile for every procedural type and there |
| 7 | is one associated with ALIF. Yes, there is. But it |
| 8 | has, I think, a complication profile that at this point |
| 9 | seems to have been accepted by the market. |
| 10 | Q. Are you uncomfortable saying that your |
| 11 | NuVasive's ALIF product line is safe and reproducible? |
| 12 | MR. ROSATO: Objection. Form, foundation. |
| 13 | THE WITNESS: I'm just trying to understand |
| 14 | the question as accurately as possible. You asked me |
| 15 | previously how I've categorized something as safe and |
| 16 | reproducible and if there was a objective measure. So |
| 17 | as accurately and as best I can, I'm answering that ALIF |
| 18 | has a known complication profile, but based on its |
| 19 | adoption in the market, it seems to have been accepted. |
| 20 | BY MS. WICKRAMASEKERA: |
| 21 | Q. Is XLIF safe and reproducible? |
| 22 | A. In my experience, I would say, based on its |
| 23 | market acceptance, that it is. |
| 24 | Q. Okay. Is TLIF safe and reproducible? |
| 25 | MR. ROSATO: Objection to form, foundation. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 74 THE WITNESS: Similar to my answer on ALIF, it |
|----|--|
| 2 | has a known complication profile. Based on that and the |
| 3 | clinical experience associated with it, it appears to |
| 4 | have been accepted by the market. |
| 5 | BY MS. WICKRAMASEKERA: |
| 6 | Q. Okay. Is PLIF safe and reproducible? |
| 7 | MR. ROSATO: Objection. Form, foundation. |
| 8 | THE WITNESS: Similar to my answer on ALIF and |
| 9 | TLIF, PLIF has a known risk and complication profile |
| 10 | well accepted by the market. It is an interbody |
| 11 | technique that, I would say, seems to be declining in |
| 12 | market adoption |
| 13 | BY MS. WICKRAMASEKERA: |
| 14 | Q. Does |
| 15 | A based on my opinion and experience. |
| 16 | Q. Does NuVasive have any PLIF products? |
| 17 | A. We do, yes. |
| 18 | Q. Okay. Are they still being sold today? |
| 19 | A. Yes, we still have sales in those products. |
| 20 | Q. Okay. So are PLIFs being performed in |
| 21 | NuVasive products even today? |
| 22 | A. To the best of my knowledge, they are. Yes. |
| 23 | Q. Okay. Do you believe that those procedures |
| 24 | are safe and reproducible? |
| 25 | MR. ROSATO: Objection. Form, foundation. Litigation Services 800-330-1112 www.litigationservices.com |

| 1 | Page 75 THE WITNESS: I believe that I believe the |
|----|--|
| 2 | products that we offer for PLIF are safe, yes. |
| 3 | MS. WICKRAMASEKERA: I don't have anything |
| 4 | further. |
| 5 | MR. ROSATO: Let's take a five-minute break. |
| 6 | (Recess.) |
| 7 | MR. ROSATO: Let's go back on the record. We |
| 8 | have no further questions. Thank you, Mr. Link. |
| 9 | MS. WICKRAMASEKERA: Thank you. |
| 10 | MR. ROSATO: Off. |
| 11 | (Recess.) |
| 12 | COURT REPORTER: Would you like to order a |
| 13 | copy of the transcript and a rough draft? |
| 14 | MS. WICKRAMASEKERA: I will take the rough and |
| 15 | then I guess, yeah, I will do the expedited since |
| 16 | yes. |
| 17 | MR. ROSATO: I don't need anything. |
| 18 | (Deposition concluded at 11:26 a.m.) |
| 19 | |
| 20 | |
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| 1 | Page 76 REPORTER'S CERTIFICATE |
|----|--|
| 2 | |
| 3 | I certify that the foregoing proceedings in |
| 4 | the within-entitled cause were reported at the time and |
| 5 | place therein named; that said proceedings were reported |
| 6 | by me, a duly Certified Shorthand Reporter of the State |
| 7 | of California, and were thereafter transcribed into |
| 8 | typewriting. |
| 9 | I further certify that I am not of counsel or |
| 10 | attorney for either or any of the parties to said cause |
| 11 | of action, nor in any way interested in the outcome of |
| 12 | the cause named in said cause of action. |
| 13 | IN WITNESS WHEREOF, I have hereunto set my |
| 14 | hand this 13th day of January, 2020. |
| 15 | |
| 16 | pash m |
| 17 | JOSHUA MANEA |
| 18 | Calif. CSR No. 13754 |
| 19 | |
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| 1 | ERRATA SHEET | Page | 77 |
|----|--|------------|----|
| 2 | | | |
| 3 | | | |
| 4 | I declare under penalty of perjury that I have read the | | |
| 5 | foregoing pages of my testimony, taken | | |
| 6 | on (date) at | | |
| 7 | (city),(state) | 7 | |
| 8 | | | |
| 9 | and that the same is a true record of the testimony give | en | |
| 10 | by me at the time and place herein | | |
| 11 | above set forth, with the following exceptions: | | |
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| 1 | ī | | ERRAT | 'A SHEET | | | Page | 78 |
|----|-------|------|-----------------|----------------------------------|---------------------------------------|-----|---------|----|
| 2 | Page | Line | Should read: | | Reason | for | Change: | |
| 3 | | | | | | | | |
| 4 | - | | | | | | | _ |
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| 25 | | 1 2 | Litigation Serv | ices 800-33 tionservices.co | 0-1112 om | | | |

| _ | Page 79 |
|----|---|
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Index: \$20..546

| Exhibits | 3:25 4:25 | 12:4 43:9 44:1,20,25 | 2012 62:22,24 | 361 5:16 |
|------------------------------------|---|--------------------------------|---|---|
| EXHIBIT- | 1 | 45:7 46:21 55:19 | 2017 25:10, 17,20 | 362 5:7,20 |
| 00001 3:12 5:15 | 1 3:12 5:12,15 | 18-millimeter 51:17,20 | 2020 1:19 3:9 4:14 | 38th 2:14 |
| EXHIBIT- 00002 3:14 5:18,19 | 100-percent 14:20 | 18-millimeter- wide 25:25 | 206.883.2500 2:8 | 4 4 3:18 6:17, |
| EXHIBIT- 00003 3:16 5:21,23 | 11 53:20 11:26 75:18 | 27:9 52:6 19 37:1 | 213.315.1819 2:16 | 19,21 19:19, 23 |
| EXHIBIT- 00004 3:18 | 12 3:13,15,17 47:23 | 1990s 35:19 37:1 | 25 54:23 | 40 13:3 14:20 35:6,16,23 41:18 42:6,17 |
| 6:17,19,21 | 13 17:23 | 1995 38:4 39:7 | 3 | 43:5,8,17,20, 24,25 44:12, 17 46:15,20 |
| EXHIBIT- 00005 3:19 6:24 7:1 | 65:10,14,16, 18 70:23 | 2 | 3 3:16 5:21,23 17:10,14 19:4 | 40-millimeter- length 44:6 |
| \$ | 13754 1:24 14 47:4 | 2 3:14 5:12, 18,19 33:5 | 30 3:18 | 400 25:21 27:8 28:25 |
| \$20 24:25 | 15 42:3,9,11 | 20 60:18 | 300 4:16 | |
| \$30 24:25 | 43:2 | 64:11,15 | 333 2:14 | 5 |
| \$400 26:17 27:17,23 | 156 3:18 5:7, 20 6:5,11,21 7:15,16 15:20 | 2001 20:11 | 334 3:19 5:7, 16,24 6:5 7:1, 7,9 | 5 3:4,12,14, 16,19 6:24 7:1 16:23,25 |
| 28:17 | | 2004 50:23 | | 17:3 21:24 |
| | 16 25:8,13,19 26:14 28:9 | 2006 20:3 52:3 | 34 3:19 | 5100 2:6 |
| 000 2:25 | 18 11:16,20 | 2007 14:7 | 3580 4:16 | 546 5:7,23 |
| | Litigation | Services | 800-330-1112 | 1 |

| 1 | 00.40.70.00 | | 47.00.04 | 10000 |
|------------------------------------|---------------------------|---|--|--|
| 55 13:3 | 33:1,2 53:20 | 33:23 | 47:20,21 | 19:9 20:12 22:8 23:3 |
| 596168 1:25 | 90071 2:15 | accurate 44:9 50:4 55:8 | addressing 18:1 31:12 | 24:7,19 26:23 27:22 28:3,13 |
| 6 | 90s 36:11 | 59:18,21 | | 30:7 31:8,18 32:9,18 34:14 |
| 5-7 | 37:16 | accurately | adopt 66:23 67:10,14,20 | 35:9 37:5 38:17 39:3 |
| 6 3:18,19 29:5,6 | 98104 2:7 | 73:14,17 | 69:23 | 40:20 41:13 43:1,21 |
| 60 13:5 | 9:35 4:14 | achieve 67:1 | adopted 66:21 71:12 | 49:12,18 50:7 51:22 52:2 54:24 55:21 |
| | A | Acromed 39:22 | adoption | 56:18 58:11 59:1,18 61:18 |
| 7 | | | 67:3,8 69:10 71:11 73:19 | 62:2 65:25 66:5 67:19 |
| 7 1:19 3:9 4:13 30:2,19, | a.m. 4:14 75:18 | across 12:21 52:24 55:4 56:2 58:19 | 74:12 | 68:5 69:9 72:2,11 |
| 23,24 31:2 | ability 48:9, 10 61:19 | actively 64:24 | advantage 26:24 | against 39:16 40:14 41:14 |
| 701 2:6 | 67:1,20 69:23 | 65:1,3 | advantages | 40.14 41.14 |
| 8 | able 12:21 | actually 9:7 12:17 15:18 | 23:21 | aggressively 59:2 |
| 8 24:23 25:2 | academic 69:11 | 21:23 33:15 40:10 41:6 42:22 56:11, | affirmed 4:22 38:23 | ago 62:20 |
| 8,187,334 1:8, 10 4:8,10 | acceptance 71:9 73:23 | 15 57:16 59:23 | afforded 26:23 | agree 43:17 46:24 |
| | 71.575.25 | addition 13:4 | after 4:21 | ahead 5:10 |
| 8,361,156 1:9 4:9 | 73:9,19 74:4, | 19:15 49:22 72:14 | 49:17 | 6:16 32:25 |
| 9 | 10 | address | again 7:6,11 8:23 9:20 | Alex 31:24 |
| 0 20:22 22:25 | access 22:12 31:11,12 | 19:11 48:4 63:3 68:14,24 | 11:4,24 12:10 13:24 16:8 17:22 18:10 | ALIF 9:22 54:5 55:12, |
| 9 30:22 32:25 | accounted | addressed | 17.22 10.10 | 16,23 68:25 |

Index: aligning..assignment

| 69:3 73:1,7, 11,17 74:1,8 | 71:22 | 16,25 11:3, 11,18 12:7,13 | 4:2 | approximation 60:11 |
|--------------------------------|---|---|--|---|
| aligning 48:25 | alternatives 29:18 | 13:17 39:21 45:7 52:23 53:2 54:1,15 | appealed 38:17 | area 19:10,16 38:17 |
| | Although | 55:19 56:12, 16 57:3 | APPEARANC | |
| all 15:15,25 16:11 17:15 | 32:9 | | ES 2:1 | areas 16:11 |
| 18:7,13 46:19 54:3 | anatomic 15:1 22:12 | anterior- posterior 10:8,24 11:8, | appeared 4:19 | argue 66:8 |
| allograft 22:23 23:15 | 48:8 56:8 68:15 | 21 12:4 44:21 53:3,12,14,24 56:3 | appears 74:3 | around 20:11 23:2 34:6 47:8,9 56:20 |
| allowed 46:16 | anatomical 51:19 | anulus 58:22 | application 12:23 | 69:2 |
| alama 40:04 | 45.0 | 00.05 | | array 21:25 |
| along 46:21 | anatomy 15:9 18:2 22:11 57:17 | anyone 33:25 64:3,13,20,21 | appreciate 48:8 | arrived 51:24 |
| Alphatec 1:5, 6 4:5,6 60:20 | | anything | approach | arriving 51:20 |
| 64:3,11 | Angeles 2:15 | 27:10 75:3,17 | 17:8 22:4,12, 24 23:16 | |
| Alphatec's 60:24 61:4,13 | annular 60:14 | anyway 64:25 | 35:16,19,22 36:11 37:2,17 | artificial 23:23 24:3 |
| already 18:16 20:2 | annulus 58:1, 20 59:3,8,11, 16 60:2 | anywhere 19:7 | 39:23 43:10 45:15,23 46:23 53:7,9, | aside 64:2 71:15 |
| also 2:19 13:9 | another 12:21 | aperture 50:25 51:3 | 12,18,23 54:25 56:9 65:20 68:17 | asks 54:9 |
| 19:13 27:5,19 32:21 43:7 | 27:25 55:8 | | 69:5 71:14 | aspects |
| 49:23 53:1 61:8 69:12, | answering 73:17 | apophyseal 46:17 55:5 56:12,16,21, | approaches 8:19 56:8 | 42:21 56:24 |
| 20,21 | | 22,24 57:3,9 59:17 60:12, | 66:3,7 70:24 71:3,4,6,12 | assessed 69:21 |
| alternative | anterior 8:16, 19,21 9:10, | 13 | 7 1.0,4,0,12 | 00.21 |
| 20:7 28:1 | 15,22 10:3,5, | APPEAL 1:2 | approximatel y 24:25 | assignment |
| | Litigation | Commisses I (| 300-330-1112 | |

Index: assist..bridge

| 6:12 8:16 | available 12:4,25 | based 7:15 9:11 10:22 | 41:4 46:13,20 48:3,20 50:21 | 12:7,11 53:20 60:23 61:14 |
|---|--|---|--|---|
| assist 48:25 | 22:11,18 23:22 29:8,14 | 11:24 16:3,5, 9 18:25 20:4 | 70:5,21 71:12 74:18,20 | 67:7 |
| associate 70:14 | 34:8 42:5,16 43:4,19 53:5, 15 | 22:10,24 26:19 29:2 31:18 32:20 41:14,19 | belief 41:22 67:22 | bilateral 54:7, 8,12 |
| associated 11:4 17:19,24 | Avenue 2:14 | 46:25 49:12, 25 50:7 54:21,25 | believe 6:8 7:14 9:2 13:5, | biomechanic 60:16 |
| 18:1 22:11 23:3 29:1 32:11 38:18 39:4 40:25 67:6 68:7 | average 53:19 54:21, 22 | 60:15 65:25 68:5 69:22 73:18,22 74:2,15 | 11,12 14:6,19 27:3,18 28:2, 8,17 32:14,19 34:23 41:8,9, | biomechanica I 26:24 27:4 |
| 73:7 74:3 | aware 23:23 24:13 35:5, 11,18 38:11, | basis 62:4 | 13,19,25 42:18 43:11, 22 44:9,12,19 | BOARD 1:2 4:2 |
| attached 59:16 60:6 | 22 39:14,20 40:6,18,24,25 64:2,13 | Battalion 60:20,24 | 45:13,21 47:20,21 48:12 51:8 | body 38:5 52:11 56:4, 17,25 57:4 |
| attempted 65:19 | 68:19,20 69:7 70:1,4 | 61:5,13,24 64:11,12 | 57:7 59:20 60:16 64:16 67:17 68:3 | 60:3,11 69:1 |
| attorney 2:5, 13 7:11 15:24 61:18 62:2 | awareness 39:19 | before 1:2 4:2,17 5:6 23:24 24:15 | 69:1 74:23 75:1 | both 30:11 31:22 32:1 52:14 |
| 63:24 | В | 49:17 54:14 71:24 72:8,22 | below 33:10 | bottom 51:1 |
| attributed 25:4,5 26:22 27:23 28:3,4, 14 29:1 70:5 | back 17:10 29:5 55:19 75:7 | began 19:20, 22 20:6,7,15 30:8 35:10 | benefits 46:19 best 50:2 | Brantigan 39:15,19,20 40:13,17,19 |
| automatic 17:25 | BAK 35:13, 14,15,18,21 | begin 19:24 21:4 | 64:16 65:21 73:17 74:22 | Brantigan's 24:14 |
| availability 46:14 | 37:2,17,22 | being 7:11 8:5 17:20 | better 12:18 38:20 | break 65:6 75:5 |
| | banana- shaped 54:2 | 23:4,24 35:22 | between 9:9 | bridge 12:21 |

| 46:16 55:4 56:2 57:9 | can't 35:10 38:18 54:20 | centers 69:11 | characterize 13:13 16:11 | clinicians 30:12 67:7 |
|---|---|------------------------------------|---|------------------------------------|
| bridged | 57:16 70:9 72:3,23 | certain 14:20 16:10 | 47:12 | 69:12 |
| 56:21,22 | No. Older | | choose 15:2 | Cohn 4:15 |
| broad 67:2 69:9 | cannibalism 71:21 | certainly 31:23 50:6 67:7,23 | chose 28:1 | coined 70:9 |
| broadly 66:21 | 39:19 62:25 | certainty 14:19 | Circuit 38:22 | combination 30:10 45:2 46:25 |
| built 21:25 | careful 63:6 | 14.10 | Circuit's 63:18 | 40.20 |
| | | CERTIFICATE | | come 70:7 |
| С | Carmel 4:16 | 76:1 | cited 41:24 | |
| CA 2:15 | case 1:5 3:13, 15,17 4:5 5:6 36:5,6 63:4, | certifications 58:17 | claims 7:13, 18 16:1,6,11 | comes 13:22 |
| cadaver 48:1 49:22 | 13,20 | Certified 4:17 | 38:18 39:4,5 61:4 62:7 63:25 64:7 | 56:8 comingling |
| cage 35:13, | 9:22 | challenge 52:6,9 | clarification 54:9 | 54:24 |
| 14,18 37:2,17 54:2 | categorizatio n 28:15 | chance 17:1 | clarify 21:7 | commencing 4:14 |
| cages 35:15, 22 37:22 39:21 54:12 | categorize 11:17 66:10 | change 14:5 | clear 59:24 | comments 43:12 |
| California | categorized | changed 14:6 31:3 | clinical 12:23 26:24 49:14 | commercial 43:19 67:3 |
| 4:17,18 48:2 | 11:15 12:18 18:22 29:19 31:23 69:12, | characterizati on 17:6,18 | 50:20,21 52:5 54:25 67:2 | 71:23 |
| called 4:21 18:17,18 57:18,21 | 19 73:15 | 59:19 69:8 | 68:21,22 69:1 74:3 | commercializ ed 20:3 |
| | caution 63:6 | characterizati ons 61:9 | clinically 52:7,10 | commercially |
| came 70:1 | center 48:2 | | 52.7,10 | |

Index: commercially-availab..Coroent

| 42:5,16 43:4 53:5,15 72:7 | 41:14 | comprise 18:13 | 47:24 | 57:18,19 58:1,20,23 |
|--------------------------------------|------------------------------------|---|---|--|
| commercially- available | competitive 31:20 | conceive 51:9 57:8 | consideration 17:8 46:14 68:12 | 59:8,11,16 60:2 |
| 54:11 common 53:3 | competitor 32:4 71:14 | concept 57:8 | consideration s 51:19 52:14, | contributed 32:23 |
| commonly | competitors 72:21 | concern 34:12,18,19, | 18,20 56:8 | conversation s 16:3 |
| 68:23 | complete 15:25 | 21,24 52:22 concluded | considered 63:2 66:8,16 67:11 68:10 | copied 64:3 |
| 28:6 52:5 | completely | 61:13,23 75:18 | 70:25 71:4 consistent | copy 62:6 75:13 |
| companies 71:19 72:3,12 | 58:20 complication | conclusively 8:9 54:20 | 28:5 46:11 47:11 59:8 | Coroent 7:13, 19,21,23,25 |
| company 14:7 17:22 20:2,5,6,12 | 68:10,13 73:6,8,18 74:2,9 | 70:9 | consistently 59:7 | 8:1,11,12,15, 18,21 9:9,10, 15,16 10:3,5, 25 11:3,9,10, |
| 31:20,24 52:3 66:1 69:21 71:14 | complications 68:7 | 13:16 confusing | construction 33:18 34:2 | 14 12:3,7,24 13:7,8,10,22 14:9,16,23 |
| company's 67:15 | complimentar y 72:15 | 26:10 | contact 60:13 | 15:12 18:18 19:14 21:5,7, 8,13,19 22:14 23:20,25 |
| compare 55:12,16 68:13 | component 17:7 26:16 48:3,12 | 70:11 connected 60:3 | contained 12:20 55:3,24 70:18 | 24:16 25:4,6, 20,25 26:4, 15,22,23 |
| comparison 55:7,9 60:19, | components | consider | context 18:11 19:1 | 27:9,10,16, 18,24 28:10, 14 29:1 32:7, 9,15 33:8,11 |
| 22 | 17:25 18:13 22:1 31:10 | 36:20 37:9 39:7 40:12,16 61:3,10 71:5 | continue 13:14 | 35:7,10 38:23 41:4,8,9,15 42:4,15 43:3, |
| competed | comprehensi vely 58:18 | considerable | contralateral | 18 46:5 51:18 |

Index: correct..development

| 53:5 54:14 | 7:10 | 62:8 63:20 | 19:1 59:1 | designated |
|---|---------------------------|----------------------------------|------------------------|----------------|
| 55:21 56:1, | | 64:5,16,18 | 67:15 | 8:19 |
| 11,15 57:15 | ALCOHOL: N | | | 7.7 |
| 60:19,24 | creating | Land Control | A CONTRACT | S. O. Barriera |
| 61:6,14,15,23 | 16:14 | declarations | depending | designation |
| 62:23 63:1,3 | | 5:11,25 6:6 | 54:18 66:9 | 8:17 |
| | Crock 23:7,12 | 16:13 41:23 | | |
| 64:4,11 | CIUCK 23.7,12 | | demands 45.4 | de alam e d |
| | 10 mg (mg) | 4 5 5 6 | depends 15:1 | designed |
| correct 5:8 | CSR 1:24 | declining | | 12:21 14:13 |
| 7:24 13:20,23 | | 74:11 | deposition | 43:9 44:2 |
| 14:24 28:22 | | | 1:17 3:8 | 46:22 55:4,24 |
| | cut 47:4 | deemed 50:5 | 75:18 | 56:2 |
| 34:21 35:1,2 | | deeliled 50.5 | 75.16 | 1000 |
| 36:3,23 37:10 | | | | |
| 38:25 39:9 | cylindrical | define 17:10 | depth 10:24 | desire 51:25 |
| 46:7 54:5 | 37:22 | | 11:8,10,17,21 | |
| 56:17,25 | | San Barrell | 12:4 | despite 64:25 |
| 57:1,4,6,9 | D | defined 12:19 | 12.7 | Copile 04.20 |
| 59:11,17 | | | And the State of | |
| 72:9,22 73:2 | | defining 10:4 | depths 11:4 | determine |
| ALCOND. WILLIAM STOCK STOCK | | defining 19:4 | Series Manager Manager | 34:24 68:17 |
| | data 27:4 | | | 69:4 |
| correctly | A STANDARD AND A STANDARD | definition | describe 38:4 | |
| 53:25 57:25 | | 19:6 67:12 | | |
| | decision 62:3 | 10.0 01.12 | DESCRIPTIO | develop |
| corridor | 63:19 72:25 | | N 3:11 | 21:18 22:14 |
| TANK STATE OF THE | | degenerative | 3.11 | Terms and |
| 16:15 | decisions | 65:20 | 1 2 3 3 4 | davalensel |
| | 72:4 | | design 8:21, | developed |
| Counsel 2:20 | 12.4 | 1.0 | 22 45:14,22 | 21:12 23:5,24 |
| 23411331 2.20 | | deliver 48:10 | 61:5,23 63:10 | 24:15 51:23 |
| Sant-Arri | declaration | | 64:3 | 71:23 72:14 |
| Court 61:3, | 3:12,14,16 | demand | 04.0 | 1 7 7 7 7 7 |
| 12,22 75:12 | 5:15,20,23 | 26:15 27:15 | The second second | developing |
| | 16:4,8,17,24 | | design- | |
| 0 4 04 0 | 17:11 18:7,17 | 28:10,21 | arounds 63:2 | 71:14 |
| Court's 61:3, | | | | |
| 4 62:6 | 19:3,7,13 | demonstrates | | development |
| | 25:8,19 26:13 | 69:2 | design- | 19:21,22,24 |
| cover 7:17,18 | 31:9 33:2 | JJ.2 | pattern 62:7 | 20:1,5,15 |
| COVEL 7.17,10 | 34:6 36:22 | | 1100 | 21:5 22:9 |
| Commence of the Cold | 37:10 39:9 | demonstratio | docienate | |
| covered 7:13 | 40:15 41:3 | n 28:5 | designate | 23:4 24:8,24 |
| | 46:5 49:21 | | 14:2 | 30:8 32:3,19 |
| 991000.57 | 60:18 61:2 | | | 35:10 49:19, |
| covers 6:11 | | depend 18:10 | | L |
| | | | | 1 |
| | Litigation | Gervices 8 tigationservices | 300-330-1112 | |

Index: developments..evacuate

| 20 | 9:23 22:25 | 27:25 55:23 | draw 22:14 | edge 60:10 |
|---|---|----------------------------|-----------------------------|-----------------------------------|
| developments 20:9 32:20 | 34:7 45:8 53:4,12,24 54:15 56:3,9 | discussed 31:10 | drawbacks 29:10 | education 23:18 48:14 67:24 |
| device 34:15 devices 18:3 | dimensions 12:13,19 | discussion 47:8 56:20 | driven 27:9, 13 | effective 30:3 |
| 37:23 | 37:23 42:2 53:14 55:7 | discussions 71:18 72:12 | driving 27:1 | efforts 47:24 67:15 |
| Diego 4:16 48:1 | direct 43:9 45:14 49:19 | disease 68:15 | drove 26:3,17 | either 16:6 |
| differences | 60:13 | dismissal | due 27:18,19 | 69:13 |
| 9:9 12:6,11 61:14 | direction 10:7,8,13 | 61:4 | duly 4:22 | element 60:14 |
| different 7:20 | 44:21 | dismissing 62:7 | during 30:7,9 36:1 37:16 | elements |
| 9:12,16,24 11:10 12:23 13:13 19:6 | directly 25:5 28:4,14,18,25 39:17 | disrupt 58:20 | 48:25 65:25 | 38:16 |
| 29:8,13 50:1, 8,9,12,13 | | dissimilar | Е | enable 22:3 |
| 55:2 56:7 59:11 66:3,4 | directory 27:23 | 61:25 | e.g. 22:1 | end 12:22 21:24 25:10, |
| 70:21 | disadvantage s 30:4 | District 61:3, 12,22 | each 43:12 | 17,20 60:7 |
| differs 8:21 | | done 66:6 | 44:7 | ending 3:18, 19 |
| difficult 50:10,14 | disagree 61:16,25 | down 13:14 | earlier 7:8 20:24 30:4 | entirely 55:3 |
| 57:22 | disc 12:20,22 18:2 23:1 | 30:19 | 39:17 70:24 71:3,5 | entity 30:14 |
| dilating 17:24 20:25 | 50:5,11 55:4, 24 57:19 | Doyle 2:20 | early 20:6 | establishing |
| dilators 22:2 | 58:1,19 65:21 | draft 75:13 | easier 6:15 | 48:1 |
| | discretion | | | evacuate |

Index: evaluated..finish

| 58:18 | 66:10 68:20 | 46:12 47:1,8, 12,19 48:7,20 | extreme 17:12,20 19:5 | 70:21 |
|--------------------------|--|---|---|-----------------------------|
| evaluated 50:1 | excerpts 33:4 47:3 | 49:13 50:1,8, 20,21 51:13 52:21 53:19 | F | familiarity 9:21 35:21 |
| evaluation 49:14 | excess 46:15 | 54:21 56:18 57:5,24 58:11 60:15 66:6, | facilitate | far 52:23 |
| even 65:19 66:8 74:21 | exclusive 29:24 43:13 | 12,19,23 67:19 68:5 69:3,18,19 | 31:11,12 50:2 66:24 | features 46:19,25 |
| every 73:6 | Excuse 24:10 | 71:11 72:13, 15 73:5,22 74:3,15 | facilitated 46:22 | Federal 38:22 63:18 |
| evidence 36:25 37:9 | executives 69:13 | experiences 10:22 | facility 49:23 | feedback 50:6 52:5 |
| 40:1 61:9 68:21 69:1 | exhibit 3:12, 14,16,18,19 | expert 7:11 | factor 27:1 52:25 | Ferris 4:15 |
| evolution 22:8 | 5:15,18,19, 21,23 6:17, 19,21,24 7:1 | 8:23 16:9 32:10 39:5 64:6 | factors 71:13 72:19 | few 15:19 71:1 |
| exact 15:15 62:18 | exhibits 3:7 5:12 64:17 | expertise 38:17 | facts 27:5 | field 7:12 8:23 |
| exactly 13:4 42:18 | expedited 75:15 | expressed 33:14,17 | factually 72:23 | Fifth 2:6 |
| Examination 3:3 5:1 | expenditures 24:24 | 47:25 48:16 64:10,20,21 | fair 43:15 44:4 | figure 26:17 33:4,5 |
| examined 4:23 | experience 8:4 9:11,20 | expressing 33:25 64:14 | familiar 7:3,4, 23,25 8:11, 12,15,18 | financial 26:20 29:2 |
| example 19:12 71:21 | 11:25 20:4 26:21,23 27:3 31:19 33:22 | extended 13:5 | 10:22 14:8 15:11 23:7,18 35:13,14,15, | fine 40:2,5 |
| examples | 34:12,14 41:14,19 | extent 20:5 23:2 | 23 37:7,14,15 38:2,3 53:15 54:8 66:7,11 | finish 55:13 |
| | Litigation | Services 8 | 300-330-1112 | |

Index: first..head

| first 4:22 | 17,25 15:6, | 11:1,23 14:25 | 30:3 34:1 | greater 41:18 |
|------------------|-------------------------|--------------------------|---------------|----------------------|
| 34:19 42:5,15 | 13,22 16:21 | 15:6,13,22 | 50:25 51:3 | 19 42:6,17 |
| 43:4,16,18 | 17:17 18:9,20 | 16:21 18:20 | 65:21 72:7 | 43:5,8,17,20, |
| 44:12,17,20, | 19:8 20:19 | 19:8 21:20 | | 24,25 46:21 |
| 25 45:6,14,21 | 21:14,20 | 24:1,17 30:15 | G | |
| 51:8 52:15 | 22:20 23:10 | 32:16 33:19 | | greatest |
| 57:8 | 24:1,17 26:5, | 34:3 35:8,20 | | 10:15,19 |
| Salara I | 18 27:11,21 | 36:13 37:3 | general 6:14 | 14:15 |
| firsthand | 28:12,23 | 38:6 39:1,24 | 7:12 17:18 | 4.45 |
| 38:8 63:9 | 29:15,22 30:15 31:17 | 41:11 44:14, 22 45:16 | 20:10,11 31:9 | guess 9:6 |
| | 32:16 33:19 | 48:18 49:2 | 32:11 37:20 | 12:17 20:10, |
| five-minute | 34:3 35:3,8, | 51:11,21 53:6 | 39:18 62:17 | 17 66:5 75:15 |
| 75:5 | 20 36:13 | 54:16 57:10 | 00.10 02.17 | 17 00.5 75.16 |
| 70.0 | 37:3,19 38:6 | 58:5,24 61:7 | | |
| | 39:1,10,24 | 62:15 63:5, | generally 7:4 | H |
| fixation 18:3 | 41:11 44:14, | 15,21 67:18 | 18:12 64:10 | |
| Sent Satur 11191 | 22 45:16 46:8 | 70:3 71:16,25 | 70:14 | Later and the second |
| flip 25:7 | 47:6 48:6,18 | 72:10 73:12, | | handful 65:19 |
| | 49:2,11 50:16 | 25 74:7,25 | generated | |
| | 51:11,21 53:6 | 20 14.1,20 | 25:21 | |
| Floor 2:14 | 54:16 57:10 | Law easily Miles | | handing 5:18 |
| | 58:5,24 60:4 | foundational | ts de gas la | 19 6:19,20 |
| following | 61:7,19 | 41:7 | geometry | 7:1 |
| 62:13 | 62:15,18 | 11.00 | 9:12,14 22:11 | |
| | 63:5,15,21 | founded 20:6 | 46:20 47:9 | happen 66:7 |
| fallows 4:04 | 67:18 70:3 | | 48:9 50:4 | 764 3475 |
| follows 4:24 | 71:16,25 | | | hannone |
| | 72:10 73:12, | front 52:25 | given 14:6 | happens 60:14 |
| footnote | 25 74:7,25 | 54:2 55:19 | 50:3 | 00.14 |
| 25:24 | | 30.00 | 1.00 | |
| 1137.5 | forms 66:4 | full 38:5 | Glovsky 4:15 | happy 6:13 |
| footprint | 10ms 66:4 | 72:14 | 3.010.0, 4.10 | 10:21 19:10 |
| 22:25 | e alle | | No. 55.55 | |
| LL.LU | forum 48:8 | further 30:19 | good 5:2,3 | having 4:21 |
| | | 42:13,14,20 | 66:24 67:1 | 8:17 31:20 |
| force 58:18 | found 22:24 | 43:3 75:4,8 | 69:2 | 33:22 41:14, |
| | 38:11 63:12 | 40.0 7 0.4,0 | | 16,17 42:6,16 |
| form 8:3 9:4, | 30.11 03.12 | | GOODRICH | 43:5,7,19 |
| 19 10:9,18 | A CONTRACT | fusion 17:12, | 2:4 | 50:25 63:8 |
| 11:1,23 12:9 | foundation | 21 19:5 23:24 | | |
| 13:1 14:11, | 10:11,18 | 24:15 29:9 | | |
| | | | Grand 2:14 | head 7:22 |
| - 1 | | 25.5.4.7.1 | | |
| | Litigation | Services 8 | 300-330-1112 | |

| 10:20 11:6 12:5 21:10 | hour 4:14 | 14,18 14:3 18:16,19 | 35:6 36:10 38:4 42:4,5, | 29:24 31:10 42:2 44:1 |
|--------------------------|----------------|---|----------------------------|--------------------------|
| 32:20 63:14 | | 19:14 21:1,5, | 15,16 43:3,4, | |
| SALA SON NOR | Howell 47:14, | 8,13,19 22:9, | 7,18,19 46:18 | |
| | 16 69:15 | 14,25 24:9,16 | 50:8,12,15 | independent |
| heading | | 25:4,21 26:1, | 51:14 53:4 | 55:22 |
| 33:10 | Howell's | 4,16,22,23 | 54:15 60:16, | |
| 1000 | 46:11 47:3,10 | 27:1,6,9,10, | 20,24 63:1,3 | independentl |
| headquarters | | 16,19,24,25 | 64:12,22 | y 43:24 |
| 48:2 | hausan 24.2 | 28:1,4,6,10, | | |
| | however 31:3 | 15,19 29:2 | | NIDEY 2.4 |
| | | 33:12,18,21 | implications | INDEX 3:1 |
| hear 32:6 | hundred | 34:1,7 38:13, | 63:25 | |
| | 68:20 | 24,25 39:8 | | indicated |
| heard 31:22 | 24.714.14 | 41:4,10,16 | importance | 64:5 |
| 32:1 33:22 | | 44:7,13,17, | 45:2 | 1.0 |
| 47:11 50:6,10 | | 20,25 45:3,6, | | |
| 69:12 | | 14,22 46:5,7, | | indicative |
| | 5.35.000 | 13,16 47:10 | important | 66:21 |
| | i.e. 66:25 | 48:5,11,17, | 48:13 50:5 | 1.5 |
| hearing 32:8 | | 24,25 49:6,9, | 52:25 | individual |
| 33:20 | idea 51:9 | 15,17,20 | | 39:5 70:5 |
| | idea 51:9 | 50:3,4,11,25 | In-house 2:20 | |
| helpful 19:15 | 16 18 18 18 18 | 51:5,10,18, | | and water |
| | ideally 59:9 | 23,25 52:4,6, | | industry |
| have 5.4 5.04 | | 21,22 55:2,3, | inaccurate | 47:25 50:23 |
| here 5:4,5,24 | identical 6:2, | 18,20,23,24 | 61:8 | 68:5 |
| 26:7 28:9 | 4 64:19 | 56:1,9,11,15, | N. 35 1.51 | The second |
| 66:14 | 4 04.18 | 21 57:9,15 | include 29:21 | information |
| 31.701.11 | Entre Paren | 59:9 60:12,17 | 42:1 | 6:8 22:13 |
| highlight | identification | 61:5,14,15, | | 23:18 26:20 |
| 19:16 | 5:12,21 6:17, | 23,24 62:14 | in aluda d | 29:3 63:7 |
| -100 | 24 | 63:10 64:4 | included | |
| biobly of the | | 100000000000000000000000000000000000000 | 17:15 22:9 | infrings 20:40 |
| highly-skilled | images 64:17 | A. 0.000 cm - | 56:20 | infringe 38:12 63:13 |
| 65:19 | 111ages 04.17 | implants | | 03.13 |
| A 10 Cont. | | 9:12,21 11:22 | including | 10.00 |
| history 17:4 | implant 7:13, | 12:1,12 22:3, | 31:24 48:1 | infringed |
| 4, 0 4 (13) | 19,21 8:1,15, | 7,18,23 23:3, | 51:9 58:16 | 62:14 |
| HOI DINGS | 18 9:24 10:3, | 15,20,21,23 | 69:11 | |
| HOLDINGS | 6,16,25 11:3, | 24:3,15 26:25 | | infringement |
| 1:5 4:5 | 5,9,11,14,16 | 31:13 32:11 | in aluak :- | infringement 63:19 |
| | 12:19 13:8,9, | 33:8 34:7 | inclusive | 03.19 |
| - 1 | | | t what | |
| | Litigation | Services S | 00-330-1112 | |
| | Dicigacion | tigationservices | | |

Index: infringes..lateral

| infringes | intended | 39:25 61:8 | IPR2019-361 | 22:21 23:2 |
|---------------------|----------------------------------|--|----------------------|----------------------------|
| 38:24 | 12:22 68:14 | | 5:7 | 36:17 37:20 |
| | | invasive 66:9 | | 38:9 60:15 |
| initial 24:24 | interbody | | J | 63:9 74:22 |
| 52:4 | 17:12,21 18:3 | invented | - | |
| | 19:5 34:16,25 | 30:20 31:3,7, | | known 73:5, |
| initiated 24:8 | 35:6 42:5 | 15 32:6,9,14 | January 1:19 | 18 74:2,9 |
| initiated 24.0 | 43:4,19 56:2 | 35:7 | 3:9 4:13 | |
| | 57:25 72:7 | | | L |
| input 64:24 65:4 | 74:10 | Invested 07.4 | Jim 6:8 | |
| 05:4 | - P3 5 5 1 | invested 27:4 | Jili 0.0 | 100 |
| | interbody- | | | lab 48:1 49:22 |
| insert 14:23 | implant 21:1 | investors | Job 1:25 | |
| 15:2 | | 62:13 | | 70.0 |
| | interpret | | joined 20:3 | lack 72:9 |
| inserted 10:6 | 63:24 | involuntary | 23:19 | |
| 35:19,22 | | 52:24 | 20144 | last 30:25 |
| 39:22 53:4 | interpretation | | JOSHUA 1:24 | |
| 57:15 | 43:11,23 44:2 | involve 37:22 | 4:17 | late 35:19 |
| | 45:2 | | | 37:1,16 |
| inserting | 2000 | involved 32:2 | judgment | |
| 36:10 37:17 | interrelated | 36:2,16 37:5 | 61:20 | lateral 8:2,5, |
| | 43:14 | 39:17 | | 22 9:9,17,22 |
| insertion | | 3.5327 | jury 39:16 | 10:8,13 11:9, |
| 14:10,13 | interventions | involvement | 40:14 62:13 | 14,16,21 |
| 22:10 23:15 | 68:14 | 49:19 62:22 | 63:19 | 12:1,14 13:8 |
| 43:9 45:22 | 00.14 | 40.10 02.22 | | 14:9,13 |
| 49:1 52:13 | | | ! | 17:12,20 18:4 |
| | intervertebral | IPR2019- 00361 1:5 | jury's 38:23 63:4 | 19:5 22:10, 12,24 23:16 |
| instances | 52:12,16 | 3:13 4:5 | 03.4 | 29:12,21,24 |
| 22:23 | g A - SZ SPORTON | 0.10 4.0 | - F 22 F 100 | 35:19,22 |
| ALCOHOL: N | into 69:23 | IDD0045 | K | 36:10 37:2, |
| Instrumentati | | IPR2019- | | 17,21 38:4 |
| on 18:1 | introduced | 00362 1:6 3:15 4:6 | State of the Control | 39:23 43:9 |
| | 11:25 31:21 | 3.13 4.0 | keep 6:20 | 44:2 45:14 |
| instruments | 41:15 | 12-12-12-12-12-12-12-12-12-12-12-12-12-1 | | 46:23 56:24 |
| 22:1 31:12 | | IPR2019- | Keith 31:25 | 57:20,24 |
| | introducing | 00546 1:7 | | 61:5,13,24 |
| intact 50:1 22 | WILLIAM TO THE TAXABLE PROPERTY. | 3:17 4:7 | knowledge | 64:12 65:20 |
| intact 58:1,23 | March 2011 Land | | | |
| | Litigation | Services | 800-330-1112 | |

MATTHEW LINK - 01/07/2020 Index: lateral-fixation..marketing

| 66:3,6 68:9, 17 69:5 70:24 | legally 63:24 | 63:23 67:7 69:14 71:2 | longer 35:6, 24 | 4:17 |
|---|-------------------------------|---|--|--|
| 71:3,5,12,14, 23 72:7,21 | length 9:14, 16,23 10:3,7, | 75:12 | looking 22:18 | manner 69:24 |
| lateral- | 16,20 13:5 14:15,19 | likely 32:22 | | many 7:20 |
| fixation 21:2 | 34:11,13,15, 18,23,24 | limitation | Los 2:15 | 62:20 67:10 |
| laterally | 35:23 41:4,8, 9 42:6,16 | 52:4 | lot 70:18,20 | mark 5:10 6:15,16 |
| 14:23 55:20 | 43:5,8,16,20 45:3 46:6,14, | line 13:3,15 72:14 73:1,11 | lower 15:4,8 | |
| launched 20:3 72:7 | 15,20 48:5 54:22 | | Luiz 66:2 | marked 5:12, 14,19,21 |
| (COLUMN S. 1888) | | lines 71:22 | | 6:17,20,21,24 |
| launching 72:21 | lengths 12:24 13:3 41:17 | Link 1:18 3:8, 12,14,16 4:20 5:2,25 65:10 | Lukianov 31:25 | marker 50:8, 9,12 |
| law 2:5,13 4:14 | let 15:18 16:20 17:1,10 | 75:8 | lumbar 42:5, 16 43:4,10,19 | markers 15:11 48:17, |
| lawsuit 36:2 | 26:12 33:16 40:11 41:6 | litigation 61:13,22 | 44:13 53:2 | 24 49:5,9 51:5,7,9,14 |
| idirodik 00.2 | 42:25 43:16 44:11 55:13 | 01.10,22 | M | 01.0,1,0,14 |
| lead 71:13 | 65:13 | LLP 2:12 | 10.20 | market 22:19 23:22 27:6 |
| leaders 31:23 32:2 | let alone 70:12 | located 15:12 | made 13:13 14:2 33:18,21 39:22 49:17 | 31:20,21 34:8 47:20,22 69:22 73:9, |
| leadership | level 15:2 | location 48:17 | 72:24 | 19,23 74:4, 10,12 |
| 62:24 | | 540.000 | major 66:18 | |
| least 11:14 | Levin 4:15 | locations 15:16 | make 51:25 | market's 71:9,10 |
| 34:14 41:13 43:11,22 | lies 18:11 | long 21:18 | 55:6,8 62:3 | marketed |
| 49:18 50:7 51:22 52:21 66:18 71:8 | ligament 52:24 | 30:9 35:13, 14,18 37:2,17 39:22 | making 52:4 62:12 | 41:16 |
| | | 00.22 | MANEA 4:04 | marketing |
| legal 61:20 | like 27:2 40:3 | | MANEA 1:24 | 1 |

Index: marketplace..nerves

| 34:14 69:17 70:18,22 | 27:13 31:6 48:10 52:10, | mid 36:11 | mind 7:6 | muscle 14:24 |
|------------------------------|-------------------------------|--------------------------------|----------------------------|------------------------|
| marketplace | 12 53:12 58:4 70:20 | IIIu 30.11 | 16:18 42:1 | 15:5,21 16:7, 14,15 |
| 32:4 41:15 | | middle 19:19 | | 14,15 |
| 67:8 69:11 | meant 30:22 | 25:9,15 48:24 49:9 70:23 | minimally 66:9 | mutually 43:13 |
| materials | measure | might 34:19 | minimally- | |
| 70:19,22 | 66:17 68:2,4, 16,19 69:4,7 | 72:19,20 | invasive 20:7 65:20 | N |
| Matthew 1:18 | 71:8 73:16 | Miles 31:24 | 11.49 | 100 |
| 3:8,12,14,16 4:20 | measured | 32:6,14 42:4, 13,14,23,25 | Mintz 4:15 | name 14:5 57:17 |
| | 44:20,25 45:7 68:7 | 43:2,12 46:18 | mischaracteri | 218 |
| Maxcess 22:1 27:19 28:11, | 00.7 | 69:14 | zing 43:21 | naming 13:11,25 |
| 22 | measures 66:18 67:5 | Miles' 43:18 | missed 34:19 | .0,20 |
| maximum | | 46:24 | | narrower |
| 14:19 43:8 | Medtronic | millimeter | mixed 65:21 | 55:20 |
| 44:1 | 36:3 39:16 | 12:4 44:13,17 | | b. 64.10 |
| Section 5 | 40:14 62:14 63:4,13,20 | 46:20 | more 15:19 | nearly 64:19 |
| may 14:6 32:22 66:15, | 00.4, 10,20 | AND NOTE OF | 50:10,14 55:8 64:9 67:4 | necessarily |
| 16 71:23 72:6 | mentioned | millimeters | 68:22 | 11:10 15:4 |
| | 18:8 28:9 | 11:16,20 13:3,5 35:6, | | 32:12 |
| maybe 12:18 | | 17,23 41:18 | morning 5:2, | No. |
| 19:16 26:9 | merits 67:21 | 42:6,17 43:5, | 3 | need 29:9 30:3,6,14 |
| | 11.0 | 8,17,20,24,25 44:1,20 45:1, | | 67:10 75:17 |
| Mcafee 36:9, 22 66:7 | Michael 2:5, 20 | 7 46:15,21 | most 56:20 59:6 | |
| 22 00.1 | 20 | 53:20 54:23 | 00.0 | neighborhood |
| Mcafee's | Michaelson | 55:20 | Mountain | 54:23 |
| 36:17 | 38:1,2,12 | million 24:25 | 4:16 | 47.05 |
| | | 25:21 26:17 | Distance of | nerve 17:25 |
| mean 20:5 | Michaelson's | 27:8,17,23 | Mrosato@ msgr.com 2:9 | nerves 16:14 |

MATTHEW LINK - 01/07/2020 Index: neuromonitoring-equi..operative

| neuromonitor ing-equipped | 10,19 | 17:12 19:5 24:24 38:23 | 57:10 58:5,24 59:12,22 60:4 | offered 23:21 46:19 |
|---------------------------|--|---------------------------|--------------------------------|---|
| 22:2 | | 60:23 61:4 | 61:7,17 62:1, | 40.19 |
| 22.2 | number 3:11 | 62:7 73:11 | 9,15 63:5,15, | |
| Johnson Maria | 5:6 18:3 | 02.1 13.11 | 21 65:2 67:18 | offering |
| neurophysiol | 27:17 39:4 | V. 35 . 1375 | | 54:19 |
| ogy 21:3 | 51:5,7 67:14 | Nwickram@ | 70:3 71:16,25 | |
| | 70:21 | winston.com | 72:10 73:12, | |
| 70.40 | | 2:17 | 25 74:7,25 | offerings |
| never 70:10 | | | | 54:20 |
| arte A. Carol | numbers | | objections | |
| Nimalka 2:13 | 25:25 | 0 | 16:20 | office 1:1 4:1 |
| | | - | | 5:6 |
| | numeric 6:12 | | | 3.0 |
| nomenclature | ALL PRODUCTIONS OF THE PRODUCTION OF THE PRODUCT | objection 8:3 | objective | |
| 13:12,25 14:8 | | 9:4,19 10:9, | 67:4 68:2,4, | offices 4:15 |
| 40000 | Nuvasive 1:9 | 18 11:1,12,23 | 16 69:4,7 | |
| non-bone | 2:20 4:9 17:4 | 12:9 13:1 | 73:16 | oftentimes |
| 24:5,14 34:2, | 19:20,22,24 | 14:11,17,25 | | 56:19,20 |
| 5 36:10 | 20:15 21:4,25 | 15:6,13,22 | observation | 00.10,20 |
| 0 00.10 | 22:14,17 | 16:21 17:17 | 12:17 32:3 | 100 |
| | 23:5,23 24:7, | 18:9,20 19:8 | 12.17 02.0 | once 10:6 |
| non-lateral | 13 25:22 27:3 | 20:19 21:14. | The second second | 17:1 65:13 |
| 8:8 | 30:2,5,7,11, | 20 22:20 | observations | 10.00 |
| 16/47 4 1 | 13,20 31:3,6, | 23:10 24:1,6, | 12:12 | one 7:8 8:7, |
| non-safe | 15,22 33:17 | 11,17 26:5,18 | | 13 12:19 |
| 68:11 | 35:5 36:1,2,8, | 27:11,21 | shaamed 0.5 | 18:22 23:17 |
| 00.11 | 21,25 38:11 | | observed 8:5 | |
| And Assessment Street | 39:14 40:13 | 28:12,23 | N. Lington | 44:7 46:13 |
| Nos 1:5,8 4:5, | 41:14 44:12, | 29:15,22 | obvious | 48:3 52:15 |
| 8 | 16,19,24 | 30:15 31:17 | 61:14 | 55:7 56:9 |
| ,112 | 45:6,13,21 | 32:16 33:19, | | 62:6 64:25 |
| | 47:16,24 49:8 | 21 34:3,4 | ALL DE LA COLOR | 66:1,18 68:19 |
| note 25:24 | 51:8,14,23,24 | 35:3,8,20 | occurring | 70:5 72:18 |
| 39:25 | 56:19 57:7 | 36:13 37:3,19 | 36:6,7 | 73:7 |
| | 62:12 63:3,12 | 38:6,14 39:1, | | Light Park |
| nothing 4:23 | 64:4 69:14 | 10,24 40:21 | off 7:22 10:20 | only 8:1,4 |
| 72:8 | 70:1,7,9,15, | 41:11 44:14, | 11:5 12:5 | 30:14 34:10 |
| 110010 | 17,19 71:24 | 22 45:9,16,24 | 21:10 47:4 | 65:16,18 |
| | 72:8,13,22 | 46:8 47:6 | 61:19 63:14 | 72:13,15 |
| notice 47:3 | 73:1 74:16,21 | 48:6,18 49:2, | 75:10 | 72.10,10 |
| | 13.1 14.10,21 | 11 50:16 | 70.10 | 100000000000000000000000000000000000000 |
| novel 41:4, | 17 To 18 At 18 | 51:11,21 | -000 A No 1 | operative |
| | Nuvasive's | 53:6,17 54:16 | offer 75:2 | 67:5,6 |
| | | | | |
| | Litigation | Services 8 | 300-330-1112 | |

Index: opinion..phrase

| opinion 9:7 16:10 45:5 | others 20:4 32:22 33:23 | P | past 10:22 | 40:13 |
|--|----------------------------|------------------------------|--|-------------------------|
| 61:19 64:6, | 47:11 66:11 | | 200-100-2 | |
| 10,13,14,17, | 71:23 72:6 | | Pat 31:24 | people 30:10 |
| 18 66:19 69:3 | | paragraph | 32:6,14 | |
| 72:18 74:15 | 10.00 | 16:23,25 | 2 3 1 26 1 | perception |
| 72.10 / 1.10 | otherwise | 17:3,5,10,14 | patent 1:1,2, | 71:9 |
| | 62:19 | 19:4,19,20,23 | 8,10 2:3 3:18 | |
| opposed | | 21:23,24 | 4:1,2,8,10 5:6 | |
| 26:16 | outcome 67:1 | 24:23 25:2,8, | 6:11,21 7:8,9, | performed |
| | | 9,13,16,19 | 10,12,15,16 | 74:20 |
| optimize | ATTACKS AT | 26:14 28:9 | 15:20,21 16:6 | |
| 34:16,25 | outcomes | 29:5,6 30:2, | 32:13 38:25 | period 20:11 |
| 46:17 | 66:25 | 19,22,23,24 | 39:8 62:14 | 30:8 50:22 |
| | | 31:2 32:25 | | |
| | over 25:7 | 42:3,9,11 | | Landon 20.45 |
| optimized | 46:12 67:22 | 43:2 47:4,23 | patents 3:19 | perjury 39:15 40:13 |
| 22:10 | | 60:18 64:11, 15 65:10,14, | 5:8,16,20,24 | 40:13 |
| - La | overall 42:2 | 16,18 70:23 | 6:5,9,13,16 | 1.5 |
| optionality | 46:13 | 10,10 70.23 | 7:2 15:19 32:10 33:5 | personal |
| 41:17 | 40.13 | | | 66:12 |
| | | part 24:20 | 38:3,12,18 39:4 63:12 | |
| options 18:3 | overcame | 34:19 48:13 | 64:8 | personally |
| 21:1 50:1 | 47:17 | 53:2 57:19 | 04.0 | 4:19 37:13 |
| 21.1 30.1 | | 67:15 | | 4.13 07.10 |
| | overcome | A | path 52:12 | A STATE OF THE STATE OF |
| order 62:7 | 47:24 | particular | | Petitioners |
| 75:12 | | 46:15 66:1 | pathology | 1:7 2:11 4:7 |
| | Talanta Turker si | | 68:14,24 | |
| organization | overcoming | w spilling | | pgs 3:13,15, |
| 23:19 24:20 | 67:21 | particularly | | 17,18,19 |
| 30:9 31:19 | | 18:2 | patients 29:8 | - C |
| 32:2,4 | own 26:21 | | | |
| 25.75 | 29:9 33:21 | parts 16:13 | Paul 36:9 | phonetic 23:8 |
| | 46:11 47:12, | | The second secon | 100 k - 37 |
| orientation | 19 48:20 | party 32:10, | PC 2:4 4:16 | photograph |
| 50:2,11 54:4, 6 55:2 | 49:12 69:19 | 19 40:24 | FC 2.4 4.10 | 33:7 |
| 0 00.2 | 71:21 | 71:18 72:12 | | |
| 3 3 E | | 71.1072.12 | PEEK 33:18, | phrase 69:16, |
| orientations | Owner 1:10 | A Company | 21 51:10 | 17 70:4,10, |
| 50:9,13 | 2:3 4:10 | passing | 100 100 | 13,14,16 |
| 4.7 | 2.0 1.10 | 50:25 | penalty 39:15 | ,, |
| | | | | |
| - 11 | Litigation | | 00-330-1112 | |

Index: physician's..proportion

| physician's 69:24 | 14:2,5 48:20 60:9 73:8 | 20:1,12 | 12:11 34:6 48:20 51:19 | 5:5 6:1 37:6 39:18 40:24 |
|---|---|--|---|--|
| physiology 17:25 | pointing 16:18 | preference 28:6 | 52:20,22 68:12 | process 22:9 48:14 |
| Pimenta 66:2 | Popeo 4:15 | preparation 57:25 | prior 23:15 29:7 50:15 51:13 53:5 66:11 | product 29:1 32:21 34:5 |
| place 10:6 27:25 49:8 52:7,10 53:25 | portfolio 17:20 72:22 | preparing 6:6 36:22 37:10 39:8 40:14 | privileged 63:6 | 71:22 72:21 73:1,11 |
| placed 52:21, 22 55:2 | portion 18:14 44:6 56:12,16 57:17 58:22 | 61:2 62:8 63:20 present 2:19 | probably 38:19 53:19 | products 17:12,16,19 18:8 19:5 20:17,23 |
| placement 49:5 50:5 52:11,23 | portions 56:23 57:3,4 | 24:19 35:9 presented | 54:22 65:5 procedural | 28:15 71:24 74:16,19,21 75:2 |
| placing 48:24 56:21 | positioning 46:16 | 36:21 39:14 40:12 | 29:18 73:6 procedure 17:7,8,9 18:4, | professionals 47:25 |
| plainly 61:24 | possible 14:4 52:1 73:14 | presenting 36:8,25 | 17:7,8,9 18:4, 14 20:2 21:3 54:1 57:20 58:17 66:4,20 | profile 68:22 69:2,23 73:6, 8,18 74:2,9 |
| plate 60:7 | posterior 11:18 12:13 | press 62:19 | 68:8 69:20, 21,22 | promoted |
| plates 12:22 | 35:16 45:7 53:18,22 54:15 55:19 | prevented 72:20 | procedures 8:2,5,8,16 | 56:19 58:14 |
| played 49:6 | 57:4 | previous 45:10 71:7 | 29:8,13,21,24 30:5 49:24 | promoting 34:15 |
| PLIF 54:7,8, 12 74:6,9,16 75:2 | potentially 30:11 71:22 | previously 12:10 31:10 | 68:9,13 72:15 74:23 | promotion 27:5 63:1 69:19 |
| PLIFS 74:20 | practice 69:24 | 40:23 47:12 69:14 73:15 | proceeding 5:16,20,24 | proportion |
| point 13:13 | predates | primary 11:15 | proceedings | 12:12,18 |
| | Litigation www.li | Services 8 tigationservic | 300-330-1112 Des.com | |

Index: proportionately..release

| proportionate ly 9:24 | 19:10,17 26:12 33:16 | reason 53:11 59:20 71:22 | recommende d 34:15 | 27:17 41:23 64:7 67:2 |
|--|---|--|---|---|
| THE PARTY IN | 40:8 41:7 | 193771197 | W. A. C. | 68:6 71:10 |
| protects 53:1 | 42:25 73:14 | reasons 72:6 | record 5:11 40:1 61:9 | reflection |
| provide 17:6 58:17 60:19 | questions 15:19 75:8 | recall 8:17 10:19 11:5 | 75:7 | 28:18 44:9 67:9 69:9,18, |
| provided 6:8 | quickly 25:7 | 12:5 13:2 14:18 15:15 | refer 16:14 22:6 24:23 | 20 |
| 26:20 27:17 29:3 48:7 62:6 64:18 | R | 19:9,11 32:8 33:20,22,25 34:4 36:5,6,7, | 25:9 30:19 41:3 42:3,9 60:22 | reflective 28:16 64:16 |
| 02.0 04.10 | | 8,11,25 37:23 | | reflects 28:10 |
| psoas 14:24 15:5,21 16:7, 14,15 | radiopaque 51:5,9,14 | 41:24 47:7,18 48:19,20,23 49:4 50:24 51:2,4,6 | reference 10:21 19:14 26:12 41:25 | Regan 37:12 |
| public 62:12 | range 11:4 29:18 54:19, 21 | 57:20 62:12, 18,19 63:8 64:15 66:15 | referenced 20:24 | regarding 5:5,7 24:14 33:11,17 37:1 |
| publications 24:14 37:1, 15,21 | ranges 12:24 13:3 | received 23:19 69:22 | referred 31:9 51:18 | 38:12 46:5 48:5,16 51:4 63:19 64:10 |
| published 68:20 | rates 68:10, | Recess 65:8 75:6,11 | referring 10:2 13:7,8 17:16 18:6,7,16,22 | related 6:9 7:13,19 17:4, 9 20:23 28:18 |
| put 16:16 51:5 | rationale 23:20 72:3,24 | recognize 30:14 | 20:16,18 23:14,15,16, 17,18 26:7 | 34:5 47:9 63:9 67:20 68:21 |
| Q | read 17:3,4 19:11 26:13 32:12 64:15 | recognized 30:3,6 | 29:12,17 31:7 34:10,11 46:4 53:23 56:23 57:2 65:24 | relates 28:2, 17 63:24 |
| qualified 8:24 16:11 62:3 | reading 16:4 | recollection 12:11 17:5 20:22 29:16 | 66:14 reflect 28:21 | relative 9:23 12:13 23:21 26:25 34:7,13 |
| question 7:6, 14 8:24 10:4 | Reagan 37:16 | 31:8 32:12 37:21 47:8 49:13 62:17 | reflected | 56:4 |
| | | | | release 52:24 |
| | Litigation | | 00-330-1112 | 17 K N N |

Index: relevant..safety

| 58:2 59:3,7, 10,15 60:1 | reporter 4:18 54:9 75:12 | 13 | 60:12,13 | 53:6,17 54:16 55:13 57:10 |
|----------------------------|--|-------------------------------------|--|--|
| 62:19 | REPORTER'S | response 71:8 | risk 74:9 | 58:5,24 59:12,22 60:4 |
| relevant 16:16 17:7,8 | 76:1 | mananaibla | Road 4:16 | 61:7,17 62:1, 9,15 63:5,15, |
| relied 6:7 | representatio | responsible 21:16 62:25 | role 32:20 | 21 65:2,7 67:18 70:3 71:16,25 |
| 64:6 | | restate 40:7 | 49:6 62:24 | 72:10 73:12, 25 74:7,25 |
| remain 58:23 | represented 41:16 | result 31:13 | ROSATI 2:4 | 75:5,7,10,17 |
| remains 57:19 | reproducibilit y 66:17,19,22 67:2,23 | results 65:21 | Rosato 2:5 8:3 9:4,19 10:9,11,18 | rough 75:13, 14 |
| remember 13:4 57:17 | 71:10,15 72:9,20 | retractor 17:23,24 20:25 21:1 | 11:1,12,23 12:9 13:1 14:11,17,25 | round 46:3 |
| REMEMBERE D 4:13 | reproducible 66:25 67:11 | 22:2 27:20 28:11,16,22 | 15:6,13,22 16:20 17:17 18:9,20 19:8 | 36:10 |
| | 69:5,6,9,16 70:2,8,10,13, | revenue | 20:19 21:14, 20 22:20 | ruling 61:20 |
| remnant 60:15 | 25 71:4,6 73:4,11,16, | 25:21,24 27:8,23 28:3, | 23:10 24:1,6, 10,17 26:5,18 | s |
| removal | 21,24 74:6,24 | 9,14 | 27:11,21 28:12,23 | |
| 59:10 | require 16:6 | revenues 26:22 28:18 | 29:15,22 30:15 31:17 32:16 33:19 | safe 68:11,17 18,22,25 |
| remove 58:3 59:15 60:1 | requirements 16:1 54:25 | review 6:5,7 10:21 17:2 | 34:3 35:3,8, 20 36:13 37:3,19 38:6, | 69:8,16 70:2, 8,10,13,25 71:4,6 73:4, 11,15,21,24 |
| repeating 7:6 | requires 15:21 | 36:24 62:10 63:18 | 14 39:1,10,24 40:3,21 41:11 44:14,22 | 74:6,24 75:2 |
| report 65:11 | reside 53:2 | ring 46:17 55:5 56:12, | 45:9,16,24 46:8 47:6 | safely 48:10 52:11 |
| Reported | | 16,21,23,24 57:3,9 59:17 | 48:6,18 49:2, 11 50:16 | safety 67:22 |

Index: said..sought

| 68:2,6,11 69:2,22 71:9, | 14:17 15:7, 14,23 22:20 | series 17:23 20:8,24 | 64:8 | sold 41:17 74:18 |
|----------------------------|----------------------------|-------------------------|--------------------------------|--------------------------|
| 15 72:9,20 | 24:10,18 | | similarly 7:18 | 157 |
| 40.00 | 32:17 36:14 | set 67:12 | 55:18 | solely 27:18 |
| said 21:7 29:6 | 37:4 38:7 39:2,10,25 | | | 1000 |
| 42:24 46:19 | 40:22 41:12 | several 62:20 | simpler 40:11 | solid 67:8 |
| 53:11 63:23 | 44:23 45:9,17 | 68:20 | Simpler 40.11 | Dona or .o |
| 64:25 | 49:3,11 51:12 | 13500 | since 13:12 | solution 20:8 |
| | 54:17 57:11 | shorter 35:16 | 14:2,7 36:11 | Solution 20.0 |
| sales 26:4,17 | 58:6,25 60:4 | 31101161 00.10 | 75:15 | |
| 28:8 58:18 | 61:8 62:16 | 01111 | | solutions |
| 62:24,25 | 63:6,16,22 | Shorthand 4:18 | single 68:16, | 21:2 |
| 74:19 | 72:1 | 4.10 | 19 69:7 70:5 | to a Back. |
| | | | 15 05.7 70.5 | something |
| same 7:14 | Seattle 2:7 | should 57:25 | 54 4 50 40 | 73:15 |
| 11:12 24:6 38:14 45:11, | | 58:2 | sit 54:4 56:12, | ALC: ALC: |
| 24 53:17 | second 65:15 | | 15 | sometime |
| 59:12 61:17 | Land to the control | show 5:14 | 7-23-7-7 | 13:4 |
| 62:1,9 68:14 | section 17:3 | 68:21 | sits 52:16,24 | Br. A. |
| | THE REAL PROPERTY. | the brown to | 60:12 | somewhere |
| San 4:16 48:1 | seeking 20:7 | showing | 1513-272 | 53:19 |
| Jan 4.10 40.1 | 65:1 | 60:23 | size 34:6,10 | |
| say 21:7 29:7 | | 7.0 | 42:1 46:13 47:9 50:3 | SONSINI 2:4 |
| 30:22 32:6,8 | seems 73:9, | side 57:19 | 47.9 50.5 | 1.00 |
| 34:20 52:9 | 19 74:11 | 58:1,21,23 | 57.0 | sorry 5:19 |
| 54:22 56:20, | 777 | | sizing 57:8 | 10:4 13:16 |
| 22 57:12 69:8 | seen 69:10 | side-by-side | No. 250 17 | 16:25 22:21 |
| 70:9 73:22 | Seen 03.10 | 60:19,22 | skepticism | 23:9 24:2 |
| 74:11 | | | 33:11,14,17 | 25:12 26:8 |
| | segment | similar 54:4 | 34:1,6 46:4,6, | 29:6 30:21 |
| saying 20:14 | 18:21 | 61:5 64:12, | 12 47:9,17,25 48:4,16,21,23 | 33:1 34:19 36:15 40:7 |
| 43:23,25 | - Table 1 | 19,23 69:25 | 49:4 50:24 | 41:5 42:8 |
| 72:23 73:10 | sentence | 74:1,8 | 51:2,4,6 52:5 | 56:14 |
| | 20:16,21 | | 67:22 | |
| says 17:14 | 25:16 26:13 29:11,13 | similarities | | sort 12:12 |
| 42:19 43:7 | 30:25 65:15 | 60:23 | SKUS 29:1 | 25:9 34:15 |
| | 71:1 | | | |
| scope 11:2 | | similarity | smaller 26:25 | sought 64:24 |
| A COLUMN | Litigation | | | |

Index: sources..support

| 65:3 | 16 36:17 37:23 38:18 | stabilization 31:14 53:1 | 26:21 28:3 29:17 42:19 | 53:1 |
|--|--|---|---------------------------------------|--------------------------|
| sources | 51:2,6 | | 43:18,22 44:3,10 45:1 | studies 68:20 |
| 22:13 | specifically | stabilizing 34:16,25 | 46:11 71:2 | stump 8:14 |
| space 12:20, 22 18:2 23:1 34:17 35:1 | 6:7 16:12,18 18:17 20:13, 15,18 21:4, 11,12,15 25:3 | stage 36:16 | statements 46:24 47:10 62:13,18 | Sub 17:24 |
| 50:3,5,11 52:12,16 55:4,25 56:2 58:19 | 26:15 30:5 32:8 35:23 41:24 44:6 | standard 13:7,22 | states 1:1 4:1 25:20 | subjective 70:20 |
| | 46:6,22 47:23 48:4 70:14 | start 7:7 | | subjectively |
| span 38:4 | 71:5 | started 7:8 | stating 64:3 | 66:9 |
| speak 35:10 38:19 47:19 | specifics 40:25 47:18 | 50:23 52:2 | stay 21:23 | submitted 5:15 6:1 |
| 72:3,13,16,23 | 62:20 63:9 | starting 50:21 | still 59:16 74:18,19 | suboptimal |
| speaking 18:12 50:20 | spinal 18:1 23:24 24:15 | starts 25:10, 16 65:16 | STRAWN | 22:24 |
| 64:9 | 29:9 30:3 34:1 38:13,24 | state 4:18 | 2:12 | subset 21:2 |
| specialized 21:25 | 39:8 65:21 68:24 69:25 | 19:20 21:24 30:2 31:2 42:14,20,22 | Street 2:6 | substantively 6:2,4 |
| specially- constructed | spine 1:6 4:6 15:8 20:8 | 43:2 47:23 65:18 70:24 | striking 60:23 | successfully |
| 22:3 | 31:12,14,19, 20 43:10 48:9 | 71:1 | strikingly 64:12,22 | 66:20 69:23 |
| specially- instructed | 50:23 52:25 53:2 54:2 70:12 | stated 18:12 34:5 39:17 | structural | suffered 29:9 |
| 22:7 | | 40:20,23 42:23,24 49:21 71:7 | 12:6 | suggested 34:13 50:10 |
| specific 6:13 14:3 16:1 18:11,21 | stability 26:25 34:16, 25 46:17 60:16 | statement 18:11 20:23 | structurally 8:20 9:8 | Suite 2:6 4:16 |
| 19:10,11,14, | | 10.11 20.23 | structures | support |
| - 1 | Litigation | Services 8 | 300-330-1112 | |

Index: supported..tools

| 20:25 21:3 23:19 26:20 | 48:10 | technologies 17:19 18:13 | testing 49:23 | 14:24 15:5,21 16:6,15 19:13 |
|--|---|---|--|--|
| 27:4,5 | system 17:24,25 21:1 | 20:24 23:4 66:24 | than 9:16 27:10 35:6,16 | 46:20,22 49:14,20 50:25 67:2,23 |
| supported 67:23 | systems | technology 21:3 32:21 | 41:18 42:6,17 43:5,8,17,20, 24,25 55:19, | 68:6 71:10 |
| suppose 59:13 71:17 | 17:13,16,23 18:8 19:6 20:25 31:11 | 66:4 67:3,21 70:12 | 24,25 55.19, 21 64:14,21 66:3 68:22 72:19 | throughout 17:11 18:7 19:3,7 |
| surgeon | T | tend 66:23 | their 29:9 | time 11:25 |
| 23:17 28:5 48:25 49:10 66:1 67:15 | take 6:14 44:7 | tenure 17:22 30:9 31:18 66:1 | 55:23 67:22 72:3,24 | 17:5 20:1,11, 12,22 22:19, 22 23:22 |
| surgeon's 27:24 59:2 67:20 69:24 | 52:15 65:5 75:5,14 | term 70:2,7 | Theoretically 27:24 | 24:8,20 29:17 30:7,14 31:8, 21,24 32:20 34:1 35:7 |
| surgeons | talking 11:13 44:8 53:11,22 55:1,3 56:7 | terms 26:24 52:15 | theory 60:6 | 36:2 37:6 41:20 47:7 |
| 27:16 36:9 48:8 50:6 55:22 58:16 65:19,24 | 57:21 taught 58:13 | tested 21:25 | things 16:12 42:20 59:11 67:7 71:1 | 50:22 51:23, 24 52:3 54:12 63:10 66:16 67:5,6 70:17 |
| 66:6,13,15,23 67:10,14 | 59:7 | testified 4:24 34:23 39:19, 21 42:13,15 | thoracic 13:9, 23 15:4,8 | tissue 60:14 |
| surgery 9:22, 23 23:24 | 63:10 | 43:3 50:14 | thought 13:14 16:16 | titled 33:11 |
| 24:15 30:4 37:21 65:21 69:25 | technique 56:19 58:13 59:2,7 66:2 | testify 5:4,5 47:15,16 | 32:10 | TLIF 54:1 73:24 74:9 |
| surgical 22:1, | 67:3 69:10 72:8 74:11 | testimony 9:7 30:13 36:9, | three 6:1 | today 74:18, |
| 4 68:7,23 70:11 | techniques 66:24 68:23 | 12,18,21,24 39:15 40:12, 16,18 41:1 | threshold 68:10 | took 21:18 |
| surrounding | 69:25 | 42:3 47:4,19 | through | tools 17:24 |
| | | | | 17.24 |

Index: top..verdict

| 20:25 23:4 31:11 | trial 1:2 4:2 36:5,6,7,16 37:6 39:16 | 55:21 57:6 68:6 | 49:18,25 51:24 65:25 | 68:23 70:11, 16 |
|-------------------------------|--|--|-----------------------------|-----------------------------|
| top 7:22 10:20 11:5 | 40:14 | U | understandin gs 7:15 | useful 49:10 |
| 12:5 21:10 51:1 63:14 | trick 9:6 | ultimately | understood | using 19:6 34:1 39:23 |
| towards | true 30:16 45:11,18,25 | 31:13 55:23 | 7:18 12:19,23 19:3 30:9 | 45:22 |
| 25:15 | 57:13 | unaware 46:18 | 32:22 49:14 52:3 66:2 | utilization 27:1 28:16 |
| TRADEMARK 1:1 4:1 | truth 4:22,23 | uncomfortabl | undertook | 49:21 |
| traditionally | trying 9:6 19:2 55:6 | e 73:10 | 47:24 | utilized 8:5 22:23 70:21 |
| 35:15 | 57:22 73:13 | under 39:15 40:13 | uniform 56:5 | utilizing |
| training 48:2, 12 49:22 | Tuesday 1:19 4:13 | understand | unique 11:21 12:1 46:25 | 49:22 |
| 67:16,24 69:11 | turn 29:5 | 5:4 6:10 7:9, 16 9:11 10:4 | UNITED 1:1 | v |
| transcript | 32:25 44:7 65:10 | 13:25 14:12 19:2 23:3 | 4:1 | Valentine |
| 75:13 | two 9:12,24 | 27:12,22 28:13 29:2 | unmet 30:3 | 31:25 |
| translateral 38:13,24 39:8 | 59:11 64:22 66:10 | 32:18 34:20 44:7 50:10,14 59:6 73:13 | unrelated 55:7 | validity 67:21 |
| transpsoas | type 50:6 | | | variability |
| 43:10 45:22 | 73:6 | understandin g 5:9 6:3,14 | use 24:14 35:5 37:2 | 67:6 |
| transverse | types 9:25 | 7:12 10:12 11:15,24 13:17 14:22 | 39:21 55:23 | various 16:13 |
| 38:5 | 50:9,13 | 15:20,25 16:4,5,9 20:4, | used 8:1,8 9:9,10,15,16 | vascular 53:1 |
| traverse 15:9 | typical 15:9 54:14 | 10 22:8 26:3, 14,19 31:22 | 17:11 19:1,2 23:24 35:15 | verdict 38:23 |
| treating 29:8 | typically | 38:15 46:10 | 54:12 55:22 | 62:13 63:4,19 |
| 11 | Litigation | Services 8 | 300-330-1112 | |

Index: versed..XL

| versed 38:20 | 18:22 26:10 | 32:5,24 33:24 | 51:17,20 | 30:16 31:18 |
|--------------------|--|------------------|-----------------|---------------|
| | 28:10 31:23 | 34:9 35:4,12, | 53:19,23 54:6 | 32:18 33:20 |
| 44,81 -97. | 68:2 72:18 | 25 36:19 | 56:4,5 59:9 | 34:4 35:9,21 |
| versions 7:20 | The second secon | 37:8,25 | | 36:15 37:5,20 |
| | 3,73,77 | 38:10,21 | | 38:8,15 39:3, |
| versus 9:22 | wherever | 39:6,13 40:2, | will 54:4 | 12 40:7,23 |
| 12:20 56:9 | 18:11 | 5,9 41:2,21 | 75:14,15 | 41:13 44:16, |
| 68:11 | | 44:18 45:4, | | 24 45:10,18, |
| | whether 8:8 | 12,20 46:2 | WILSON 2:4 | 25 46:10 47:7 |
| vertebree | 12:3 16:5 | 47:2,13 | The Participant | 48:7,19 49:4, |
| vertebrae 56:13 | 22:17 26:15 | 48:15,22 | WINSTON | 12 50:17 |
| 50.15 | 35:11 40:6 | 49:7,16 50:18 | 2:12 | 51:13,22 |
| | 45:6 48:23 | 51:16 52:8 | 2.12 | 53:7,18 54:18 |
| vertebral 38:5 | 60:12 62:18 | 53:8,21 54:10 | | 57:12 59:1, |
| 52:11 56:4, | 66:8,20 68:17 | 55:10,14 | withdrawn | 13,23 60:6 |
| 17,24 57:4 | 69:5 72:19,24 | 57:14 58:7 | 33:15 47:15 | 61:10,18 |
| 60:3,7,11 | | 59:4,14,25 | 57:16 | 62:2,10,17 |
| | while 55:1,18 | 60:8 61:11,21 | 5 to 600 to 10 | 63:8,23 65:3 |
| view 71:8 | Willie 55.1,10 | 62:5,11,21 | within 9:14 | 67:19 70:4 |
| | A Table of | 63:11,17 64:1 | 12:20 30:11 | 71:17 72:2,11 |
| | whole 4:22 | 65:5,9 67:25 | 31:22 32:1,4 | 73:13 74:1,8 |
| violate 52:23 | Value of the Control of | 70:6 71:20 | 55:4,24 67:8 | 75:1 |
| | wholly 12:20 | 72:5,17 73:20 | 69:11 70:1 | 1.5 |
| visualization | | 74:5,13 75:3, | 33.1.70.1 | wondering |
| 49:6 50:4 | | 9,14 | | 16:16 |
| | Wickramasek | | without 30:4 | 10.10 |
| | era 2:13 3:4 | wide 29:17 | Dec San | |
| visualize 50:2 | 5:1,13,22 | 51:25 54:19 | witness 4:21 | word 70:20 |
| | 6:18,25 8:6 | 01.2004.10 | 8:4 9:20 | |
| w | 9:5 10:1,14, | | 10:10,12,19 | work 23:7,16 |
| | 23 11:7,19 | widely 71:12 | 11:3,13,24 | 1 20.7,10 |
| | 12:2,15 13:6 | | 12:10 13:2 | |
| WA 2:7 | 14:14,21 | wider 52:4 | 14:12,18 | wrong 6:20 |
| WA 2.1 | 15:3,10,17 | 55:18 | 15:1,8,15,24 | 42:10 |
| | 16:2,22 18:5, | -5.50.05: | 17:18 18:10, | |
| want 11:17 | 15,24 19:18 | | 21 19:9 | x |
| 21:7 44:5 | 20:20 21:17, | width 9:14,24 | 21:15,21 | - " |
| 7 | 22 23:6,11 | 11:17 34:11, | 22:21 24:2,7, | |
| wanted 14:3 | 24:4,12,22 | 12,21 42:21 | 19 26:19 | XL 7:23,25 |
| 55:8 | 26:6 27:7,14 | 43:8 44:1 | 27:12,22 | 8:1,15 11:14, |
| 55.5 | 28:7,20 29:4, | 45:3 46:6,13, | 28:13,25 | |
| | 20 30:1,18 | 21 48:5 | 29:16,23 | 16 12:8,25 |
| way 8:7 11:17 | | | 1 1 1 1 | |
| | Titiontion | Corriges I o | 200-220 1112 | |
| | Litigation | tigationservices | 00-330-1112 | |

Index: XLIF..Youssef's

| 10.7 10 00 | VI T 42-42-25 | Y_ |
|---|---------------|-------------------------|
| 13:7,10,22 | XLT 13:12,25 | |
| 14:3 18:18 | 14:9,16,23 | |
| 19:14 21:5,8, | 15:12 | |
| 13,19 22:14 | | |
| 23:20,25 | Υ | |
| 25:4,6,20,25 | | |
| 26:4,15,22,23 | | |
| 27:9,10,16, | | |
| 18,24 28:10, | years 17:23 | |
| 14 29:2 33:8, | 62:20 | |
| 11 38:23 | *44 | |
| 41:9,15 42:4, | Yet 28:1 | |
| 15 43:3,18 | 101 20.1 | |
| 46:5 51:18 | All Controls | |
| 53:5 54:14 | Youssef 6:8, | |
| 55:21 56:1, | 11 7:10,16 | |
| 11,15 57:15 | 38:19 64:2,6, | |
| 60:19,24 | 14,21 | |
| 61:6,14,15,23 | | |
| 63:3 64:4,11 | Vausasta | |
| 00.0 0, | Youssef's | |
| ART 1 2 (T) A | 16:4,9 | |
| XLIF 17:4,7, | | |
| 11 18:6,14,18 | | |
| 19:1,3,4,7,15, | | |
| 21,22,25 | | |
| 20:1,6,15,16 | | |
| 22:3 23:4 | | |
| 24:25 26:16 | | |
| 29:7,19 30:8, | | |
| 20 31:3,7,9, | | |
| 16,21 32:3 | | |
| 33:11 48:2 | | |
| 49:24 54:5 | | |
| 56:1 66:4,12 | | |
| 68:21 69:2,12 | | |
| 72:14 73:21 | | |
| 111111111111111111111111111111111111111 | | |
| | | |
| XLR 8:11,12 | | |
| 12:3,7 13:13, | | |
| 17 14:3 | | |
| | | |
| | | |
| _ 44 | Litigation | Services 800-330-1112 |
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