6/27/2018 Page 1 (1)

1	UNITED STATES PATENT AND TRADEMARK OFFICE
2	BEFORE THE PATENT TRIAL AND APPEAL BOARD
3	
4	Case IPR2017-02023
5	Patent 6,434,212
6	TOMTOM, INC., and TOMTOM)
7	INTERNATIONAL, B.V.,)
8	Petitioners,)
9	vs.)
10	BLACKBIRD TECH LLC, d/b/a)
11	BLACKBIRD TECHNOLOGIES,)
12	Patent Owner.
13	
14	
15	DEPOSITION OF THOMAS P. BLACKADAR
16	WEDNESDAY - JUNE 27, 2018
17	9:25 A.M 2:22 P.M.
18	
19	
20	PEPPER HAMILTON LLP
21	125 HIGH STREET
22	BOSTON, MASSACHUSETTS
23	
24	Reported by: Dawn Mack-Boaden, RPR
25	

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Thomas P. Blackadar

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	Page 2		Page 4	
1	APPEARANCES	1	P-R-O-C-E-E-D-I-N-G-S	
2		2		
3	ON BEHALF OF THE PATENT OWNER,	3	THOMAS P. BLACKADAR, a witness first	
4	BLACKBIRD TECH LLC, d/b/a BLACKBIRD TECHNOLOGIES:	4	having been satisfactorily identified by the	
5	Walter D. Davis, Jr., Esquire	5	production of his Massachusetts driver's	
6	Davidson Berquist Jackson & Gowdey LLP	6	license, was sworn and testified as follows:	
7	8300 Greensboro Drive, Suite 500	7	neense, was sworn and testified as follows.	
8	McLean, Virginia 22102	8	DIDECT EVAMINATION	
9	(571) 765-7709	-	DIRECT EXAMINATION	
		9	BY MR. DAVIS:	
10	wdavis@dbjg.com	10	Q. Good morning, Mr. Blackadar.	
11		11	A. Good morning.	
12	ON BEHALF OF THE PETITIONERS, TOMTOM, INC., and	12	Q. So we met each other earlier. I'm Walter	
13	TOMTOM INTERNATIONAL, B.V.:	13	Davis. It's nice to meet you.	
14	Dipu A. Doshi, Esquire	14	Do you understand that you're here to	
15	BLANK ROME LLP	15	provide testimony related to a particular an IPR?	
16	1825 Eye Street NW	16	A. Yes.	
17	Washington, D.C. 20006	17	Q. And that's IPR 2017-02023. That's the	
18	(202) 420-2604	18	number.	
19	ddoshi@blankrome.com	19	Could you state your name for the record.	
20		20	A. Thomas Blackadar.	
21		21	Q. And, Mr. Blackadar, have you ever had your	
22		22	deposition taken before?	
23		23	A. I have.	
24		24	Q. How many times?	
25		25	A. Twice.	
	Page 3		Page 5	
1	ç	1	0	
	INDEX EXAMINATION DAGE	2	Q. Twice. Okay. What were those two times?	
2	EXAMINATION PAGE		A. One was Nike v. Adidas, and the other one	
3	THOMAS P. BLACKADAR		was Reebok v. FitSense; and that was a contract	
	By Mr. Davis 4		matter, the second one.	
5	By Mr. Doshi 111	5	Q. I'll get to that in a second.	
6		6	So the Nike v. Adidas, what kind of case	
7			was that?	
8	EXHIBIT INDEX	8	A. They were Nike was suing or whatever,	
	NO. DESCRIPTION PAGE		infringement infringement suing, I guess is the	
	1021: Curriculum Vitae 12		word it was back in 2006 on a patent that I	
11			had sold to Nike, and so I was being interviewed	
12			about that.	
13		13	Q. Okay. So you were deposed as a fact	
14		14	witness?	
15		15	A. Uh-huh.	
16		16	Q. And when did you say that was?	
17		17	A. I believe it was 2006.	
18		18	Q. And the Reebok v. FitSense. FitSense:	
19		19	That's your company?	
20		20	A. That was my company. I was CEO.	
21		21	Q. That was your company. And that was	
22		22	that was a contract dispute, you said?	
23		23	A. It was.	
24		24	Q. And when was that deposition?	
25		25	A. I'm going to say it was somewhere right	
	A1.1	· ·	Demonstration	

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Bostor			MA Page 3 (6 - 9)
	Page 6		Page 8
1	around 2000.	1	provide truthful testimony today?
2	Q. Somewhere around 2000?	2	A. There's no reason.
3	A. Yeah.	3	Q. That's the answer I would expect. One
4	Q. Okay. So it's been quite some time	4	thing and I'm not sure you may or may not be
5	since		aware of this, but one of the rules associated with
6	A. Yes.		IPRs in general, but certainly this IPR specifically
7	Q your last deposition, bottom line.		too, is when we take breaks, certainly you're going
8	I'll try to make this as painless as		to be talking with your attorney, but the one thing
9	possible today. Since it has been some time since	9	you can't talk about is the substance of your
10	your last deposition, I want to go over a few of	10	testimony unless there is an outstanding question
	just the basic rules, which I'm sure your attorney	11	about attorney-client privilege, which I doubt there
	did as well.		will be in this case. Does that make sense?
		13	A. Yes.
13	So we're here today; essentially, today's		
14	procedure is going to be a question and answer	14	Q. I have this little
15	session. I'm going to ask you questions, and, you	15	MR. DOSHI: We can agree to that.
16	know, you'll provide me with answers to the best of		BY MR. DAVIS:
17	your ability.	17	Q. There's a little rule here, but I don't
18	One thing when you provide answers, please	18	this is not an exhibit. I just wanted to make sure
19	5	19	that you understood that so that there's no
20	reporter can understand. And that means in two	20	confusion.
21	ways. 1. Certainly speak up; but it also means to	21	A. It was explained to me by my attorney.
22	do more than simply nod or shake your head.	22	Q. Great. I thought it might be.
23	Actually say what what the answer is.	23	Mr. Blackadar, what did you do to prepare
24	And sometimes that gets tough because		for your testimony today?
25	that's not necessarily the way that we talk to each	25	A. I it's been a year since I almost a
	Page 7		Page 9
1	other as people. But we'll get used to it. Maybe	1	year since I did the declaration. And so I last
2	that's unfortunate, but we will.	2	week when we understood that there was a date, I
3	Let's try not to talk over each other.	3	went through and all of the literature, the court
4	Again, sometimes that also gets tough because when	4	documents, everything that's happened since last
5	you have a conversation, that naturally happens; but	5	year, and re-reviewed the patents. And yesterday I
6	let's try to do a good job of not talking over each	6	met with Dipu to just go over and prep for this
7	other. And that goes for me as well.	7	meeting.
8	We can and will we will take several	8	Q. Okay. And when you say you went over the
9	breaks throughout the course of today's session.	9	materials, did that include that includes the
10	Typically, I like to take breaks about every hour.	10	petition?
11	If for some reason you need a break before that,	11	A. Yes.
12	please let me know, and we'll take a break. The one	12	Q. Your declaration?
13	thing that I would ask is if I have an outstanding	13	A. Yes.
14	question, answer it before we actually take a break.	14	Q. The prior art you cited in your
15	Okay?	15	declaration?
16	A. Okay.	16	A. Yes.
17	Q. And we've already try as I may, my	17	Q. Does it include Blackbird's preliminary
18	questions are not always perfectly phrased, and I'm	18	response?
19	sure your attorney will have something to say about	19	A. Yes.
20	that if they are really bad.	20	Q. Does it include the institution's decision
21	That said, if you don't understand a	21	by the board?
22	question of mine, please let me know, and I'll try	22	A. Yes.
23	to reform it in a way that's more understandable.	23	Q. Okay. Are there any other big ticket items
24	Is there any reason, whether that be	24	
25	sickness or otherwise, that you won't be able to	25	Well, if there are any that are relevant,
L		I	

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Thomas P. Blackadar

Boston, MA

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_	Boston, MA Page 4 (10 - 13		
	Page 10		Page 12
1	I'm sure they'll come up in the course of questions.	1	and we can go from there.
2	But it includes at least	2	MR. DAVIS: I'll take copies. I have
3	A. Yes.	3	that will probably be easier. I have copies
4	Q. At least those documents; right?	4	of his CV from another IPR that you did
5	And when you met with your attorney, that	5	earlier in 2017, but if your attorney has
6	was just yesterday?	6	copies that we already know to be accurate,
7	A. Yes.	7	then let's take those.
8	Q. And how long did you meet?	8	MR. DOSHI: Okay. Do you want to mark
9	A. Probably five to six hours.	9	these?
10	Q. Okay. How long in total, including the	10	MR. DAVIS: Yes.
11	meeting yesterday, would you say you spent preparing	11	*****
	for today's deposition?	12	(Exhibit Number 1021 was marked for
13	A. Sixteen hours.	13	identification.)
14	Q. Sixteen hours.	14	*****
15	A. Just shy. Good enough.	15	BY MR. DAVIS:
16	Q. Pretty precise. Okay. Mr. Blackadar, this	16	Q. Mr. Blackadar, you have in front of you
	is for our purposes and the court reporter's	17	what has been marked as Exhibit 1021. Is this your
18	purposes, most of the exhibits already have exhibit	18	current CV?
	numbers from the IPR. So we're not going to need to	19	A. Yes, sir.
	mark most of them. There may be one or two. Okay.	20	Q. Current as of today?
21	So I'm going to hand you a copy of your	21	A. Yes, sir.
22		22	Q. Okay. Looking at your CV, I see you have a
23	MR. DAVIS: I have a copy here if you	23	BS in electrical engineering and computer science
24	want it or you can just use	24	from the University of New Hampshire?
25	MR. DOSHI: I'll just use mine.	25	A. Yes, sir.
-	Page 11		Page 13
1	MR. DAVIS: Okay.	1	Q. With a concentration of biomedical and a
	BY MR. DAVIS: Okay.		minor in history; is that right?
3		3	A. Yes, sir.
4	Q. This is your declaration, correct, Exhibit 1005?	4	A. Fes, sir.Q. Did any of your studies relate to motion
5	A. Yes, it is.		tracking, motion analysis, or inertial sensing?
6		6	A. My physics courses taught me about inertial
	Q. And if we could turn to it's page 4,		navigation. That's it.
8	Paragraph 3.	8	Q. Is that it?
9	in inger	9	A. Yes.
	Q. It's Paragraph 3 of your declaration, which is on page 4. It's page 4 of 87 but then there are	10	A. Tes.Q. How about how about signal analysis?
	is on page 4. It's page 4 of 87, but then there are		
11		11	A. Many courses on signal analysis from
12	A. Okay. Here we go.	12	communications to acoustics, and I took a course on
13	Q. So the first sentence there indicates that	13	signal to noise.
14	5	14	Q. That's a pretty good memory.
	declaration.	15	A. Yeah.
16	A. Yes.	16	Q. I don't think I could recite many of the
17	Q. And I didn't actually see your CV attached	17	courses I took in college.
18	Jee	18	So sorry?
19	But go ahead.	19	A. No. I think that's it.
20	MR. DOSHI: It was inadvertently	20	Q. Okay.
21	admitted from the exhibit.	21	A. Probably a few more that I'm missing.
22	MR. DAVIS: I understand, and I'm not	22	Q. The first looking at your work
23	making a big deal out of it.	23	experience now, the first item that you have going
24	MR. DOSHI: I do have copies if you want	24	all the way back is BBN Computer Company from 1982
25	them now, or you can just ask him questions	25	to '86.
			n

Thomas P. Blackadar

Boston, MA

Boston, MA		MA Page 5 (14 - 17)	
	Page 14		Page 16
1	A. Yes, sir.	1	A. Yes.
2	Q. Where you were a senior a test engineer?	2	Q. In what sense?
3	A. Yes, sir.	3	A. One of the DARPA projects that we did was
4	Q. And did any of your work experience there	4	called the personal inertia navigation system where
5	have to do with motion tracking, motion analysis, or	5	we measured put sensors on the body, in
6	inertial sensing?	6	particular on the leg/ankle, and measured a person's
7	A. At BBN at the computer company as a test	7	location in free space as they walked around a
8	engineer, no.	8	building. We telemetered it back to a map, and we
9	Q. Okay. And how about signal analysis?	9	were able to effectively follow somebody in a
10	A. Yes.	10	building from outside the building and know which
11	Q. In what sense for signal analysis?	11	floor they were on, which stairwell they were in,
12	A. There is a technique in troubleshooting and	12	all by an inertial navigation system.
13	developing test fixtures that one would actually	13	Q. And when was that DARPA project?
14	inject signals into a circuit card and then read	14	A. That was '95 through '97.
15	them back.	15	Q. Okay.
16	It has evolved since 1983/'84 into a fairly	16	A. Dr. Lawrence Sheer was my program manager
17	large industry, and they call it Quinepro.	17	for that well, project engineer my Ph.D. doing
18	Q. And moving moving on up to BBN Advanced	18	
19	Computers from 1986 to 1991, director of operations.	19	Q. Anything else provide during that time
20	What did you do as director of operations	20	period as the advanced network department manager,
21	at BBN Advanced Computers?	21	did anything else provide you with experience in
22	A. I ran the support group, the manufacturing	22	motion tracking, motion analysis, or inertial
23	group, and sustaining engineer group. That was my	23	sensing?
	final position at BBN Advanced Computers.	24	A. Yes. There was a counter sniper program
25	I started off as a just a systems		which was effectively using detecting where a
	Page 15		Page 17
1	engineer and then worked my way on up.	1	shot came from using acoustic waveforms,
2	Q. And did any of that work experience as just		triangulation, and then trajectory.
	for this entry, the director of operations, provide	3	Q. Okay. Other than the DARPA project and the
4	you with experience in motion tracking, motion		sniper project, was there anything else in that time
5	analysis, or inertial sensing?		frame as the advanced networking department manager
6	A. No, sir.	6	that provided you experience in motion tracking,
7	Q. How about signal analysis?		motion analysis, or inertial sensing?
8	A. Just as it pertained to debugging hardware.	8	A. Not that I can recall.
9	Q. Okay. Your next experience at BBN it says	9	Q. Okay.
	BBN Technologies Advanced Networking Department	10	A. I do recall there was one other one. It
11	Manager, '91 to '97.		was a project out of the U.S. ARIEM, the Army
12	And what did you do as the advanced		Research Institute for Environmental Medicine.
13	· · ·	13	We worked for did a project to harden
14	A. I did all of the I was in charge of all		one of Dr. Hoyt's who was the inventor shoe
15	of the manufacturing for all of BBN, sustaining the	15	sensors to measure a person as they were walking;
16	support group, sustaining the products in the field,	16	measuring the contact time on the ground. So we did
17	and running the advanced networking group; and most	17	a hardened sensor for him.
18	of that was consulting work for the Defense Advanced	18	Q. And when was that?
19	Research Projects Agency.	19	A. 1996. Completed it in June.
20	I wrote proposals, architected crafty	20	-
∠ ∪		20	MR. DOSHI: Can you repeat back the
	things that we thought DADDA might wont or -		answer before that one.
21	things that we thought DARPA might want, and		****
21 22	delivered on it.	22	**************************************
21 22 23	delivered on it. Q. And did any of that provide you with	22 23	(The answer was read back as follows:
21 22 23 24	delivered on it.	22	

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