3 PROCEEDINGS 07:55:37 1 THE VIDEOGRAPHER: We're on video. 2 UNITED STATES PATENT AND TRADEMARK OFFICE 07:55:37 3 THE REPORTER: We are on the record. Before I swear -- Before I swear the witness I would BEFORE THE PATENT TRIAL AND APPEAL BOARD 4 5 like to state for the record it is my understanding MEDTRONIC, INC., AND, MEDTRONIC VASCULAR, INC., Petitioner, 6 there is no objection to swearing the witness 7 remotely. Please speak up only if you have an 8 objection. TELEFLEX LIFE SCIENCES LIMITED, Patent Owner. 9 Hearing none; Dr. Graham, would you raise your right hand to be sworn? 10 Case No. IPR2020-01341 10 Case No. IPR2020-01342 11 (Witness sworn.) Case No. IPR2020-01343 Case No. IPR2020-01344 11 12 DR. JOHN J. GRAHAM, MB ChB, MRCP (UK), U.S. Patent No. 8,142,413 12 Called as a witness, being first 13 1.3 DEPOSITION OF DR. JOHN J. GRAHAM, MB ChB, MRCP (UK) 14 duly sworn, was examined and VOLUME I, PAGES 1 - 118 15 testified as follows: 15 JUNE 30, 2021 16 **EXAMINATION** 16 17 BY MR. MORTON: 17 (The following is the deposition of DR. Good morning, Dr. Graham. 07:56:23 18 18 JOHN J. GRAHAM, MB ChB, MRCP (UK), taken pursuant to Notice of Taking Deposition, conducted remotely and 07:56:26 19 Good morning 07:56:28 20 Obviously you've had your deposition taken a via videotape, commencing at approximately 7:55 21 o'clock a.m., June 30, 2021.) 07:56:30 21 couple times before, so I'm not going to go over 22 everything that we've discussed in the past, but I do 07:56:33 22 2.3 07:56:37 23 have a few things to discuss with you this morning. Do you have the documents that we shipped 07:56:39 24 25 07:56:43 25 over? STIREWALT & ASSOCIATES
1-800-553-1953 info@stirewalt.com STIREWALT & ASSOCIATES 1-800-553-1953 info@stirewalt.com 2 APPEARANCES: On Behalf of the Petitioner: 1 A. Yes. They just arrived last night, yes. 07:56:44 3 Cyrus A. Morton Okay. Good. Do you have your declaration 07:56:47 ROBINS KAPLAN, LLP 4 2800 LaSalle Plaza 3 handy? 07:56:52 800 LaSalle Avenue Minneapolis, Minnesota 55402 I've not opened the documents, so if I can 5 07:56:53 4 A. 5 -- Can I open it just now? 07:56:57 6 On Behalf of the Patent Owner: 6 Yes, please. 07:56:59 7 Shelleaha L. Jonas (Witness complying.) There was a Secure 07:57:01 Peter M. Kohlhepp CARLSON CASPERS VANDENBURGH 8 DocuShare sent yesterday evening, and I've just 07:57:10 8 & LINDQUIST, P.A. accessed that, and my declaration I saw was included 9 9 4200 Capella Tower 07:57:14 225 South Sixth Street 07:57:17 10 in that 55402 10 Minneapolis, Minnesota Yeah, whichever is easier for you to look 07:57:20 11 11 ALSO PRESENT: 07:57:22 12 at. I'm looking at hard copies, so. 12 Ronald M. Huber, Videographer Okay. Exhibit 2145. I have my declaration. 07:57:40 13 **EXAMINATION INDEX** Okay. The first topic I want to cover is 13 07:57:56 14 WITNESS **EXAMINED BY PAGE** 07:58:02 15 the -- your definition of an "interventional Mr. Morton 14 Dr. Graham 112 Ms. Jonas 07:58:05 16 cardiology device," so that starts at paragraph 92 of 15 your declaration, and you give your definition in 07:58:09 17 **EXHIBIT INDEX** 16 **EXHIBIT DESCRIPTION** PAGE 07:58:15 18 paragraph 98. Medtronic 17 Article, Mani, "Novel Use of a 86 07:58:16 19 Are you with me? Guide Extension Mother-and-Child 07:58:16 20 Intervention --Catheter for Adjunctive 18 Thrombectomy During Percutaneous Yes, I am there, 98. 07:58:26 21 19 Coronary Intervention for Acute 07:58:29 22 Okay. So your definition of an Coronary Syndromes," 6 pgs. 20 interventional cardiology device is, "a device that is 07:58:31 23 21 22 07:58:36 24 delivered beyond the end of the guide extension 23 catheter to a location in the cardiac vasculature 07:58:39 25 24 25 STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES

5 1 requiring treatment, to provide treatment to that 1 treatment, they are providing treatment. 07:58:43 08:01:14 2 location"; right? 2 So let's explore that a little. 07:58:47 08:01:17 07:58:49 3 Correct. 08:01:20 3 So they don't require that the device 4 4 provides treatment? And so the first topic I want to discuss 07:58:51 08:01:22 5 there is your inclusion twice of the word "treatment," 5 That's not what you said. Sorry, you said 07:58:53 08:01:24 6 okay? 6 "they require treatment." You are implying that the 07:58:57 08:01:26 7 7 Yes. device would require treatment is what I was 07:59:03 A. 08:01:29 8 8 07:59:05 Q. So in your paragraph 95 you note that the 08:01:31 understanding you to say, but the device is providing 9 specification of the patents, you said, uses the terms 9 treatment. 07:59:09 08:01:34 07:59:15 10 "cardiac treatment device," "interventional cardiology 08:01:35 10 Okay. So for two of these they explicitly treatment device," and "interventional cardiology 07:59:19 11 08:01:39 11 say the device provides treatment, "cardiac treatment 08:01:42 12 device" and "interventional cardiology treatment 07:59:23 12 device" interchangeably. Do you see that? 08:01:44 13 device." Do you see that? 07:59:25 13 I do, yes. 07:59:27 14 08:01:46 14 I do see that, yes. Q. Now two of those terms use the word Α. 07:59:30 15 08:01:48 15 "treatment"; right? But the term you're defining, 07:59:32 16 Correct 08:01:49 16 "interventional cardiology device," does not use the And one does not, "interventional cardiology 08:01:52 17 07:59:33 17 Q. word "treatment," doesn't say the device has to 07:59:36 18 device" does not say "treatment." 08:01:56 18 provide treatment; correct? 07:59:37 19 Α. Correct. 08:01:58 19 That is --A. 07:59:39 20 And that's the term that we are defining is 08:01:58 20 MS. JONAS: Object to the form. 08:01:59 21 07:59:42 21 "interventional cardiology device," the one that does That is correct. 07:59:45 22 08:02:01 22 not say "treatment"; right? Okay. But nevertheless, when you define it, 07:59:49 23 08:02:04 23 you say it does require treatment, or providing Could you be more specific? What do you 08:02:07 24 07:59:51 24 mean, that is the one we are defining? treatment. 08:02:08 25 07:59:53 25 Well this whole section of your report is So as you mentioned, in paragraph 95 there STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES 1-800-553-1953 info@stirewalt.com 1-800-553-1953 info@stirewalt.com 6 1 about defining what an interventional cardiology 1 are two explicit uses of the word "treatment," and the 07:59:55 08:02:11 2 device is; right? 2 final one, the "interventional cardiology device," I 07:59:58 08:02:15 3 MS. JONAS: Object to the form. 3 -- I would think that a POSITA would accept that that 08:00:02 08:02:17 4 4 is an implicit requirement of using treatment. Yes, the heading of Section VII on page 46 08:00:03 08:02:23 5 does say, under headline A, "Interventional Cardiology 5 Okay. But given that it does not say 08:00:08 08:02:29 6 "treatment," while the other ones do say "treatment," 08:00:12 08:02:31 7 7 Right. So we're defining that term; right? wouldn't a POSITA reasonably infer that it may or may 08:00:13 08:02:34 8 A. I am, yes. 8 not provide treatment if it's an interventional 08:00:18 08:02:39 9 9 Okay. And you say there's three terms, I cardiology device? 08:02:43 08:00:19 08:02:45 10 10 just read them, that are used interchangeably. Two of MS. JONAS: Object to form. 08:00:23 11 them say "treatment," and the one you're defining does 08:02:46 11 I don't agree with that 08:00:26 08:02:52 12 08:00:28 12 not say "treatment"; right? What's your basis for saying it's used 08:00:29 13 08:02:54 13 MS. JONAS: Object to form. interchangeably, when two of them actually say 08:00:33 14 So although heading A on page 46 under --08:02:57 14 "treatment," and one of them explicitly does not? So in the field of cardiology there are 08:00:38 15 Subheading A, under heading VII, 08:03:02 15 08:00:40 16 "Interventional Cardiology Device," in paragraph 95 08:03:07 16 phrases that are used that are --08:00:44 17 they are interchangeable. So a cardiac treatment 08:03:11 17 So interventional car -- cardiology in 08:00:49 18 device, interventional cardiology treatment device and 08:03:14 18 general, and interventional cardiology especially is a 08:00:53 19 an interventional cardiology device I think of 08:03:17 19 global specialty, subspecialty, and at meetings there 08:00:55 20 interchangeable, but heading "A" states 08:03:23 20 are phrases that are used frequently that are 08:00:59 21 "Interventional Cardiology Device." 08:03:26 21 interchangeable. And I think that a POSITA would 08:01:02 22 Okay. And so you think they all require 08:03:32 22 accept that the three phrases are interchangeable. 08:01:04 23 treatment, even though two of them say "treatment," 08:03:38 23 Do I have an -- a dictionary definition that 08:01:07 24 and one of them does not say "treatment"; right? 08:03:41 24 says they're interchangeable? No. But a POSITA, I 08:01:10 25 Well they not -- they probably don't require 08:03:47 25 would argue, would use these interchangeably globally. STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES

q 1 1 Yeah. I'm just looking to see if you have Okay. It's certainly true that there are 08:03:51 08:06:58 2 2 08:03:55 devices that are used in interventional cardiology 08:07:00 any other examples based on your experience and the 08:03:57 3 that do not provide treatment; right? 08:07:03 3 many procedures that you've done. 4 4 MS. JONAS: Object to form. Okay. So if you're doing a high-risk case, 08:04:00 08:07:06 5 5 In any interventional cardiology procedure a patient who has impaired ventricular function or is 08:04:04 08:07:12 6 there are things that are used in the procedure that 6 very unwell or they have very complex anatomy such 08:04:08 08:07:16 7 7 would not provide treatment. In my previous that you think there is a risk of hemodynamic 08:07:20 8 08:04:16 8 deposition I mentioned the scrubs that I wear, they 08:07:24 cardiovascular collapse during the procedure, then you 9 are essential for the procedure for sterility, but 9 08:04:18 08:07:27 can place a form of mechanical circulatory support 08:04:22 10 they do not provide treatment. So there are facets 08:07:32 10 that would usually typically be an intraaortic balloon 08:04:27 11 and as -- and pieces of equipment that are essential, 08:07:36 11 pump which is placed in the aorta, by its name, or a 08:07:41 12 08:04:31 12 but do not provide "treatment" as I'm defining in this left ventricular assist device, which is commonly 08:07:44 13 08:04:36 13 part of my declaration. called an impeller, which is placed through the 08:04:38 14 Okay. Well let's set aside scrubs and talk 08:07:47 14 Q. femoral artery into the heart itself. And in extreme 08:04:42 15 08:07:52 15 about devices inside the body. cases you would place someone in extracorporeal 08:04:43 16 There are certainly devices that are used 08:07:57 16 membranous oxygenation, abbreviated to ECMO, and they 08:07:59 17 08:04:46 17 inside the body in interventional cardiology that do are very invasive interventional procedures using big 08:04:50 18 not provide treatment; right? 08:08:05 18 devices, but I would not classify them as an 08:04:51 19 MS. JONAS: Object to the form. 08:08:07 19 interventional treatment device. Those devices are 08:04:55 20 There are devices that are essential to the 08:08:10 20 used to stabilize the heart to allow treatment to take 08:04:58 21 procedure that do not provide treatment in the 08:08:16 21 place in the coronary artery that you're interested 08:08:19 **22** 08:05:00 22 coronary artery. in 08:05:02 23 08:08:30 23 O. Okay. Can you give some examples? All right. Do you have any other examples 08:05:05 24 So when you start the procedure the first 08:08:32 24 that are used in, I guess I would say, more standard Α. thing that you do is place a sheath in an artery; 08:05:08 25 08:08:35 25 interventional cardiology procedures that are devices STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES 1-800-553-1953 info@stirewalt.com 1-800-553-1953 info@stirewalt.com 10 12 1 radial artery or femoral artery or whatever other 1 used in interventional cardiology, but are not 08:05:14 08:08:41 2 artery you're using, brachial or whatever. And that 2 "interventional cardiology devices" according to your 08:05:17 08:08:43 3 is a te -- usually, typically, a 10 centimeter sheath. 3 definition? 08:05:22 08:08:46 4 4 And that goes nowhere near the heart, but it's in the MS. JONAS: Object to form. 08:05:27 08:08:47 5 body, and it's essential for the procedure. 5 Δ. I've given a few examples. I really would 08:05:30 08:08:49 6 Okay. Can you give me some more examples? have to go away and think about this. That wa -- They 08:05:34 08:08:54 7 7 Okay. The guide catheter that we use is were just three, four or five off the top of my head 08:05:43 08:08:58 8 advanced through the arterial system to the ascending 8 Okay. Let's focus then on the word that you 08:05:49 08:09:04 9 9 aorta and is engaged in the ostium of the coronary used in your definition, of "treatment." 08:05:52 08-09-08 08:05:56 10 08:09:14 10 artery, and that is essential for the procedure but is What does that mean, "provide treatment"? 08:06:00 11 not an interventional cardiology device. That guide 08:09:22 11 Within my field of interventional 08:09:25 12 08:06:04 12 catheter is advanced over a large bore wire, usually cardiology, "treatment" would be -- So I talk about 08:06:10 13 08:09:32 13 35 or 30 thousandths of an inch, and that is essential this in the background. The field of interventional 08:06:15 14 for the procedure but it does not provide treatment to 08:09:35 14 cardiology, as directed towards coronary artery 08:06:19 15 08:09:40 15 disease, is aimed at relieving a blockage in an the lesion in question 08:06:21 16 Okay. Are there other devices used in 08:09:45 16 artery, so treatment would involve relieving that 08:06:24 17 interventional cardiology that you would say are not 08:09:48 17 blockage. 08:06:29 18 interventional cardiology devices? 08:09:53 18 Okav. Is another word --08:06:32 19 I know a word you use a lot in here is MS. JONAS: Object to form. 08:09:55 19 08:09:58 **20** 08:06:33 20 There may well be. I -- I can go through my "therapy" or "therapeutic." Is it providing direct 08:10:01 21 08:06:38 21 declaration. I talk about devices that are therapy to a lesion or a blockage in an artery, is 08:06:42 22 interventional devices, there may well be others, but, 08:10:05 22 that what "treatment" means? 08:06:48 23 I can go away and think about it and come back and 08:10:08 23 MS. JONAS: Object to form. 08:10:15 24 08:06:52 24 give you a list, which may not be exhaustive, but I Most people would say treatment --08:06:56 25 could do that. 08:10:21 25 I'm -- I'm thinking of a derivation of STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES

13 15 1 1 treatment and therapy. I can't remember if they're And the full-length guidewire is not an 08:10:23 08:13:51 2 2 interventional cardiology device? 08:10:26 both related in their derivation 08:13:53 08:10:41 3 I think in our field most people would say 08:13:55 3 MS. JONAS: Object to the form. 4 4 "treatment," but "therapy" potentially could be used. The 035 or large-bore guidewire that you use 08:10:44 08:13:57 5 5 It would be quite unusual to use it. to put the guide catheter in is not an interventional 08:10:47 08:14:03 6 Okay. So just want to make sure I got it 6 cardiology device for the reasons I state in 98. 08:10:52 08:14:06 7 7 right. Your -- Your definition of --Okay. Are there other guidewires that you 08:10:56 08:14:10 8 8 08:10:59 Your understanding of what it means to 08:14:12 think are interventional cardiology devices? 9 "provide treatment" was provide relief for a -- a 9 So within this, the devices that we say are 08-11-00 08:14:16 08:11:09 10 lesion or a blockage in an artery; is that right? 08:14:21 10 an interventional cardiology devices includes MS. JONAS: Object to the form. 08:11:12 11 08:14:25 11 guidewires, balloons, stents and stent catheters. So 08:11:13 12 That may have been the wording that I said, 08:14:31 12 coronary guidewires would be classified as an 08:11:16 13 but to expand on that, it would be maybe not "relief," 08:14:34 13 interventional cardiology device. 08:11:21 14 I said maybe "alleviate the blockage," but you would 08:14:36 14 Okay. Well I'm just trying to figure out 08:14:39 15 08:11:25 15 want to -- to effectively open up a blocked artery, where the line is. 08:11:32 16 whether it be 80, 90 or a hundred percent blocked. 08:14:40 16 So now it sounds like some guidewires that 08:14:42 17 08:11:42 17 Okay. So I'll try to go with that. are used in interventional cardiology are 08:11:45 18 08:14:46 18 "Treatment" is -- is alleviating a blockage or opening interventional cardiology devices, but other 08:11:48 19 up a blockage in an artery. 08:14:48 19 quidewires used in interventional cardiology are not 08:11:54 20 And so --08:14:52 20 interventional cardiology devices. Is that right? 08:14:55 21 08:11:54 21 Usually -- When I say "artery," it could be MS. JONAS: Object to the form. 08:14:58 22 08:11:58 22 a vascular structure in the heart. We usually say That would be one way of describing it. 08:12:03 23 "artery," but it could be a bypass graft, which would 08:15:01 23 Again, as I said, there are pieces of equipment that 08:12:07 24 be venous usually, unless it was a mammary arterial 08:15:05 24 you must use in the procedure but it's not an 08:12:12 25 graft. So we conventionally say "artery," but it 08:15:08 25 interventional cardiology device, and you -- you made STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES 1-800-553-1953 info@stirewalt.com 1-800-553-1953 info@stirewalt.com 14 16 1 could be a venous bypass graft. 1 the distinction of a device that's placed into the 08:12:15 08:15:13 2 Okay. So if a device is used in 2 body, but there are numerous devices essential to the 08:12:25 08:15:15 3 interventional cardiology, but that device itself is 3 procedure that don't go in the body. And again, there 08:12:31 08:15:19 4 not what's used to alleviate a blockage, then it's not 4 are pieces of equipment that go into the body that are 08:12:34 08:15:23 5 an interventional cardiology device; is that right? 5 not interventional cardiology devices. 08:12:40 08:15:26 6 6 08:12:47 So in this -- where did we say, paragraph Okay. 08:15:30 7 7 98. So I would say that it's "a device that is And I actually just thought of a couple 08:12:53 08:15:30 8 delivered beyond the end of the guide extension 8 more. So at the end of the procedure if you're going 08:12:59 08:15:32 9 9 catheter to a location in the cardiac vascular the femoral arterial route, occasionally you may seal 08:13:01 08:15:35 08:13:05 10 requiring treatment, to provide treatment to that 08:15:39 10 the hole in the artery, in the femoral artery, with a 08:13:06 11 location." And we've already agreed, when you asked 08:15:43 11 closure device; essential for the procedure, but goes 08:13:10 12 08:15:46 12 me earlier, that guide catheters and the introducer nowhere near the lesion needing treatment in the 08:13:14 13 08:15:50 13 sheath, and the long exchange-length wire are not coronary artery, does not go past it, so it is not an 08:13:19 14 interventional cardiology devices, but from what you 08:15:56 14 interventional cardiology device, treat -- treatment 08:13:22 15 just said there, the -- you made it sound as if any 08:15:59 15 device, interventional cardiology device 08:13:26 16 piece of equipment we use in the procedure is an 08:16:04 16 Okay. So I'm understanding your definition 08:13:29 17 interventional cardiology device, but I've already 08:16:10 17 a little bit better. Devices that are used in cardiol 08:16:14 18 08:13:31 18 said that that's not the case. -- interventional cardiology that are essential for 08:13:34 19 Okay. So I think you mentioned three 08:16:16 19 the procedure but don't go beyond the guide catheter 08:16:26 **20** 08:13:36 20 things. You're saying the sheath is not an are not interventional cardiology devices? 08:13:38 21 interventional cardiology device? 08:16:29 21 MS. JONAS: Object to form. 08:13:42 22 Α. Correct. 08:16:31 22 I don't think that's what I said. You may 08:13:44 23 And the guide catheter is not an 08:16:35 23 have misheard me, or maybe I misspoke. But I think in 08:16:44 24 08:13:47 24 interventional cardiology device? 98, paragraph 98 is delivered beyond the end of the 08:13:50 25 Agreed. 08:16:49 25 guide catheter to a location in the cardiac STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES

19 1 1 vasculature requiring treatment, and to allow -- or to interventional cardiology device because it doesn't go 08:16:53 08:19:57 2 provide treatment to that location. 2 beyond the end of the guide catheter, but then other 08:16:57 08:20:00 08:17:01 3 I understood that. 08:20:04 3 guidewires that do go beyond the end of the guide 4 4 And my understanding of what you're telling catheter, those become interventional cardiology 08:17:03 08:20:07 5 me is that there are all these devices that are 5 devices; right? 08:17:05 08:20:11 6 essential for an interventional cardiology procedure, 6 MS. JONAS: Object to form. 08:17:08 08:20:13 7 7 but they are not interventional cardiology devices, That's what I say in my dec -- in my 08:20:15 under your definition, because they don't extend past 8 08:17:18 8 08:20:18 declaration, yes. 9 the guide catheter in the area of the lesion or the 9 08:17:22 08:20:19 Okay. And so that's what I'm trying to get 10 blockage that requires treatment. 08:20:22 10 to understand. 08:17:25 MS. JONAS: Object to form. So if you have a device that's important or 08:17:28 11 08:20:23 11 08:17:29 12 08:20:26 12 essential for an interventional cardiology procedure Is that right? 08:17:33 13 So that is what I wrote in 98, yes. 08:20:29 13 and that device protrudes past the end of the guide 08:17:37 14 08:20:34 14 catheter, that's when it becomes an interventional Q. Okav. So an interventional device is one that goes 08:20:38 15 08:17:38 15 cardiology device under your definition. 08:20:43 16 08:17:40 16 beyond the end of the catheter to the lesion, to MS. JONAS: Object to form. 08:20:44 17 08:17:43 17 provide treatment to the lesion. Well every time I say my definition, you Okay. So if a -- if a device that's 08:20:49 18 08:17:45 18 then put it back to me by saying extends out the end 08:17:48 19 essential for an interventional cardiology procedure 08:20:54 19 of the guide catheter, but then you omit anything 08:17:52 20 goes beyond the end of the guide catheter, then it 08:20:57 20 about the lesion needing treatment. 08:21:04 21 08:17:58 21 becomes an interventional cardiology device? So my definition of an interventional 08:18:02 22 08:21:06 22 MS. JONAS: Object to form. cardiology device is something that goes beyond the 08:18:04 23 I'm sorry, that's not what 98 says. 08:21:08 23 end of the guide catheter down to the lesion, to 08:18:12 24 provide treatment to the lesion. It is not just I know, but we've been talking about this 08:21:11 24 08:18:14 25 for awhile and I thought that's what you said, that's 08:21:14 25 coming out the end of the guide catheter, because the STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES 1-800-553-1953 info@stirewalt.com 1-800-553-1953 info@stirewalt.com 18 20 1 the distinction you've been making. And I'm just 038 wires come out the end of the guide catheter, 08:18:16 08:21:17 2 trying to find where that line is, where these devices 2 that's how they're safe, it avoids trauma to the 08:18:21 08:21:21 3 that are used in interventional cardiology get to a 3 aorta, but they don't go into the coronary artery, and 08:18:24 08:21:25 4 point where they become interventional cardiology 4 they don't provide treatment to the coronary artery. 08:18:27 08:21:27 5 devices. 5 Everything else that I mention there provides 08:18:30 08:21:32 6 MS. JONAS: Object to the form. Counsel, 6 treatment to the coronary artery. 08:18:34 08:21:34 7 7 is there a question pending? Okay. So your definition of an 08:18:47 08:21:40 MR. MORTON: Yes. 8 8 interventional cardiology device is a device that 08:18:52 08:21:43 9 MS. JONAS: Okav. 9 extends past the end of the guide catheter and 08:21:47 08:18:52 10 Do you understand the question, Dr. Graham? 08:21:49 10 provides treatment to a lesion. 08:18:59 11 I'm sorry, I did not get it. I didn't 08:21:52 11 MS. JONAS: Object to form. 08:19:01 08:19:05 12 08:21:56 12 realize it was a question. I do apologize, I'm sorry. Comes out the end of the guide catheter to a 08:22:02 13 08:19:07 13 Okay. You've given me a number of examples location in the cardiac vasculature requiring 08:19:10 14 of devices that are used in interventional cardiology 08:22:04 14 treatment, to provide treatment to that location, yes, 08:19:15 15 that you've said are not interventional cardiology 08:22:08 15 that is what I say. 08:22:10 16 08:19:18 16 devices because they don't extend past the guide Okay. Let's talk then specifically about 08:19:24 17 catheter and -- and get out, you know, near a lesion 08:22:13 17 the guidewires that are advanced past the end of the 08:19:29 18 or a blockage for providing treatment; right? 08:22:18 18 guide catheter out near the lesion, okay? 08:19:31 19 MS. JONAS: Object to form. 08:22:22 19 A. Umm-hmm. 08:22:28 20 08:19:33 20 In 98 that's what we say, beyond the guide You've testified previously that you've 08:22:31 21 08:19:38 21 catheter to the lesion -- or to the location requiring never used a guidewire to provide treatment; right? 08:19:41 22 treatment, to provide treatment, yes. 08:22:34 22 Α. 1 --08:19:43 23 Right. And so this is how you've kind of 08:22:34 23 MS. JONAS: Object to the form. 08:22:35 24 08:19:47 24 split the difference between a guidewire used to I think I said that I did, or I have done. 08:22:41 **25** 08:19:53 25 insert the guide catheter you've said is not an All right. Well we can certainly check the STIREWALT & ASSOCIATES STIREWALT & ASSOCIATES

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