Page 1			
UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD			
MEDTRONIC, INC., and MEDTRONIC VASCULAR, INC.,			
Petitioners,			
vs. Case No. IPR2020-00126			
vs. Case No. 1PR2020-00126 U.S. Patent No. 8,048,0			
TELEFLEX INNOVATIONS			
S.A.R.L.,			
Patent Owner.			
IPR2020-00126 (Patent 8,048,032 B2)			
IPR2020-00127 (Patent 8,048,032 B2)			
IPR2020-00128 (Patent RE45,380 E)			
IPR2020-00129 (Patent RE45,380 E)			
IPR2020-00130 (Patent RE45,380 E)			
IPR2020-00132 (Patent RE45,760 E)			
IPR2020-00135 (Patent RE45,776 E)			
IPR2020-00136 (Patent RE45,776 E)			
IPR2020-00137 (Patent RE47,379 E)			
IPR2020-00138 (Patent RE47,379 E)			
VIDEOCONFERENCE VIDEOTAPED			
DEPOSITION OF			
LORENZO AZZALINI, M.D.			
DATE: December 7, 2020			
TIME: 1:02 p.m.			
PLACE: Richmond, Virginia			
(via videoconference)			
JOB NO.: MW 4338343			
REPORTED BY: Dawn Workman Bounds, CSR			

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Page 2	Page 4
1 APPEARANCES	1 PROCEEDINGS
2 (ALL APPEARANCES VIA VIDEOCONFERENCE) 3 ON BEHALF OF PETITIONERS:	2 THE VIDEOGRAPHER: We are going on the
4 CYRUS A. MORTON, ESQ.	3 record at 1:02 p.m. on December 7, 2020. This is media
WILL MANSKE, ESQ. 5 ROBINS KAPLAN LLP	4 unit 1 of the video-recorded deposition of Dr. Lorenzo
2800 LaSalle Plaza	5 Azzalini being taken via Zoom, and taken by counsel for
6 800 LaSalle Ave	6 the Petitioner in the matter of Medtronic, Incorporated
Minneapolis, MN 55401 7 612.349.8500	7 and Medtronic Vascular, Incorporated versus Teleflex
camorton@rkmc.com	8 Innovations S.A.R.L., in the United States Patent and
8 wmanske@RobinsKaplan.com 9	9 Trademark Office before the Patent Trial and Appeal
10 ON BEHALF OF PATENT OWNER:	10 Board. Case Number IPR2020-00126.
11 ALEX S. RINN, ESQ. DEREK VANDENBURGH, ESQ.	11 My name is Adam Wallin from the firm
12 JOSEPH W. WINKELS, ESQ.	
CARLSON CASPERS VANDENBURGH & LINDQUIST, PA. Capella Tower, Suite 4200	12 Veritext, and I am the videographer. The court reporter
225 South Sixth Street	13 is Dawn Bounds from the firm Veritext.
14 Minneapolis, MN 55402 612.436.9623	14 Will counsel please identify themselves
15 arinn@@carlsoncaspers.com	15 for the record.
dvandenburgh@carlsoncaspers.com	16 MR. MORTON: This is Cyrus Morton of
16 jwinkels@carlsoncaspers.com17	17 Robins Kaplan on behalf of Petitioner Medtronic. Also
ALSO PRESENT:	18 with me on the deposition is William Manske.
18 Greg Smock, Teleflex	19 MR. RINN: This is Alex Rinn on behalf of
19	20 patent owner with the Carlson Caspers firm. Also with me
Adam Wallin, Videographer 20	21 today from Carlson Caspers are Derek Vandenburgh and Jo
20 21	22 Winkels, and Greg Smock is on the line from Teleflex.
22	23 THE VIDEOGRAPHER: Will the court reporter
23 24	24 please swear in the witness, and we can proceed.
25	25 THE REPORTER: Due to the need for this
Page 3	Page 5
1 INDEX	1 deposition to take place remotely because of the
2 WITNESS: LORENZO AZZALINI, M.D. PAGE	2 government's order for physical distancing, the parties
3 EXAMINATION BY MR. MORTON 5	3 will stipulate that the court reporter may swear in the
4 EXAMINATION BY MR. RINN	4 witness over the videoconference and that the witness has
5 EXHIBITS PREVIOUSLY MARKED/REFERRED TO	5 verified that he is in fact Lorenzo Azzalini.
6 No. 2151: Declaration of Dr. Lorenzo Azzalini 20	6 Agreed, counsel?
7	7 MR. RINN: Agreed.
8	8 MR. MORTON: Agreed.
9	9 LORENZO AZZALINI, M.D.,
10	10 duly sworn via videoconference as stipulated by counsel
11	11 was examined and testified as follows:
12	12 EXAMINATION
13	13 BY MR. MORTON:
14	14 Q. Good afternoon, Dr. Azzalini.
15	15 Have you had your deposition taken
16	16 before?
17	17 A. This is the first time I have my deposition
18	18 here with me, yeah.
19	19 Q. Okay. You've never had your deposition taken
20	20 before in any other matter?
20	21 A. No, no. That's the first time.
	22 Q. Okay. Did you have time to prepare for this
22	22 Q. Okay. Did you have time to prepare for this 23 deposition with counsel?
23	-
24	24 A. Yes, I reviewed my declaration.
25	25 Q. Okay. But were you prepared for the deposition

2 (Pages 2 - 5)

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Page 6 1 with counsel; either Mr. Rinn, Mr. Winkels, did you spend	Page 1 experience with GuideLiner, so usually one tries to use
	2 what he or she is more used to.
2 time with them to prepare for your deposition?	
A. Yeah, I spent I spent a few hours with them.	3 But other than that, since I've used the
4 Q. Okay. So as you can see, it's a deposition. I	4 other two devices so few times, I cannot really make a
5 ask the questions. You give the answers.	5 scientific opinion whether one is better than the other
6 I want to make sure, since it's a Zoom	6 or vice versa.
7 deposition, can you hear my questions appropriately?	7 Q. All right. And have you have you used all
8 A. Yes, I can.	8 three versions of GuideLiner?
9 Q. And as you sit there, can you think of any	9 A. No. I think I just used the V3, the latest
10 reason why you would not be able to give truthful and	10 one.
11 accurate responses to my questions this afternoon?	11 Q. Okay. You never had a chance to - even in your
12 A. No.	12 studies or training - work with or use GuideLiner
13 Q. When did you begin practicing?	13 versions 1 or 2?
14 A. So I finished training in 2013 as a	14 A. I don't think so.
15 cardiologist, and then I started an interventional	15 It might be that GuideLiner Version 1
16 cardiology fellowship between '13 and '15. And then I	16 never made it to Europe for sure when I started using it.
17 spent the last five years as a practicing interventional	17 I think that I'm pretty sure I just used V3.
18 cardiologist.	18 Q. So these products all have what we call a "side
19 Q. Okay. So since you've been training and	19 opening" in this case, a proximal opening, into the
20 practicing, there have always been GuideLiners; is that	20 distal tubular structure.
21 fair?	21 You're familiar with that?
A. That's correct, yes.	A. Yeah. So are you referring to the half-pipe or
23 Q. Always been some form of a rapid exchange	23 collar or the end?
24 version of a guide extension catheter, right?	24 Q. Yes; no, that's the end where you kind of go
25 A. Yes, I've mainly been exposed to GuideLiner.	25 from a pushrod or a push wire, you have some kind of a
Page 7	Page
1 Q. Okay. And have you ever used Guidezilla or	1 half-pipe whatever you've got opening into the
2 Telescope?	2 tube, that section there. From a patent standpoint,
3 A. Yes. Guidezilla probably around 10 times or a	3 we've been calling that a side opening.
4 dozen times, and Telescope just, I think, once.	4 A. Okay.
5 Q. Okay. So obviously you've used GuideLiner more	5 Q. But it's just the proximal opening into the
6 often.	6 distal tube. So that section, okay?
7 But now that you've looked at the other	7 A. Okay.
8 two, do you have do you have a favorite or any reason	8 Q. In the time that you have spent with Version 3
9 why you'd use one versus the other?	9 and Guidezilla - and I think you said you used Telescope
10 A. So I think mainly in most places I've worked,	10 once - do you have any preference, any clinical
11 the main guide catheter extension was a was	11 difference in terms of that part of the device, between
12 GuideLiner. So part of the reason why I use more	12 one device and another?
13 actually, most of the reason why I use more GuideLiner is	13 A. So my understanding is that both Telescope and
14 because the cath lab where I worked had that on the	14 GuideLiner, that half-pipe is made of so it's like a
15 shelf.	15 plastic like material, where Guidezilla is made of a
16 And I also think that Telescope came quite	16 metallic compound.
17 later than the other two products on the market.	17 So as mentioned, since I haven't used the
18 Q. Sure. And I'm just asking you know, assume	18 other two devices much and I 99.9 percent have used the
19 that on the shelf is a is GuideLiner, Guidezilla, and	19 GuideLiner, I cannot make a like a recommendation or
20 Telescope, they're all on the shelf.	20 like an opinion whether polymer or metal is better.
21 Other than just kind of your familiarity	21 Q. Okay. Do you have any other differentiating
22 with GuideLiner, do you have any reason why you'd pick	22 factor, from just a clinical standpoint, between the
23 one over the other in terms of their structure or	23 different materials used, polymer and metal, that you
	2.2. anterent materials used, porymer and metal, that you
24 function?25 A. Well, as you mentioned, I have much more	24 think about?25 A. So I'm not an engineer, so this is the only one

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1 4 4 1 4 1 4 1 4 1	Page 10		4	Page 1
1 that I can think of, honestly.			the cases.	
2 Q. Okay. Okay. Thanks		2	On the right, every now and then. I would	1
3 So in the time you'v			not say frequently.	
4 procedures, have you experie	-	4	Q. Okay. How about another thing that I've	
5 just using a guide catheter, a	nd it backs out of the		heard that you can do is swap out and use a comple	tely
6 coronary ostium?			different guide catheter. It may have different	
7 A. Yes. It's pretty comm		7	materials, different bend to it.	
8 THE REPORTER:	I'm sorry, Doctor. Repeat	8	Is that something that you've done in your	
9 what you're saying.		9	practice?	
10 A. Yes, unfortunately it	is a pretty common	10	A. Yes. So that's a feasible option if you	
11 occurrence.		11	realize from the very beginning that you're having	
12 BY MR. MORTON:		12	trouble and you think that there is a better catheter -	
13 Q. Okay. And when that	t has happened, you need	13	when I say better, I mean a different shape that	
14 to obviously you need to d	lo something to address that	14	better fits into that coronary.	
15 situation, right?		15	Once you started with procedure and you	
16 A. Uh-huh.		16	started wiring and ballooning and stenting, it's really	у
17 Q. Have you ever respor	nded to that by trying to	17	not an option; because you would have to sacrifice	your
18 deep-seat just the guide cath		18	wire position, and that is comes with consequence	es and
19 coronary artery?			risks.	
20 A. Yes, that's a one po	ossibility. It's	20	So if the vessel is dissected, it's not	
21 actually probably the first thi	-	21	wise and safer for the patient to change the guide	
•••••	give me an idea of how often		because this would imply removing everything.	
23 you've tried that and how suc		23	Q. Got it.	
	time that you have back	24	So can you just focus your answer just on	
25 back-up support issues, you			when it is a feasible option and tell me what that is	,
	Page 11			Page
1 in. Then you can go further		1	A. It would be feasible, I would say only for	
2 to deep-seat the guide cathet	er inside the coronary	2	example, you take the diagnostic picture and with	n the
3 artery.		3	guide catheter, and you immediately realize that the	ere's
4 So are you referring	g to that?	4	no way you can accomplish that procedure because	you'v
5 Q. Yes.		5	made a poor guide catheter choice, and that must ha	appen
6 A. So these maneuvers,	I tried it in the past, and	6	very early in the procedure.	
7 I still sometimes try it. It's q	uite laborious, I would	7	If you start wiring and ballooning,	
8 say. It can I usually use it	only on the right	8	usually it's not a safe thing to do.	
9 coronary artery because it's -	there are no major	9	Q. Got it.	
10 branches, as opposed to the l	left coronary artery.	10	How about another thing that I've heard	
	y delicate because the	11	you can do is it may be in your declaration is to)
12 guide catheter is pretty big a			use a buddy wire.	
13 you can create some damage		13	Are you familiar with that?	
14 So usually you cannot advan		14	A. Yes. I am familiar with that, yes.	
15 artery.		15	Q. And is that something that you've done in yo	our
16 Having said that, it	's successful		career to address a problem of a guide catheter back	
17 sometimes; but I would say i		17		
	ing you would commonly	18	A. Yes. It's something that I try, for example,	
19 try, but in a minority of case			more often than deep-seating, even nowadays.	
	5, 11 WOULU 11 5	20		
20 successful; is that right?	ity of angent it would be		Actually, many times I might go to tech first line technique when I have back up support iss	
21 A. Exact in the minor	ity of cases, it would be		first line technique when I have back-up support iss	
	open first of all as I		Because maybe you already have another wire on the	ie tab
22 successful. I do not try very		0.0		
22 successful. I do not try very23 mentioned, because on the let	eft coronary, it's dangerous.		and you can just insert it. It it creates a rail onto	
22 successful. I do not try very23 mentioned, because on the le24 So already more than 50 per25 it because that left coronary	eft coronary, it's dangerous. cent of the cases I do not do	24	which the other device - the balloon or stent - can g and it's sometimes successful, yes.	0,

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Page 14 1 Q. Okay. Can you give me any idea sort of what	Page 1 catheter inside the main catheter to reach the coronary.
2 percentage of cases you would attempt a buddy wire, and	2 But not for interventional purposes,
3 it would be successful?	3 because, as I mentioned before, since I started
4 A. So let's say that in in a case that I have	4 practicing, the GuideLiner and then the Guidezilla and
5 support issues, I would try that probably 40, 50 percent	5 Telescope were already available.
6 of the times and not in all in all the times; not	6 Q. Sure. Understand that.
7 always, because there are some cases that, you know,	7 So if we focus again on the time that you
8 already from the beginning that there is no way the buddy	8 did use it, if I understand, you've used a full-length
	9 mother-and-child system where you've extended the child
9 wire technique can work.10 Also, because sometimes the lesion you're	10 catheter further into the coronary vasculature, you just
· · · · ·	
11 trying to to bring balloons to is is just so tight,	11 did that only for diagnostic; is that right?
12 so narrow, that it's almost impossible that you're going	12 A. Yes. Let me specify.
13 to be able to cross with a second wire; and you can run	13 So basically sometimes the ostia is very
14 the risk of dissecting, so damaging the vessel.	14 dilated. You need the cath you have a catheter that
15 But other than that, yeah, I would say	15 points toward the coronary ostia, but you cannot reach
16 maybe 40 maybe 45 percent of the time, I would try	16 it; so you put a smaller catheter inside.
17 that.	17 So you're not actually going into the
18 Q. Okay. And in the cases when you tried it, how	18 coronary artery with the child, but just onto the
19 often is it successful?	19 beginning of it, so the ostium.
A. Of that 40 to 45 percent, it might be	20 Q. All right. Have you ever have you ever
21 successful in 30 percent.	21 witnessed what I'll call a full-length mother-and-child
22 So if we make that 45 percent 100 now, it	22 being used for the purpose of actually delivering a
23 would be successful in 30 percent.	23 device, like a balloon or stent?
Q. Okay. So, ultimately, 30 percent out of 100	A. So I think I might have seen presentations from
25 percent successful with the buddy wire?	25 the past, but even my teachers and mentors that I had the
 3 the time where I would try the buddy wire, so it's 4 it's way less than that. 5 BY MR. MORTON: 6 Q. Okay. I was just trying to figure out where 7 it where it falls. 8 So 40 to 45 percent of the time, you try 9 the buddy wire, and 30 percent of those times, it's 10 successful? 11 A. Yeah. I would say basically over a total 12 absolutely, in absolute terms of 100, I would say 15 13 percent, it's successful. 	 3 extension - initially the GuideLiner, then Guidezilla, 4 and Telescope - when I was in practice. So I just know 5 the information from the past. 6 Q. Okay. So basically once there was a rapid 7 exchange version of mother-and-child, everybody used 8 that; is that fair? 9 A. I don't know the exact nomenclature of how 10 you want to frame the guide catheter extension; but I 11 would just call it guide catheter extension. 12 Q. So these things that we've discussed, we 13 discussed deep-seating, using a different guide catheter,
14 Q. Okay.	14 and the buddy wire.
15 A. Okay. To make it clear.	15 So are these all are all three of those
16 Q. So how about another option, which would be	16 things, things that you would potentially try first; and
17 a what I'll call a full-length mother-and-child with a	17 then if they didn't work, then you would try a guide
18 full-length child catheter; is that something that you're	18 extension catheter?
19 familiar with?	19 A. Not all the times.
20 A. I know pretty well what you're talking about.	20 So with you know, with experience, it
21 I've used that technique not for	21 comes sometimes you get to a point to where from the
1	
22 interventional purposes, so not to do like a with a	22 get-go, you understand a buddy wire would not work.
23 balloon or a stent; whereas, sometimes pretty rarely,	23 Or you cannot, for example, change to a
24 though, to in for diagnostic angiograms, sometimes	24 bigger or different guide catheter if you're going from25 radial axis because you're already using a big catheter,
25 the catheter would not reach, and I would use a smaller	

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