	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 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	
8 800 LaSalle Avenue, Suite 2800	8 EXHIBITS MARKED: PAGE: 9 EXHIBIT 1122 Photos of GuideLiner Versions
9 Minneapolis, Minnesota 55401	9 EXHIBIT 1122 Photos of GuideLiner Versions 10 1, 2 and 3
10 (612) 349-8500 11 cmorton@robinskaplan.com	
*	11 EXHIBIT 1123 U.S. Patent 7,422,579 146
2 cpinahs@robinskaplan.com 3	<ul><li>12</li><li>13 (Original exhibits attached to original transcript;</li></ul>
	14 copies provided to counsel.)
4 ON BEHALF OF THE PATENT OWNER:	14 copies provided to counsel.)
<ul> <li>Mr. Joseph W. Winkels, Esq.</li> <li>Mr. J. Derek Vandenburgh, Esq.</li> </ul>	15 16 EXHIBITS PREVIOUSLY MARKED AND REFERRED TO:
	16         EXHIBIT SPREVIOUSE 1         MARKED AND REPERRED TO:           17         EXHIBIT 1008         U.S. Patent 7,604,612
<ol> <li>CARLSON, CASPERS, VANDENBURGH &amp; LINDQUIST</li> <li>225 South Sixth Street, Suite 4200</li> </ol>	17         EXHIBIT 1008         U.S. Patent 7,004,012
1 ,	<ol> <li>EXHIBIT 1035 U.S. Patent Application</li> <li>Publication US2004/0010280 99</li> </ol>
	21 EXHIBIT 2138 Declaration of Peter Keith
<ul> <li>jwinkels@carlsoncaspers.com</li> <li>dvandenburgh@carlsoncaspers.com</li> </ul>	21 EARIBIT 2138 Declaration of Peter Kenn 22 in IPR2020-00127
3	22 III IF K2020-00127 85
	23
24 25 (APPEARANCES continued on next page)	24
Page 3	Page
1 APPEARANCES (Continued)	1 PROCEEDINGS
2 3 ON BEHALF OF PATENT OWNER:	2 THE VIDEOGRAPHER: Good morning. We
	3 are going on the record at 9:00 a.m. CST, on 4 Transfer Neurophys 24th 2020 Andia and aide
<ul><li>4 Mr. Kenneth E. Levitt, Esq.</li><li>5 THE DORSEY FIRM</li></ul>	4 Tuesday, November 24th, 2020. Audio and video
<ul><li>5 THE DORSEY FIRM</li><li>6 50 South Sixth Street, Suite 1500</li></ul>	5 recording will continue to take place unless all
<ul> <li>7 Minneapolis, Minnesota 55402</li> </ul>	6 parties agree to go off the record.
1	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,
1	10 filed in the Patent Trial and Appeals Board, case
	11 number IPR2020-00127.
2 ALSO PRESENT BY VIDEOCONFERENCE:	12 The deposition is being held via
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
16	16 Richter, from the firm Veritext Midwest.
.7	17 I am not related to any party in
8	18 this action, nor am I financially interested in
9	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 25	<ul><li>24 state them at the time of your appearance,</li><li>25 beginning with the noticing attorney.</li></ul>
	1. The beginning with the noticing offermore

2 (Pages 2 - 5)

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5 Page 8
1 inspected the devices, does that mean basically
2 you had a version of them and looked at it,
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
Page 9
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 porform?
7 did you perform?
8 A. Again, similar types of flexibility testing
<ul><li>8 A. Again, similar types of flexibility testing</li><li>9 that I did on the other devices.</li></ul>
<ul><li>8 A. Again, similar types of flexibility testing</li><li>9 that I did on the other devices.</li><li>10 Q. All right. Do you have, in your history or</li></ul>
<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> </ul>
<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> </ul>
<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> <li>13 Q. Have you ever worked as an editor of an</li> </ul>
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<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> <li>13 Q. Have you ever worked as an editor of an</li> <li>14 engineering journal?</li> <li>15 A. No.</li> </ul>
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<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> <li>13 Q. Have you ever worked as an editor of an</li> <li>14 engineering journal?</li> <li>15 A. No.</li> <li>16 Q. All right. Let's jump ahead.</li> <li>17 You get into your declaration in,</li> <li>18 say, paragraph 38. You're going through a lot of</li> </ul>
<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> <li>13 Q. Have you ever worked as an editor of an</li> <li>14 engineering journal?</li> <li>15 A. No.</li> <li>16 Q. All right. Let's jump ahead.</li> <li>17 You get into your declaration in,</li> <li>18 say, paragraph 38. You're going through a lot of</li> <li>19 background and teaching, and here you're teaching</li> </ul>
<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> <li>13 Q. Have you ever worked as an editor of an</li> <li>14 engineering journal?</li> <li>15 A. No.</li> <li>16 Q. All right. Let's jump ahead.</li> <li>17 You get into your declaration in,</li> <li>18 say, paragraph 38. You're going through a lot of</li> <li>19 background and teaching, and here you're teaching</li> <li>20 about the use of balloons and stents.</li> </ul>
<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> <li>13 Q. Have you ever worked as an editor of an</li> <li>14 engineering journal?</li> <li>15 A. No.</li> <li>16 Q. All right. Let's jump ahead.</li> <li>17 You get into your declaration in,</li> <li>18 say, paragraph 38. You're going through a lot of</li> <li>19 background and teaching, and here you're teaching</li> <li>20 about the use of balloons and stents.</li> <li>21 Do you see that?</li> </ul>
<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> <li>13 Q. Have you ever worked as an editor of an</li> <li>14 engineering journal?</li> <li>15 A. No.</li> <li>16 Q. All right. Let's jump ahead.</li> <li>17 You get into your declaration in,</li> <li>18 say, paragraph 38. You're going through a lot of</li> <li>19 background and teaching, and here you're teaching</li> <li>20 about the use of balloons and stents.</li> <li>21 Do you see that?</li> <li>22 A. Yes.</li> </ul>
<ul> <li>8 A. Again, similar types of flexibility testing</li> <li>9 that I did on the other devices.</li> <li>10 Q. All right. Do you have, in your history or</li> <li>11 experience, any experience as a librarian?</li> <li>12 A. No.</li> <li>13 Q. Have you ever worked as an editor of an</li> <li>14 engineering journal?</li> <li>15 A. No.</li> <li>16 Q. All right. Let's jump ahead.</li> <li>17 You get into your declaration in,</li> <li>18 say, paragraph 38. You're going through a lot of</li> <li>19 background and teaching, and here you're teaching</li> <li>20 about the use of balloons and stents.</li> <li>21 Do you see that?</li> </ul>
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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	2 to a lesion if you were doing more of a bench-type
3 now talking about you say, "Numerous variables	3 test. I think there are ways that it could be
4 can impact how easy or difficult it is to treat a	
· ·	4 done, but, again, I haven't given that a whole lot
5 particular patient lesion."	5 of thought.
6 Do you see that?	6 Q. Have you ever done that in your long history
7 A. Yes.	7 of working on catheters and catheter design?
8 Q. Okay. Can you list all the variables you can	8 A. I may have. I don't recall specifically.
9 think of, please?	9 Q. And you talk about here the reactive force
10 A. I again, at a high level, I think the	10 for the end, right, and it could cause a guide
11 variables that can impact that are the nature of	11 catheter to back out.
12 the lesion itself, the tightness of the lesion.	12 Do you see that?
13 Is it heavily calcified? Where is it located? Is	13 A. Yes.
14 it in tortuous anatomy? Is there tortuous anatomy	14 Q. So for that reactive force, again, is there
15 leading up to it? Is it, you know, in a vein	15 any way to quantify that for me or tell me how
16 graft versus in a native coronary artery?	16 much force will be required to make the guide
17 Those are some of the variables that	17 catheter back out?
18 I can think of sitting here right now.	18 A. Again, I mean, I think it would depend on
19 Q. All right. Let's go down on one of them.	19 different factors, but for a given situation, I
20 Let's go with a tighter lesion. And I know you	20 think that is something that could possibly be
21 talk about that here, and you say, "tighter lesion	21 measured. I wouldn't know exactly how to do that
22 will require a higher advancement force."	22 just off the top of my head.
23 Do you see that about halfway down	23 Q. Okay. And so is there sort of a range of
5	24 forces that might cause it to back out?
24 that paragraph? 25 A. Yes.	<ul><li>24 forces that might cause it to back out?</li><li>25 A. There probably is, but I don't know exactly</li></ul>

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	Page 14		Page
1	what those would be.	1	know, the guide catheter itself, the construction
2	Q. You don't know what the minimum force would	2	details, how far it's being deep-seated.
3	be required to cause it to back out, right?	3	Those are some of the variables that
4	A. Well, again, it would depend on other factors	4	could affect that if you were to deep seat a guide
	too. It could depend on the guide catheter	5	catheter.
6	itself, the anatomy. But for a given scenario, I	6	Q. All right. And how about another thing that
7	think that's something that could be measured.	7	you discuss in here, the mother and child
	Q. Okay. And how could it depend on the guide	8	arrangement for addressing backup support like the
9	catheter?	9	Shockey patent you discuss. In the mother and
10	A. Shape, size, construction. Those things can	10	child context, do you have any idea how much extr
11	influence how much how easily a guide catheter	11	force can be applied?
12	could back up back out. Sorry.	12	A. I don't have a specific number for that.
13	Q. Okay. And how about the anatomy you said?	13	And, again, I think it would depend on some
14	How could that impact how much a reactive force is	14	variables of what that mother and child
15	required to have it back out?	15	arrangement is.
	A. Some things I think would be the size of the	16	Q. Again, in the mother and child context, you
	-		could measure how much extra backup support tha
	the aorta relative to the to the coronary		giving, but that's not something you've done for
	artery. Those are a couple examples.		this case, right?
20	Q. Okay. And are there any other factors		A. I think it is something that could be
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?
_	Page 15		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	3	provide increased backup support for, like, a
4	haven't done that for this case, is that right'		
-	haven't done that for this case; is that right?	4	decade or more prior to May 2006, right?
	A. Not specifically. Correct.	4 5	A. I don't know how long it was known.
6	<ul><li>A. Not specifically. Correct.</li><li>Q. Let's talk about some of the other things</li></ul>	4 5 6	<ul><li>A. I don't know how long it was known.</li><li>Q. You don't know when the earliest mother and</li></ul>
6 7	<ul><li>A. Not specifically. Correct.</li><li>Q. Let's talk about some of the other things that were done to address this backout problem.</li></ul>	4 5 6 7	<ul><li>A. I don't know how long it was known.</li><li>Q. You don't know when the earliest mother and child catheters were?</li></ul>
6 7 8	<ul><li>A. Not specifically. Correct.</li><li>Q. Let's talk about some of the other things that were done to address this backout problem. How well does deep-seating work in</li></ul>	4 5 6 7 8	<ul><li>A. I don't know how long it was known.</li><li>Q. You don't know when the earliest mother and child catheters were?</li><li>A. Sitting here right now, I don't recall that.</li></ul>
6 7 8 9	<ul> <li>A. Not specifically. Correct.</li> <li>Q. Let's talk about some of the other things that were done to address this backout problem. How well does deep-seating work in terms of preventing backout?</li> </ul>	4 5 6 7 8 9	<ul><li>A. I don't know how long it was known.</li><li>Q. You don't know when the earliest mother and child catheters were?</li><li>A. Sitting here right now, I don't recall that.</li><li>Q. In paragraph 62 of your declaration, you say,</li></ul>
6 7 8 9 10	<ul> <li>A. Not specifically. Correct.</li> <li>Q. Let's talk about some of the other things that were done to address this backout problem. How well does deep-seating work in terms of preventing backout?</li> <li>A. I believe that it works to some extent. It's</li> </ul>	4 5 6 7 8 9	<ul><li>A. I don't know how long it was known.</li><li>Q. You don't know when the earliest mother and child catheters were?</li><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>
6 7 8 9 10 11	<ul> <li>A. Not specifically. Correct.</li> <li>Q. Let's talk about some of the other things that were done to address this backout problem. How well does deep-seating work in terms of preventing backout?</li> <li>A. I believe that it works to some extent. It's just a very risky thing to consider, so it's</li> </ul>	4 5 6 7 8 9 10 11	<ul> <li>A. I don't know how long it was known.</li> <li>Q. You don't know when the earliest mother and child catheters were?</li> <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." Does that refresh your recollection</li> </ul>
6 7 8 9 10 11 12	<ul> <li>A. Not specifically. Correct.</li> <li>Q. Let's talk about some of the other things that were done to address this backout problem. How well does deep-seating work in terms of preventing backout?</li> <li>A. I believe that it works to some extent. It's just a very risky thing to consider, so it's it's I think it tends to be rarely employed</li> </ul>	4 5 6 7 8 9 10 11 12	<ul> <li>A. I don't know how long it was known.</li> <li>Q. You don't know when the earliest mother and child catheters were?</li> <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." Does that refresh your recollection that it's been more than a decade of mother and</li> </ul>
6 7 8 9 10 11 12	<ul> <li>A. Not specifically. Correct.</li> <li>Q. Let's talk about some of the other things that were done to address this backout problem. How well does deep-seating work in terms of preventing backout?</li> <li>A. I believe that it works to some extent. It's just a very risky thing to consider, so it's</li> </ul>	4 5 6 7 8 9 10 11 12 13	<ul> <li>A. I don't know how long it was known.</li> <li>Q. You don't know when the earliest mother and child catheters were?</li> <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." Does that refresh your recollection that it's been more than a decade of mother and child known to provide backup support prior to</li> </ul>
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