	Page 1	Page 3
1 2 3 4 5	UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD GARMIN INTERNATIONAL, INC.;	1INDEX TO EXHIBITS2EXHIBITDESCRIPTIONPAGE3Exhibit 1009Patent 5,976,08374to Richardson, et al.5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	and GARMIN USA, INC., Case No. IPR2018-00564 IPR2018-00565 Petitioners, vs. U.S. Patent No. 6,059,576 LOGANTREE, LP, Patent Owner. DEPOSITION OF VIJAY K. MADISETTI, Ph.D. February 7, 2019 9:47 a.m. Building 13 2900 Chamblee Tucker Road Atlanta, Georgia 30341	6 7 (Original Exhibits A, B, 2001, 1001, 1004, 1006, 8 1007, 1008, and 1009 were attached to the original 9 transcript.) 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
	Page 2	Page 4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	INDEX OF EXAMINATIONS WITNESS: VIJAY K. MADISETTI, Ph.D. EXAMINATION Page By Ms. Redmond 7 INDEX TO EXHIBITS EXHIBIT DESCRIPTION PAGE Exhibit A Patent Owner's Response 7 (564 case) Exhibit 2001 Declaration of Vijay K. 7 Madisetti, Ph.D. (564 case) Exhibit 2001 Declaration of Vijay K. 7 Madisetti, Ph.D. (565 case) Exhibit 2001 Declaration of Vijay K. 7 Madisetti, Ph.D. (565 case) Exhibit 1001 Patent 6,059,576 to Brann 7 Exhibit 1004 Patent 5,978,972 to 7 Stewart, et al. Exhibit 1006 Patent 5,546,609 7 to Rush, III Exhibit 1007 Patent 5,197,489 7 to Conlan Exhibit 1008 Patent 5,474,083 7 to Church, et al.	1       UNITED STATES PATENT AND TRADEMARK OFFICE         2       BEFORE THE PATENT TRIAL AND APPEAL BOARD         3       GARMIN INTERNATIONAL, INC.;         4       and GARMIN USA, INC., Case No. IPR2018-00564         5       IPR2018-00565         Petitioners,         6       vs.         9       U.S. Patent No. 6,059,576         7       LOGANTREE, LP,         8       Patent Owner.         9

1 (Pages 1 to 4)

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	Page 5	Page 7
1	APPEARANCES OF COUNSEL	1 (Exhibits Numbers 2001, 1001, 1004,
2		2 1006, 1007, 1008, 1009, 2001, A, and B were
3	On behalf of the Petitioners:	3 marked for identification.)
4	(present via speakerphone)	4 Deposition of Vijay K. Madisetti, Ph.D.
5	MEGAN J. REDMOND, Esquire	5 February 7, 2019
6	Erise IP PA	6 VIJAY K. MADISETTI, Ph.D.,
7	7015 College Boulevard	7 having been produced and first duly sworn as a
8	Suite 700	8 witness, testified as follows:
9	Overland Park, Kansas 66211	9 EXAMINATION
10	Tel: (913) 777-5600	10 BY MS. REDMOND:
11	Fax: (913) 777-5601	11 Q Dr. Madisetti, I'd like to start by
12	megan.redmond@eriseip.com	12 having you state your name and address for the
13	-	13 <b>record.</b>
14		14 A Yes. Good morning. My name is Vijay
15	On behalf of the Patent Owner:	15 K. Madisetti. My address is 56 Creekside Park Drive
16	M. COLLIN QUIGLEY, Esquire	16 in Johns Creek, Georgia 30022.
17	McCathern, PLLC	17 Q Great. And, Dr. Madisetti, you have
18	3710 Rawlins Street	18 been deposed before; correct?
19	Suite 1600	19 A Yes.
20	Dallas, Texas 75219	20   Q   So you're generally familiar with the
21	Tel: (214) 741-2662	21 rules of the deposition; is that correct?
22	Fax: (214) 741-4717	22 A Yes.
23	E-mail: Cquigley@mccathernlaw.com	23 Q Just a reminder, I will ask some good
24		24 questions, and I may ask some poor questions today.
25		25 Will you please ask me to clarify if my question is
	Page 6	Page 8
1	Page 6 CHRISTOPHER M. BARKLEY, Esquire	Page 8
1 2	-	
	CHRISTOPHER M. BARKLEY, Esquire	1 unclear?
2	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC	1 unclear? 2 A I will.
2 3	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC 523 West Sixth Street	1       unclear?         2       A       I will.         3       Q       Great. And if you have answered my
2 3 4	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC 523 West Sixth Street Suite 830	1       unclear?         2       A       I will.         3       Q       Great. And if you have answered my         4       question, it's safe to assume that you have
2 3 4 5	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC 523 West Sixth Street Suite 830 Los Angeles, California 90014	<ol> <li>unclear?</li> <li>A I will.</li> <li>Q Great. And if you have answered my</li> <li>question, it's safe to assume that you have</li> <li>understood my question. Is that fair as well?</li> </ol>
2 3 4 5 6	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC 523 West Sixth Street Suite 830 Los Angeles, California 90014 Tel: (213) 225-6150	<ol> <li>unclear?</li> <li>A I will.</li> <li>Q Great. And if you have answered my</li> <li>question, it's safe to assume that you have</li> <li>understood my question. Is that fair as well?</li> <li>A Yes, it is.</li> </ol>
2 3 4 5 6 7 8 9	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC 523 West Sixth Street Suite 830 Los Angeles, California 90014 Tel: (213) 225-6150 Fax: (213) 225-6151	<ol> <li>unclear?</li> <li>A I will.</li> <li>Q Great. And if you have answered my</li> <li>question, it's safe to assume that you have</li> <li>understood my question. Is that fair as well?</li> <li>A Yes, it is.</li> <li>Q Great. And is there any medical reason</li> </ol>
2 3 4 5 6 7 8 9 10	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC 523 West Sixth Street Suite 830 Los Angeles, California 90014 Tel: (213) 225-6150 Fax: (213) 225-6151 Cbarkley@McCathernlaw.com Also Present: (via telephone)	1       unclear?         2       A       I will.         3       Q       Great. And if you have answered my         4       question, it's safe to assume that you have         5       understood my question. Is that fair as well?         6       A       Yes, it is.         7       Q       Great. And is there any medical reason         8       that would prevent you from giving truthful         9       testimony here today?         10       A       No.
2 3 4 5 6 7 8 9 10 11	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC 523 West Sixth Street Suite 830 Los Angeles, California 90014 Tel: (213) 225-6150 Fax: (213) 225-6151 Cbarkley@McCathernlaw.com	1       unclear?         2       A       I will.         3       Q       Great. And if you have answered my         4       question, it's safe to assume that you have         5       understood my question. Is that fair as well?         6       A       Yes, it is.         7       Q       Great. And is there any medical reason         8       that would prevent you from giving truthful         9       testimony here today?         10       A       No.         11       Q       Great. About how many times have you
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2 3 4 5 6 7 8 9 10 11 12 13 14	CHRISTOPHER M. BARKLEY, Esquire McCathern, PLLC 523 West Sixth Street Suite 830 Los Angeles, California 90014 Tel: (213) 225-6150 Fax: (213) 225-6151 Cbarkley@McCathernlaw.com Also Present: (via telephone) Mr. Sam Korte	<ol> <li>unclear?</li> <li>A I will.</li> <li>Q Great. And if you have answered my</li> <li>question, it's safe to assume that you have</li> <li>understood my question. Is that fair as well?</li> <li>A Yes, it is.</li> <li>Q Great. And is there any medical reason</li> <li>that would prevent you from giving truthful</li> <li>testimony here today?</li> <li>A No.</li> <li>Q Great. About how many times have you</li> <li>served as an expert witness?</li> <li>A Quite a few times. Probably around 25</li> <li>to 30, maybe more.</li> </ol>
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2 (Pages 5 to 8)

	Page 9	Page 11
1	A Yes. I'm at the Stewart reference,	1 Q No. I'm just asking – I'm just asking
2	Exhibit Number	2 for your general understanding of accelerometers.
3	Q Great.	3 A Outside the context of this IPR, I
4	A 6 (sic).	4 mean, and outside the context of the '576, I would
5	Q If you had - perfect. And if you will	5 say that this would generally be a good description
6	turn to exhibit – or, sorry, figure one of Exhibit	6 of an accelerometer.
7	1004, I would appreciate it.	7 Q And then from the accelerometer there,
8	(A cellular telephone rang.)	8 11, I see the diagram is an arrow pointing to an AD
9	THE WITNESS: One second. Was it	<sup>9</sup> converter on figure one. Do you see that?
10	figure one?	10 A I can see a block 46 in figure one.
11	BY MS. REDMOND:	11 That is titled A-to-D converter.
12	Q Figure one, please, of Exhibit 1004,	12 Q Right. And what is a purpose here of
13	which is the Stewart reference.	13 the AD converter?
14	A Yes. I'm at figure one.	14 A As described in columns eight column
15	Q Trying to talk through this figure with	15 eight of the specification of the 972 patent, which
16	you this morning. I see we have a – do you see	16 is the Stewart patent, the A-to-D converter would
17	Number 11 in the upper left-hand corner?	17 would receive as a part of its input channels, the
18	A Yes. There is a Number 11 on the upper	18 outputs of the accelerometer and provide, for
19	left corner.	19 example, a 12-bit representation as described
20	Q And what is Number 11? If it's helpful	20 Q Right.
21	to refresh your recollection, you can go to column	21 A in columns eight, 40 through 50.
22	six, line 13.	22 Q Right. So is the accelerometer sending
23	A Yes. I'm at column six. I was going	analog signals to the AD converter, 46?
24	through those sections. There are	A The accelerometer is receiving analog
25	Q Yes.	25 signals from the the A-to-D converter is
	Page 10	Page 12
	Page 10	
1	A three accelerometers. There are	1 receiving analog signals from the accelerometer,
2	A three accelerometers. There are three accelerometers numbered ten through 12.	<ol> <li>receiving analog signals from the accelerometer,</li> <li>yes.</li> </ol>
2 3	<ul> <li>A three accelerometers. There are</li> <li>three accelerometers numbered ten through 12.</li> <li>Q Great. So turning back to figure one</li> </ul>	<ol> <li>receiving analog signals from the accelerometer,</li> <li>yes.</li> <li>Q Thank you. Thank you for that. And –</li> </ol>
2 3 4	<ul> <li>A three accelerometers. There are</li> <li>three accelerometers numbered ten through 12.</li> <li>Q Great. So turning back to figure one</li> <li>for me, please, you'd agree with me that 11 is an</li> </ul>	<ol> <li>receiving analog signals from the accelerometer,</li> <li>yes.</li> <li>Q Thank you. Thank you for that. And –</li> <li>A It can also</li> </ol>
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2 3 4 5 6	<ul> <li>A three accelerometers. There are three accelerometers numbered ten through 12.</li> <li>Q Great. So turning back to figure one for me, please, you'd agree with me that 11 is an accelerometer?</li> <li>A Yes.</li> </ul>	<ol> <li>receiving analog signals from the accelerometer,</li> <li>yes.</li> <li>Q Thank you. Thank you for that. And –</li> <li>A It can also</li> <li>Q – as part of that process – oh, go</li> <li>ahead.</li> </ol>
2 3 4 5 6 7	<ul> <li>A three accelerometers. There are three accelerometers numbered ten through 12.</li> <li>Q Great. So turning back to figure one for me, please, you'd agree with me that 11 is an accelerometer?</li> <li>A Yes.</li> <li>Q And then that accelerometer, what is it</li> </ul>	<ol> <li>receiving analog signals from the accelerometer,</li> <li>yes.</li> <li>Q Thank you. Thank you for that. And –</li> <li>A It can also</li> <li>Q – as part of that process – oh, go</li> <li>ahead.</li> <li>A Column eight also describes, you could</li> </ol>
2 3 4 5 6 7 8	<ul> <li>A three accelerometers. There are three accelerometers numbered ten through 12.</li> <li>Q Great. So turning back to figure one for me, please, you'd agree with me that 11 is an accelerometer?</li> <li>A Yes.</li> <li>Q And then that accelerometer, what is it doing there? What is the purpose of the</li> </ul>	<ol> <li>receiving analog signals from the accelerometer,</li> <li>yes.</li> <li>Q Thank you. Thank you for that. And –</li> <li>A It can also</li> <li>Q - as part of that process - oh, go</li> <li>ahead.</li> <li>A Column eight also describes, you could</li> <li>receive digital inputs as well.</li> </ol>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A three accelerometers. There are three accelerometers numbered ten through 12.</li> <li>Q Great. So turning back to figure one for me, please, you'd agree with me that 11 is an accelerometer?</li> <li>A Yes.</li> <li>Q And then that accelerometer, what is it doing there? What is the purpose of the accelerometer here?</li> <li>A I understand the the specification of column six describing the various embodiments with these accelerometers, ten through 12.</li> <li>Q Sure. But generally what functionality what functions is the accelerometer performing in figure one?</li> <li>A I think they're listed in column six with respect to identifying translational, angular, and normal accelerations in column</li> <li>Q Is it - oh, sorry. Finish.</li> <li>A Yes. In column six, lines ten through 12.</li> <li>Q And is this description consistent with</li> </ul>	<ul> <li>receiving analog signals from the accelerometer,</li> <li>yes.</li> <li>Q Thank you. Thank you for that. And –</li> <li>A It can also</li> <li>Q - as part of that process – oh, go</li> <li>ahead.</li> <li>A Column eight also describes, you could</li> <li>receive digital inputs as well.</li> <li>Q But here at least in figure one we have</li> <li>an AD converter, so those would likely be analog</li> <li>signals coming across; correct?</li> <li>A As for column eight, lines 50 to 58, I</li> <li>believe the embodiment also cover the case where</li> <li>digital inputs may be received.</li> <li>Q Sure. I guess my question was specific</li> <li>with respect to figure one. Here, figure one, why</li> <li>would you have an A-to-D converter if it was already</li> <li>in digital?</li> <li>A Again, you could have different types</li> <li>of formats and different types of conversions that</li> <li>the A-to-D converters could do.</li> <li>Q And I don't see any storage that occurs</li> </ul>

3 (Pages 9 to 12)

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	Page 13		Page 7
1	block diagram, and it is not, I believe, intended to	1	disclosed in that paragraph, is there not?
2	be a detailed schematic. It is possible that this	2	A Yes. There is a disclosure in column
3	data could be stored. The it is not unusual for	3	eight, lines 45 through 50.
4	data from sensors to be collected, stored,	4	Q And did you go and try to determine any
5	processed, and forwarded.	5	information about the Max 188 disclosed in that
6	So, for example, in column ten in	6	paragraph?
7	column ten and other locations there are several	7	A I'm familiar with similar A-to-D
8	different embodiments of different types of A-to-D	8	converters, and I've used several over the past two
9	conversion as well in addition to those in seven and	9	decades. The type of converters that include these
10	eight. So one of ordinary skill in the art would	10	multiple channels that have various resolution in
11	would view this as a high-level description that may	11	terms of bits they use different types of sample
12	include local storage as well.	12	and hold circuitry do include local storage in
13	Q Sure. I guess my question is, sticking	13	terms of sampling, in terms of conversion to the
14	with figure one here, is there any storage between	14	right number of bits through successive
15	the accelerometer and the A-to-D converter? Is	15	approximation of a device. So I'm familiar with the
16	there any storage step?	16	type of A-to-D converters that are disclosed.
17	A My understanding is that reading the	17	Q My question is sure. I'm
18	description in column eight, specifically with	18	specifically asking about the Max 188 disclosed. As
19	respect to the sample and hold feature delineated in	19	of 1997 are you familiar with the functionality of
20	lines 45 through 50, it is possible that there is	20	that Max 188 disclosed here?
21	some local storage that could include counters and	21	A First of all, the Max 188 is an example
22	other hold circuitry.	22	here, and it discloses a number of multi-channel
23	Q Specifically with respect to figure	23	A-to-D converters. In my experience I've not
24	one, let me ask the question again. Is there any	24	I've looked at similar ones, but I've not in the
25	storage depicted on figure one between step 11, the	25	context of this particular case I have not
	Page 14		Page
1	Page 14 accelerometer, and the AD converter, 46?	1	Page specifically looked up the data sheet of the Max 188
1 2	-	1 2	-
	accelerometer, and the AD converter, 46?	1	specifically looked up the data sheet of the Max 188
2	accelerometer, and the AD converter, 46? A As I said, figure one is a very	2	specifically looked up the data sheet of the Max 188 in this matter. But I'm I'm providing you an
2 3	accelerometer, and the AD converter, 46? A As I said, figure one is a very high-level description. There is no explicit	2 3	specifically looked up the data sheet of the Max 188 in this matter. But I'm I'm providing you an answer based on my past experience with similar, if
2 3 4	accelerometer, and the AD converter, 46? A As I said, figure one is a very high-level description. There is no explicit identification of specific functionality of each of	2 3 4	specifically looked up the data sheet of the Max 188 in this matter. But I'm I'm providing you an answer based on my past experience with similar, if not the same, type of converter.
2 3 4 5	accelerometer, and the AD converter, 46? A As I said, figure one is a very high-level description. There is no explicit identification of specific functionality of each of these blocks. It is possible that block 46 may have	2 3 4 5	specifically looked up the data sheet of the Max 188 in this matter. But I'm I'm providing you an answer based on my past experience with similar, if not the same, type of converter. Q Obviously Stewart discloses a are
2 3 4 5 6	accelerometer, and the AD converter, 46? A As I said, figure one is a very high-level description. There is no explicit identification of specific functionality of each of these blocks. It is possible that block 46 may have access, for example, to block 48. It is possible	2 3 4 5 6	specifically looked up the data sheet of the Max 188 in this matter. But I'm I'm providing you an answer based on my past experience with similar, if not the same, type of converter. Q Obviously Stewart discloses a are you familiar with the HAT system? Is that right?
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4 (Pages 13 to 16)

	Page 17		Page 19
1	A Yes. It is contemplated and envisioned	1	Q You don't understand that – I believe
2	that the invention, though specifically designed for	2	Stewart does talk about illegal sparring moves in
3	the head, could in general monitor monitor other	3	football. Correct?
4	body parts.	4	A Where do you see that?
5	Q And is the head a body part, in your	5	Q You don't recall that one way or
6	opinion?	6	another from your review of Stewart?
7	A Yes.	7	A I mean, as I said, I mean, Stewart has
8	Q But you'd agree with me, for example, a	8	a lot of disclosures. I mean, could you be more
9	golf club would not be a body part; correct?	9	specific?
10	A A golf club is not a I don't believe	10	Q No. I'm just asking you generally
11	it's a it's a body part.	11	about your understanding of Stewart. So, for
12	Q And one of the goals of Stewart is, it	12	example, Stewart tries to let the sportsman move how
13	was designed to not inhibit or impact the ability of	13	they're going to move in their respective sport and
14	a user to perform a sport; correct?	14	the invention itself not inhibit that movement. Do
15	A Again, could you refer me to the	15	you agree with that?
16	section that you're referring to?	16	A I mean, again, I would say that we
17	Q Are you generally familiar with the	17	should refer to the description that in column
18	contents in the disclosures of Stewart in connection	18	six, 25 through 29, in Stewart's own words. I would
19	with your opinions?	19	agree that it would allow the sports person to
20	A Yes, I am. But since it is a very	20	perform the sport without hindering, inhibiting, or
21	precise question, if you have a particular section	21	otherwise affecting. I don't see any disclosure
22	that you are trying to get me to comment on, I'll be	22	that it I don't see a disclosure of Stewart with
23	glad to do that.	23	respect to illegal moves, unless you can
24	Q So six, line 27.	24	Q Sure.
25	A Yes. I'm looking at column six, lines	25	A you can point something to me.
	Page 18		Page 20
1	27.	1	Q I'm just asking for your general
2	Q Yes. And actually I believe it starts	2	understanding of Stewart in connection with your
3	closer to 25.	3	opinions here. So with respect to –
4	A Okay.	4	A I don't see
5	Q "In this way the HAT is comfortable	5	Q Stewart
6	enough for the sports person to wear in relevant	6	A Yes. I don't see such
7	everyday sports activities without hindering,	7	Q Go ahead.
8	inhibiting, or otherwise affecting the ability of	8	A I don't see the explicit connection
9	the user to perform a sport"; correct?	9	here.
10	A Yes. That is what the specification	10	Q Understood. And with respect to
11	confirms in column six, lines 25 through 29.	11	Stewart, it's trying to not restrain any movement;
12	Q And that is consistent with your	12	correct?
13	understanding of Stewart: That it is trying to let	13	A My understanding is that it does not
14	the sportsman play the sport without any inhibiting	14	hinder, inhibit, or otherwise affect the ability of
15	based on the Stewart invention; correct?	15	the user to perform the sport. That's how I would
16	A Yes. That is consistent with this	16	characterize in Stewart's own words.
17	portion of the specification, that it's comfortable	17	Q So you don't have an opinion about
18	enough without hindering, inhibiting, or otherwise	18	whether Stewart restrains any movement?
19	affecting the ability of the user to perform the	19	A I mean, you're using certain claim
	sport.	20	language from the '576, which is causing, I believe,
20			the confusion. Stewart in his own words describes
20 21	Q Right. So, for example, if someone	21	the confusion. Stewart in his own words describes
	Q Right. So, for example, if someone wants to do an illegal sparring move in football,	21	in column six that everyday sports can be are not
21		1	
21 22	wants to do an illegal sparring move in football,	22	in column six that everyday sports can be are not

5 (Pages 17 to 20)

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