## UNITED STATES INTERNATIONAL TRADE COMMISSION

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In the Matter of	Investigation No.
CERTAIN WEARABLE ELECTRONIC	337-TA-1266
DEVICES WITH ECG FUNCTIONALITY AND	
COMPONENTS THEREOF	
x	

OPEN/CLOSED SESSIONS

- Pages: 828 through 1101
- Place: Washington, D.C.
- Date: March 31, 2022

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1 OPEN SESSION 2 3 COLLIN STULTZ, MD, PhD, 4 having been first duly sworn and/or affirmed 5 on his oath, was thereafter examined and testified as follows: б 7 THE WITNESS: I was muted. Yes, I do. 8 JUDGE ELLIOT: Very well. Counsel, could you 9 please note your appearances? 10 MR. AMON: Yes, Your Honor. Michael Amon on 11 behalf of Respondent. MR. HOLMES: Andrew Holmes on behalf of AliveCor. 12 13 JUDGE ELLIOT: All right. So we are on the 14 public record. Go ahead, Mr. Amon. 15 MR. AMON: Thank you, Your Honor. DIRECT EXAMINATION 16 17 BY MR. AMON: Could you please introduce yourself to the Court? 18 Q. 19 Α. My name is Collin Stultz. I'm a cardiologist at 20 the Massachusetts General Hospital and a professor at the 21 Massachusetts Institute of Technology. 22 Dr. Stultz, did you prepare any slides to 0. 23 accompany your testimony today? Yes, I did. 24 Α. Q. Could we bring those up, please? And if we go to 25

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1 RDX-3.2, can you briefly summarize your educational

2 background starting with college?

3 Α. Yes. My educational background is summarized on 4 this slide. I went to Harvard College and got a bachelor's 5 degree in mathematics and philosophy. Then went on to Harvard Medical School where I got my MD and also obtained a б PhD in biophysics also from Harvard University. And then 7 8 went on to my clinical training at the Brigham and Women's 9 Hospital, first in internal medicine and subsequently in 10 cardiology. 11 Ο. And how long -- sorry. If we go to RDX-3.3, 12 where do you work today, sir? 13 Α. I work at the Massachusetts General Hospital and 14 at MIT. How long have you been at Mass General? 15 Q. I've been there for about five years. 16 Α. 17 Ο. What do you do at Mass General? I'm a staff cardiologist. 18 Α. 19 Q. You also said that you're a professor at MIT? That is correct. 20 Α. 21 And what is your title at MIT? Ο. I'm an ENT and Robert H. Rubin Endowed Professor 22 Α. 23 of Medical Engineering and Science and a professor of 24 electrical engineering and computer science. 25 I apologize. I failed to ask, before you were a Ο.

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1 cardiologist at Mass General, did you practice cardiology 2 someplace else? 3 Α. Yes, I did. Where is that? 4 Ο. 5 Α. I was in Veterans Affairs System at the West 6 Roxbury V.A. Hospital. How long were you a cardiologist at the Veterans 7 Ο. 8 Affairs Hospital in Roxbury? 9 About 14, 15 years. Α. And so how long have you been a practicing 10 Q. 11 cardiologist? Approximately 20 years, and, if you include the 12 Α. 13 time in my fellowship training, it's been over 20 years I've 14 been caring for patients with cardiovascular disease. 15 Q. And returning to your position at MIT, what do you teach at MIT? 16 So I've taught a panoplea of different classes, 17 Α. typically quantitative physiology where we model different 18 19 physiologic systems using simple electrical circuits to 20 relate the fundamental principles. 21 And more recently I've taught a class that is an 22 introduction to electrical engineering and computer science 23 from a medical perspective. It's run a gamut of different 24 topics. 25 Q. How long have you been on the faculty at MIT?

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1 A. Approximately 18 years.

Q. I believe you also said that you're on thefaculty at Harvard?

A. That's right. I'm a member in the Harvard-MIT
5 Division of Health Sciences and Technology.

Q. And what do you teach at Harvard?

A. So I've given lectures in a lot of different8 classes: anatomy, cardiovascular, pathophysiology,

9 biochemistry, and such.

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10 Q. And how long have you been on the faculty at 11 Harvard?

12 A. Also approximately 18 years.

Q. If we go to RDX-3.4, are there any classes that you teach that are relevant to the subject matter in this case?

A. Yes. So the class I alluded to previously, 6.03, Introduction to Electrical Engineering and Computer Science, again, this is a course that introduces students to fundamental principles in electrical engineering and computer science as they relate to the clinical domain.

Q. And does that class include principles of ECGdesign and ECG sensors and data analysis?

A. Yeah. And that is what is expressed in this slide. If you look in the upper right-hand corner, at the electrocardiogram circuit, that is a very simple,

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