	Page
UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD	
MEDTRONIC, INC., AND MEDTRONIC	
VASCULAR, INC.,	
Petitioners,	
vs.	
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)	
IPR2020-00134 (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)	
VIDEOTAPED DEPOSITION OF	
PETER KEITH	
DATE: November 24, 2020	
TIME: 9:00 a.m. (Central Standard Time)	
PLACE: Veritext Virtual Videoconference	
סער מאם משייטרא ע גזווגע פאס משייסטקיס אינ	C
REPORTED BY: PAULA K. RICHTER, RMR, CRR, CR	

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1 APPEARANCES	1 INDEX
2 (All parties appeared via videoconference)	2
3	3 WITNESS: PETER KEITH PAGE:
4 ON BEHALF OF THE PETITIONERS:	4 EXAMINATION BY MR. MORTON
5 Mr. Cyrus A. Morton, Esq.	5 EXAMINATION BY MR. WINKELS 193
6 Mr. Christopher A. Pinahs, Esq.	6
7 ROBINS KAPLAN, LLP	7
8 800 LaSalle Avenue, Suite 2800	8 EXHIBITS MARKED: PAGE:
9 Minneapolis, Minnesota 55401	9 EXHIBIT 1122 Photos of GuideLiner Versions
10 (612) 349-8500	10 1, 2 and 3 43
11 cmorton@robinskaplan.com	11 EXHIBIT 1123 U.S. Patent 7,422,579 146
12 cpinahs@robinskaplan.com	12
13	13 (Original exhibits attached to original transcript;
4 ON BEHALF OF THE PATENT OWNER:	14 copies provided to counsel.)
15 Mr. Joseph W. Winkels, Esq.	
Mr. J. Derek Vandenburgh, Esq.	16 EXHIBITS PREVIOUSLY MARKED AND REFERRED TO:
7 CARLSON, CASPERS, VANDENBURGH & LINDQUIST	
8 225 South Sixth Street, Suite 4200	18 EXHIBIT 1009 U.S. Patent 5,439,44569
9 Minneapolis, Minnesota 55402	19 EXHIBIT 1035 U.S. Patent Application
20 (612) 436-9600	20 Publication US2004/0010280 99
jwinkels@carlsoncaspers.com	21 EXHIBIT 2138 Declaration of Peter Keith
2 dvandenburgh@carlsoncaspers.com	22 in IPR2020-00127
23	23
24	24
25 (APPEARANCES continued on next page)	25
Page	Page
1 APPEARANCES (Continued)	1 PROCEEDINGS
2	2 THE VIDEOGRAPHER: Good morning. We
3 ON BEHALF OF PATENT OWNER:	3 are going on the record at 9:00 a.m. CST, on
4 Mr. Kenneth E. Levitt, Esq.	4 Tuesday, November 24th, 2020. Audio and video
5 THE DORSEY FIRM	5 recording will continue to take place unless all
6 50 South Sixth Street, Suite 1500	6 parties agree to go off the record.
7 Minneapolis, Minnesota 55402	7 This is Media Unit 1 of the
8 (612) 340-2600	8 video-recorded deposition of Peter Keith, in the
9 levitt.kenneth@dorsey.com	9 matter of Medtronic versus Teleflex Innovations,
0	10 filed in the Patent Trial and Appeals Board, case
11	11 number IPR2020-00127.
2 ALSO PRESENT BY VIDEOCONFERENCE	
3 Craig Jones - Videographer	13 video conference. My name is Craig Jones, from
4 Grant Franks - Veritext Concierge	14 the firm Veritext Midwest, and I'm the
5 Greg Smock - Teleflex	15 videographer. The court reporter is Paula
6	16 Richter, from the firm Veritext Midwest.
17	17 I am not related to any party in
18	18 this action, nor am I financially interested in
19	19 the outcome.
20	20 Counsel and all present in the room
21	21 and everyone attending remotely will now state
22	22 their appearance and affiliations for the record.
23	23 If there are any objections to proceeding, please
24	24 state them at the time of your appearance,

2 (Pages 2 - 5)

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<ul> <li>Page</li> <li>1 inspected the devices, does that mean basically</li> <li>2 you had a version of them and looked at it,</li> <li>3 checked it over outside of kind of the operating</li> <li>4 context?</li> </ul>
3 checked it over outside of kind of the operating
4 context?
5 A. Yes. In more of a like an R&D lab-type
6 setting.
7 Q. And you note that you've performed testing on
8 the GuideLiner, QXM, and Medtronic guide extension
9 catheters.
10 Do you see that?
11 A. Yes.
12 Q. What testing did you do on GuideLiner?
13 A. On GuideLiner, I in addition to my visual
14 inspections, I did some flexibility
15 characterizations, some bending, stiffness
16 characterizations on different portions of the
17 device.
18 Q. Any other testing besides bending and
19 stiffness testing?
20 A. I don't recall any others sitting here right
21 now.
22 Q. Okay. And then how about same question for
23 the QXM Boosting Catheter; what testing did you do
24 on that?
25 A. I did similar types of testing on that
7 Page
1 device, and I think I also did some dimensional
2 measurements. I think I yeah, that's
3 sitting here right now, those are the types of
4 tests that I recall doing on that device.
<ul><li>5 Q. All right. And finally, for the Medtronic</li><li>6 Telescope guide extension catheters, what testing</li></ul>
7 did you perform?
8 A. Again, similar types of flexibility testing
9 that I did on the other devices.
10 Q. All right. Do you have, in your history or
11 experience, any experience as a librarian?
12 A. No.
12 A. No. 13 Q. Have you ever worked as an editor of an
14 engineering journal?
15 A. No.
16 Q. All right. Let's jump ahead.
17 You get into your declaration in,
18 say, paragraph 38. You're going through a lot of
19 background and teaching, and here you're teaching
20 about the use of balloons and stents.
20 about the use of barroons and stends.
21 Do you see that?
21Do you see that?22A. Yes.
21 Do you see that?

3 (Pages 6 - 9)

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Page 10 1 A. I think I outlined it pretty well in my	Page 1 Q. So what is a normal advancement for?
2 report. I'm not sure you want me to add more	2 A. I'm not sure I understand the question. What
3 to that or I guess I'm not quite sure what	3 I said here is that I think I'm describing sort
4 you're asking. I mean, at a high level, they're	4 of a relative comparison. If it's a tighter
5 devices that are implanted into blood vessels to	5 lesion versus one that's not as tight; you may
-	
6 dilate and maintain a dilation of a blockage.	6 have to push harder to get across that lesion.
7 Q. Okay. So does the stent dilate the vessel?	7 Q. Right. But from an engineering standpoint,
8 A. Typically the stents are mounted on a balloon	8 is that something that can be measured, that you
9 catheter, and it's the combination of the stent on	9 can talk about whether a normal advancement force
10 the balloon that's inflated to dilate the lesion.	10 versus a higher advancement force?
11 Q. I think you said the stent is there to	11 A. I think it can be measured. I don't have
12 maintain that dilation; is that correct?	12 those numbers in my head right now.
13 A. Yeah. The stent is something that's left	13 Q. So when you say "higher," do you have any wa
14 behind as an implant in the patient.	14 to quantify this or give me any idea of what
15 Q. And does it have to then basically press out	15 you're talking about in terms of a higher
16 against the artery that it's in, or how much force	16 advancement force?
17 does it have to apply to maintain that dilation?	17 A. Sitting here right now, I can't really
18 A. It's really a function of what how much	18 quantify that, but I think it's I think one
19 resistance the dilated lesion is presenting back	19 could measure that in different types of lesions.
20 onto the stent, so it could be different depending	20 Q. How would you measure it?
21 on the patient's anatomy.	21 A. Again, I mean, I haven't thought about it. I
22 Q. All right. So but the stent is designed	22 don't know exactly how you'd measure it. But, you
23 to withstand whatever it needs to in order to	23 know, I think it would be possible to measure
24 maintain that dilation, right?	24 with a force gauge measure, you know, an
25 A. I would say for the most part, yes.	25 advancement force on the proximal end of the
Page 11	Page
1 Q. If you want to follow along in your	1 device. You could measure a force being applied
2 declaration, you get to paragraph 57 and you're	
<ul> <li>2 declaration, you get to paragraph 57 and you're</li> <li>3 now talking about you say, "Numerous variables</li> </ul>	2 to a lesion if you were doing more of a bench-type
3 now talking about you say, "Numerous variables	<ul><li>2 to a lesion if you were doing more of a bench-type</li><li>3 test. I think there are ways that it could be</li></ul>
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		1	
1	Page 14 what those would be.	1	Page know, the guide catheter itself, the construction
	Q. You don't know what the minimum force would		details, how far it's being deep-seated.
	be required to cause it to back out, right?	$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	Those are some of the variables that
	A. Well, again, it would depend on other factors	_	could affect that if you were to deep seat a guide
	too. It could depend on the guide catheter		catheter.
	itself, the anatomy. But for a given scenario, I	-	Q. All right. And how about another thing that
	think that's something that could be measured.		you discuss in here, the mother and child
	Q. Okay. And how could it depend on the guide		arrangement for addressing backup support like the
	catheter?		Shockey patent you discuss. In the mother and
	A. Shape, size, construction. Those things can		child context, do you have any idea how much extr
11			force can be applied?
	could back up back out. Sorry.		A. I don't have a specific number for that.
12			And, again, I think it would depend on some
	How could that impact how much a reactive force is		variables of what that mother and child
	required to have it back out?		arrangement is.
	A. Some things I think would be the size of the		Q. Again, in the mother and child context, you
			-
17 18	the aorta relative to the to the coronary		could measure how much extra backup support tha giving, but that's not something you've done for
	•		this case, right?
19 20			A. I think it is something that could be
20 21	besides the structure or whatever of the guide		measured. I have not specifically done that.
	catheter and the patient anatomy that can affect		Q. Okay. Paragraph 61, your again, here
	the amount of reactive force required for the		you're talking about teaching mother and child was
	guide catheter to back out?		known prior to May 2006 to provide backup suppo
	A. There may be. I can't think of any right		is that right?
25		23	-
1	Page 15	1	Page
	now.		A. Correct.
	Q. Okay. And, again, this reactive force, this		Q. And, in fact, mother and child was known to
	is something that you could measure, but you		r i i i i i i i i i i i i i i i i i i i
	haven't done that for this case; is that right?		decade or more prior to May 2006, right?
	A. Not specifically. Correct.		A. I don't know how long it was known.
	Q. Let's talk about some of the other things	0	Q. You don't know when the earliest mother and child catheters were?
	that were done to address this backout problem.	7	cnud cameters were /
0			
8	1 0	8	A. Sitting here right now, I don't recall that.
9	terms of preventing backout?	8 9	<ul><li>A. Sitting here right now, I don't recall that.</li><li>Q. In paragraph 62 of your declaration, you say,</li></ul>
9 10	terms of preventing backout? A. I believe that it works to some extent. It's	8 9 10	<ul><li>A. Sitting here right now, I don't recall that.</li><li>Q. In paragraph 62 of your declaration, you say, "The Shockey patent was 1991."</li></ul>
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