Confidential Business Information - Subject to The Protective Order Igor R. Efimov, Ph.D. - January 31, 2022

UNITED STATES INTERNATIO WASHINGTON	
Before the Honorable	Cameron R. Elliot
Administrative	e Law Judge
)
In the Matter of)
)
CERTAIN WEARABLE ELECTRONIC) Inv. No. 337-TA-1266
DEVICES WITH ECG)
FUNCTIONALITY AND)
COMPONENTS THEREOF)
CONFIDENTIAL BUSI	
SUBJECT TO THE P	ROIEGIIVE ORDER
Video Recorded Vi	rtual Deposition
0	f
IGOR R. EFI	MOV, Ph.D.
The video recorde	ed virtual deposition of
IGOR R. EFIMOV, Ph.D., ca	lled by the Respondent for
examination, pursuant to	Notice, and pursuant to the
Rules of Civil Procedure	for the United States
District Courts, taken st	enographically by Sandra L.
Rocca, CSR, RPR, RMR, CRR	, via Zoom, on the 31st of

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January, 2022, at the hour of 9:00 a.m.

2 (Pages 2 to 5)

			Page 2		Page 4
1	APPEAR	ANCES:		1	VIDEOGRAPHER: We are now on the record for
2				2	the video deposition of Dr. Igor Efimov. The time
3		EMANUEL URQUHART & SULLIVAN, LLP R. ANDREW HOLMES		3	is 9:00 a.m., January 31st, 2022, In the Matter of
4		BRUCE LEE KEVIN GU		4	Certain Wearable Electronic Devices With ECG
5		ifornia Street, 22nd Floor		5	
6	San Fra 415.875	ancisco, California 94111			Functionality and Components Thereof, Investigation
0		lmes@quinnemanuel.com		6	Number 337-TA-1266 being held in the United States
7		ee@quinnemanuel.com u@quinnemaneul.com		7	International Trade Commission, Washington, D.C.
8				8	The court reporter is Sandra Rocca. The
9		peared on behalf of the mplainant;		9	videographer is Gus Phillips and both are
10		. ,		10	representatives of GregoryEdwards Court Reporting.
11		RICHARDSON S. KATHERINE REARDON		11	Will counsel please state their appearances
12	1180 Pe	eachtree Street NE, 21st Floor		12	for the record beginning with the claimant.
13	Atlanta 404.724	a, Georgia 30309		13	MR. HOLMES: Yes, this is Andrew Holmes on
		on@fr.com		14	behalf of the claimant AliveCor. I'm with the law
14	anr	peared on behalf of the		15	firm Quinn Emanuel and with me on the line are my
15		spondent.		16	colleagues Bruce Lee and Kevin Gu who will be
16	OFFICE	OF UNFAIR IMPORT INVESTIGATION		17	listening in.
17	INTERNA	ATIONAL TRADE COMMISSION		18	MS. REARDON: And Katherine Reardon from the
18		R. WHITNEY WINSTON Street. SW		19	law firm Fish & Richardson on behalf of the
	Washing	gton, D.C. 20436		20	respondent Apple.
19	202.205 whitney	o.2221 y.winston@usitc.gov		20	MR. WINSTON: Whitney Winston on behalf of
20		_		21	2
21	app	beared on behalf of the ITC.			Commission investigative staff.
22 23	Also Present	t: s Phillips, Videographer		23	IGOR EFIMOV, Ph. D.,
24	Wr. dus			24	having been first duly sworn, was examined and
25		* * * * * * *		25	testified as follows:
			Page 3		Page 5
1			Page 3	1	Page 5 EXAMINATION
2	WITNESS		Page 3 PAGE	1	_
2 3	IGOR R. EFI		-		EXAMINATION BY MS. REARDON:
2 3 4	IGOR R. EFII EXAMINED BY	MOV, Ph.D.	-	2 3	EXAMINATION BY MS. REARDON: Q Good morning, Dr. Efimov.
2 3 4 5 6	IGOR R. EFI	MOV, Ph.D. don	PAGE	2 3 4	EXAMINATION BY MS. REARDON: Q Good morning, Dr. Efimov. A Good morning.
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3 (Pages 6 to 9)

		1	3 (Pages 0 to 9)
	Page 6		Page 8
1	A No.	1	record in the same way that in the room the
2	Q And do you have any notes or documents with	2	videographer would tell us to go off the record.
3	you?	3	Okay?
4	A Well, I have my computer and my iPad next to	4	A Okay.
5	me.	5	Q And then today we will look at some
6	Q Got it. But no physical printouts of any	6	documents, and I will drop those into the chat
7	documents?	7	function. And you've probably seen the chat
8	A No, I don't.	8	function pop up already, have you?
9	Q Now, you have been deposed before, is that	9	A Yeah, we just tested actually one test
10	right?	10	document.
11	A Yes, I have.	11	Q Excellent. So what I will do is I will type
12	Q So I assume then you probably generally know	12	the exhibit number so I will type Exhibit 1 and
13	the procedure here for today, but I'll go over it	13	then I will drop an exhibit and I will state that
14	again here if you don't mind.	14	it's marked as Exhibit 1, for example. Do you
15	A Yes, I do. But I have to admit that the	15	understand that?
16	Zoom procedure is the first time for me.	16	A Yes.
17	Q That's very good to know. I think we've all	17	Q And then we can open and look at that
18	taken it as normal, but we will certainly go over	18	document. Okay?
19	the Zoom procedure.	19	A Yes.
20	So I will ask the questions, and you are	20	Q Now, you understand you just took an oath to
21	required to answer them unless your lawyer tells you	21	tell the truth, right?
22	not to. Do you understand that?	22	A Yes.
23	A Yes.	23	Q And you'll do that today?
24	Q And you understand that your counsel may	24	A Of course.
25	assert objections from time to time, but unless he	25	${f Q}$ And you understand that your sworn testimony
	Page 7		Page 9
1		1	_
1	instructs you not to answer, you must answer my	1	today is the same as if you were giving it before
2	instructs you not to answer, you must answer my question. Right?	2	today is the same as if you were giving it before the International Trade Commission, correct?
2 3	instructs you not to answer, you must answer my question. Right? A Yes, I do understand that.	2 3	today is the same as if you were giving it before the International Trade Commission, correct? A Yes, I do.
2	instructs you not to answer, you must answer my question. Right? A Yes, I do understand that. Q And you will do that?	2	today is the same as if you were giving it before the International Trade Commission, correct? A Yes, I do. Q So same as if we were in the courtroom.
2 3 4	instructs you not to answer, you must answer my question. Right? A Yes, I do understand that. Q And you will do that? A Yes, I will.	2 3 4	today is the same as if you were giving it before the International Trade Commission, correct? A Yes, I do.
2 3 4 5	instructs you not to answer, you must answer my question. Right? A Yes, I do understand that. Q And you will do that? A Yes, I will. Q And you understand that you need to focus on	2 3 4 5	 today is the same as if you were giving it before the International Trade Commission, correct? A Yes, I do. Q So same as if we were in the courtroom. Fair? A Yes.
2 3 4 5 6	instructs you not to answer, you must answer my question. Right? A Yes, I do understand that. Q And you will do that? A Yes, I will.	2 3 4 5 6	 today is the same as if you were giving it before the International Trade Commission, correct? A Yes, I do. Q So same as if we were in the courtroom. Fair? A Yes.
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			4 (Pages 10 to 13)
	Page 10		Page 12
1	Q And so if I refer to AliveCor for short	1	A It's the largest company in the world, I
2	today, you will understand that that's short for	2	guess.
3	AliveCor Inc., right?	3	Q Do you believe Apple's an innovative
4	A Yes.	4	company?
5	Q And if I refer to Apple today, you will	5	MR. HOLMES: Objection to form.
6	understand that that is short for Apple Inc., right?	6	A It's hard to say. It creates interesting
7	A Yes, I do.	7	products, yes.
8	Q And I mentioned this before, but you're	8	Q Do you believe Apple's an innovative company
9	aware that this case is before the International	9	and has created interesting products in the health
10	Trade Commission, correct?	10	space?
11	A Yes.	11	MR. HOLMES: Objection to form.
12	Q Have you ever testified at the International	12	A Well, as far as I know, Apple wants to be
13	Trade Commission before?	13	healthcare company, yes.
14	A No.	14	Q Do you view Apple as a healthcare company?
15	Q You've never been a part of a case that's	15	A I tend to view healthcare companies which
16	been before the International Trade Commission, is	16	have direct impact on hospital, medical field.
17	that right?	17	Apple probably is not there yet.
18	A As far as I remember, no.	18	Q So to make sure I understand, you don't
19	${f Q}$ Are you aware that there is a hearing in	19	think Apple's products have any direct impact on the
20	this investigation coming up in March?	20	hospital or medical field, is that right?
21	A I think so, uh-huh.	21	MR. HOLMES: Objection to form.
22	Q And you intend to testify about your	22	A Well, Apple products are currently used
23	opinions in the report you submitted in this case at	23	either at clinical trials of Apple products, so in
24	that hearing, right?	24	this respect they do have impact.
25	A Yes.	25	Q And what clinical trials are you referring
	Page 11		Page 13
1	Q Now, have you ever had any professional	1	to?
2	interactions with Apple?	2	A Well, there are several clinical trials
3	A I knew some people from Apple years ago I	3	related to Apple Watch and the detection of atrial
4	emailed maybe several times, but it was just a	4	fibrillation.
5	social interaction.	5	Q And have you looked at those clinical
6	Q Who were the people that you knew at Apple?	6	trials?
7	Can you recall?	7	A I read some papers, yes, a while ago.
8	A I forgot the name. She was a biomedical	8	Q And why did you read those papers?
9	engineer and student at Duke University but then	9	MR. HOLMES: I just hold on a second. I
10	worked for Apple. She is a biomedical engineer.	10	just want to caution you to the extent that you were
11	And I apologize, I don't remember the name. Anna,	11	directed by the attorneys to do that, not to
12	and I forgot the last name.	12	disclose the communications that you had with them.
13	Q Do you know what she was working on at	13	But if you did it on your own, you can answer.
14	Apple?	14	A Yeah, I did it on my own as an editor of a
15	A No, not really.	15	journal, some papers came across as a reviewer.
47	Q And you mentioned that you had maybe sent	16	Q And what did you understand those clinical
16			tuitele te he studuite?
17	several emails to Apple. Were those all to the same	17	trials to be studying?
17 18	several emails to Apple. Were those all to the same I think you said Anna that worked there?	18	A It was an attempt to basically detect atrial
17 18 19	several emails to Apple. Were those all to the same I think you said Anna that worked there? A Uh-huh.	18 19	A It was an attempt to basically detect atrial fibrillation in consumers.
17 18 19 20	 several emails to Apple. Were those all to the same I think you said Anna that worked there? A Uh-huh. Q Is there anyone else that you interacted 	18 19 20	 A It was an attempt to basically detect atrial fibrillation in consumers. Q Is it your opinion that if a company does
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5 (Pages 14 to 17) Page 14 Page 16 well any time -- I don't mean to interrupt you. use, for example, AD instruments, EKG recorder which 1 1 2 Please finish your answer. 2 students have to use and conduct laboratory 3 A Or it could be, you know, algorithm which is 3 recording their own EKG. I brought various other 4 also not necessarily medical device. 4 sensors which can be used for recording EKG. And on 5 **Q** So you can do clinical trials for a consumer 5 those sensors it was also Apple Watch. **Q** So it sounds like you've looked at a lot of 6 device, is that right? 6 7 A Yes. 7 different types of ECG sensors in your 8 **Q** Do you own an Apple Watch? 8 electrophysiology class, is that right? 9 A Yes, I do. 9 A Yes, yes. 10 Q Did you buy it for the ECG functionality? 10 Q And Apple Watch is just one of those 11 MR. HOLMES: Objection to form. 11 sensors? **A** I bought three or four models of Apple 12 12 A Yes. 13 Watch. I just keep updating. I like new gadgets. 13 **Q** Have you -- let me ask you this: It sounds 14 **Q** So why do you wear an Apple Watch? 14 like your use of the Apple Watch is varied, is that A It's convenient. It keeps my calendar. 15 15 fair? 16 ${\bf Q}$ Have you ever used the -- well, let me ask 16 MR. HOLMES: Objection to form. 17 you this: Have you ever heard of the high heart 17 A l'm not sure what it means. Can you define 18 varied? 18 rate notification on the Apple Watch? 19 19 **Q** Let me ask you this: What types of uses do **A** Not in my personal experience. 20 **Q** What about the irregular rhythm 20 you use your Apple Watch for? 21 notification, have you ever heard of that? 21 **A** As a consumer or as a teacher in classroom? 22 **A** As a consumer, no, I haven't had that, 22 **Q** As a consumer. 23 23 **A** As a consumer, well, primarily of course for fortunately. 24 24 keeping the time and calendar, some apps. When I Q Have you heard about the irregular rhythm 25 notification in the context of this case? 25 walk, I track my exercise. That's primarily the Page 15 Page 17 1 MR. HOLMES: Objection to form. 1 use. 2 **A** I think it might have come forth in some 2 **Q** Have you ever in your professional setting 3 documents. 3 done studies on the Apple Watch? 4 4 A No. **Q** But fair to say you weren't aware of the 5 5 Q Have you ever tried to uncover or study the irregular rhythm notification as a user of the Apple Watch prior to this case, correct? software of the Apple Watch? 6 6 7 A Rather if you take electrocardiogram it says 7 A No. 8 8 something about atrial fibrillation, not sure if **Q** You've never looked at how the Apple 9 9 rhythm notification as such if it's being referred. algorithm -- algorithms work respect to its ECG 10 **Q** Let me ask you that question since the ECG 10 functionality, for example, correct? 11 functionality is separate. You've taken an ECG on 11 A No. I haven't. 12 your Apple Watch, correct? 12 Q And same for the hardware in the Apple MR. HOLMES: Objection to form. 13 13 Watch, you've never looked at the specific hardware 14 **A** Yeah, I have, with KardiaBand and with Apple 14 that Apple uses for its sensors? 15 Watch. 15 A No. 16 **Q** And why did you do that? 16 **Q** Now, you are aware that Apple's expert on 17 MR. HOLMES: Hold on a second. I just want 17 invalidity in this case is -- let me say it this 18 to caution you to the extent that you were directed 18 wav. 19 by any attorneys to do that, you don't disclose the 19 You're aware that Apple's expert on 20 20 communications you had with them. But if you've invalidity of the asserted patents in this case is 21 done it on your own, you can feel free to answer. 21 Dr. Collin Stultz, correct? 22 **A** Well, initially I teach electrophysiology, 22 A Yes, I am. 23 Q Have you ever heard of Dr. Stultz before? cardiovascular engineering in classroom for over 20 23 24 years and this includes teaching 24 A No. 25 25 electrocardiography. And I bring various gadgets we **Q** So you never read any of his publications?

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