

Page 1 IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF CALIFORNIA -----X MASIMO CORPORATION, a California Corporation, Plaintiff, v. SOTERA WIRELESS, INC., a California corporation and HON HAI PRECISION INDUSTRY CO., LTD., a Taiwan corporation, Defendants. -----X Case No. 3:19-cv-01100-BAS-NLS -----X September 10, 2020 12:30 p.m. Remote video deposition of GEORGE EMANUEL YANULIS, PH.D., taken by Plaintiff, before Brandon Rainoff, a Federal Certified Realtime Reporter and Notary Public of the State of New York. DIGITAL EVIDENCE GROUP 1730 M Street, NW, Suite 812 Washington, D.C. 20036 (202) 232-0646	Page 3 1 A P P E A R A N C E S (continued): 2 3 SCIENBIZIP, P.C. 4 Attorneys for Defendant Hon Hai Precision Industry 5 Co., Ltd. 6 550 South Hope Street 7 Suite 2825 8 Los Angeles, California 90071 9 213.426.1771 10 BY: HUA CHEN, ESQ. 11 213.426.1778 12 huachen@scienbizippc.com 13 Ying Lu, Esq. 14 yinglu@scienbizippc.com 15 16 ALSO PRESENT: 17 HENRY MARTE, Videographer 18 19 20 21 22
Page 2 1 A P P E A R A N C E S: 2 3 KNOBBE, MARTENS, OLSON & BEAR, LLP 4 Attorneys for Plaintiff Masimo Corporation 5 2040 Main Street 6 14th Floor 7 Irvine, California 92614 8 949.760.0404 9 BY: BRIAN C. CLAASSEN, ESQ. 10 brian.claassen@knobbe.com 11 12 HUSCH BLACKWELL LLP 13 Attorneys for Defendant Sotera Wireless, Inc. and the 14 Witness 15 190 Carondelet Plaza 16 Suite 600 17 St. Louis, Missouri 63105 18 314.480.1500 19 BY: JENNIFER E. HOEKEL, ESQ. 20 314.345.6123 21 jennifer.hoekel@huschblackwell.com 22 - and - 1801 Wewatta Street Suite 1000 Denver, Colorado 80202 303.749.7200 BY: DUSTIN TAYLOR, ESQ. 202.749.7247 dustin.taylor@huschblackwell.com	Page 4 1 I N D E X O F E X A M I N A T I O N 2 3 Witness: 4 George Emanuel Yanulis, Ph.D. 5 6 Examination: 7 By Mr. Claassen.....Page 9 8 By Ms. Hoekel.....Page 308 9 By Mr. Claassen.....Page 319 10 11 I N D E X O F E X H I B I T S 12 13 Exhibit 1Page 25 14 Multipage document entitled: Joint Hearing Statement, 15 dated August 10, 2020 (no Bates Nos.) 16 17 Exhibit 2Page 97 18 Document Bates stamped MAS0000020 thorough 60, 19 multipage document entitled: United States Patent 20 No.: 9,788,735 B2, dated October 17, 2017, with cover 21 page dated June 18, 2019 22 Exhibit 3Page 96 Document Bates stamped MAS0020688 through 20850, multipage document entitled: Declaration of George E. Yanulis in Support of Petition for Inter Partes Review of U.S. Patent No. 9,788,735, dated May 18, 2020

Page 5 1 INDEX OF EXHIBITS, CONT' 2 Exhibit 7Page 147 3 Document Bates stamped MAS0021189 through 21315, 4 multipage document entitled: Declaration of George E. 5 Yanulis in Support of Petition for Inter Partes 6 Review of U.S. Patent No. 10,213,108, dated May 6, 7 2020 8 9 Exhibit 6Page 156 10 Document Bates stamped MAS0000140 through 179, 11 multipage document entitled: United States Patent 12 No.: US 10, 213,108 B2, dated February 26, 2019, with 13 cover page dated June 17, 2019 14 15 Exhibit 8Page 179 16 Document Bates stamped MAS0000180 through 284, 17 multipage document entitled: United States Patent 18 No.: US 10,255,994 B2, dated April 9, 2019, with 19 cover page dated June 17, 2019 20 21 Exhibit 9Page 196 22 Multipage document entitled: Declaration of George E. Yanulis in Support of Petition for Inter Partes Review of U.S. Patent No. 10,255,994, dated June 11, 2020 (no Bates Nos.) Exhibit 11Page 211 Document Bates stamped MAS0021498 through 21678, multipage document entitled: Declaration of George E. Yanulis in Support of Petition for Inter Partes Review of U.S. Patent No. RE47,244, dated May 21, 2020	Page 7 1 * * * 2 PROCEEDING 3 Thursday, September 10, 2020 4 Remote Deposition 5 12:30 p.m. Eastern Standard Time 6 * * * 7 THE VIDEOGRAPHER: We are now on the 8 record. My name is Henry Marte. I'm a 9 videographer on behalf of Digital Evidence 10 Group. 11 Today's date is September 10, 2020, 12 and the time is 12:30 p.m., Eastern Time. 13 This videotaped deposition is being 14 held via remote Zoom in the matter of Masimo 15 Corporation versus Sotero Wireless, Inc., et al. 16 The deponent today is Dr. George 17 Yanulis. 18 All parties to this deposition are 19 appearing remotely. 20 Also, can all counsel introduce 21 themselves for the record? -- which after the 22 court reporter is going to administer the oath.
Page 6 1 INDEX OF EXHIBITS, CONT' 2 Exhibit 4Page 301 3 Document Bates stamped MAS0000099 through 139, 4 multipage document entitled: United States Patent 5 No.: US 9,872,623 B2, dated January 23, 2018, with 6 cover page dated June 18, 2019 7 8 Exhibit 10Page 311 9 Document Bates stamped MAS0000315 through 333, 10 multipage document entitled: United States Patent 11 No.: US RE47,244 E, dated February 19, 2019, with 12 cover page dated June 17, 2019 13 14 15 16 17 18 19 20 21 22	Page 8 1 MR. CLAASSEN: This is Brian Claassen 2 for plaintiff Masimo. 3 MS. HOEKEL: Jennifer Hoekel for 4 defendant Sotero and the witness. 5 THE WITNESS: Dr. George Yanulis for 6 the defendant. 7 MR. CHEN: Hua Chen, counsel for 8 co-defendant Hon Hai Precision Industry Co., 9 Ltd. 10 THE COURT REPORTER: Counsel, before 11 swearing in the witness, I have a short 12 statement to put on the record. 13 The attorneys participating in this 14 deposition acknowledge that, due to the severity 15 of COVID-19 and following the practice of social 16 distancing, I am not physically present in the 17 deposition room, and that I will be swearing in 18 the witness and reporting this deposition 19 remotely. 20 Do all parties stipulate to the 21 validity of this remote swearing and remote 22 reporting via video conference, and that it will

Page 9 1 be admissible in the courtroom as if it had been 2 taken pursuant to the applicable rules of civil 3 procedure? 4 MR. CLAASSEN: So stipulated. 5 MS. HOEKEL: Yes. 6 MR. CHEN: Yes, so stipulated. 7 GEORGE EMANUEL YANULIS, Ph.D., 8 having been duly sworn, was examined and 9 testified as follows: 10 EXAMINATION 11 BY MR. CLAASSEN: 12 Q. Good afternoon, Dr. Yanulis. 13 Did I pronounce your name the right 14 way? 15 A. You did, sir, thank you. 16 Q. How are you today? 17 A. I'm fine. How are you, sir? 18 Q. Doing well, thank you. 19 Have you ever been deposed before? 20 A. Yes. 21 Q. Approximately how many times? 22 A. Six times, sir.	Page 11 1 Q. And can you see me right now? 2 A. Yes, I can. 3 Q. Are you having any difficulty hearing 4 me right now? 5 A. No, sir, I do not. 6 Q. Is there any reason why you can't give 7 truthful testimony today? 8 A. No, there is not. 9 Q. Are you on any medication? 10 A. No, I am not. 11 Q. Are you in good health? 12 A. Yes, I am. 13 Q. How did you prepare for this 14 deposition? 15 A. I reviewed all patents, all IPRs that 16 are written. I did read Exhibit 1 and 2, the 17 claim construction, the file histories. 18 To the best of my knowledge, that's 19 everything. If I forgot something -- 20 Q. I want to break that down a little. 21 You said you reviewed all patents. 22 Are those the nine patents started --
Page 10 1 Q. How many of those six depositions were 2 in patent cases? 3 A. None. 4 Q. Have you ever been deposed via Zoom 5 before? 6 A. No, sir. 7 Q. Have you been using Zoom during the 8 COVID crisis? 9 A. Quite a lot. 10 Q. So you are familiar with how Zoom 11 works? 12 A. Yes, sir. 13 Q. And if you have questions about how 14 Zoom works during the deposition, you'll let us 15 know? 16 A. Yes, sir. Thank you. 17 Q. I'm going to assume that you can hear 18 me. I know sometimes Zoom has difficulty with 19 that. 20 If at any point during the deposition, 21 you cannot hear me, will you let me know? 22 A. Yes, sir, thank you.	Page 12 1 A. I'm sorry. I reviewed all nine 2 patents, sir. 3 And I reviewed the claim construction, 4 focusing on the terms being discussed in Exhibit 5 1. 6 I also reviewed my IPR declarations. 7 I reviewed all file histories. 8 And I think that covers everything. 9 Q. You have been referring to something 10 called Exhibit 1. 11 Is that the document that I gave you 12 printed called Exhibit 1? 13 A. Yes, sir. That's the joint hearing 14 statement, dated November 3rd, 2020. 15 Q. So you have seen that document before. 16 Is that right? 17 A. Yes. 18 Q. I want to come back to that Exhibit 1 19 in just a few minutes. I still want to go 20 through a few background questions with you. 21 Did you speak to anyone about the 22 deposition?

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1 A. Only --
 2 MS. HOEKEL: And I just want to remind
 3 the witness not to reveal the contents of any
 4 privilege.
 5 And also to wait until Mr. Claassen
 6 has finished his question before you start your
 7 answer.
 8 BY MR. CLAASSEN:
 9 Q. Do you understand the question, Dr.
 10 Yanulis?
 11 A. Yes.
 12 Q. Did you speak to anyone about this
 13 deposition?
 14 A. Yes.
 15 Q. Who did you speak with?
 16 A. Jennifer Hoekel and Dustin Taylor.
 17 Q. Did you speak with anyone from Hon
 18 Hai?
 19 A. No, I did not.
 20 Q. Did you speak with anyone other than
 21 counsel about this deposition?
 22 A. No, I did not.

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1 (Pause)
 2 Q. So you mentioned earlier reviewing IPR
 3 declarations.
 4 Is that correct?
 5 A. Yes, sir.
 6 Q. Those declarations are your
 7 declarations submitted in the IPRs related to
 8 the nine patents in this litigation.
 9 Is that correct?
 10 A. Yes, sir.
 11 Q. Those declarations set forth your
 12 opinions regarding claim construction, right?
 13 A. Yes, they do.
 14 Q. Are the declarations complete?
 15 A. Yes, they are.
 16 Q. Are you aware of any changes that need
 17 to be made to them?
 18 A. No. I am not.
 19 (Pause)
 20 Q. So from time to time, you may see me
 21 looking sideways. That's because the feed for
 22 real time -- which is the transcript -- is to my

Page 15

1 left. So if I'm looking away, I'm looking
 2 toward the transcript. I'm not trying to ignore
 3 you.
 4 Do you understand?
 5 A. No problem. Thank you for explaining.
 6 Q. And I have the stack of documents that
 7 we sent you as physical exhibits here, so that
 8 if we have any questions I can refer to those
 9 hard copies as well.
 10 Do you understand that?
 11 A. Thank you.
 12 Q. Who engaged you in this case?
 13 A. Husch Blackwell law firm.
 14 Q. What is your rate for the case?
 15 (Pause)
 16 Q. If you don't recall off the top of
 17 your head, I'm not asking for a memory test. We
 18 can go back.
 19 A. I believe it's \$550; \$655 for
 20 depo/trial.
 21 (Pause)
 22 Q. Approximately how many hours have you

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1 spent on this matter?
 2 A. Well over 100, sir. It's probably
 3 close to 200. I don't have the exact
 4 calculation.
 5 Q. In that 200 hours, you are including
 6 both the IPRs and the district court case.
 7 Is that right?
 8 A. Yes, sir.
 9 Q. What's your understanding of the
 10 difference between the IPR and the district
 11 court?
 12 A. The IPR declarations that I wrote were
 13 for the Patent Office to review patent
 14 invalidity.
 15 The construction claims, which are
 16 handled by district court, are -- deal with what
 17 we are discussing today; discussing the terms of
 18 dispute, the claims terms that has been
 19 construed by both parties.
 20 Q. You understand that today we are going
 21 to be focusing on the now top eight terms for
 22 construction, right?

4 (Pages 13 to 16)

Page 17 1 A. Yes, I do. 2 Q. And my understanding is that there are 3 additional disputes about construction beyond 4 those eight terms. 5 Is that your understanding? 6 A. Yes, it is. 7 Q. I want to talk a little bit now about 8 your understanding of the claim construction 9 process. 10 Is that okay with you? 11 A. Yes, it is. 12 Q. You are not a lawyer, right? 13 A. Correct. 14 Q. Sotero's attorneys explained how to 15 perform claim construction -- or at least the 16 analysis for claim construction -- to you, 17 right? 18 A. Yes, they did. 19 Q. What is your understanding of the 20 process for claim construction? 21 A. I look at the claims being -- the 22 eight claims being discussed -- being disputed	Page 19 1 just discussed in terms of the claim 2 construction, or the way the claims have been 3 constructed by the district court. 4 Q. Okay. I think maybe you didn't 5 understand my question fully. 6 I was asking about the level of 7 ordinary skill in the art. 8 Do you understand that? 9 A. Yes. 10 Q. My question was: Why does the same 11 level of ordinary skill in the art apply to all 12 nine patents? 13 A. I'm not sure I understand the 14 question, other than what I answered. 15 Would you rephrase it or repeat it, 16 sir? 17 Q. I'm going to ask that you allow your 18 attorney to make the types of objections you are 19 speaking about -- so the rephrasing, or asked 20 and answered. 21 You can go ahead and answer the 22 question unless you get some sort of instruction
Page 18 1 in view of the specifications for the nine 2 patents, as well as the file histories for all 3 nine patents; and my expertise as a POSA on 4 these particular matters and claims of interest. 5 (Pause) 6 Q. You said POSA? 7 Is that right? 8 A. Yes, sir, for one skilled in the art. 9 Q. So by that, did you mean a person of 10 ordinary skill in the art? 11 A. Yes, sir. 12 (Pause) 13 Q. Did you develop any opinion about the 14 level of ordinary skill in the art? 15 A. Yes, I did. 16 Q. Did that level of skill change based 17 upon which patent you were considering? 18 A. No, it did not. 19 Q. Why is that? 20 A. All patents should be given their 21 plain and ordinary meaning. And I relied on 22 that premise to review all the materials that I	Page 20 1 from your attorney not to answer, or for me to 2 rephrase the question. 3 Do you understand that? 4 A. Yes, sir. 5 MS. HOEKEL: I think he was just 6 telling you he didn't understand the question. 7 I don't think the question was objectionable. I 8 don't think he understood it. 9 MR. CLAASSEN: Okay. So let's start 10 over with the premise again. 11 BY MR. CLAASSEN: 12 Q. You provided an opinion about the 13 level of ordinary skill in the art. 14 Is that right? 15 A. Yes, I did. 16 Q. And you did that for all nine patents. 17 Is that right? 18 A. Yes, I did. 19 Q. And in your opinion, the level of 20 ordinary skill in the art is the same for all 21 nine patents, right? 22 A. To some degree. Some are more complex

5 (Pages 17 to 20)

Page 21 1 in terms of technology. 2 Q. But you did not -- the change in 3 complexity and technology -- does that change 4 the level of ordinary skill in the art? 5 A. No, it does not. 6 Q. Which patents had more complexity? 7 A. In my opinion, some of the 8 alarm-related patents. But that's only my 9 opinion. 10 Q. What made them more complex? 11 A. Some of them were longer. The '994 12 was a little bit longer. 13 I'm not sure how else to answer that 14 question. 15 Q. So the specification was longer. 16 That's what made it more complex? 17 A. Yes, sir. It was one of the longer 18 patents. 19 Q. Was there anything about the subject 20 matter itself that made it more complex? 21 A. No, it was not. 22 (Pause)	Page 23 1 A. Yes, sir. 2 MS. HOEKEL: Can I ask: For the 3 record, what Exhibit 2 is, please? 4 THE WITNESS: It's the other remaining 5 terms being disputed. 6 MR. CLAASSEN: Let's talk about that 7 for just a minute. 8 BY MR. CLAASSEN: 9 Q. So you are referring now to the way 10 the joint hearing statement marks exhibits. 11 Is that correct? 12 A. Yes. 13 Q. Okay. 14 I'd like to do something slightly 15 different with you today if that's possible to 16 avoid confusion with the rest of the group here. 17 I sent you a printed folder called 18 Exhibit 1. 19 Do you have that? 20 A. Yes, I do. 21 MR. CLAASSEN: Can I ask the court 22 reporter to please bring up Exhibit 1?
Page 22 1 Q. Did you help counsel determine which 2 terms to construe? 3 A. No, I did not. 4 (Pause) 5 Q. Were you given a list of disputed 6 terms before you prepared your IPR declarations? 7 A. No, I was not. 8 Q. How did you know the parties' 9 positions on claim construction if you were not 10 given the disputed terms? 11 A. I was given Exhibit 1 and 2 by 12 co-counsel prior to the deposition. 13 Q. Okay. So I understand that, prior to 14 the deposition, you were given Exhibit 1. 15 Is that correct? 16 A. And 2, sir. 17 Q. So you were given Exhibit 1 and 2 18 before the deposition. 19 Is that correct? 20 A. Could you repeat the question, sir? 21 Q. You were given Exhibits 1 and 2 before 22 the deposition?	Page 24 1 (Pause) 2 MR. CLAASSEN: So the court reporter 3 has just put on the screen a document that I've 4 sent to you that's been labeled as Exhibit 1. 5 BY MR. CLAASSEN: 6 Q. Do you see the cover of this document? 7 A. Yes, I do. 8 Q. I'm going to represent to you that 9 this Exhibit 1 that I've sent to you contains 10 the joint hearing statement and then the claim 11 chart for the top nine disputed terms. 12 Do you want to flip through that and 13 verify that's what you have? 14 A. Yes, I do. 15 Q. So what you were talking about with 16 respect to Exhibit 2 earlier is an additional 17 exhibit that I didn't send you with this printed 18 Exhibit 1. 19 Is that correct? 20 A. You are absolutely correct. 21 Q. Okay. So I sent you -- what I'm going 22 to call Exhibit 1 today is this document, the

Page 25 1 joint hearing statement with its Exhibit 1. 2 Do you understand that? 3 MR. CLAASSEN: I'm going to ask the 4 court reporter to mark now this document Exhibit 5 1 for the record. 6 (Exhibit 1, Multipage document 7 entitled: Joint Hearing Statement, dated August 8 10, 2020 (no Bates Nos.), marked for 9 identification) 10 BY MR. CLAASSEN: 11 Q. So, Dr. Yanulis, when we talk about 12 Exhibit 1 today, we are going to be talking 13 about this document that I have now marked as 14 Exhibit 1. 15 Do you understand that? 16 A. Yes, I do. 17 Q. So I asked you earlier if you had been 18 given a list of disputed terms before you 19 prepared your IPR declarations. 20 Do you understand that? 21 A. Yes, I do. 22 Q. Had you been given that list before	Page 27 1 A. Correct. 2 Q. You understand that those declarations 3 were prepared before what I showed you is 4 Exhibit 1. 5 Is that right? 6 A. Correct. 7 Q. In those declarations, you set forth 8 some disputes on claim construction. 9 Is that correct? 10 A. Yes, I did. 11 Q. So my question is: How did you know 12 which terms were disputed for purposes of 13 preparing your IPR declaration? 14 A. The terms that were noted in the IPRs, 15 terms that were based on file histories, the 16 specifications, the patents, the parent patents. 17 So I did have -- I did have an idea of the terms 18 being disputed. 19 I just didn't realize which nine would 20 be disputed -- or eight. 21 I apologize for the confusion. 22 Q. You didn't understand which top terms
Page 26 1 you prepared your IPR declarations? 2 A. No, I had not been. 3 Q. So how did you know which terms were 4 in dispute for purposes of preparing your IPR 5 declarations? 6 A. I did not use them to prepare my IPR 7 declarations. 8 Q. In your IPR declarations, you say that 9 certain terms are disputed. 10 Is that correct? 11 A. Yes, I did. 12 Q. How did you identify those terms? 13 A. I'm not sure I understand the 14 question. 15 Could you repeat it? 16 Q. Yes. 17 MR. CLAASSEN: I'll ask the court 18 reporter now to take down Exhibit 1 for now. 19 BY MR. CLAASSEN: 20 Q. So we talked about your IPR 21 declarations. 22 You understand that, right?	Page 28 1 would be disputed. 2 Is that correct? 3 A. Correct. 4 Q. But counsel gave you some sort of list 5 of disputed terms. 6 Is that correct? 7 A. They did, and there was also -- yes, 8 they did. 9 Q. So I want to come back to that. We'll 10 talk about that when we get to your declaration. 11 But I want to finish up talking about 12 the general process for claim construction 13 purposes. 14 So do you understand that we are going 15 to shift topics back to the general process for 16 claim construction? 17 A. Yes, I do. 18 Q. Where do you start the claim 19 construction process? 20 A. The first step is to review the 21 patents -- parent patents -- that were also 22 disclosed related to those patents, nine

7 (Pages 25 to 28)

Page 29 1 patents. The file histories, the -- those are 2 the main essential tools I used. 3 Q. When you did your claim construction, 4 did you start by reading the claims? 5 Or did you read the specification 6 first? 7 A. I read both, sir. 8 Q. In which order? 9 A. I read the specs in their entirety. 10 Then I read the claims. 11 And I read both in their entirety 12 again. 13 Q. When you were trying to interpret the 14 meaning of words in the claim, what was your 15 process for doing that? 16 A. The specifications; and I was also 17 utilizing my skill as one skilled in the art for 18 those specifications. 19 Q. And at what point did -- 20 (Pause) 21 THE VIDEOGRAPHER: The time is 12:55 22 p.m. Off the record.	Page 31 1 terms that counsel provided for you? 2 A. After they informed me. 3 Q. When you say "they informed you," are 4 you talking about counsel? 5 A. Yes. Prior -- 6 Q. I want to make sure I understand the 7 process fully. 8 You read the patents. You read the 9 claims. You went back and read the 10 specification and claims again -- 11 A. And file histories. 12 Q. And the file histories. 13 And then counsel provided you with a 14 list of disputed terms? 15 Is that correct? 16 A. Yes. 17 Q. What did you do next? 18 A. The next process was to develop my IPR 19 declarations for the Patent Office. 20 Q. Did you look at prior art before you 21 developed your claim construction positions? 22 A. Yes, I did.
Page 30 1 (Recess from 12:55 p.m. to 1:03 p.m.) 2 THE VIDEOGRAPHER: The time is 1:03 3 p.m. Back on the record. 4 BY MR. CLAASSEN: 5 Q. Hello, Dr. Yanulis. Can you hear me 6 now? 7 A. Yes, I can. 8 Q. I apologize for our connectivity 9 issue, but I want to pick up where we left off. 10 We were talking about the general 11 process for claim construction? 12 A. Yes, we were. 13 Q. And we were talking about the fact 14 that you looked at the specification and then 15 the claims. 16 And I was asking you: At what point 17 did you consider the list of claim terms that 18 counsel provided for you? 19 Do you understand that question? 20 A. Yes, I do. 21 Q. So at what point did you consider the 22 list of questions that counsel -- or list of	Page 32 1 Q. So your process was to look at the 2 prior art first, and then go back and look at 3 the claim constructions? 4 A. I switched back and forth, to be 5 honest with you. It was a multiple -- 6 multi-task process. 7 Q. Did you break it up by patent or 8 patent family? 9 A. Patent family. 10 Q. What is your understanding of the 11 patent families involved in this case? 12 A. I can't remember all the parent 13 patents. 14 But anything that I knew was a parent 15 patent, I looked at that. 16 And I also reviewed the patent 17 histories, and, of course, the specifications 18 for those parent patents. 19 And they were listed in my IPRs as 20 well. 21 Q. Do you have an understanding of how 22 the patents are broken up by subject matter?

Page 33 1 A. Yes, I do. 2 Q. What is that understanding? 3 (Pause) 4 Q. Are you looking at a document or the 5 computer screen? 6 A. No, I'm relying on my own knowledge, 7 sir. 8 Q. I'm sorry. Can you repeat? 9 A. I'm -- what I was getting at -- I'm 10 relying on my own knowledge as well. 11 And I did work for the U.S. Patent 12 Office, so I am familiar with the art -- arts 13 that they developed for the different medical 14 device, and they also list the arts on the 15 patents itself. 16 (Pause) 17 THE VIDEOGRAPHER: The time is 1:07 18 p.m. Off the record. 19 (Recess from 1:07 p.m. to 1:09 p.m.) 20 THE VIDEOGRAPHER: We are back on the 21 record. The time is 1:09 p.m. 22 BY MR. CLAASSEN:	Page 35 1 the particular families that are at issue in 2 this case? 3 A. There was a lot of similarities, a lot 4 of classifications and arts used. I can't 5 remember all the different classifications. 6 Q. So when you are referring to 7 "families," are you referring to the specific 8 patents that are at issue in this case? 9 A. If I'm understanding your question, 10 yes. 11 Q. What are the families at issue in this 12 case? 13 A. I'd have to look at the patent. 14 If you don't mind, can I look at one 15 patent? 16 Q. Sure. 17 Is there a particular patent that 18 would be helpful for you? 19 A. Any one. 20 MR. CLAASSEN: I'll ask the court 21 reporter to pull up Exhibit 2. 22 And Dr. Yanulis, if you look at
Page 34 1 Q. Dr. Yanulis, we were talking about the 2 patent families. 3 Do you remember that? 4 A. Yes, sir. 5 Q. You understand that there are 6 different subject matters for each of these 7 families, right? 8 A. Yes, I do. 9 Q. What is your understanding of the 10 different subject matters for these families? 11 MS. HOEKEL: Objection, form. 12 BY MR. CLAASSEN: 13 Q. Do you understand the question, Dr. 14 Yanulis? 15 A. Yes, I do. 16 Q. You can go ahead and answer. 17 A. As I articulated, I looked at the 18 classes that were reviewed in each art and just 19 insured I understood from the U.S. Patent's 20 office determination of those particular 21 classifications. 22 Q. Does that have something to do with	Page 36 1 Exhibit 2 in your printed materials -- 2 (Pause) 3 THE WITNESS: Okay. 4 BY MR. CLAASSEN: 5 Q. This is the '735 patent. 6 Have you seen it before? 7 A. Yes, I have. 8 Q. So would this help you understand the 9 patent families that are at issue in this case? 10 A. Yes, it would. 11 Q. What is your understanding of the 12 patent families that are at issue in this case? 13 A. They have the international 14 classification; and the classes which they 15 were -- the patent application was categorized. 16 Then they also had the U.S. classification 17 scheme. They have the field of classification 18 search -- what I also reviewed -- on the patent 19 of the second page -- excuse me -- the cover 20 page. 21 And I looked at references cited as 22 well, and any other publications, as well as

Page 37 1 foreign patent documents as well. 2 MR. CLAASSEN: I'll ask the court 3 reporter then to mark this Exhibit 2 for the 4 record. 5 (Exhibit 2, Document Bates stamped 6 MAS0000020 thorough 60, multipage document 7 entitled: United States Patent No.: 9,788,735 8 B2, dated October 17, 2017, with cover page 9 dated June 18, 2019, marked for identification) 10 BY MR. CLAASSEN: 11 Q. So, Dr. Yanulis, if I'm understanding 12 you right, when you are talking about patent 13 families, you are talking about the 14 classification details that are listed on the 15 cover page of the '735 patent that's shown on 16 the screen now with the Bates label MAS0000021. 17 Is that correct? 18 A. Correct. 19 Q. That would be the U.S. classification 20 in the field of classification shown in the 21 bottom-left of this page. 22 Is that right?	Page 39 1 (Pause) 2 Q. What do you mean by "a parent patent"? 3 A. Some of these patents had parent 4 patents, which I disclosed in my IPRs. 5 Q. If two patents had the same parent, 6 would they be family members? 7 A. I don't know the absolute correct 8 answer. It would be a guess. 9 My answer as a guess would be: Yes. 10 Q. Do you recall whether any of the 11 asserted patents are family members sharing the 12 same parent application? 13 A. There may be, but I'd have to look at 14 all the patents. 15 Q. And you don't know off the top of your 16 head as you are sitting here? 17 A. A lot of them have to do with 18 ambulatory monitoring systems. I'm aware of 19 that. 20 And a lot of them have to do with 21 pulse oximetry monitoring, etc. To that extent, 22 I'm familiar.
Page 38 1 A. I believe it says 52 U.S. 2 classifications. 3 Q. So when you talk about families in 4 this case, you are not talking about anything 5 about how the different specifications are 6 related to one another, are you? 7 A. The specifications for some patents 8 may be related, but that's not always the 9 case -- as far as my understanding. 10 Q. I'm just trying to understand. 11 When you say "family," are you 12 referring, then, to classifications? 13 A. To be honest with you, I know the U.S. 14 Patent Office has changed the terminology. So 15 to the best of my knowledge, I'm referring to it 16 as U.S. classifications of various arts -- 17 excuse me -- various classifications. 18 Q. But you are not talking about how the 19 patents at issue in this case are related to one 20 another. 21 Is that correct? 22 A. No. No. Unless it's a parent patent.	Page 40 1 Q. I want to return now to your claim 2 construction process. And we were talking about 3 you looking at the claims. 4 Do you remember that? 5 A. Yes. 6 Q. And we were talking about you were 7 provided a list of claim terms that were 8 disputed from counsel. 9 Do you remember that? 10 A. Yes, I do. 11 Q. What was the next step in your process 12 after you received that list of terms? 13 A. The first process that I utilized is 14 looking at the file history for that particular 15 patent. 16 The next step was to utilize my skill 17 in the art to evaluate this in view of the specs 18 on the claims. 19 Q. Did you look at the disputed terms in 20 the context of the claims they are used in? 21 A. Yes, I did. 22 Q. When did you do that?

Page 41 1 A. In my development of my IPRs -- 2 declarations. 3 Q. When in the development of your IPR 4 declarations did you do that? 5 A. It was an ongoing process, counselor, 6 while I was writing them and after, making sure 7 had I completed everything accurately. 8 Q. Did you do any word searches for use 9 of the terms in the specification? 10 A. I always do a patent search based on 11 words. 12 Q. What do you mean by "a patent search"? 13 A. What I do is I have a couple of 14 techniques. 15 What I usually do is I'll look at, for 16 example, with these patents -- trying to 17 formulate the best answer, so give me a second. 18 I'm looking at the terms as used in 19 the patents, as discussed. 20 And I'm also looking at any prior art, 21 if there is any kind of, you know, discrepancy 22 in terms of the way they define the terms as	Page 43 1 Q. And that includes -- 2 A. -- as well as -- 3 Q. -- and you are saying the figures 4 also -- 5 I'm going to refer to the figures as 6 part of the specification today. 7 Do you understand that? 8 A. Yes, now I do. Thank you. 9 Q. If there is a conflict between the 10 words of the claim and the specification, what 11 do you do? 12 A. I have to go by what's disclosed in 13 the specs. 14 Q. So if there is a conflict between the 15 claims and the specification, is it your 16 understanding that the specification controls? 17 A. Yes. 18 Q. What is your understanding for when 19 the specification limits the meaning of a claim 20 term? 21 MS. HOEKEL: I'm going to object. 22 A. I don't have an answer for that, sir.
Page 42 1 well, and any prior art that they have supplied. 2 Q. I'd like now to turn in Exhibit 2 to 3 the claims. Those are in column 13 -- or 4 beginning in column 13, MAS0000056. 5 Do you see that, Dr. Yanulis? 6 A. Yes, I do. 7 Q. Do you see there is a claim 1 there? 8 A. Yes, I do. 9 Q. Do you see that one of the claim terms 10 there is "a display"? 11 A. Yes, I do. 12 Q. If you were going about the process 13 for determining the construction of "display," 14 what would you do? 15 A. I'd look at the entire claim or claims 16 in view of the specs, as well as the figures. 17 Q. So you would read this claim 1. 18 Is that correct? 19 A. Yes. 20 Q. Then you would go back and look at the 21 specification, right? 22 A. Yes, sir --	Page 44 1 I'd have to think about it. 2 Q. Have you thought about it in this 3 case? 4 A. Yes, I did. 5 Q. When did you do that? 6 A. When I looked at each claim and it 7 wasn't what's claimed disclosed in the specs. 8 And I also looked at my skill in the 9 art -- evaluated with my skill in the art as 10 well. 11 Q. Did you consider any extrinsic 12 evidence? 13 A. I didn't hear you, counselor. 14 Q. Did you consider any extrinsic 15 evidence? 16 A. Yes, I did. 17 Q. Do you know what extrinsic evidence 18 is? 19 A. Extrinsic evidence is anything that's 20 not in the patent. Extrinsic evidence is all 21 based on the patents in the entirety -- 22 MS. HOEKEL: I don't think we can hear

Page 45 1 you, Dr. Yanulis. You are too close to the 2 microphone. 3 (Pause) 4 A. The best tool that I would have is 5 to -- trying to remember the question. Bear 6 with me. 7 Could you repeat the question again, 8 just so -- 9 Q. Sure. 10 What is your understanding of 11 extrinsic evidence? 12 A. Extrinsic, as an example, could be a 13 dictionary definition. It could be an article. 14 It could be an article that I found or it could 15 be an article that was found by the plaintiff; 16 or anything else that I, based on my skill, 17 found. 18 Q. Did you rely on any extrinsic evidence 19 in your analysis of the claims for this case? 20 A. Yes, I did. 21 Q. Is that extrinsic evidence listed in 22 the joint hearing statement that we were talking	Page 47 1 (Pause) 2 A. If it was relevant, I would include 3 it. 4 And I can't remember. I'd have to 5 look at all -- it's kind of cut off in some of 6 the exhibits you have given me, sir. 7 But to the best of my recollection, if 8 it was relevant, yes, but I would identify it as 9 extrinsic evidence, as opposed to intrinsic. 10 But my primary focus was the 11 intrinsic, which is the patents. 12 Q. What I would like to know now: Is 13 there any extrinsic evidence that you relied 14 upon in forming your opinions that is not set 15 forth in the joint hearing statement? 16 A. To the best of my knowledge, no. 17 (Pause) 18 Q. Is it your understanding that 19 indefiniteness is a claim construction issue? 20 A. Yes, it is. 21 But I'm not an attorney, so I can't 22 say much more than that.
Page 46 1 about earlier? 2 A. Can you give me a moment? 3 The best answer is basically -- if you 4 give me a moment, sir? 5 Q. Sure. 6 MR. CLAASSEN: Can you go ahead and 7 take down Exhibit 2, court reporter? 8 A. Basically I looked at the intrinsic 9 evidence for the claim construction. 10 Q. Okay. I'm asking now about the 11 extrinsic evidence. 12 And you said earlier, I believe, that 13 you considered some. 14 Is that right? 15 A. I considered them in the IPRs, sir. 16 Q. Is the extrinsic evidence that you 17 considered cited in your IPR declarations? 18 A. It is. 19 Q. Is the extrinsic evidence that you 20 considered also cited in the joint hearing 21 statement -- that's the Exhibit 1 -- that we 22 were talking about earlier?	Page 48 1 Q. So what is your understanding of the 2 legal test for indefiniteness? 3 (Pause) 4 A. Has the term been properly explained 5 in the specifications to be understood 6 adequately by one skilled in the art? 7 Q. You understand that there are separate 8 tests for something called written description, 9 right? 10 A. Correct. 11 Q. And there is something else called 12 enablement, right? 13 A. Yes. 14 Q. You understand that indefiniteness, 15 written description, and enablement are all 16 separate, right? 17 A. Yes, I do. 18 Q. So what is your understanding for what 19 makes a claim term indefinite? 20 MS. HOEKEL: I'm going to object to 21 the extent it calls for a legal conclusion. 22 But you can answer to the best of your

Page 49 1 ability, Dr. Yanulis. 2 A. To the best of my ability, when there 3 is a 112 issue, it's in reference to the claims 4 or a claim term. 5 (Pause) 6 Q. Do I understand correctly that your 7 opinion is certain claim terms are indefinite in 8 this case? 9 A. Yes, sir. 10 Q. How did you make that determination? 11 A. Again, I would first look at the 12 specs; and then go -- excuse me. 13 I'd look at the specs; then go to the 14 claims; then go back again and make sure there 15 was no discrepancy or any indefiniteness based 16 on my understanding. 17 Again, I'm not an attorney, but I'm 18 using my own previous skills. 19 Q. What would lead a claim term to be 20 indefinite in your understanding? 21 MS. HOEKEL: Same objection. 22 A. If it's not properly explained, again,	Page 51 1 analysis, are you looking at the claim itself? 2 A. I'm looking at the claim, specs, and 3 my expertise as a one skilled in the art. 4 Q. When you were provided your list of 5 claim term disputes by counsel, did it identify 6 terms that were indefinite? 7 (Pause) 8 A. Some of that was in the file 9 histories, as far as the office actions. 10 I would look at, you know, the way the 11 examiner would regard some of them as being 12 indefinite and not giving a proper disclosure of 13 what's being said in the claims. 14 Q. You understand that these were issued 15 patents that you were analyzing, right? 16 A. I understand that. 17 But I was also looking at the file 18 histories as the patent process approval was 19 continuing. So it was not looked in isolation. 20 Q. So what I'm trying to determine now is 21 who came up with the claim construction position 22 the terms were indefinite.
Page 50 1 for one skilled in the art, then it's an issue 2 of indefiniteness, 112. 3 Q. I know you keep saying "112." 4 Are you now saying something more than 5 indefiniteness? 6 A. I'm going to have to defer. That's my 7 best answer, because I'm not an attorney. 8 Q. So when you say that a claim term is 9 indefinite, what do you mean? 10 A. Do you want me to give you an example? 11 Q. Yes. 12 A. If you say "processor" without 13 describing what the processor can do adequately 14 in the claim, you just list "processor." 15 Q. So a claim that just says "processor" 16 and nothing more would be indefinite. 17 Is that correct? 18 A. If there was no proper antecedent 19 basis or any follow-up statements to make me 20 understand: Is it a processor, or what kind of 21 processor it is, or what it's capable of doing. 22 Q. And when you are performing that	Page 52 1 Was it you? 2 Or was it counsel? 3 A. Both. 4 Q. What terms did you determine were 5 indefinite? 6 MS. HOEKEL: Object to the form. 7 A. One example is the processor that I 8 already gave. 9 Another example would be the delay -- 10 the alarm delays. 11 Q. Are there any other examples? 12 A. Counselor, there is probably several. 13 Another one could be the term "a separate 14 computing device." 15 Q. That's indefinite in your opinion? 16 A. The way it may have been claimed. 17 (Pause) 18 Q. Do you set forth an opinion that 19 "separate computing device" is indefinite 20 anywhere? 21 A. I do in my -- I'm not sure I 22 understand the question.

Page 53 1 All I did was I evaluated the claims 2 being disputed. 3 So other than that, I haven't formally 4 written any kind of opinions. 5 But I did discuss in the IPRs my 6 opinions as to a term that may have been 7 indefinite in my opinion. 8 Q. So in your opinion, "separate 9 computing device" is indefinite? 10 MS. HOEKEL: Object to the form. 11 A. If it's missing certain antecedental 12 basis to understand what the processor is 13 capable of doing, or performing said function. 14 Q. I'd like to come back to that in a 15 little bit. We'll discuss it in more detail. 16 Do you understand that? 17 A. Yes, sir. 18 Q. Are there differences between the 19 claim construction standard for IPRs and for the 20 district court? 21 A. No, there is not. 22 Q. What is the claim construction	Page 55 1 plain and ordinary standard. 2 Other than that -- and my expertise. 3 That's basically the best answer I can 4 give. 5 Q. You applied the plain and ordinary 6 meaning and your expertise. 7 Is that correct? 8 A. In view of the specification and 9 claims, yes, sir. 10 Q. That was your process for construing 11 the claims in this case. 12 Is that right? 13 A. Yes. 14 Well, I didn't come up with these 15 terms. The district court did. I didn't know 16 what terms were being disputed until I saw this 17 exhibit. I had an idea what the claims were, 18 but I didn't know the terms. 19 Q. So is it your understanding that the 20 court came up with these terms? 21 MS. HOEKEL: Object to the form. 22 A. It's my understanding, counselor, that
Page 54 1 standard? 2 A. Plain and ordinary meaning, as given 3 by the expert -- in this case, myself. 4 Q. So plain and ordinary meaning, as 5 given by the expert? -- 6 A. No. 7 Q. -- that's your understanding? 8 A. I apply the standard of plain and 9 ordinary meaning. And I base that evaluation of 10 the disputed term based on what the term is, and 11 what my expertise is, and the specifications, 12 and the claims. 13 Q. So was it your job to help determine 14 the plain and ordinary meaning for the claim 15 terms? 16 A. As an expert, yes. 17 Q. Do all the claim terms in this case 18 have plain and ordinary meanings? 19 MS. HOEKEL: Object to the form. 20 A. I'm going to say I'm not sure how to 21 answer that question. 22 But what I will say: I applied the	Page 56 1 both sides developed their position on what the 2 terms of dispute. 3 And it was my job -- and again, I've 4 not written any full report of the claims being 5 disputed in the construction as set forth by the 6 district court. 7 Q. Is it your understanding that all the 8 words of the claim need to appear in the 9 specification? 10 A. Could you repeat the question, sir? 11 Q. Yes. 12 Is it your understanding that all the 13 words in the claim need to appear in the 14 specification? 15 A. It's my understanding, yes, that they 16 have to be properly disclosed. Everything has 17 to be disclosed related to what their function 18 and structure is. 19 Q. My question is a little different. 20 I'm asking: Does each word in the 21 claim need to appear in the specification? 22 A. The answer is: Yes.

Page 57 1 Q. If the word does not appear in the 2 specification, how do you interpret the claim? 3 A. I use my expertise as one skilled in 4 the art. 5 Q. So you recognize that there may be 6 terms that are known to a person of ordinary 7 skill in the art. 8 Is that right? 9 A. Yes, sir. 10 Q. And those words would not need to 11 appear in the specification. 12 Is that correct? 13 A. Based on that, yes. 14 Q. Does that apply to everything claimed? 15 MS. HOEKEL: Object to the form. 16 A. I'm not an attorney, so I can't really 17 give a real legal opinion of that question. 18 Q. Did Sotero's attorneys explain 19 "means-plus-function claiming" to you? 20 A. Yes, they did. 21 Q. What is your understanding of when a 22 claim recites a means-plus-function term?	Page 59 1 recites a means-plus-function term when there 2 are no means for recited in the claim? 3 MS. HOEKEL: Object to the form. 4 A. Could you repeat the question? 5 I need to think about that. 6 Q. Yes. 7 We talked about the presumption with 8 means for. 9 Is that right? 10 A. Yes. 11 Q. And sometimes claims can be 12 interpreted as means-plus-function without the 13 words "means for." 14 Is that right? 15 A. Yes, sir. 16 Q. When do claims result in a 17 means-plus-function construction when they don't 18 use the words "means for"? 19 MS. HOEKEL: Object to the form. 20 A. I'm not sure how to answer the 21 question other than the way that I've answered 22 it, counselor.
Page 58 1 A. In the claims as stated, there is 2 usually a means, which to me implies structure. 3 And then there is the function or 4 method that that particular structural element 5 can perform -- or potentially perform -- as 6 claimed. 7 Q. So I want to make sure that I 8 understand your answer correctly. 9 I believe you said that: Means 10 implies structure. 11 Is that what you meant? 12 MS. HOEKEL: Object to the form. 13 A. Again, I may be -- again, not an 14 attorney, so I can't give the most accurate 15 answer. 16 Q. Are you familiar with a presumption? 17 A. Yes. 18 Q. And you understand that there is a 19 presumption when the words "means for" appear in 20 the claims? 21 A. Yes. 22 Q. How do you determine when a claim	Page 60 1 Q. How did you determine in this case 2 when a means for construction was appropriate? 3 A. As an example, for the processor, you 4 can't just have a process of isolation. You 5 have to understand how the function is 6 performed -- for example, by an algorithm. 7 Q. So if a claim recites a function, is 8 that when means-plus-function applies? 9 MS. HOEKEL: Object to the form. 10 A. You are asking me the same question 11 over and over again, counselor. 12 I'm not really sure if I may be 13 misinterpreting. 14 But as, again, means-plus-function in 15 the claims as recited is evaluated based on my 16 skill in the art and the specifications as 17 disclosed. 18 Q. So a person of ordinary skill in the 19 art would understand when a claim recites a 20 means-plus-function term. 21 Is that right? 22 A. They should have a good understanding

Page 61 1 of it. 2 Q. And what would that understanding be 3 based on? 4 A. Now, do you want me to define what I 5 consider someone skilled in the art? 6 Q. Sure. 7 A. Sure. That might help -- rather than 8 repeating the same thing. 9 For one skilled in the art for this 10 particular set of patents and disputed claims, 11 you should have at least a Bachelor's degree in 12 either electrical and biomedical; as well as 13 work experience in that particular type of 14 device or said system; or have additional work 15 experience in those areas would also be helpful. 16 And have experience working with, for 17 example, pulse oximetry devices or other types 18 of ambulatory devices, monitoring, for example, 19 a heart rate, pulse rate. 20 Q. And that person -- 21 A. -- or -- 22 Q. -- go ahead.	Page 63 1 as my expertise as having a skill in that art 2 for that particular system. 3 Q. But you only identified a couple 4 means-plus-function constructions. 5 Is that right? 6 A. For the sake of time, yes. 7 Q. If you had more time, would you have 8 identified more? 9 A. I could add some more examples. 10 The issue of suspension buttons and 11 the function of suspension buttons. 12 Another couple examples would be the 13 wireless technology involved in measuring, for 14 example, pulse oximetry. 15 Another issue would be: How would the 16 parameters measured be transmitted? -- or 17 whatever. 18 I mean, I could go through an entire 19 list. 20 Does that help? 21 Q. And those would all be 22 means-plus-function terms.
Page 62 1 A. I'm sorry. I didn't mean to 2 interrupt. 3 Q. Did you finish your answer? 4 A. I was also going to say, of course, 5 pulse oximetry. 6 Q. That person of ordinary skill in the 7 art would understand when a claim recites a 8 means-plus-function term. 9 Is that right? 10 MS. HOEKEL: Object to the form. 11 A. I would say yes, from a -- yes. 12 Q. Wouldn't that person need some sort of 13 instruction from an attorney? 14 A. If I had a question, I would refer to 15 counsel if I didn't understand something. 16 Again, I'm not an attorney. 17 Q. So when you were performing your claim 18 construction analysis, how did you determine 19 when a claim in this case recited a 20 means-plus-function term? 21 A. I was evaluating the specifications 22 focusing on that in view of the claims, as well	Page 64 1 Is that right? 2 A. They should. 3 For example, a transmitter should have 4 means-plus-function. They should have the 5 structure and how that function is performed, 6 for example, by a pause button or suspension 7 button. 8 Q. So how do you determine when a claim 9 recites structure? 10 A. I know you don't want me to use the 11 word "figure." 12 But I look at the figure, in 13 combination with what's disclosed in the 14 specifications, and the detailed description of 15 the invention, and looking at all the elements. 16 Q. So is it your understanding that a 17 claim reciting something that's not shown in the 18 figures would not have structure? 19 MS. HOEKEL: Object to the form. 20 A. If it's not been properly disclosed, 21 yes. 22 Q. What do you mean by "properly

16 (Pages 61 to 64)

Page 65 1 disclosed"? 2 A. There had been proper support for, you 3 know, for that structure -- in other words, a 4 detailed discussion of how the subsystem was 5 assembled in the entire system, and how that 6 system -- or excuse me -- how that subsystem 7 performed that function. 8 It should be adequately disclosed, 9 again, for one skilled in the art, which I am. 10 Q. So how do you distinguish between when 11 a claim recites structure versus function? 12 MS. HOEKEL: Object to the form. 13 A. Structure to me means the physical 14 description of the system, whereas function 15 means what function or process is being -- or 16 method is being performed by said structure. 17 Q. Is that the process you followed in 18 this case? 19 A. Yes, it is. 20 Q. Did you follow any other process? 21 A. No. 22 MS. HOEKEL: Object.	Page 67 1 Q. So you are telling me someone with an 2 engineering degree and two years of work 3 experience might not know what a computer is? 4 A. Sir, you didn't say that. 5 You asked an ordinary person, 6 differentiating from one that's not skilled in 7 the art, if I understand you correctly. 8 Q. Okay. You misunderstood my question. 9 I'm asking about a person of ordinary 10 skill in the art. 11 Do you understand that? 12 A. Yes. 13 Q. Would a person of ordinary skill in 14 the art understand what a computer is? 15 A. Yes. 16 Q. Without looking at a patent 17 specification? 18 A. Yes, sir. 19 Q. Would a person of ordinary skill in 20 the art understand what a monitoring device is 21 without looking at a patent specification? 22 A. Yes, they would.
Page 66 1 BY MR. CLAASSEN: 2 Q. Would a person of ordinary skill in 3 the art understand what a computer is without 4 looking at a patent specification? 5 MS. HOEKEL: Objection. 6 A. It depends on that person's level of 7 education. There is a lot of people that use 8 computers and have trouble turning them on and 9 off. 10 Q. Okay. My question is a little 11 different. 12 I'm not asking if a person of ordinary 13 skill in the art would know how to use a 14 computer. 15 My question is: Would a person of 16 ordinary skill in the art understand what a 17 computer is without looking at a patent 18 specification? 19 MS. HOEKEL: Object to the form. 20 A. Same answer: Depends on his level of 21 education and how much instruction he's given 22 how to use said computer.	Page 68 1 Q. What is a monitoring device? 2 MS. HOEKEL: Object to the form. 3 A. A monitoring device allows the 4 physiological parameters being measured to 5 display -- 6 Q. -- does a computer -- 7 A. -- after they have been processed. 8 Q. I'm sorry. I interrupted you. 9 A. It's my understanding as an expert in 10 this field, a display of physiological 11 parameters as it relates to these nine patents 12 gives you a physical -- excuse me -- a visible 13 display of the measurements obtained after being 14 processed. 15 Q. What is a computer? 16 MS. HOEKEL: Object to the form. 17 A. A computer is a device that does 18 nothing unless you program an algorithm to do 19 something. A computer will do nothing unless 20 you tell it to do something. 21 Q. Is it any more than that? 22 MS. HOEKEL: Object to the form.

Page 69 1 A. In these patents, it may be, depending 2 on what's disclosed in the specification. 3 Q. Would person of ordinary skill in the 4 art understand "conventional bedside monitor"? 5 MS. HOEKEL: Object to the form. 6 A. As an expert, I understand. 7 I can't say other experts would. 8 Q. Now what I'm asking you is: Would a 9 person of ordinary skill in the art understand 10 "conventional bedside monitor"? 11 A. He should or she should. 12 Q. Would a person of ordinary skill in 13 the art understand "initiator"? 14 MS. HOEKEL: Object to the form. 15 A. He should, and I understand. 16 (Pause) 17 MR. CLAASSEN: We have been going now 18 for a little bit. Do you want to take about a 19 five-minute break? 20 MS. HOEKEL: Sure. 21 THE WITNESS: That would being 22 fantastic. Thanks, counselor.	Page 71 1 Do you remember that? 2 A. Yes. 3 MR. CLAASSEN: I'll ask the 4 videographer to bring it up on the screen now. 5 BY MR. CLAASSEN: 6 Q. And I'd like to turn back now to what 7 is page 15 of the PDF. And that's the beginning 8 of the chart, Dr. Yanulis. 9 Do you see that? 10 A. Yes, I have it on my screen. Thank 11 you. 12 Q. What is your understanding of this 13 chart? 14 A. In the first column is the claim 15 language and the terms -- these are the claim 16 language as determined -- as articulated in the 17 claims and for the patents. 18 But the important thing is your 19 construction and evidence, and my opinions of 20 the constructions as you proposed them, and my 21 evidence -- how I viewed it. 22 Q. So the right column -- that shows your
Page 70 1 THE VIDEOGRAPHER: The time is 1:47 2 p.m. Off the record. 3 (Recess from 1:47 p.m. to 2:01 p.m.) 4 THE VIDEOGRAPHER: We are back on the 5 record. The time is 2:01 p.m. 6 BY MR. CLAASSEN: 7 Q. Dr. Yanulis, we just took a little 8 break. 9 Is that right? 10 A. Yes, sir. 11 Q. Did you talk about the substance of 12 your testimony with counsel? 13 MS. HOEKEL: Object to the form, and 14 objection that it calls for privileged 15 testimony. 16 BY MR. CLAASSEN: 17 Q. You can answer the question. 18 A. No, I did not. 19 (Pause) 20 Q. I want to turn now to what I 21 introduced as Exhibit 1 earlier. That's the 22 joint hearing statement.	Page 72 1 opinions? 2 Is that correct? 3 A. To elaborate, what I -- for example, I 4 gave what I thought "a separate computing 5 device" meant, as an example. 6 Q. Let's start with that example. 7 What is your understanding of the 8 construction for "separate computing device"? 9 A. My understanding, in view of the 10 specification, and the claims, and my expertise 11 for one skilled in the art, and the way this 12 separate computing device has been disclosed in 13 the specs, reads on "a conventional bedside 14 monitor." 15 Q. When you say "reads on," what do you 16 mean? 17 A. I meant to say it is the same thing, 18 as it's been disclosed. 19 Q. So "separate computing device" means 20 "conventional bedside monitor." 21 Is that right? 22 A. In this case, the way the specs have

Page 73 1 been disclosed. 2 Q. Al I'm talking about right now is the 3 '735 patent, claim 20. 4 Do you understand that? 5 A. Yes, sir. 6 Q. And then also the '623 patent, claims 7 1, 6 -- see that list of claims? 8 A. Yes. 9 Q. So I'd like to have this discussion in 10 the context of those claims. 11 Do you understand that? 12 A. Yes. 13 Q. So you understand that third column 14 sets forth the defendants' proposed 15 construction, right? 16 A. Yes, I do. 17 Q. What's your understanding of the 18 defendants in the case? 19 MS. HOEKEL: Have object to the form. 20 BY MR. CLAASSEN: 21 Q. Who are the defendants in the case, 22 Dr. Yanulis?	Page 75 1 A. Yes, I did. 2 Q. When did you help prepare the chart? 3 A. I'm going to have to rephrase that. 4 No, I didn't. 5 This was the defendants' proposed 6 construction and evidence. I just provided my 7 evaluation. 8 I apologize. 9 Q. Okay. 10 What is your understanding of Masimo's 11 proposed construction? 12 A. As I have done, they are giving plain 13 and ordinary meaning to these terms. 14 Q. So they did what you have done? 15 MS. HOEKEL: Objection. 16 A. Up to -- 17 Q. You were answering. Go ahead. 18 A. Up to a point. 19 I may not agree with the way they have 20 construed it. 21 Q. What is your understanding of the 22 construction that Masimo proposes?
Page 74 1 A. The defendants are Sotero -- Sotero 2 Wireless, I believe, is the full name. 3 Q. Is it anyone else? 4 A. There was initially. But that -- I 5 believe that party no longer is involved. 6 Q. What's your understanding of that 7 party? 8 MS. HOEKEL: Object to the form. 9 A. I don't know that much about it. 10 But they, obviously, are not part of 11 the case from my understanding. 12 Q. Who informed you they are not part of 13 case? 14 MS. HOEKEL: Object to the form. 15 A. Counsel. 16 MS. HOEKEL: Let me get my objection 17 on the record please. 18 Object to the form, beyond the scope, 19 and relevance. 20 BY MR. CLAASSEN: 21 Q. Did you help prepare this chart, Dr. 22 Yanulis?	Page 76 1 A. For the term "a separate computing 2 device"? 3 Q. Yes. 4 A. And they are implying, as the chart 5 says, plain and ordinary meaning, no 6 construction necessary. 7 Q. At what point do you disagree with 8 Masimo's construction? 9 A. The fact, for one skilled in the art 10 looking at the specifications, it is nothing 11 more -- it is equivalent to a conventional 12 bedside monitor, as disclosed in the specs. 13 Q. Can it be anything other than a 14 conventional bedside monitor? 15 A. Sure, if it was disclosed in a 16 different way. 17 Q. What do you mean by that? 18 A. I'm basing the fact that I have said 19 it's a conventional bedside monitor, based on 20 reading the specs as disclosed in the patents, 21 and my skill in the art. 22 Q. I'd like to scroll down now about five

Page 77 1 pages to where it mentions your potential 2 testimony. 3 Are you familiar with that? 4 So it's going to be -- 5 A. Yes. 6 Q. -- 5 to 6, starting there. 7 So you see where it says: Defendants 8 may rely on Dr. Yanulis? 9 A. Give me a moment to read it, 10 counselor. 11 Q. Sure. 12 A. For all disputed claim terms, 13 Defendants have identified Dr. George Yanulis -- 14 myself -- as the expert who will provide 15 testimony -- 16 Q. Doctor, I don't want you to read that. 17 What I'd like to you focus on now 18 is -- do you see what's been highlighted in 19 yellow on the screen? 20 A. Yes. 21 Q. Then that continues on. 22 You understand that this is describing	Page 79 1 to be limited to wearable transmitter wirelessly 2 transmitting data to the conventional bedside 3 monitor using a specific receiver unit 4 configured to function with a conventional 5 bedside monitor, that the spec -- 6 Q. I'd like to focus on the words 7 "invention scope." 8 Do you see those? 9 A. Yes. 10 Q. They are highlighted in yellow on the 11 screen in Exhibit 1? 12 A. Yes, sir. 13 Q. What's your understanding of the 14 invention scope within this statement? 15 A. I'm not reading it just that in 16 isolation. I'm reading the whole paragraph. 17 Q. What does the whole paragraph mean? 18 A. The whole paragraph is describing the 19 function and why -- the means-plus-function 20 why -- how I propose evaluating why the 21 defendants' proposed construction of evidence 22 is.
Page 78 1 what the defendants may rely on you to do. 2 Is that right? 3 A. Correct. 4 Q. Let's scroll down to the next page 5 then. 6 You understand that this column on the 7 right continues that statement. 8 Is that correct? 9 A. Yes, I do. 10 Q. I'd like now to focus on where it 11 says: Limited to a wearable transmitter. 12 Do you see that? 13 A. Yes, I do. 14 Q. And you say, in introducing that: The 15 invention scope to be limited. 16 Is that the right way to read this -- 17 "the invention scope to be limited"? 18 It's two lines out from what's 19 highlighted in yellow -- "invention scope"? 20 A. Yes, sir. I was about to say I 21 wouldn't read this. I would read the passage: 22 The invention scope of the '735 and '623 Patents	Page 80 1 I mean, that's the purpose of our 2 discussion today is getting my opinions and why 3 it was proposed this way. 4 Q. I want to make sure I heard you right. 5 You said: Means-plus-function. 6 Is that right? 7 A. No, I misspoke. It's not 8 means-plus-function. 9 Q. So what does this paragraph mean to 10 you? 11 A. It's telling me the limitations of the 12 device or system that's been disclosed in the 13 specifications. 14 Q. You understand that you are giving an 15 opinion on the meaning of "separate computing 16 device," right? 17 A. I'm giving my opinion that this 18 so-called separate computing device is 19 equivalent to a conventional bedside monitor. 20 Q. What I'm trying to figure out now is: 21 Are you saying it's equivalent to? 22 Or it is a conventional bedside

20 (Pages 77 to 80)

Page 81 1 monitor? 2 A. Based on the way the specifications -- 3 yes. 4 MS. HOEKEL: Dr. Yanulis, we can't 5 hear you when you lean in. 6 THE WITNESS: I apologize. Can you 7 hear me now? 8 MS. HOEKEL: Now we can. 9 A. My opinions -- and they have not 10 changed -- is, after evaluating the claims and 11 in view of the specification which includes the 12 figures, I'm saying that my opinions, as one 13 skilled in the art, is this particular so-called 14 separate computing device is exactly a so-called 15 conventional bedside monitor which has been used 16 for several years now. 17 That's all I'm saying. 18 Q. Okay. 19 So "separate computing device" means 20 "conventional bedside monitor," right? 21 A. As it's been disclosed in the 22 specifications.	Page 83 1 physiological parameters being measured in some 2 way. 3 Q. Okay. 4 Does it have to have a specific 5 receiver unit to do that? 6 A. Not necessarily. But the way it's 7 been disclosed, this is the way I understand it. 8 Q. What I'm trying to understand is: Is 9 your understanding of separate computing device 10 also include a specific receiver unit? 11 (Pause) 12 A. That it includes a transmitting or a 13 means to wirelessly transmit the data -- it's 14 been written -- into the conventional bedside 15 monitor -- or to the conventional bedside 16 monitor. 17 Q. Okay. 18 You said "transmitting," I believe. 19 Does the separate computing device 20 transmit in this claim? 21 A. No, not directly. But it has to 22 have -- the parameters being measured has to be
Page 82 1 Q. Why did you also then include the 2 "using a specific receiver unit"? 3 Do you see that? 4 A. Because I was limiting -- I was 5 providing what the device as claimed should have 6 read. 7 Q. So it should have read: Conventional 8 bedside monitor using a specific receiver unit. 9 Is that correct? 10 MS. HOEKEL: Object to the form. 11 THE WITNESS: Could you repeat the 12 question again, counselor? 13 MR. CLAASSEN: Yeah. 14 BY MR. CLAASSEN: 15 Q. What I'm trying to figure out here is 16 it says: Using a specific receiver unit. 17 Do you see that? 18 A. Yes, I do. 19 Q. What is the purpose for including 20 "using a specific receiver unit" in this 21 paragraph? 22 A. The system has to receive the	Page 84 1 transmitted to the conventional bedside monitor 2 to be visible to the clinician. 3 Q. So they have to be received by the 4 separate computing device. 5 Is that right? 6 A. Yes. 7 Q. And where are they received in the 8 separate computing device? 9 (Pause) 10 A. They are received by -- by the 11 so-called conventional bedside monitor. It 12 allows you to do that. 13 Q. Does the conventional bedside monitor 14 have to have a specific receiver unit in order 15 to do that? 16 A. No. But based on the way the specs 17 are written, this is my understanding. 18 Q. So how did you draw the line between 19 what the separate computing device had to have? 20 It had to be a separate -- or it had 21 to be a conventional bedside monitor. 22 Is that right?

21 (Pages 81 to 84)

Page 85 1 A. I never used the word: Had. 2 And if I had, I apologize. 3 What I meant to say: This is what the 4 spec says. And that's all I'm going by. 5 Q. The spec says that the separate 6 computing device has to be a conventional 7 bedside monitor. 8 Is that your understanding? 9 A. The way I'm understanding the way the 10 specs are written. 11 Q. So it must be a conventional bedside 12 monitor. 13 Is that right? 14 A. The way they have disclosed it, it is 15 exactly the way a conventional bedside monitor 16 operates and functions, having worked with these 17 devices. 18 Q. What about the specific receiver unit? 19 MS. HOEKEL: Object to the form. 20 A. I'd have to go back to the 21 specifications to show you the exact line. 22 But working from memory, the way this	Page 87 1 Is that right? 2 A. Yes. 3 Q. I want to scroll back now to page 1 of 4 this Exhibit 1. The PDF page is 15. 5 A. Okay. 6 Q. You see the construction that Sotera 7 proposed there in the third column? 8 A. Counselor, are you referring to page 9 1? 10 Q. It's shown on the screen right now, if 11 that would be helpful to you. 12 A. Okay, I see where you have highlighted 13 it. 14 Q. You see where it says: Conventional 15 bedside monitor? 16 A. Yes. 17 Q. That's your understanding of the 18 meaning of separate computing device, right? 19 A. The way Masimo has disclosed it in 20 their patent specs, yes. 21 Q. But it doesn't say anything about a 22 specific receiver unit, does it?
Page 86 1 device -- as disclosed by Masimo in their patent 2 or these two patents -- it is functioning as a 3 conventional bedside monitor. 4 Q. Is it your understanding that a 5 specific receiver unit is part of the claims of 6 the '735 patent? 7 A. The claims are -- I'm not looking at 8 the claims in isolation. I'm looking at the 9 claims in terms of the specs as well. 10 Maybe I'm not making that clear. 11 Q. Okay. 12 So when you are looking at the claims 13 of the '735 patent, and you see the "separate 14 computing device," your understanding is that 15 that is a conventional bedside monitor, right? 16 A. Yes, I do. 17 Q. Does that conventional bedside monitor 18 also need to include a specific receiver unit? 19 A. Again, that's what the specs of the 20 patent says. 21 Q. So it must include the specific 22 receiver unit.	Page 88 1 A. No, it does not. 2 Q. Does "specific receiver unit" appear 3 in the claims itself? 4 A. Can I look at the claim again? 5 Q. Yes, it's shown in column 1, for 6 example. 7 A. I can flip back, counselor. You don't 8 have to share. 9 Q. No, it's shown on the screen right 10 now, Dr. Yanulis, in column 1. 11 A. Okay. 12 Q. Can you read that? 13 A. I didn't hear the question. I heard 14 what you said about reading the top line. 15 Q. Are you able to read that claim in the 16 left column, claim 20 from the '735 patent? 17 A. As how is Masimo a separate computing 18 device? 19 Q. No. 20 My question is: Does it mention 21 anything about a specific receiver unit? 22 A. No, it does not.

22 (Pages 85 to 88)

Page 89 1 Q. So I'd like to scroll then back down 2 to page 5 and 6 that we were looking at before. 3 I guess it's page 6. 4 (Pause) 5 Q. You see the words "using a specific 6 receiver unit," right? -- in the right-hand 7 column? 8 (Pause) 9 A. I'm not sure I'm -- I'm looking at the 10 page. But -- can you highlight the section that 11 you are referring to? 12 Q. Sure. 13 It is -- it begins six lines down: 14 Using a specific receiver unit. 15 MR. CLAASSEN: On page 6, 16 videographer. Right column, please. 17 Using -- at the end of that line where 18 your cursor is. 19 THE WITNESS: I have that, sir -- 20 "bedside monitor using a specific receiver." 21 BY MR. CLAASSEN: 22 Q. So you see that -- "using a specific	Page 91 1 Q. If the court adopts your construction, 2 does it include using a specific receiver unit? 3 A. That's if they agree. This is just a 4 proposed construction by the district court. 5 Q. So if the district court agrees with 6 your construction, it includes using a specific 7 receiver unit, right? 8 A. To the best of my knowledge, yes. 9 Q. That specific receiver unit is not 10 part of Sotero's construction, right? 11 A. Correct. 12 Q. So you propose a different 13 construction, right? 14 A. No, sir, I'm not. I'm looking at the 15 disputed eight terms as proposed by the court's 16 listing the way Masimo would like the claims to 17 be constructed, or using plain and ordinary 18 meaning, versus Sotero's position on why they 19 don't agree with that term or the way it's 20 evaluated or used. 21 Q. Have you provided any other opinions 22 on the construction of the terms in the '735
Page 90 1 receiver unit"? 2 A. Yes. 3 Q. Is that part of the claims of the '735 4 patent? 5 A. No, that's the defendants' proposed 6 construction. 7 Q. So defendants' proposed construction 8 includes a specific receiver unit. 9 Is that correct? 10 A. Correct. 11 Q. Is it your understanding that a 12 specific receiver unit is also part of the 13 claims of the '623 patent? 14 A. To the best of my knowledge, yes. 15 (Pause) 16 Q. And the claims as you understand them 17 are limited to using a specific receiver unit. 18 Is that correct? 19 A. No. I'm not saying that. 20 What I'm saying -- this is the way 21 they should be construed, the claims. This is 22 the position I'm taking and agreeing to.	Page 92 1 patent? 2 MS. HOEKEL: Object to the form. 3 A. Could you repeat the question again, 4 counselor? 5 Q. Sure. 6 Have you provided any other opinions 7 on the construction of terms in the '735 patent? 8 A. No. 9 Q. Did you provide any opinion on the 10 construction of terms for your IPR declaration 11 for the '735 patent? 12 MS. HOEKEL: Object to the form. 13 I don't think it's fair to have this 14 being be a memory test; plus the IPR declaration 15 is not an issue in this particular proceeding. 16 (Pause) 17 A. To the best of my memory, I did 18 provide opinions on some of the terms as I 19 discussed earlier in my IPRs, but as a separate 20 exercise. 21 I don't really want to discuss -- I'm 22 not really able to answer other than the fact is

Page 93 1 I'd have to look at the specific IPRs to answer 2 accurately. 3 Q. Did you consider the evidence cited by 4 Masimo in support of its proposed constructions? 5 A. That, I did do. 6 Q. I want to scroll up, then, to page 2. 7 MS. HOEKEL: Page 2 of what? I'm 8 sorry. 9 MR. CLAASSEN: Page 2 of this Exhibit 10 1, which is -- what I want to look at is page 2 11 of the joint claim construction chart. It's up 12 on the screen now. 13 Do you see that, Dr. Yanulis? 14 A. Yes, I do. 15 But could you highlight exactly what 16 section you want me to -- 17 Q. Okay -- I'm just making sure you can 18 see it on the screen so far. 19 A. Yes, I do. I'm sorry. 20 Q. And you considered the extrinsic 21 evidence that Masimo cited in support of its 22 construction, right?	Page 95 1 Is that right? 2 A. Yes, sir, I did. 3 MR. CLAASSEN: I'd like you to pull 4 out now what's been labeled as Exhibit No. 3. 5 And that's your declaration. That's the 6 declaration we were just talking about. 7 THE WITNESS: Give me a second, 8 counselor. 9 MR. CLAASSEN: Yes. 10 THE WITNESS: Let me make sure you are 11 asking me about Exhibit 3, sir? 12 MR. CLAASSEN: Yes. 13 THE WITNESS: Give me a moment. 14 Yes, sir, I have it. 15 BY MR. CLAASSEN: 16 Q. That's your declaration regarding the 17 '735 patent. 18 Is that right? 19 A. Yes, sir, it is. 20 Q. Does this Exhibit 3 appear to be 21 complete to you? 22 A. Yes, it does.
Page 94 1 A. Yes, I did. 2 Q. And you see that there is a petition 3 cited there for the '735 patent? 4 A. I didn't hear you, sir. 5 Q. You see that there is a petition 6 listed there for the '735 patent. 7 Is that correct? 8 A. Yes. 9 Q. And you see that further down on the 10 page, there is a declaration from you in support 11 of that IPR? 12 A. Yes, I do, sir. 13 Q. So you understand that that's part of 14 the evidence that Masimo is relying on, right? 15 MS. HOEKEL: Object to the form. 16 A. As Masimo relies on it for their 17 proposed constructions. 18 Doesn't mean I rely on it. 19 Q. You considered it, right? 20 A. Yes. 21 Q. You reviewed that in preparing for the 22 deposition today.	Page 96 1 MR. CLAASSEN: I'd like the court 2 reporter to mark Exhibit 3 for the record. 3 (Exhibit 3, Document Bates stamped 4 MAS0020688 through 20850, multipage document 5 entitled: Declaration of George E. Yanulis in 6 Support of Petition for Inter Partes Review of 7 U.S. Patent No. 9,788,735, dated May 18, 2020, 8 marked for identification) 9 BY MR. CLAASSEN: 10 Q. Did you write this declaration, Dr. 11 Yanulis? 12 A. Yes, I did. 13 Q. In it, you provide an overview of the 14 '735 patent, right? 15 A. Yes, I did, as well as any other 16 information relevant to the declaration. 17 Q. There is a section in this declaration 18 on claim construction, right? 19 A. Yes, there is. I'd have to look and 20 see what that is -- but, yes. 21 Q. Okay. We'll talk about that in just a 22 couple minutes.

Page 97 1 (Pause) 2 Q. I'd like to start with paragraph 21. 3 A. I didn't hear what you said, 4 counselor. 5 Q. I'd like to start with paragraph 21. 6 That's on page 8, and it's also Bates marked 7 MAS0020715. 8 A. Yes, I'm at that page now. 9 MS. HOEKEL: I would like just a 10 continuing objection so I don't have to keep 11 interrupting -- that it is defendants' position 12 that the IPR declaration, even though cited by 13 Masimo in its claim construction chart, is not 14 relevant to the current dispute. 15 MR. CLAASSEN: Understood. We 16 respectfully disagree. 17 (Pause) 18 BY MR. CLAASSEN: 19 Q. So you see paragraph 21 there, Dr. 20 Yanulis? 21 A. Yes, I do. 22 Q. The first sentence there describes	Page 99 1 MS. HOEKEL: Object to the form, 2 incomplete. 3 Q. Do you understand the question? 4 A. I did understand the question. 5 Q. You can answer it? 6 A. The answer is: Yes. 7 Q. What's your understanding of 8 "untethering" in this paragraph? 9 A. Untethering, from my experience, as an 10 example, would apply if you are transferring a 11 patient, for example, to a critical care unit, 12 or to a step down unit, or to another facility, 13 such as the operating room, etc. 14 (Pause) 15 A. "Untethering" means just to "remove." 16 (Pause) 17 A. Are you there? 18 Q. Yes, thank you. 19 A. Can I continue on with it? 20 Q. If you have more to add, go ahead. 21 A. Not at this point, no, I don't. 22 (Pause)
Page 98 1 wirelessly transferring sensor data to another 2 device, right? 3 A. Yes, it does. 4 Q. So you understood that to be part of 5 the '735 patent, right? 6 A. Yes, sir, I did. 7 Q. When you wrote this overview of the 8 patent, were you writing that from the 9 perspective of a person of ordinary skill in the 10 art? 11 A. Yes, I did. 12 (Pause) 13 Q. Paragraph 21 continues with a next 14 sentence. 15 Do you see that? 16 It describes the general idea of 17 untethering patient sensors from a conventional 18 bedside monitor? 19 A. Yes, I see that, sir. 20 Q. So you understood that the general 21 idea was to untether the patient from that 22 conventional bedside monitor, right?	Page 100 1 Q. Turning now down to paragraph 22? 2 A. Okay, I'm there, thanks, counselor. 3 Q. About the fifth line -- you see the 4 fifth line there? 5 It begins: The '735 specification 6 focuses on this transmitter/receiver system? 7 Do you see that? 8 A. Yes, I do. 9 Q. Is that stated somewhere in the patent 10 itself, as far as you are aware? 11 A. Yes. 12 Q. Where is that? 13 A. Let me think about that for a second, 14 counselor -- 15 Q. Okay. 16 A. -- before I answer. 17 The statement, the way I had written 18 it, implies that it's directed. It may not be 19 claimed as such. There is a difference -- the 20 way I understood the specs to read. 21 Q. So the specification is focused on 22 that transmitter receiver system.

Page 101 1 Is that right? 2 A. Yes, it is, sir. 3 Q. How does that focus impact the 4 construction of the terms in the '735 patent? 5 A. Can we -- again, based on my memory of 6 the claims as written, it doesn't provide this 7 limitation, if I remember correctly. 8 (Pause) 9 THE WITNESS: Can you hear me okay, 10 counselor? 11 MR. CLAASSEN: I can, thank you. 12 I'm taking a look at the transcript to 13 make sure I understood your response correctly. 14 So I can hear you. There is just a little bit 15 of delay on my end. 16 THE WITNESS: Please let me know at 17 any time if you don't hear me. Sometimes I bend 18 back in the chair. 19 MR. CLAASSEN: I think the only time 20 we haven't really been able to hear you is when 21 you lean forward and to the right a little. 22 THE WITNESS: Oh, okay.	Page 103 1 Q. Okay, you can stop there. I want to 2 ask you just about that sentence right now. 3 A. Okay. 4 Q. So you see the sentence you just read? 5 A. Yes. 6 Q. You mentioned: The nine figures focus 7 solely on the unclaimed receiver module. 8 Do you see that -- "unclaimed receiver 9 module"? 10 A. Yes. 11 Q. What do you mean by "unclaimed 12 receiver module"? 13 A. They haven't claimed it. They haven't 14 listed it as part of the claim. 15 Q. Is that different than the specific 16 receiver unit we were talking about just a few 17 minutes ago? 18 A. Based on the specifications as 19 written, they are the same thing. 20 Q. Here you recognize that it's not 21 claimed, right? 22 A. Yes.
Page 102 1 (Pause) 2 BY MR. CLAASSEN: 3 Q. Continuing with that paragraph 22 that 4 we were just looking at, do you see the nine 5 figure sentence that starts right after the 6 sentence we just highlighted: Indeed, nine 7 figures? 8 Do you see that? 9 A. If I may, I want to read it in the 10 whole context. 11 Q. Yeah, go ahead. I just want to direct 12 your attention to it. 13 A. Yes, I'm there. 14 May I read the statement? 15 Q. Please do. 16 A. Indeed, the nine figures of the '735 17 Patent focus solely on the unclaimed receiver 18 module that plugs into a conventional bedside 19 monitor. Exhibit 1001, Figures 3, 5A through C, 20 7, 9, 11, 12, and lines 14 -- excuse me -- 21 column 14, lines 1 through 16 -- in the 22 statement as written. Also, I note --	Page 104 1 Q. Does the specification have an 2 embodiment without the unclaimed receiver 3 module? 4 A. I'd have to look at all the specs, but 5 I'm sure it does. I don't know them by memory. 6 (Pause) 7 Q. You understand that Masimo has other 8 patents that claim this receiver module, right? 9 A. Yes, sir, I do. 10 (Pause) 11 Q. Now I want to move to paragraph -- 12 page 12, beginning at paragraph 27. That's your 13 opinion on the level of ordinary skill in the 14 art. 15 Do you see that? 16 MR. CLAASSEN: Videographer, can you 17 take down that highlighted section for now? You 18 can highlight the B section for Dr. Yanulis so 19 he can see what we are talking about. 20 A. Reading that statement so it's in the 21 court record: I have knowledge relevant to what 22 a person having ordinary skill in the art at the

Page 105 1 time of invention would understand and do. In 2 2002, at the priority date of the '735, I had 20 3 years of experience in the field and was a 4 person of ordinary skill in the art. 5 Q. How did that level of ordinary skill 6 in the art that you opined on impact your 7 analysis? 8 A. I was using it as a basis of forming 9 my opinions. 10 Q. In what way? 11 A. In terms of what was being disclosed 12 in the '735 and what my experience in the field 13 related to the '735 patent had disclosed. 14 Q. So were you relying on what a person 15 of ordinary skill in the art would see? 16 Or your 20 years of experience? 17 A. I've had 20 years experience in 18 designing monitoring systems. I've been in the 19 operating room as a clinical engineer. I have 20 been in other clinical care environments. And I 21 have been involved in design and develop of 22 these types of systems.	Page 107 1 A. The answer is: Yes. 2 Q. What did you do? 3 A. I realize that everybody doesn't have 4 a Ph.D. in biomedical engineering, number one. 5 And everybody doesn't have at least 10 years of 6 clinical engineering design and having 7 experience to do that. 8 But, again, if the person, again, has 9 the B.S. in biomedical engineering and has some 10 additional work experience in design and 11 development of these systems, I can agree that 12 these opinions were properly formed. 13 Q. When was the last time you worked with 14 a person of ordinary skill in the art? 15 A. I've had two other -- excuse me -- I 16 have had three other patent cases, one that just 17 finished and I have another patent case where I 18 am involved with -- I can't discuss what it is. 19 And I am looking at what their 20 expert -- who has ordinary skill in the art -- 21 so at least four or five times. 22 Q. So my question is slightly different.
Page 106 1 Q. So you are beyond a person of ordinary 2 skill in the art, right? 3 A. Yes. 4 Q. Well beyond? 5 A. Yes. 6 Q. You have a degree, right? 7 A. Yes. 8 Q. And you have 20 years of experience? 9 A. Yes. 10 Q. So you are well beyond your definition 11 of a person of ordinary skill in the art, right? 12 A. What I'm saying in this is the minimal 13 requirement would have to have this ordinary 14 skill to understand it. 15 I may have additional work 16 experiences, but I'm just basing it on what my 17 experience was in research and design and being 18 involved in seeing these monitoring systems used 19 in different critical care environments. 20 Q. Did you do anything to put yourself in 21 the shoes of a person of ordinary skill in the 22 art versus your 20 years experience?	Page 108 1 When was the last time you had 2 experience with someone who had graduated from 3 engineering school and had two years of work 4 experience? 5 A. The last -- the patent I'm involved 6 with. 7 Q. Outside the patent context now, what I 8 want to talk about is: Do you have any 9 experience working with a person of ordinary 10 skill in the art? 11 A. The answer is: Yes. 12 Q. When was the last time you worked with 13 that type of person? 14 A. As a faculty member at Temple where I 15 had to work with graduate students in biomedical 16 engineering to understand research and design. 17 And that was 2016. 18 Q. So you are very familiar with what a 19 person of ordinary skill in the art would 20 understand, right? 21 A. Yes, sir, I am -- I believe I am. 22 Q. I want to direct your attention now

Page 109 1 down to paragraph 29. 2 Do you see that paragraph? 3 A. Yes, sir. 4 Q. The second sentence in that 5 paragraph -- do you see that? -- that the 6 claims' scope focuses on the housing 7 configuration? 8 Do you see that? 9 A. Yes, I do. 10 Q. Then it continues: Not on the 11 electrical technology that facilitates 12 communication with medical sensors or wireless 13 data transmission. 14 Right? 15 A. Yes, I do. 16 (Pause) 17 Q. Do you agree with that statement as 18 you sit here today? 19 A. I agree with that statement, but I'd 20 like to read the rest of the statement for the 21 court reporter. 22 Q. We have the exhibit in the record. I	Page 111 1 (Pause) 2 Q. You understood that the claims also 3 included other features, right? 4 A. Yes, sir, I did. 5 Q. Does that include the wireless 6 transmission? 7 A. I'm not sure I understand the context 8 in which you are asking me that question. 9 Q. Did the claims include wireless 10 transmission? 11 A. I'm saying what they should have been 12 directed. And a lot of the claims did discuss 13 wire management. 14 Q. I'm asking a different question now. 15 Did the claims also include wireless 16 transmission? 17 A. Some of them do. 18 Q. Was wireless transmission conventional 19 at the time of the invention? 20 A. Yes, it was. 21 Q. Was a computing device conventional at 22 the time of the invention?
Page 110 1 don't think you need to read it. 2 A. Yes, I agree with everything that's 3 written. 4 Q. Down near the bottom of the paragraph, 5 the second-to-last sentence says: Thus, the 6 claims are directed mostly to wire management. 7 Do you see that? 8 A. Yes, I do. 9 Q. How did that impact your analysis of 10 claims for construction? 11 A. Because my experiences with these 12 types of devices, patient comfort is not always 13 considered. And a patient needs to be -- you 14 need to be concerned with patient comfort. 15 Q. So patient comfort is important, 16 right? 17 A. Yes, the patient is very scared to 18 begin with and you are trying to minimize 19 anxiety. 20 Q. Did that impact your analysis of 21 claims -- the construction of any of the claims? 22 A. No.	Page 112 1 A. Yes, it was. 2 Q. How much disclosure in the 3 specification is needed for something that's 4 conventional? 5 MS. HOEKEL: Object to the form. 6 A. Can you repeat the question, 7 counselor? 8 Q. What is your understanding of how much 9 disclosure is needed in the specification for 10 something conventional? 11 A. Enough to understand that it's being 12 used as I believe it's being used. And I 13 understand it as an expert as a conventional 14 bedside manner. 15 (Pause) 16 Q. If the claims recited a light emitting 17 diode, does the specification need to describe a 18 light emitting diode? 19 A. No, because one skilled in the art 20 like myself knows what an LED is and how it's -- 21 Q. Does one skilled in the art also know 22 what a computing device is?

Page 113 1 A. He or she should. And I do. 2 Q. And does a person of ordinary skill in 3 the art understand what wireless transmission 4 is? 5 A. They should. 6 Q. I want to move now to claim 14 of your 7 declaration. And that's the section that 8 starts: Claim construction. 9 Do you see that? 10 A. Yes. 11 MS. HOEKEL: Just continue my 12 objection that this is irrelevant to the 13 disputed issue and seems to be being used as a 14 deposition for the IPR, not for the claim 15 construction exercise. 16 MR. CLAASSEN: Okay. 17 BY MR. CLAASSEN: 18 Q. I'm going to direct your attention now 19 to paragraph 34. 20 Do you see that? 21 A. Yes, I do, sir. 22 Q. You say there that: I believe that	Page 115 1 the support of the prior art, which I have 2 identified, which invalidates the claims as 3 written in these particular patents. 4 Whereas the construction terms -- 5 construed by the court and agreed to be 6 discussed by both parties -- is a different 7 exercise because it implies additional. 8 Other than invalidity, you are also 9 concerned with infringement and more precise 10 definitions of the terms disputed. 11 So there are two distinct exercises. 12 Q. So the claims should be construed 13 differently in the different venues. 14 Is that right? 15 A. I never said that. 16 You are still using plain ordinary 17 meaning. Maybe I'm not articulating correctly. 18 What I'm trying to say is, for the 19 purposes of the discussion of the eight disputed 20 term, you are looking for the most precise 21 terminology as it's discussed, construed by both 22 sides.
Page 114 1 all claim terms, for purposes of the inter 2 partes review can be given their plain and 3 ordinary meaning. 4 Right? 5 A. And I agree with that statement. 6 Q. You do? 7 A. Which is why I put it in there. 8 Q. For separate computing device, how is 9 that different from Masimo's construction in the 10 district court? 11 MS. HOEKEL: Object to the form. 12 A. This is the IPR. It's not the 13 disputed terms. The IPR is not the same 14 exercise as evaluation of construction of 15 disputed terms. 16 Q. What's different about it for purposes 17 of claim construction? 18 A. In terms of claim construction, in the 19 IPRs were concerned only with invalidating based 20 on the prior art. The claims, as such, by both 21 parties are invalid. 22 What we are looking at in the IPRs is	Page 116 1 This is not what's being discussed in 2 the IPR. 3 Q. So is it your understanding that 4 "conventional bedside monitor" is the plain and 5 ordinary meaning of "separate computing device"? 6 A. Yes, it is. 7 Q. So you think the parties agree that 8 the plain and ordinary meaning applies. 9 Is that right? 10 MS. HOEKEL: Object to the form. 11 In what context are we talking about? 12 BY MR. CLAASSEN: 13 Q. Let's talk about the district court. 14 MR. CHEN: If I may interject, I am 15 curious because I'm on the west coast. When do 16 you plan to take a lunch break? 17 MR. CLAASSEN: 15 minutes or so. 18 MR. CHEN: Okay. Thanks. 19 THE WITNESS: Could you repeat your 20 question, counselor? 21 MR. CLAASSEN: Yes. 22

Page 117 1 BY MR. CLAASSEN: 2 Q. Is it your understanding that Sotero's 3 construction in the district court is the plain 4 and ordinary meaning? 5 A. It's both sides -- for the purpose of 6 looking -- excuse me -- giving plain and 7 ordinary meaning. Doesn't matter if we are 8 talking about IPRs. 9 But for the this purpose, again, we 10 are talking about IPRs. 11 Q. I understand. 12 A. And if we were talking about the 13 so-called construction of claims as developed by 14 district court, you go a little bit further. 15 As I said, it's not just invalidity in 16 this case. And that's why the terms are much 17 more important. 18 The only thing we are looking at the 19 IPRs -- as I have said a couple of times -- is 20 the IPR -- the claims are invalid for both 21 sides. They haven't been construed by the court 22 yet. We are looking at the invalidity based on	Page 119 1 I keep repeating: You still give it 2 plain and ordinary meaning. 3 But, again, the claims are invalid on 4 both sides. It doesn't come into play until we 5 discuss the district court's construction of 6 claims and the two sides -- the way they -- the 7 claims. 8 This has not been discussed -- 9 MR. CLAASSEN: Dr. Yanulis, you need 10 to lean back. 11 THE WITNESS: Can you hear me okay 12 now? 13 MR. CLAASSEN: Yes. 14 A. So we are not talking about whether -- 15 other than the fact -- I'm looking at all the 16 IPRs written is to see, using plain and ordinary 17 meaning -- nothing more -- which is the standard 18 for both. 19 But in this case I'm looking to see if 20 the patents are invalidated by the prior art. 21 And I have showed that. 22 Q. Okay.
Page 118 1 the prior art, which I disclosed in all of the 2 IPRs -- nothing more, nothing less. 3 Q. You understand that Sotero's 4 construction in the District Court of "separate 5 computing device" is "conventional bedside 6 monitor," right? 7 A. Yes. 8 Q. Is that construction set forth 9 anywhere in your IPR declaration? 10 A. Not -- no, it's not. 11 Q. Is a conventional bedside monitor 12 different than the plain and ordinary meaning? 13 A. No, it's not. Still given plain and 14 ordinary meaning in the IPRs and in the 15 so-called disputed claims. 16 But we are going a little further with 17 the claims disputed. It's not the same thing. 18 Q. So it's appropriate to apply a 19 different claim construction for an IPR than it 20 is for the district court. 21 Is that right? 22 A. No, sir.	Page 120 1 So you showed where the prior art 2 teaches that a separate computing device is a 3 conventional bedside monitor. 4 Is that right? 5 MS. HOEKEL: Object to the form. 6 MR. CLAASSEN: Let me ask it 7 differently. 8 BY MR. CLAASSEN: 9 Q. Which prior art that you relied on in 10 this IPR shows that a device -- that a separate 11 computing device is a conventional bedside 12 monitor? 13 MS. HOEKEL: Object to the form. 14 This is way beyond the scope of what 15 the deposition is supposed to be, which is claim 16 construction of the district court. 17 And we are now continuing even further 18 down the line of prior art and the IPR. 19 BY MR. CLAASSEN: 20 Q. Dr. Yanulis, you just told me your 21 opinion is that you applied the claim 22 constructions from both sides, right?

Page 121 1 A. No. 2 Q. Okay. 3 What did you do? 4 A. What I had done is applied a standard 5 of plain and ordinary meaning for all the claim 6 terms being disagreed upon by both sides. 7 But I'm telling the correct way, as an 8 expert, how I would apply those terms. 9 And it's not the same thing in the 10 IPR. 11 All I've discussed in the IPR is 12 invalidity based on prior art. 13 Q. But this section says: Claim 14 construction. 15 Right? 16 A. Yes, it does. 17 Q. And you gave an opinion on claim 18 construction, right? 19 A. Yes, I did. 20 Q. And it's different from the opinion in 21 the district court. 22 Isn't that right?	Page 123 1 the IPR. 2 What's relevant is I have been 3 properly supported why this patent is invalid 4 based on the prior art, which I disclosed in the 5 IPR. 6 Q. And the prior art has to disclose each 7 and every claim limitation. 8 Isn't that right? 9 MS. HOEKEL: Object to the form, 10 beyond the scope of the deposition. 11 A. I believe I've answered your question, 12 counselor. I don't know how to answer it 13 differently. 14 (Pause) 15 MR. CLAASSEN: All right. Let's take 16 our short lunch break. How long would you like, 17 Hua? 18 MR. CHEN: Twenty-five minutes to an 19 hour. 20 MS. HOEKEL: Why don't we do 45 21 minutes and come back at -- I can't do the 22 math -- 2:00 o'clock --
Page 122 1 MS. HOEKEL: Object to the form. 2 A. I don't agree with you interpreting my 3 statement. 4 I know what I said in it. And this 5 is -- I'm sticking to my -- how should I say 6 it? -- what I said. I agree that it says -- 7 Q. Where did you inform the PTAB -- 8 MS. HOEKEL: The witness hasn't 9 finished. 10 BY MR. CLAASSEN: 11 Q. -- that the separate computing device 12 means a conventional bedside monitor? 13 MS. HOEKEL: I would like to remind 14 counsel to let the witness finish his answer. I 15 think you cut him off. 16 BY MR. CLAASSEN: 17 Q. Where did you inform the PTAB that 18 "separate computing device" means a 19 "conventional bedside monitor"? 20 A. I don't remember my exact section. 21 And, again, the terms so-called 22 "separate computing device" are not relevant in	Page 124 1 MR. CLAASSEN: Yeah, 45 after the 2 hour? 3 MS. HOEKEL: Yeah, that's fine. 4 THE WITNESS: Sounds good to me. 5 MR. CHEN: Sounds good. Thank you. 6 THE VIDEOGRAPHER: The time is 2:56 7 p.m. Off the record. 8 * * * 9 L U N C H R E C E S S 10 Time noted 2:56 p.m. Eastern Standard Time 11 * * * 12 13 14 15 16 17 18 19 20 21 22

Page 125 1 * * * 2 AFTERNOON SESSION 3 Time noted 3:49 p.m. Eastern Standard Time 4 * * * 5 THE VIDEOGRAPHER: The time is 3:49 6 p.m. Back on the record. 7 BY MR. CLAASSEN: 8 Q. Okay. Dr. Yanulis, can you hear me 9 well? 10 A. Yes, I can, thank you. Thanks for the 11 lunch break. 12 Q. Of course. 13 We have been talking about separate 14 computing device. 15 Do you remember that? 16 A. Yes, sir. 17 Q. Let break down that term -- "separate 18 computing device." 19 Would a person of ordinary skill in 20 the art understand the word "separate"? 21 A. Yes, they would. 22 Q. Would a person of ordinary skill in	Page 127 1 things. 2 Q. What different things could it apply 3 to? 4 A. Well, it doesn't have to be a 5 conventional monitor. But that's not the way 6 it's discussed in the patents in all respects. 7 It's discussed as a conventional 8 bedside monitor. 9 But it could have different uses in 10 other applications. 11 Q. Can you think of any examples of uses 12 in other applications? 13 A. I -- surveillance system, in other 14 words program to turn on and off when one leaves 15 the home; turning your lights on and off; again, 16 turning the alarm system or surveillance system. 17 I'm trying to think of nonmedical 18 applications. 19 It could also apply to your heating 20 system, how it's controlled. 21 Q. How would a surveillance system be a 22 separate computing device?
Page 126 1 the art understand "computing"? 2 A. Yes, they would. 3 Q. Would a person of ordinary skill in 4 the art understand "device"? 5 A. Yes, they would. 6 (Pause) 7 Q. So we have also talking about the 8 plain and ordinary meaning. 9 Do you remember that? 10 A. Yes, sir. 11 Q. Is the plain and ordinary meaning 12 broader or narrower than "conventional bedside 13 monitor"? 14 A. Can you repeat the question? 15 Q. Yes. 16 Is the plain and ordinary meaning of 17 "separate computing device" broader or narrower 18 than "conventional bedside monitor"? 19 A. It's broader. 20 Q. How? 21 A. The term the way you have just 22 articulated could apply to a lot of different	Page 128 1 A. Just the system alone -- but it could 2 incorporate a separate computing device, in 3 other words, to control the functioning of your 4 surveillance system. It depends on the 5 complexity of your surveillance systems. And 6 I'm not really an expert on surveillance 7 systems. 8 But it's the same type of electronic 9 technology to some degree. 10 Q. Are you done with your response? 11 A. Yes, sir. 12 Q. Could a separate computing device 13 include a phone? 14 MS. HOEKEL: Object to the form. 15 A. It could, but that's not what we are 16 talking about here -- these patents. 17 Q. Would a person of ordinary skill in 18 the art understand the plain and ordinary 19 meaning of "separate computing device" to 20 include a phone? 21 MS. HOEKEL: Object to the form. 22 A. It should be able to, but you'd have

Page 129 1 to describe the application which it's used in. 2 Q. Would a person of ordinary skill in 3 the art understand a "separate computing device" 4 to include a laptop computer? 5 MS. HOEKEL: Object to the form. 6 A. Same answer, counselor: It could. 7 That's not what's being disclosed 8 here. 9 Q. Is there a distinction between what's 10 disclosed and what's claimed? 11 A. The specs, as I have been saying, 12 basically articulate a conventional bedside 13 monitor. That's not in agreement with the 14 claims and the terms that are used, which is why 15 we are having the discussion. 16 (Pause) 17 Q. Do you still have the '735 patent 18 that's been marked as Exhibit 2? 19 A. Yes, sir, I do. I have it if front of 20 me. 21 MR. CLAASSEN: I'll ask the 22 videographer to put that up on the screen for	Page 131 1 hundreds -- 2 Q. Do you -- 3 A. -- go ahead. 4 Q. I'll let you finish. 5 A. The unit, if I'm understanding the 6 element 160, is the conventional bedside 7 monitor. And it looks like you are just showing 8 one parameter being monitored or showing on the 9 display. 10 Q. Do you see two different numbers on 11 there? -- 98 and an 80? 12 A. Yes. 13 Q. Are those one parameter? 14 A. I would say -- now looking at this, I 15 would say the top number is the pulse oximetry. 16 The bottom number is more than likely -- I would 17 say that's the pulse rate, heart rate. 18 I'll just say pulse rate. 19 Q. Would this conventional bedside 20 monitor satisfy the separate computing device 21 limitation? 22 A. Again, I have to look at the specs in
Page 130 1 us. 2 So Exhibit 2. And let's look at 3 Figure 1. 4 BY MR. CLAASSEN: 5 Q. Do you see Figure 1, Dr. Yanulis? 6 A. Yes, I do. 7 Q. What's shown in Figure 1? 8 A. Without looking at the specs, I could 9 identify main monitoring unit and the device 10 that's attached to the hand. 11 But I'd have to look at the figure in 12 combination with the specs as it applies to this 13 figure. 14 Q. Is anything on this Figure 1 a 15 separate computing device? 16 A. Again, I have to look at the specs the 17 way they have been defined. Just looking at 18 this, I can't tell. 19 Q. Is anything on here a conventional 20 bedside monitor? 21 A. The whole system, 160, is the 22 conventional bedside monitor. And I've seen	Page 132 1 combination with this figure. 2 Q. Did you do that? 3 A. Yes, I can do that right now. 4 Q. I'm not asking if you could do it. 5 I'm asking: Did you do that? 6 A. Yes, I did. 7 Q. Do you remember what you concluded? 8 A. I concluded that this is a separate -- 9 excuse me -- that this -- this is a conventional 10 bedside monitor as disclosed, which is well 11 known in the art. 12 Q. Did you find a separate computing 13 device within your understanding of the term in 14 the '735 patent? 15 MS. HOEKEL: Object to the form. 16 A. I don't really understand the question 17 you are asking me. 18 Because I have already said a separate 19 computing device is, as I made opinions on, a 20 conventional bedside monitor. 21 So I don't really understand your 22 question.

Page 133 1 Q. So does this Figure 1 show a separate 2 computing device within your understanding of 3 the claim? 4 A. Again, I'll repeat myself: This is 5 showing a separate computing device which is 6 equivalent to a conventional bedside monitor, as 7 disclosed in the specs. 8 Q. Did you also consider Figure 5A? 9 A. Yes, I did, sir. 10 MR. CLAASSEN: I'll ask the court 11 reporter, then, to put up figure 5A. 12 (Pause) 13 THE WITNESS: Okay. 14 BY MR. CLAASSEN: 15 Q. See that? 16 A. Yes, I do. 17 Q. What is shown in Figure 5A? 18 A. From remembering the specs without 19 looking at it, it is clear this is the 20 conventional bedside monitor. 21 And the unit -- I'll call it 510-K -- 22 excuse me -- 510 is the element described as the	Page 135 1 A. Again, this separate computing device, 2 which I have been saying right along, is a 3 conventional bedside monitor as disclosed. 4 Q. My question is slightly different. 5 If you took away the receiver unit 6 510, would that still be a conventional bedside 7 monitor? 8 MS. HOEKEL: Same objection. 9 A. I'm going to say I have to look at the 10 specs before I make that opinion. 11 Q. Have you done that before? 12 A. Yes, I have. 13 Q. Do you remember what you concluded? 14 A. I concluded, again, the main 360 -- 15 whether you have this plug-in unit -- is still a 16 conventional bedside monitor. 17 Q. Would that also be a separate 18 computing device? 19 A. Yes. 20 (Pause) 21 Q. We talked about earlier that the 22 separate computing device needs to receive data,
Page 134 1 plug-in compatible device as they referred to in 2 the specs. 3 Q. So is Figure 5A showing a conventional 4 bedside monitor? 5 A. Right, with a 510 element, which is 6 basically -- without elaborating much more -- is 7 the so-called plug in unit, communication unit, 8 that's been disclosed in the patent. 9 Q. You are calling that 510, right? 10 A. Without going to the specs directly. 11 I mean, I would want to see the specs. I'm 12 guessing from memory. 13 But just based on my expertise, I 14 would say that's the plug-in module that's being 15 claimed. 16 Q. If you removed the receiver unit that 17 we have been calling 510 from the monitor, is it 18 a separate computing device? 19 MS. HOEKEL: Object to the form -- 20 A. Yes, if you -- go ahead. 21 MS. HOEKEL: I object to the form. 22 Go ahead, Dr. Yanulis.	Page 136 1 right? 2 A. Yes, it does. 3 Q. Does a conventional bedside monitor 4 have an apparatus for receiving data? 5 A. There is usually something connected 6 or within that system that allows you to do 7 that. You have to receive the signals in order 8 to show the visible display of the monitor of 9 the physiological parameters being monitored. 10 (Pause) 11 Q. Let's talk about the next claim term 12 -- the "separate monitoring device." 13 Do you remember that claim term? 14 A. Yes, I do. 15 Q. Let's go back, then, to Exhibit 1. 16 A. Okay. 17 Q. We'll move on to page -- well, it's 18 page 7 of the chart. 19 A. Okay. 20 MR. CLAASSEN: I'll ask the 21 videographer to do the same thing there. 22 THE WITNESS: Okay.

Page 137 1 BY MR. CLAASSEN: 2 Q. Do you see that page 7 is listed up on 3 the video screen there? 4 A. Yes, I do. 5 Q. What's your understanding of Sotero's 6 construction for "a separate monitoring device"? 7 A. That it's a conventional bedside 8 monitor. 9 Q. Is that the same construction for 10 "separate computing device" that we just talked 11 about? 12 A. A conventional bedside monitor as 13 disclosed and listed on this chart is the exact 14 same thing as has been disclosed in the specs -- 15 separate monitoring device, yes. 16 But it's a conventional bedside 17 monitor. I'm sticking with that position, and 18 that's my opinion. 19 Q. The same construction for "separate 20 computing device" and "separate monitoring 21 device." 22 Is that right?	Page 139 1 A. As disclosed in the specs, in my 2 opinion and expertise with working with the spec 3 device. 4 (Pause) 5 Q. Let's focus on the difference, then, 6 between computing and monitoring. 7 Is there a difference? 8 A. The way this spec has been disclosed, 9 no. 10 Q. Does that difference in claim language 11 impact your analysis? 12 A. Can I repeat the question in my own 13 words? 14 Could you repeat the question, 15 counselor? 16 Q. Is the difference in claim language -- 17 can that have any difference -- let me just 18 start all over again. 19 We were talking about separate 20 computing device, right? 21 And you understand that that term is 22 different from separate monitoring device,
Page 138 1 A. I didn't hear the question, sir. 2 Q. I want to make sure that I'm 3 understanding your previous response correctly. 4 In your opinion, "separate computing 5 device" and "separate monitoring device" have 6 the same construction, right? 7 A. Not what I said, sir. 8 What I said was: The way the specs 9 have been written and disclosed, it is, in my 10 expert opinion, a conventional bedside monitor. 11 What you call it -- the way the term I 12 understand it and the way it's been articulated 13 in the specs, conventional bedside monitor -- is 14 a separate computer device. 15 Q. So it's a separate computing device. 16 Is that right? 17 A. As it's been disclosed in the patent. 18 Q. Is a conventional bedside monitor also 19 a separate monitoring device? 20 A. Could you repeat the question? 21 Q. Is a conventional bedside monitor also 22 a separate monitoring device?	Page 140 1 right? 2 A. No, that's not what I said, counselor. 3 What I said was: The way it's been 4 disclosed, separate monitoring device as it's 5 been disclosed in the specs is a separate 6 computing device. 7 Q. Okay. 8 Now you are talking about the meaning. 9 What I want to talk about is the claim 10 terms themselves. 11 So you understand the words "separate 12 computing device" and "separate monitoring 13 device" are different, right? 14 A. Yes. 15 Q. How did that difference impact your 16 claim construction analysis? 17 A. It impacted it in the sense that the 18 way the specs have been disclosed -- is a 19 separate monitoring device. The opinion has not 20 changed. 21 Q. So the ultimate opinion did not 22 change. I understand that.

Page 141 1 Did it change anything about your 2 analysis? 3 A. No, it did not. 4 (Pause) 5 Q. Does the conventional bedside monitor 6 need to include a specific receiver unit? 7 A. Not necessarily. 8 Q. What do you mean by that? 9 A. I'm going to rephrase this and say: 10 The way it's been disclosed, I would say that it 11 does include a transmitter, receiver, or some 12 means for attaching it to. 13 Q. My question, though, is: Does it 14 require using a specific receiver unit? 15 A. No, it does not. Can use any receiver 16 unit. 17 Q. How did you make that determination? 18 A. My skill in the art. You have to 19 receive the data somehow. You have to receive 20 it in some manner. 21 (Pause) 22 Q. Is it your opinion that a conventional	Page 143 1 Or does it need to be the specific 2 receiver unit? 3 A. It could be any receiver, but the 4 receiver has been disclosed in a certain manner. 5 So I'm basing it on the way they have 6 discussed in the specs the receiver unit. 7 You could use a different receiver 8 unit, to answer your question. 9 Q. But you couldn't use any different 10 monitoring device. 11 Is that correct? 12 A. No, sir, that's not what I'm saying. 13 I'm saying that the specs read on a 14 conventional bedside monitor -- period. 15 Q. That will not include a central 16 station, right? 17 MS. HOEKEL: Object to the form. 18 A. For my answer, it could be. 19 Q. How would a central unit be bedside? 20 A. You could have a central nurse's 21 station, which is -- has its -- and it's not the 22 patient monitor. It's their display of the
Page 142 1 bedside monitor included a receiver? 2 MS. HOEKEL: Object to the form. 3 A. I'm going to reply: I'm not sure how 4 you are asking and how it's different than the 5 opinions and comments I've already made in the 6 record. 7 Q. Let's take a look, then, at page 11 of 8 this Exhibit 1. This is similar to what we 9 talked about before. 10 You see on the third line there it 11 says: Specific receiver unit? 12 A. Yes. 13 Q. What is your understanding of the 14 reason for including the words "specific 15 receiver unit" in this paragraph? 16 A. Because the patent as disclosed has to 17 include some type of receiver unit which can be 18 configured to function with a conventional 19 bedside monitor. 20 Q. So my question for you -- and I want 21 to make sure I'm understanding you -- is: Can 22 it be any receiver?	Page 144 1 individual patient monitoring systems. 2 And that's the state -- that's the 3 usual, well-known use. 4 So I want to make sure it's clear in 5 the record. 6 A central -- call it -- display unit 7 for all the patient monitors is not the same 8 thing as one individual conventional bedside 9 monitor the way it's been disclosed. 10 Q. So is a nurse's station -- a central 11 nurse's station -- a separate monitoring device? 12 A. It could be. 13 Q. Under what conditions could it be? 14 MS. HOEKEL: Object to the form, 15 beyond the scope of the deposition, beyond the 16 scope of claim construction. 17 BY MR. CLAASSEN: 18 Q. What's your understanding of the word 19 "bedside," Dr. Yanulis? 20 A. Adjacent to the patient or in close 21 proximity to the patient being monitored. 22 Q. Is a nurse's station in close

Page 145 1 proximity to a patient? 2 A. If you are talking about an IC unit, 3 from my expertise, it could be visible but it 4 could be a separate unit. And that particular 5 monitor for that patient could be visible on 6 their central conventional monitor. 7 Q. But would that be bedside? 8 A. No. 9 (Pause) 10 MR. CLAASSEN: Let take a look now at 11 Exhibit 6, which is your IPR declaration 12 regarding the '108 patent. 13 THE WITNESS: Okay. And I appreciate 14 your sharing the screen with me, counselor. 15 MR. CLAASSEN: Of course. Is it 16 helpful? 17 THE WITNESS: Very helpful. 18 MR. CLAASSEN: I need Exhibit 7. 19 MS. HOEKEL: I'm just going to put on 20 the record an objection, again, to questioning 21 about the IPR declaration as irrelevant and 22 beyond the scope of this deposition.	Page 147 1 remember. 2 Q. That's okay. I just want to make sure 3 that we are talking about the same thing. 4 So up on the screen, we are going to 5 call this exhibit Exhibit 7. 6 Do you understand that? 7 A. Yes, sir, I appreciate that. 8 MR. CLAASSEN: So I'd like the court 9 reporter to mark this exhibit as Exhibit 7. 10 (Exhibit 7, Document Bates stamped 11 MAS0021189 through 21315, multipage document 12 entitled: Declaration of George E. Yanulis in 13 Support of Petition for Inter Partes Review of 14 U.S. Patent No. 10,213,108, dated May 6, 2020, 15 marked for identification) 16 BY MR. CLAASSEN: 17 Q. So what is this document, Dr. Yanulis? 18 A. This is the inter partes review that I 19 wrote for U.S. Patent '108 as part of our 20 petition to the patent review board. 21 Q. And as part of this petition -- or, 22 sorry -- part of this declaration, you set forth
Page 146 1 What exhibit are we looking at, Brian? 2 MR. CLAASSEN: Exhibit 7. 3 MS. HOEKEL: And it is the IPR 4 declaration for '108? 5 MR. CLAASSEN: That's correct. 6 BY MR. CLAASSEN: 7 Q. Dr. Yanulis, have you seen this 8 Exhibit 7 before? 9 A. Yes, counselor. 10 I want to make sure that we are -- you 11 are referring to Exhibit 1003? I mean, I am 12 looking at the declaration that I made for the 13 '108 patent. 14 Q. I just want to make sure what we're 15 talking about here when you say Exhibit 1003 is 16 for the '108 patent, right? 17 A. Yes. 18 Q. The reason I'm being particular there 19 is because I understand -- or at least it's my 20 observation -- that Exhibit 1003 is the number 21 for your declaration for each of the IPRs? 22 A. And I apologize about that. I don't	Page 148 1 an opinion on claim construction for the '108 2 patent, right? 3 A. Yes, I did. 4 Q. I want to turn now to page 13 of that 5 declaration. 6 (Pause) 7 A. Okay. I'm seeing it now. 8 Q. You see there is a heading there that 9 says: Claim Construction? 10 A. Yes, I do. 11 You want me to read it? 12 Or -- 13 Q. No, I don't. At least not aloud. You 14 can read it to yourself if that would help you. 15 A. Do you mind if I read it very quickly 16 myself? 17 Q. Go ahead. Let me know when you are 18 finished. 19 A. I have read what's on page 13 at the 20 bottom. 21 Q. That continues on to page 14, right? 22 A. I'm assuming it does, yes.

Page 149 1 Q. The bottom of the page 13 sets forth 2 the legal principles for claim construction, 3 right? 4 A. Correct. 5 Q. Then there is a heading -- gives: 6 Opinion of Claim Construction. 7 Right? 8 A. I'm not seeing B. 9 Could you repeat that, sir? 10 Q. Sure. 11 On the next page, 14, which has also 12 got Bates Nos. MAS0021218 -- do you see that? -- 13 A. Yes. 14 Q. -- there is a heading B that says: 15 Opinion of Claim Construction. 16 Do you see that? 17 A. Yeah. I thought I heard 8, counselor. 18 I'm sorry. 19 Q. That's no problem. 20 So you see that section B, as in boy? 21 A. Yes, I do. 22 Q. That's an opinion of claim	Page 151 1 where it starts with: Summary of the Prior Art. 2 Right? 3 A. I don't see where you are talking 4 about, sir. 5 Q. Up on the screen now you see on the 6 right side, there is page 14 of what we have 7 been calling Exhibit 7, which is your 8 declaration, right? 9 A. Correct. 10 Q. And there is a heading B that says: 11 Opinion of Claim Construction. 12 Do you see that? 13 A. I see that. 14 Q. And there are three paragraphs below 15 that, right? 16 A. Yes, there are. 17 Q. Then there is a new heading, right? 18 A. Yes. 19 Q. Did those three paragraphs address 20 "separate computing device"? 21 MS. HOEKEL: Objection. 22 A. No, they did not.
Page 150 1 construction, right? 2 A. Indeed -- yes, it is. It's my 3 opinion. 4 Q. Do you see that paragraph 34 there? 5 A. Yes. 6 Q. And it says you believe that all claim 7 terms for purposes of inter partes review can be 8 given their plain and ordinary meaning. 9 Do you see that? 10 A. Yes. 11 Q. Did that include "separate monitoring 12 device"? 13 MS. HOEKEL: Object to the form. 14 A. I'm not sure how to answer that, sir, 15 in the context of this page. 16 Q. Do "all claim terms" of the '108 17 patent include "separate monitoring device"? 18 (Pause) 19 A. Looking in the context of what's 20 written on this page, I don't know. I'd have to 21 go through the rest of the IPR. 22 Q. You see there are two paragraphs below	Page 152 1 Q. Did they address "separate monitoring 2 device"? 3 MS. HOEKEL: Object to the form. 4 A. Again, looking at this page, no, they 5 do not. 6 Q. You set forth a construction of 7 "separate monitoring device" that is different 8 than the plain and ordinary meaning in these 9 three paragraphs? 10 A. I didn't hear your question, 11 counselor. 12 Q. Sorry. I think we had two people 13 speaking. 14 MR. CLAASSEN: Jennifer, were you 15 objecting? 16 MS. HOEKEL: I was. 17 MR. CLAASSEN: I don't think that 18 objection made it on to the record. 19 MS. HOEKEL: Because everyone keeps 20 talking over each other. 21 So I'm objecting to the form. 22 I think if you reask the question,

Page 153 1 we'll start over. 2 MR. CLAASSEN: Great. 3 BY MR. CLAASSEN: 4 Q. So, Doctor, you notice -- you see 5 these three paragraphs, right? 6 A. I do. 7 Q. Do you set forth a construction of 8 "separate monitoring device" that is different 9 than the plain and ordinary meaning in these 10 three paragraphs? 11 (Pause) 12 A. I'm not still understanding the 13 question. 14 Are you asking me: Is it a separate 15 monitoring device being discussed in these 16 paragraphs? 17 The answer is: No. 18 Q. You cut out when you leaned forward. 19 A. I'm sorry. 20 Q. So what was your response there? 21 A. The answer is: No. 22 Q. So if I were reading this petition, I	Page 155 1 Q. Does the '108 patent provide a 2 definition of the word "monitoring"? 3 A. I'd have to look at the entire patent. 4 I believe they used a term "patient 5 monitoring." 6 Q. My question is a little different. 7 Did the '108 patent define the word 8 "monitoring"? 9 A. I believe it did. 10 Q. How did it do that? 11 A. In the context of patient monitoring. 12 (Pause) 13 Q. Let's take a look, then, at Exhibit 6, 14 which was the '108 patent. 15 Do you see that that's been put up on 16 the screen? 17 A. I see the certificate -- oh, here it 18 is. 19 Q. Do you have a printed copy of that 20 '108 patent that's Exhibit 1 six? 21 A. Yes, I do. 22 Q. Where in the '108 patent does it
Page 154 1 would understand -- or a person of ordinary 2 skill in the art -- would understand that your 3 construction is plain and ordinary meaning, 4 right? 5 A. Yes. 6 Q. Is your understanding of "separate 7 monitoring device" different today? 8 A. No, it's not. 9 MS. HOEKEL: Object to the form. 10 (Pause) 11 BY MR. CLAASSEN: 12 Q. Would a person of ordinary skill in 13 the art understand the word "monitoring"? 14 MS. HOEKEL: Object to the form. 15 A. The answer is: Yes. 16 Q. How would it be understood? 17 MS. HOEKEL: Object to the form. 18 A. Taken in the context of the specs, and 19 the claims, and the file history for this 20 particular patent, "monitoring" in this case 21 implies physiological monitoring of a specific 22 patient for different physiological parameters.	Page 156 1 define the term "monitoring"? 2 A. I'd have to take a moment and see if 3 it did. 4 Q. Why don't you take a moment and do 5 that? 6 You have a printed copy with you, 7 right? 8 A. I have '735 out; get the '108. 9 Q. It's in a folder labeled: Exhibit 6. 10 (Pause) 11 A. Yes. 12 Q. Do you have Exhibit 6 in front of you? 13 A. Yes, I do. 14 MR. CLAASSEN: I'd like the court 15 reporter to mark this Exhibit 6 for the record. 16 (Exhibit 6, Document Bates stamped 17 MAS0000140 through 179, multipage document 18 entitled: United States Patent No.: US 10, 19 213,108 B2, dated February 26, 2019, with cover 20 page dated June 17, 2019, marked for 21 identification) 22 MR. CLAASSEN: You are going to review

Page 157 1 that Exhibit 6 right now. 2 Is that right, Dr. Yanulis? 3 THE WITNESS: Yes, I would like to 4 take a couple of minutes, if I can. 5 MR. CLAASSEN: Okay. Let's take a 6 short break, and you can review that, and we'll 7 come back. 8 THE VIDEOGRAPHER: The time is 4:24 9 p.m. Off the record. 10 (Recess from 4:24 p.m. to 4:30 p.m.) 11 THE VIDEOGRAPHER: The time is 4:30 12 p.m. Back on the record. 13 BY MR. CLAASSEN: 14 Q. Dr. Yanulis, we were talking about 15 Exhibit 6, which is the '108 patent. 16 Right? 17 A. Yes, sir. 18 Q. You were looking for where it defines 19 "monitoring." 20 Is that right? 21 A. Yes. 22 Q. What did you find?	Page 159 1 Q. I can. 2 Just don't want to speak over you. 3 Just want to make sure you are finished with 4 your response. 5 A. Yes, I am. 6 (Pause) 7 Q. Is it your opinion that, if the 8 specification disclosed only the conventional 9 bedside monitor, the claims cannot include 10 anything more as a separate monitoring device? 11 MS. HOEKEL: Objection. 12 A. Could you repeat the question? 13 Q. Sure. 14 Is it your opinion that, if the 15 specification disclosed only the conventional 16 bedside monitor, the claims cannot include 17 anything more as a separate monitoring device? 18 MS. HOEKEL: Same objection. 19 MR. CLAASSEN: What is the objection? 20 MS. HOEKEL: That it is as to form, 21 and it is incomplete. 22 BY MR. CLAASSEN:
Page 158 1 A. I did not find it actually defined. 2 What I found in the Background of the 3 Invention -- column 1, line 37 -- referring to 4 patient vital sign monitoring, which is same 5 thing as physiological monitoring of different 6 parameters, such as hemoglobin, SpO2, pulse 7 rate, heart rate. 8 Then I'm looking on. 9 This patent spends more time 10 discussing the communications adapter. 11 And I don't see an accurate -- I 12 shouldn't say -- I couldn't find in the time 13 that I had an actual definition of what they 14 called "monitoring." 15 But they used the term 16 "physiological -- vital sign monitoring" which, 17 to one skilled in the art, would be 18 physiological monitoring. 19 Most of the figures that I noticed 20 refer to this so-called communications plug-in 21 system. 22 Can you hear me okay?	Page 160 1 Q. You can answer the question. 2 A. My response is: I'm going to answer 3 this question as a biomedical engineer and not 4 an attorney. 5 And I'm going to say the claims, as 6 directed to the specs -- if the specs have been 7 written any differently, I would have had 8 different opinions. 9 But my opinions do not change based on 10 what's been disclosed. 11 Q. What do you mean when you say "if the 12 specs had been written any differently"? 13 A. I only have the patents. I have to go 14 by what the spec says. I can't create 15 specifications. 16 Q. So the claims limited to the 17 specifications? 18 A. It has to be directed to the 19 specifications in some way. 20 Q. What is your understanding of when a 21 specification limits the claim? 22 A. Specification should include all the

Page 161 1 limitations of their system, what they are 2 trying to do with the system, what they are 3 hoping to accomplish with the system. 4 I'm not sure I understand your 5 question, counselor. 6 Q. Does that include disclosing something 7 a person of ordinary skill in the art would find 8 conventional? 9 MS. HOEKEL: Object to the form. 10 A. Again, one skilled in the art would 11 call this a conventional bedside monitor. 12 (Pause) 13 Q. Does the specification disclose that 14 the conventional bedside monitor is a separate 15 monitoring device? 16 (Pause) 17 A. My understanding and the way I viewed 18 this is -- is they may be -- the only thing I 19 see is this is a conventional bedside monitor. 20 I'm not going to add anything more 21 than that. 22 Q. But does the specification say that	Page 163 1 That's all I have is the specs that 2 are available for me in this patent. 3 Q. You also have knowledge of ordinary 4 person skilled in the art, right? 5 A. Again, that's why I said: For one 6 skilled in the art, based on the way they have 7 disclosed it, this is a conventional bedside 8 monitor. 9 Q. I want to move on now and talk about 10 the '994 patent and alarm condition. That's the 11 next in the exhibit line. 12 A. Do want me to get that out, counselor? 13 Q. Sure. 14 Let's go back to Exhibit 1. 15 (Pause) 16 Q. We are going back now to that joint 17 claim construction chart. 18 A. I apologize. It's going to take me a 19 minute. I'm sorry. 20 Q. That's okay. 21 A. I have now got the joint hearing 22 statement, which I believe is Exhibit 1,
Page 162 1 the conventional bedside monitor is a separate 2 monitoring device? 3 A. I'd have to look at the entire specs 4 to answer that question. 5 Q. Did you do that? 6 A. Figure 1 is prior art. 7 (Pause) 8 Q. I asked a yes-or-no question. 9 Did you do that? 10 A. No. 11 Q. No, you did not do that? 12 A. I'm sorry. I didn't -- repeat the 13 question? 14 Q. Let's go back to my question. 15 I had asked: Does the specification 16 say that the conventional bedside monitor is a 17 separate monitoring device? 18 A. No, it does not. 19 Q. How did you reach that conclusion? 20 A. Because the specs; and for one skilled 21 in the art as I am, it is a conventional bedside 22 monitor based on the specs.	Page 164 1 correct. 2 Q. That's correct. 3 Then if you move down into the chart 4 in the back, the third term on -- beginning on 5 page 11 -- the very bottom of page 11 -- 6 A. Let me turn to page 11 first. 7 Q. Sure. 8 (Pause) 9 A. Yes, I see it. And I have got it in 10 front of me. 11 Q. And you see that the disputed term is 12 "alarm condition," right? 13 (Pause) 14 A. Give me a moment. I'm looking at the 15 hard copy. I can discuss it from the chart 16 here, save time. 17 Q. So you understand the third disputed 18 term here is "alarm condition," right? 19 A. Correct. 20 Q. What is your understanding of Masimo's 21 proposed construction of that term? 22 A. Masimo's -- I apologize.

Page 165 1 Masimo's construction implies "alarm 2 condition," which is based on one criterion. 3 And Sotero's is based on multiple 4 criterion. 5 Q. Okay. So let's scroll down now to 6 page 12. 7 A. Okay. 8 Q. So you understand Masimo's 9 construction is plain and ordinary meaning, 10 right? 11 A. Correct. 12 Q. There is an alternate definition 13 there, right? 14 A. -- yes -- 15 Q. Dr. Yanulis, if you are speaking, you 16 are not -- 17 A. I'm sorry. Can you hear me now, 18 counsel? 19 Q. Yes. 20 THE VIDEOGRAPHER: I'm sorry to 21 interject, but any time you lean forward assume 22 we may have issues hearing you.	Page 167 1 A. No, it does not. 2 Q. So where are you getting criteria 3 from? 4 A. My interpretation for one skilled in 5 the art and looking at the specs as 6 articulated -- 7 MR. CLAASSEN: You are dropping off 8 again -- 9 THE WITNESS: All right. Let me bring 10 it to my face. It is a lot easier. 11 A. The alarm criteria has to be satisfied 12 before you have any kind of triggered alert. 13 And Masimo -- just that statement. 14 I'm not changing my opinion on that. 15 Q. So I haven't gotten to your opinion 16 yet, as far as I understand it. 17 I was asking if you agreed with 18 Masimo's construction. 19 And at first, you said: Yes. 20 Then you said: Let me clarify. 21 A. The answer is: Yes. 22 Q. So you do agree?
Page 166 1 THE WITNESS: All right. 2 A. The alternate is Masimo's position. 3 This term should be construed as a measurement 4 of a physiological parameter that's outside 5 certain limits. 6 Q. Do you disagree with that 7 construction? 8 A. Yes. Well, no, I don't. I'm sorry. 9 No, I don't. 10 Q. So you agree with Masimo's alternate 11 construction? 12 A. Yes. 13 Q. You disagree with the plain and 14 ordinary meaning construction? 15 A. Can I reanswer that question? 16 Q. Sure. 17 A. I disagree with the way it's written. 18 It implies it's based on one criterion; whereas 19 our position is that it's more than one alarm 20 criterion. 21 Q. Okay, does the word "criteria" appear 22 in Masimo's construction?	Page 168 1 A. Yes. 2 Q. Okay. 3 Let's talk about Sotero's 4 construction. 5 A. Okay. 6 Q. You see that in the right column 7 there? 8 A. Yes. 9 Q. We're talking about Exhibit 1 on page 10 12 of the joint chart? 11 A. Right. 12 Q. That's: A patient condition that 13 satisfies all alarm criteria resulting in a 14 triggered alert. 15 Right? 16 A. Correct. 17 Q. What does "all" in "all alarm 18 criteria" mean? 19 A. More than one criterion. 20 Q. Is two criteria "all"? 21 MS. HOEKEL: Objection. 22 A. "Criteria" implies plural of

Page 169 1 criterion, as far as my expertise. 2 Q. So what I'm trying to figure out now 3 is what "all" means within the construction 4 itself. 5 A. It could be the treatment times, as an 6 example. It could be the type of patient who 7 you are monitoring. It could also -- and I 8 don't want to get into terms we haven't talked 9 about here -- but it could talk about in terms 10 of what's meant by -- for example, you can't 11 just have something outside the limits. There 12 also has to be other criterion applied before 13 you have an alert triggered. 14 Q. What does "criteria" mean? 15 A. "Criterion" is one single element or 16 one single variable or parameter. 17 You have to have more than one 18 parameter with "criteria" in terms of what you 19 are actually defining as; "all the criteria." 20 Q. You understand that "criteria" is not 21 part of the claim, right? 22 MS. HOEKEL: Object to the form.	Page 171 1 Q. Masimo's construction doesn't include 2 "criteria" either, does it? 3 MS. HOEKEL: Object to the form. 4 BY MR. CLAASSEN: 5 Q. It doesn't include the word 6 "criteria," does it? 7 A. As far as Sotero, they satisfy all 8 alarm criteria. 9 Q. So both the "all" and the "criteria" 10 come from Sotero's construction, right? 11 MS. HOEKEL: Object to the form. 12 A. They come from the construction. 13 But I'm giving you -- if I could 14 finish my statement -- as to the way the patent 15 specs have been disclosed in combination with 16 the figures, it's directed, to me, you have to 17 satisfy all alarm criteria before you have a 18 triggered alert. 19 Q. What are "all alarm criteria"? 20 A. Depends on how they are defined. 21 Q. Okay. 22 So you understand the purpose of claim
Page 170 1 BY MR. CLAASSEN: 2 Q. The words of the claim do not include 3 "criteria," right? 4 A. Correct. 5 Q. They include "condition," right? 6 A. Right. 7 Q. Is "condition" singular or plural? 8 A. "Alarm condition" is singular in the 9 claim -- in the claim. 10 Q. Understood. 11 So the introduction of the word 12 "criteria" makes it plural, right? 13 A. Correct. 14 Q. Where does "criteria" come from in 15 your analysis? 16 A. It comes from what parameters. It may 17 be two, three -- but it's more than one 18 criterion. 19 Q. Okay. 20 But you understand the claim language 21 itself doesn't use the word "criteria," right? 22 A. Yes, I do, sir.	Page 172 1 construction, right? 2 A. Yes, I do. 3 Q. What is it? 4 A. The purpose of claim construction is 5 to evaluate whether Masimo or defendant Sotero's 6 claim construction are precise for purposes of 7 such things as infringement, or moving other 8 factors other than just invalidity. 9 Q. You understand that a jury has to 10 understand the constructions, right? 11 A. But I do as well as an expert. I have 12 to understand the difference in the terms as 13 they have been agreed on by the two different 14 parties -- or in other words, what's been 15 stipulated. 16 Q. So if a juror is evaluating "all alarm 17 criteria," what are they looking at? 18 A. Multiple parameters. Multiple 19 parameters. 20 Q. Why didn't you say "multiple alarm 21 criteria"? 22 MS. HOEKEL: Object to the form.

Page 173 1 A. Because I'm answering these questions 2 from the perspective of someone skilled in the 3 art. I may not have the same level of knowledge 4 as the attorneys. 5 Q. So would "multiple alarm criteria" be 6 a correct construction to a person of ordinary 7 skill in the art? 8 A. You say "multiple alarm criteria," and 9 my answer is: Yes. 10 (Pause) 11 Q. You see the claim language in the left 12 column of page 12 of Exhibit 1? 13 It on the screen right now. 14 No? 15 A. Can you highlight -- I see on the 16 left. 17 Can you highlight the claim language? 18 Okay. I see. 19 Q. You see that, right? 20 A. Yes, sir. 21 Q. And you see that the word "alarm 22 condition" is -- or the phrase "alarm condition"	Page 175 1 multiple parameters need to be satisfied. 2 Is that right? 3 A. Let me rephrase that, because I 4 think -- I'm saying one thing, and it's being 5 implied in a different way. 6 What I'm saying is different criteria 7 for that particular parameter have to be 8 satisfied -- is what I'm saying. 9 I apologize if I'm confusing parameter 10 with what kind of limits that you set for the 11 alarm condition. 12 MS. HOEKEL: Dr. Yanulis, you have to 13 back up or we can't hear you. 14 THE WITNESS: Oh, I'm sorry. 15 A. What I'm saying, counselor, is that -- 16 and I want this in the record -- I'm saying the 17 one parameter may be monitored, and you have an 18 alarm condition for that one parameter. 19 Whether it be SpO2, or pulse rate, or 20 whatever, you have to have certain criteria -- 21 for example, what type of -- and I don't want to 22 get into some of the terms, but -- lack of a
Page 174 1 is bold, right? 2 A. Yes. 3 Q. That's the term that's being 4 construed, right? 5 A. Yes. 6 Q. And so "alarm condition" is for the 7 physiological parameter, right? 8 MS. HOEKEL: Object to the form. 9 BY MR. CLAASSEN: 10 Q. Is that right? 11 Or wrong? 12 A. Correct. 13 Q. The physiological parameter refers to 14 one parameter, right? 15 A. Yes. 16 Q. Did you consider that when you were 17 evaluating Sotero's claim construction? 18 A. Yes, I did. 19 Q. How did it impact your analysis? 20 A. It did not change my opinions, as I 21 discussed. 22 Q. So to satisfy alarm condition,	Page 176 1 better term -- what are all the criterion?, for 2 example, treatment times as opposed to how you 3 set those. 4 And until all those criterion are set, 5 for example, for instance, what's your -- let's 6 say you are monitoring pulse oximetry. You have 7 to, first of all, set what your upper limit, 8 lower limit. You also have to sort of set 9 what -- what's the timing of when the alarm 10 condition is triggered. 11 Does that make sense? 12 Q. No, but we'll talk about it some more. 13 A. Okay. 14 Q. So the SpO2 is an example, right? 15 A. The SpO2 is an example, yes. 16 I'm sorry. I interrupted. 17 Q. And that's a physiological parameter? 18 A. Correct. 19 Q. What would "all alarm criteria" be in 20 the context of SpO2? 21 A. The threshold values before the alarm 22 is triggered, the time in which they are

Page 177 1 triggered, based on your high and low. 2 I'm just going to leave that answer as 3 is. 4 Q. Is that all of the alarm criteria for 5 SpO2? 6 A. Other alarm criteria could be in terms 7 of: Do you have a patient in heart failure? Or 8 do you have a patient just going to the 9 operating room for a normal elective procedure? 10 Obviously, the criteria are going to 11 be set differently by the user clinician. 12 Q. That's all part of your understanding 13 of "alarm condition," right? 14 A. It's giving an example of SpO2 based 15 on how you would set the criterion before they 16 are all satisfied, or how they should be 17 satisfied before an alarm is triggered. 18 (Pause) 19 Q. Did the '994 patent specification 20 define "alarm condition"? 21 A. Yes, it does. 22 Q. Where does it define "alarm	Page 179 1 answer, not waste time. 2 MR. CLAASSEN: So what's being shown 3 on the screen now is Exhibit 8. We're going to 4 mark that as Exhibit 8. It's a copy of the '994 5 patent. 6 (Exhibit 8, Document Bates stamped 7 MAS0000180 through 284, multipage document 8 entitled: United States Patent No.: US 9 10,255,994 B2, dated April 9, 2019, with cover 10 page dated June 17, 2019, marked for 11 identification) 12 BY MR. CLAASSEN: 13 Q. Do you see that? 14 A. Correct. 15 Q. I provided you a printed copy of that, 16 right? 17 A. Yes, you did. 18 Q. Does that appear to be complete? 19 A. Yes. 20 Q. And you mentioned that "alarm 21 condition" is defined in the '994 patent, right? 22 A. I'm trying to refresh my memory. Give
Page 178 1 condition"? 2 A. Give me a moment. I have to look at 3 the patent. 4 Q. Okay. I think I provided that to you 5 as an exhibit. 6 A. Yes, you did. 7 Q. It's Exhibit No. 8. 8 MR. CLAASSEN: We haven't pulled it 9 out yet, but we'll take it out now. 10 THE WITNESS: And that's Exhibit 8, 11 sir? 12 MR. CLAASSEN: Yes. 13 (Pause) 14 MR. CLAASSEN: The last three of the 15 patents should be '994. 16 THE VIDEOGRAPHER: You want me to 17 bring that up? 18 MR. CLAASSEN: Sure. 19 THE WITNESS: If you want -- it's just 20 easier if I have it in my face. 21 MR. CLAASSEN: I agree. 22 THE WITNESS: I need to be able to	Page 180 1 me a couple of minutes, sir. 2 Q. Okay. 3 (Pause) 4 A. I'm referring -- on column 2, they are 5 talking about: In some embodiments, a medical 6 monitoring device or system capable of 7 collecting physiological parameter data, and 8 using the data to simulate a variety of alarm 9 condition detection criteria and/or alarm 10 notification delay times. This simulated alarm 11 condition detection criteria and/or alarm 12 notification delay times can be analyzed to 13 alter the actual alarm condition. 14 Q. So you are now reading from the 15 summary of the invention in column 2, right? 16 A. Yes, I'm reading -- but I'm looking 17 very quickly to see if the term "alarm 18 condition" is defined. 19 Q. In what you just read, is "alarm 20 condition" defined? 21 A. Based on that, yes. 22 Q. Where?

Page 181 1 A. The term "alarm condition" is not 2 defined explicitly, but I understand -- 3 Q. Please lean back when you are 4 responding so we can hear you. 5 A. It's not explicitly stated. 6 But as one is an expert, you have to 7 set aside certain alarm criteria. 8 (Pause) 9 Q. Does it say "all alarm criteria"? 10 A. No. 11 Q. Does it say "multiple alarm criteria"? 12 A. It uses the term "detection criteria," 13 and that to me implies plural, sir. 14 Q. Because it uses the word "criteria," 15 it's plural. 16 Is that right? 17 A. Yes. 18 Q. And that impacted your understanding 19 of the words "alarm condition," right? 20 A. I'm going to say that it doesn't 21 define "alarm condition," period. 22 (Pause)	Page 183 1 (Pause) 2 BY MR. CLAASSEN: 3 Q. So are you looking at column 39, line 4 29? 5 A. Yes, I am. 6 Q. Do you see the words "all alarm 7 conditions"? 8 A. Not in this particular line, no. 9 But I am reading these can include 10 alarm limits, alarm silence -- 11 THE WITNESS: Yeah, thank you. I 12 couldn't see -- 13 MR. CLAASSEN: Keep zooming in, line 14 29, it's the left. 15 THE WITNESS: Yes. 16 (Pause) 17 BY MR. CLAASSEN: 18 Q. Do you see the words "all alarm 19 conditions"? 20 A. Yes. 21 Q. Had you seen that before? 22 A. Yes.
Page 182 1 Q. Does the '994 patent use the phrase 2 "all alarm criteria"? 3 A. No, it does not. 4 Q. Does it use the phrase "all alarm 5 conditions"? 6 A. No, it does not. 7 Q. Did you look for that? 8 A. Yes, I did. 9 But I also used my expertise to 10 understand this invention to include multiple -- 11 call it criterion, if you will. 12 Q. The specification does not use the 13 phrase "all alarm conditions," right? 14 A. Correct. It just talks in terms of 15 "alarm condition." 16 Q. I'd like to direct your attention now 17 to column 39, about line 29. 18 A. Column 39 of the same patent, right? 19 Q. Yeah. 20 A. Give me a moment. 21 MS. HOEKEL: Did you say line 29? 22 MR. CLAASSEN: Yes.	Page 184 1 Q. What did you take that to mean? 2 A. All the conditions for that 3 particular -- 4 Q. Each and every condition, right? 5 A. Yes, yes. 6 Q. So there must be something less than 7 "all alarm conditions," right? 8 MS. HOEKEL: Object to the form. 9 A. Counselor, I'm not sure how to answer 10 that question. Could you repeat the question? 11 Q. Yeah. 12 There is a statement here that says 13 "all alarm conditions," right? 14 A. Yes. 15 Q. Doesn't that imply there might be less 16 than all alarm conditions? 17 A. Yes, it does. 18 Q. So the inventors knew how to use the 19 word "all" when they meant "all," right? 20 MS. HOEKEL: Object to the form. 21 (Pause) 22 A. I'm not sure if the inventors had the

Page 185 1 same meaning or reading it the same way I did. 2 You are asking me how they used the 3 word "all." 4 And I've told you -- maybe I have not 5 expressed myself -- how I would interpret "all." 6 Q. So am I to understand you right that 7 the inventors may have understood the claims to 8 be different from how you understand the claims? 9 A. And that is my response, yes. That's 10 where my skill in the art comes. 11 Q. Had you seen this use of "all 12 conditions" before? 13 A. Yes, I have. 14 Q. Didn't you tell me earlier that the 15 specification didn't use "all alarm conditions"? 16 A. Again, I did not remember the entire 17 specification, sir. That's why I said I want to 18 refer to the sections. 19 Q. But this isn't some kind of a strange 20 memory test, right? 21 MS. HOEKEL: Objection to form. 22 BY MR. CLAASSEN:	Page 187 1 proposed construction? 2 A. Could you read that line again? 3 I'm looking at page 12, and I'm 4 looking at: Defendants' Proposed Construction. 5 Q. Okay. So defendants' proposed 6 construction -- you understand the defendants 7 include Sotero, right? 8 A. Yes, sir. 9 Q. So the proposed construction is 10 listed. 11 Then there is a list of intrinsic 12 evidence, right? 13 A. Correct. 14 Q. And there is a citation there to 15 column 39, lines 23 to 31, right? 16 A. Yes. 17 Q. What we were just talking about, 18 right? 19 A. Yes. 20 Q. That used the phrase "all alarm 21 conditions," right? 22 A. Remembering what the spec said, yes.
Page 186 1 Q. This is actually cited by Sotero in 2 support of its construction, right? 3 A. I'm not sure what you are asking me, 4 sir. 5 Q. I'm asking you: Is this section cited 6 in support of Sotero's construction? 7 A. No, they used the word "all" right 8 there. 9 Q. Okay. 10 So this section of the specification 11 is not cited in support of Sotero's 12 construction, right? 13 A. No. 14 Q. Let's go back to Exhibit 1. 15 A. Give me a minute. 16 Which page, counselor? 17 Q. Page 12, the one we were just talking 18 about. 19 (Pause) 20 A. Page 12. 21 Q. Can you see there is intrinsic 22 evidence that's identified below Sotero's	Page 188 1 Q. Does the claim recite "all alarm 2 conditions"? 3 (Pause) 4 A. I'm going to say "all," but I may need 5 to go to the claim itself. 6 Q. Let's take a look at the claim itself. 7 It's on the left there. 8 Go to the claim itself. 9 A. It's saying "an alarm condition." 10 Q. Is that "all alarm conditions"? 11 A. No. 12 Q. It's just one, right? 13 A. Yes. 14 (Pause) 15 Q. Earlier we were talking about Masimo's 16 construction, right? 17 A. Correct. 18 Q. What is your understanding of Masimo's 19 construction? 20 A. We are talking about one physiological 21 parameter -- for example, pulse rate -- that -- 22 in terms of being outside set limits.

Page 189 1 Q. So you are talking about the alternate 2 construction, right? 3 A. Yes. 4 Counselor, I don't see the word 5 "alternate." 6 I just see to the extent this term 7 should be construed. 8 Q. Okay. 9 Do you not understand that that's a 10 construction in addition to the plain and 11 ordinary meaning? 12 A. Yes. 13 Q. So it's an alternate, right? 14 A. Yes, I apologize. I'm not an 15 attorney. 16 Q. That's okay. I just want to make sure 17 we are speaking the same language. 18 So what do you disagree with in this 19 construction? 20 A. I don't agree with the preciseness. I 21 think it lacks preciseness and not directing to 22 all the alarm criteria the way I have read the	Page 191 1 What are you talking about? 2 A. I'm saying the courts have said: When 3 an alarm condition is detected for a parameter 4 and it delays a notification of alarm condition 5 until the alarm condition persists for a 6 predetermined alarm notification delay. 7 Q. I'm really confused here. 8 What courts are you talking about? 9 A. I'm reading the claim language on the 10 left. 11 Q. Okay. 12 So you are talking about the -- there 13 is nothing to do with the courts having 14 construed anything, right? 15 A. Yes. 16 Q. So what you are talking about is the 17 column on the left, the claim language? 18 A. Yes. 19 Q. Okay. 20 What about the claim language are you 21 talking about? 22 A. I'm just reading the claim language as
Page 190 1 specs and my expertise in the area. That's 2 where I disagree. 3 Q. "All alarm criteria" is precise enough 4 for you? 5 A. I think the defendant has precisised 6 it -- has defined -- has made it more precise. 7 And that's what we are talking about, the 8 preciseness of the terms. 9 Q. But we also talked about multiple, 10 right? 11 A. Yes. 12 Q. The multiple would probably be more 13 precise than "all," right? 14 A. Yes, I will agree to that. 15 Q. What's the difference between "alarm 16 criteria" and "alarm condition"? 17 A. The way the courts have defined "alarm 18 condition" are just calling it one alarm. An 19 alarm going -- I'm not sure I understand the 20 question. I can look -- 21 Q. You are saying the courts have defined 22 "alarm condition"?	Page 192 1 the courts have articulated. 2 Q. What are you talking about when you 3 say "the courts"? 4 A. I don't know. I don't know because 5 I'm not sure -- let me finish, sir -- I don't 6 know if you are talking about Masimo's proposed 7 construction, or the defendants', or you are 8 asking me the claim language. 9 The term is "alarm condition" -- 10 period. 11 Q. Okay. 12 So my question is: What is the 13 difference between an alarm condition and alarm 14 criteria? 15 A. There is no difference. 16 But the way the specs have been 17 written, it's directed for satisfying all the 18 alarm criteria, in my expert opinion. 19 That's all I'm saying. 20 Q. There is no difference between alarm 21 criteria and alarm condition, right? 22 A. No --

Page 193 1 Q. And we talked about earlier that 2 "criteria" -- 3 MS. HOEKEL: Object to the form, 4 mischaracterizes. 5 BY MR. CLAASSEN: 6 Q. -- is a plural word, right? 7 We talked about earlier that 8 "criteria" is a plural word, right? 9 A. Yes. 10 Q. "Condition" is a singular word, right? 11 A. Yes. 12 Q. So there is at least one difference 13 between the two terms -- right? -- two words, 14 right? 15 A. Yes. 16 Q. Are there any other differences? 17 A. The alarm condition has to be based on 18 something -- 19 Q. Does the criteria -- 20 A. -- either one -- 21 Q. -- also have to be based on something? 22 MS. HOEKEL: Objection.	Page 195 1 Q. We were talking about one of the 2 differences being that "alarm criteria" is 3 plural and "alarm condition" is singular, right? 4 A. Correct. 5 Q. Are there any other differences 6 between "alarm criteria" and "alarm condition"? 7 A. No. 8 Q. You submitted an IPR declaration in 9 support of a petition on this patent as well, 10 right? 11 A. Yes, I did. 12 MR. CLAASSEN: What I sent you is 13 Exhibit 9. And I'll ask the videographer to 14 pull that up for us now. 15 THE WITNESS: Thank you. 16 BY MR. CLAASSEN: 17 Q. Do you see that document? 18 A. Yes, I'm looking at the IPR document, 19 which I submitted, April 9, 2019. 20 Q. This is your declaration, right? 21 A. Yes, it is. 22 Q. It is for the '994 patent?
Page 194 1 You may -- 2 A. Yes -- 3 MS. HOEKEL: -- answer. 4 You guys are talking over each other 5 again. 6 And Dr. Yanulis, make sure you finish 7 your answer and please wait until Mr. Claassen 8 has finished his question. 9 THE WITNESS: I need to shut off my 10 phone. Just a second. 11 MR. CLAASSEN: Let's take a 12 five-minute break. 13 THE VIDEOGRAPHER: The time is 5:09 14 p.m. Off the record. 15 (Recess from 5:09 p.m. to 5:18 p.m.) 16 THE VIDEOGRAPHER: The time is 5:18 17 p.m. Back on the record. 18 BY MR. CLAASSEN: 19 Q. Before the break, we were talking 20 about "alarm criteria" and "alarm condition," 21 right? 22 A. Correct.	Page 196 1 A. Yes. 2 MR. CLAASSEN: I'd like the court 3 reporter to mark this as Exhibit No. 9. 4 (Exhibit 9, Multipage document 5 entitled: Declaration of George E. Yanulis in 6 Support of Petition for Inter Partes Review of 7 U.S. Patent No. 10,255,994, dated June 11, 2020 8 (no Bates Nos.), marked for identification) 9 MS. HOEKEL: I'd just like to have the 10 same objection to this declaration that I had to 11 the previous ones -- that it is beyond the scope 12 of the deposition testimony that Dr. Yanulis is 13 here to give today. 14 BY MR. CLAASSEN: 15 Q. Okay. On page 23, there is a section 16 that starts "Claim Construction" that's now up 17 on the screen. 18 Can you see that? 19 A. Yes, sir, I can. 20 Q. The next page, there is a section that 21 says "alarm condition." 22 Do you see that?

Page 197 1 A. Yes, I do. 2 Q. So you provided an opinion on the 3 construction for "alarm," right? -- sorry -- 4 "alarm condition," right? 5 A. If I'm reading it correctly, 6 counselor, I provided the meaning of the two 7 terms "alarm condition" and "alarm 8 notification" -- 9 Q. Are you reading ahead in Exhibit 9? 10 MS. HOEKEL: Object to the form. 11 BY MR. CLAASSEN: 12 Q. So what I'm looking at right now on 13 the screen is Exhibit 9, page 24. 14 Do you see that? 15 A. Yes. 16 Q. I'm not asking if you provided any 17 construction on other terms. 18 But did you provide an opinion on the 19 construction for "alarm condition"? 20 A. I did. 21 (Pause) 22 Q. This section goes on for a couple	Page 199 1 system to claim construction? 2 MS. HOEKEL: Object to the question -- 3 to the form of the question. 4 BY MR. CLAASSEN: 5 Q. You can answer the question. 6 A. Would you repeat your question? 7 Because I was looking at the line. 8 Q. Yeah. 9 So you are looking at paragraph 48, 10 right? 11 It talks about Sotero's system, right? 12 A. Correct. 13 Q. And this is in your claim construction 14 section, right? 15 A. Correct. 16 Q. And it's in your claim construction 17 section for "alarm condition," right? 18 A. Correct. 19 Q. That's the term we are talking about 20 for the district court also, right? 21 A. Yes. 22 Q. So my question to you is: What is the
Page 198 1 pages. 2 Is that right? 3 A. Correct. 4 Q. I'd like to focus on paragraph 48. 5 That's on the next page and continues now on to 6 page 26. So that's all of paragraph 48 is now 7 up on the screen on two pages. 8 Can you read it this way, when it's 9 two pages? 10 A. I'll be happy to. The line starts 11 out: I understand that in co-pending -- 12 Q. Sorry. I don't want you to read it 13 aloud. 14 I'm just asking if you can read it. 15 A. Oh, I apologize. I'm sorry. 16 Q. So it's legible to you? 17 You can read what's on the screen? 18 A. Yes. 19 Q. So in this paragraph 48, you describe 20 Sotero's system, right? 21 A. Yes, I did. 22 Q. What is the relevance of Sotero's	Page 200 1 relevance of Sotero's system in the construction 2 of alarm condition? 3 MS. HOEKEL: Object to the form. 4 A. It was relevant that I was defining no 5 alarm exists until all alarm criteria are 6 satisfied, including expiration of the pre-alarm 7 delay period of time. 8 Q. What does have that to do with 9 construing the claim? 10 MS. HOEKEL: Same objection. 11 A. We are not talking about construed 12 claim. 13 Q. We are not talking about construction 14 for "alarm condition"? 15 A. We are talking about the construed 16 terms. 17 But in the IPR, all I'm discussing is 18 whether this patent was invalid based on the 19 prior art. 20 Terms really mean nothing in terms of 21 other than making sure that I am looking at 22 using the standard for looking at claim terms.

Page 201 1 Q. Did you construe "alarm condition" 2 based upon how Sotero's device operates? 3 A. No. 4 I construed it on the way that I read 5 the specs in this particular patent to read. 6 Q. The spec mentioned Sotero's system? 7 MS. HOEKEL: Object to the form. 8 A. No, it does not. 9 Q. So what are you referring to in this 10 paragraph 48? 11 A. I was referring to an example. For 12 one skilled in the art this: Is this way this 13 alarm condition -- function?, based on what I -- 14 Q. Go ahead. 15 A. -- based on what I saw in the specs 16 for this particular patent. 17 Q. When you are talking about "this alarm 18 condition," you are talking about the claimed 19 alarm condition, right? 20 A. Correct. 21 Q. What are you talking about when you 22 mentioned Sotero's system?	Page 203 1 Q. But you were looking at Sotero's 2 system when you did that, right? 3 A. Yes, I did look at Sotero's system, 4 only from the sense of understanding what -- to 5 my suspicion was that their alarm -- or their 6 system is basically the same as what is known in 7 the art. 8 Q. What software were you looking at? 9 MS. HOEKEL: Same objection. 10 A. I was not looking at the specific 11 software because I didn't need to. I knew what 12 software needed to do, which is analyze the 13 physiological data obtained and determine 14 whether an alarm condition had occurred or had 15 exceeded a threshold -- nothing more, nothing 16 less. 17 Q. You made conclusions about Sotero's 18 system here, right? 19 A. I'm not making conclusions. 20 I'm commenting on my understanding of 21 how Sotero's device works as far as satisfying 22 all alarm criteria before you have the three
Page 202 1 (Pause) 2 A. I'm, sort of, augmenting why I took 3 the opinion as being divergent, and as it 4 pertains to the Sotero system, as it applies to 5 alarm condition, and what my understanding of 6 that means in view of the specs and the prior 7 art. 8 Q. What software are you talking about in 9 Sotero's system? 10 A. Referring to the software that is 11 proprietary to Sotero for their particular alarm 12 condition analysis, if you will. 13 Q. Where does that software run? 14 MS. HOEKEL: Object -- again I'm going 15 to object to this line of questioning as 16 irrelevant. 17 Q. You can answer the question. 18 A. I'm not sure how to answer it, 19 counselor, because I'm basically discussing it 20 in terms of what I saw in the specs for this 21 particular patent, and the prior art, and my 22 skill in the art. Not sure how else to answer.	Page 204 1 alarm and, like, period of time expiring. 2 Q. And you put that under claim 3 construction for "alarm condition," right? 4 MS. HOEKEL: Excuse me. I didn't hear 5 the question. 6 BY MR. CLAASSEN: 7 Q. You put that analysis under the 8 section for claim construction of "alarm 9 condition," right? 10 A. In the IPR, I did. 11 Did you put up the exhibit for the 12 terms? 13 Q. Wait. Are you now asking to go back 14 to Exhibit 1? 15 A. Yes, I'm asking to go to Exhibit 1. 16 Q. What are you looking for in Exhibit 1? 17 A. Articulating what my opinions were in 18 the so-called construed understanding of this 19 particular term -- "alarm condition." 20 I mean, it's not necessary. But -- 21 Q. In performing the claim construction 22 for the IPR purposes, you referenced Sotero's

Page 205 1 system, right? 2 A. Yes, I did. 3 Q. And you can't tell me what software 4 you looked at, right? 5 A. I did not look at the specific 6 software -- 7 Q. But you -- 8 A. -- I said -- 9 Q. -- say "software analyzes." 10 Right? 11 A. May I finish my response, sir? 12 Q. Go ahead. 13 A. What I said -- I did not look at the 14 specific software because it's proprietary and I 15 didn't need to. 16 I understand as an expert that it's 17 analyzing the physiological data obtained -- or 18 the measurements obtained -- is what I said. 19 Q. Was that based upon a representation 20 of counsel? 21 A. That's on my expertise. 22 Q. Okay.	Page 207 1 A. Yes. 2 Q. -- right? 3 A. Yes. 4 Q. You do not offer an opinion that this 5 term is indefinite, right? 6 A. No. 7 Now, wait a minute. I do. 8 Q. Okay. 9 Where is that? 10 (Pause) 11 A. The statement that I made under either 12 proposed constructions: Plaintiff's proposed 13 construction gives rise to additional bases of 14 invalidity. 15 Q. Are you reading above the line now? 16 You see there is a line at the bottom 17 of page 14 that -- so this is a chart, right? 18 A. Right. 19 Q. And there is "alarm delay or 20 suspension period of time." 21 Do you see that? 22 A. Oh, I'm sorry. You are talking about
Page 206 1 So did you look at software that 2 Sotero provided to you? 3 A. No, I did not. 4 Q. So how can you say that software 5 analyzes the physiological data? 6 A. For this type of system, you as an 7 expert, would know that's what the software is 8 doing. 9 Q. Is that relevant to the construction 10 of "alarm condition"? 11 A. No. 12 (Pause) 13 Q. Let's go back to Exhibit 1 like we 14 were talking about, and we'll move on to the 15 next term. 16 A. Okay. Page 13, right, counsel? 17 (Pause) 18 Q. We were on page 13. I would like to 19 move forward, then, to page 14. 20 So you see there is another term 21 starting there -- "alarm delay or suspension 22 period of time"? --	Page 208 1 the two -- my apologies. 2 Q. Now we are moving on to this term, 3 right? 4 You understand that? 5 A. Yes. 6 Q. So we are talking about "alarm delay 7 or suspension period of time," right? 8 A. I'm with you. 9 Q. Okay. 10 You don't offer any opinion that this 11 term is indefinite, right? 12 A. No, no opinions. I don't think 13 it's -- go ahead. 14 Q. Is there something more you needed add 15 to that response? 16 A. I would like to see the rest of page 17 15, if I can. 18 Q. Sure, go ahead. 19 It continues on to 16 -- 20 A. And as I expected, no, I had no 21 problems calling this term indefinite. 22 I just wanted to see the rest.

Page 209 1 Q. That response was -- I think I 2 understood it, but I want to make sure -- you do 3 not offer any opinion that this term is 4 indefinite. 5 Right? 6 A. For the court record, the term is not 7 indefinite -- in my opinion. 8 (Pause) 9 Q. Sotero's construction is listed in the 10 right-hand column, top of page 14? 11 MR. CLAASSEN: I'll ask the 12 videographer to go back up. 13 BY MR. CLAASSEN: 14 Q. Do you see that? 15 A. I do. 16 Q. What is that construction? 17 A. Without reading it aloud, I have read 18 it. 19 Q. Okay. 20 So it's a period of time in which an 21 active alarm is paused, right? 22 A. Yes.	Page 211 1 your declaration for the '244 patent. 2 Is that right? 3 Do you see it on the screen? 4 A. Correct. 5 Q. In this declaration, you set forth 6 opinions on claim construction for the patent, 7 right? 8 A. Yes, I did. 9 Q. So if we go to page 22 of that 10 declaration -- 11 MR. CLAASSEN: And I'd like that 12 marked as Exhibit 11, please. 13 (Exhibit 11, Document Bates stamped 14 MAS0021498 through 21678, multipage document 15 entitled: Declaration of George E. Yanulis in 16 Support of Petition for Inter Partes Review of 17 U.S. Patent No. RE47,244, dated May 21, 2020, 18 marked for identification) 19 BY MR. CLAASSEN: 20 Q. Do you see this section labeled: 21 Claim Construction? 22 A. Yes, I do.
Page 210 1 Q. Did you apply that construction in 2 your IPR declaration? 3 MS. HOEKEL: Object to the form, 4 object to relevance. 5 BY MR. CLAASSEN: 6 Q. Did you apply that construction in 7 your IPR declaration? 8 MS. HOEKEL: Same objections. 9 (Pause) 10 A. I'm not ignoring you, counselor. I'm 11 thinking about my answers -- 12 Q. Would you like to -- 13 A. -- give me a moment -- 14 Q. -- the IPR declaration? 15 A. Right. 16 Q. Would you? -- 17 MS. HOEKEL: He asked if you would 18 like to see your IPR declaration. 19 THE WITNESS: Yes. 20 MR. CLAASSEN: Okay. 21 BY MR. CLAASSEN: 22 Q. Exhibit 11 is the declaration for --	Page 212 1 Q. Did you set forth any opinion on claim 2 construction with respect to "alarm delay or 3 suspension period of time"? 4 MS. HOEKEL: Object to the form. 5 (Pause) 6 A. Yes, I did. 7 And what I also added on line 45: The 8 "alarm delay or suspension" must be limited to 9 what is taught in the specifications. 10 So I was relying on the specification. 11 Can I read -- can I see page 23? 12 Q. Sure. 13 A. The important term here is "active 14 alarm." The alarm has to be occurring. 15 And that's what I was trying to point 16 out in this particular section. 17 (Pause) 18 Q. So what is your understanding of the 19 correct construction for "alarm delay or 20 suspension period of time"? 21 A. Before you can have either, you have 22 to have an active alarm occurring.

Page 213 1 (Pause) 2 Q. And that's from the phrase "active 3 alarm delay or suspension period of time." 4 Is that right? 5 A. No. 6 But -- what I'm trying to say -- this 7 is why I wrote it -- that the alarm has to be 8 occurring before you have either of those 9 conditions occurring. 10 Q. Why do you say that? 11 A. Because that's what the spec tells me. 12 Q. Is that what the claim tells you? 13 A. No, that's what the spec tells me, and 14 my understanding of one skilled in the art for 15 this particular aspect. You have to have an 16 active alarm occurring. 17 Q. You understand that there is a 18 separate claim element for "activates an alarm," 19 right? 20 A. Yes. 21 Q. What is the difference between that 22 "activate an alarm" and the active alarm in	Page 215 1 about this "activate an alarm." 2 Do you see that? 3 A. Yes. 4 Q. So just to be clear now, we are 5 talking about the '244 patent claim 1, right? 6 A. Correct. 7 Q. And you mentioned: User input. 8 Right? 9 A. No, I misspoke when I said it. 10 All I was saying is the alarm has to 11 be occurring. 12 I misspoke. 13 Q. But you said it, but you misspoke? 14 A. I misspoke based on the way the 15 question was asked, because you -- I'm having 16 trouble understanding you switching from the IPR 17 to what the purpose of me discussing the claims 18 terms being disputed. 19 They are two different things. 20 Q. Same claim, right? 21 A. What's in the claim? 22 Q. The same claims are involved in the
Page 214 1 "alarm delay or suspension period of time"? 2 A. There is no difference. 3 Q. Then why does the claim say "activate 4 an alarm"? 5 A. I'm implying or stating there has to 6 be some user input. And that user input occurs 7 after the alarm is already occurring. 8 Q. Where is the user input in this claim? 9 A. It's not in this section, sir. 10 Q. Do you want to go back to the claim 11 itself? 12 A. Yes, I'd like to see the claim. 13 Q. Would it be most helpful for you to 14 see it in the context of patent specification? 15 Or do you want to go back to Exhibit 16 1? 17 A. Probably be best to see it in Exhibit 18 1. 19 Q. Let's go back to Exhibit 1, then. 20 (Pause) 21 Q. Now, this is the end of the claim that 22 we were talking about, and I was just talking	Page 216 1 patent lawsuit in the district court and in the 2 IPR, right? 3 A. Yes. 4 Q. So what's confusing you about 5 switching? 6 A. I'm just rearticulating my focus and 7 purpose for writing the IPRs versus my 8 understanding of explaining why I believe 9 Sotero's construction is correct. 10 I'm not confused -- 11 Q. If Sotero's construction is correct, 12 didn't you have a duty to disclose that to the 13 Patent Office? 14 MS. HOEKEL: Object to the form. 15 A. I believe I said early in the record 16 that the claim terms are invalid for both 17 parties in the IPR. 18 What's important in the IPR and what 19 my goal and task -- and I believe accomplish 20 that -- is saying: This particular patent was 21 invalid based on the prior art and my expertise 22 in the art.

Page 217 1 I did not -- again, the claims are 2 invalid for both parties in the IPR. 3 Q. "For both parties" -- you mean under 4 either construction? 5 A. Correct. 6 Q. Did you explain that to the Patent 7 Office? 8 MS. HOEKEL: Object to the form. 9 A. No, not directly. 10 (Pause) 11 A. May I add to that? 12 Q. Go ahead. 13 A. In this declaration, I discussed 14 whether this patent was invalid. 15 Q. When you say "this declaration," now, 16 you are talking about Exhibit 11, which is your 17 declaration regarding the '244 patent IPR, 18 right? 19 A. Yes, sir. That's all. 20 (Pause) 21 Q. So you were construing the claims for 22 purposes of evaluating invalidity in the IPR,	Page 219 1 discussion today to discuss the disputed terms. 2 They are not the same exercise. 3 Q. The claim construction process is not 4 the same exercise in the IPR and the district 5 court? 6 MS. HOEKEL: Object to the form. 7 A. I don't know how else to say it than 8 to repeat it -- that the claim construction as 9 discussed in the IPR for both parties has not 10 really been my focus. 11 The focus was to prove that the patent 12 for the purposes of the patent board was invalid 13 based on the prior art, my expertise, file 14 histories, and nothing else -- and the file 15 histories and nothing else. 16 Q. But you need the claim construction to 17 perform that analysis, right? 18 A. Yes. 19 (Pause) 20 Q. Further down in Exhibit 1, there is a 21 little more discussion about how defendants may 22 rely on you.
Page 218 1 right? 2 A. Correct. 3 Q. Are you construing them for a 4 different purpose in the district court? 5 A. In the district court, I'm also 6 concerned not just with invalidity; I'm also 7 concerned with infringement. 8 Q. Shouldn't the same claim construction 9 apply in both the IPR and the district court? 10 MS. HOEKEL: Object to the form. 11 (Pause) 12 A. My purpose for writing the IPR 13 declaration was to support my contention that 14 the patent is invalid based on prior art -- 15 nothing more, nothing less. 16 Q. In the district court, your contention 17 is something slightly different. 18 Is that what you are implying? 19 MS. HOEKEL: Object to the form. 20 A. I didn't say that, sir. 21 I said: My purpose for the IPR 22 declaration is different than my -- our	Page 220 1 Are you familiar with that? 2 A. Yes, sir. 3 Q. I'd like to move, then, down to page 4 21 of Exhibit 1. 5 You see there, it begins: Defendants 6 may rely on Dr. Yanulis? 7 A. Yes, I do. 8 Q. And that continues on to the next 9 page, right? 10 A. Yes, sir. 11 MR. CLAASSEN: So let's move down to 12 page 21. We can just -- page 22 is sufficient. 13 That was more for the videographer 14 than it was for you. 15 THE WITNESS: No, I understand. 16 BY MR. CLAASSEN: 17 Q. You see there where it says: 18 Understand -- and I'm assuming this is the 19 person of ordinary skill in the art would 20 understand? 21 Is that right? 22 Or do I need to go back up --

Page 221 1 A. Correct. 2 Q. You mention: Scope of the '244 to be 3 limited to pausing an active alarm. 4 Do you see that? 5 A. Yes, sir, I do. 6 Q. Then you say: E.g. silence or pausing 7 the active alarm? 8 A. For example. 9 Q. Okay. For example. 10 And is that for example describing the 11 entire pausing an active alarm? 12 A. I'm just saying that, in order to 13 pause an alarm which is already occurring, it 14 requires user input to actually cause the alarm 15 to be paused. 16 Q. Does it say anything about user input 17 here? 18 A. No. But for one skilled in the art, 19 he should understand that, for the alarms that 20 are already active, you have to apply some type 21 of user input -- 22 Q. Why does it have to be a user input?	Page 223 1 Q. It not here on this page anywhere, 2 right? 3 A. No. 4 Q. So why would this disclose that this 5 step required some sort of user input? 6 A. How else would you pause it, sir? 7 Q. Automatically. 8 Is that possible? 9 A. It's possible, but that's not the way 10 the specs read -- 11 Q. Isn't -- 12 A. -- it's not the way -- 13 Q. -- does it -- 14 A. You could have another user input, 15 like Alexa's, or something like that. 16 Q. What I'm trying to understand, Dr. 17 Yanulis, is why you are so literal when you are 18 reading the patent specification, but I'm 19 supposed to be not so literal when I'm reading 20 your analysis on this page? 21 MS. HOEKEL: Object to the form. 22 Q. Do you understand my concern here?
Page 222 1 I'm sorry. I stepped on your answer 2 there. 3 Do you have more to add? 4 A. There has to be some kind of user 5 input to pause or silence this alarm. 6 Q. That's all from "alarm delay 7 suspension or period of time." 8 Is that right? 9 A. Yes. 10 Q. For example, silence or pausing the 11 active alarm -- you see that? 12 A. Yes. 13 Q. Does that add any more than "silence" 14 to "pausing an active alarm"? 15 A. It's still user input. You are either 16 silencing it or pausing it. But it's for 17 active -- 18 Q. -- though, does it? -- 19 A. Would you repeat your question? 20 Q. This doesn't say anything about user 21 input, does it? 22 A. No.	Page 224 1 It doesn't say anything about a user 2 here. 3 A. That's the purpose of our discussion, 4 to agree on the preciseness of these terms. 5 And I don't agree with Masimo's 6 preciseness. I agree with my preciseness based 7 on my skill. 8 Q. You continue on: The specification 9 does not support alarm pre-alarm delays. 10 Do you see that? 11 A. Yes. 12 Q. What did you mean by that? 13 A. I'm saying the claims, to be more 14 precise, should include alarm delay or 15 suspension time based on the specification that 16 I've read. 17 Q. Wait a minute. 18 Doesn't it say the specification does 19 not support alarm pre-alarm delays? 20 Right? 21 A. That's why I don't agree with Masimo's 22 position.

Page 225 1 Q. This is Sotero's position, right? 2 A. All I'm referring to in this section 3 is, in order to understand the scope of the 4 invention, it has to be limited to pausing an 5 active alarm. 6 Q. That's in part because the 7 specification does not support alarm pre-alarm 8 delays, right? 9 A. Correct. 10 Q. Is that a lack of written description 11 argument? 12 MS. HOEKEL: Object to the form, calls 13 for a legal conclusion. 14 BY MR. CLAASSEN: 15 Q. How is it relevant to claim 16 construction? 17 A. Other than the way I answered it, I'm 18 referring to my expertise as a medical device 19 engineer, not an attorney. 20 So I'm not sure how to answer that 21 question other than the way I have. 22 Q. Where do you get the phrase "alarm	Page 227 1 it or suspend it. 2 Q. It doesn't say anything about an input 3 in this -- 4 A. No, it does not, sir. 5 But as an expert, I'm adding what one 6 skilled in the art would mean this to be, or 7 what it should be supported by. 8 Q. Are there limits to what a person of 9 ordinary skill in the art can add to a claim? 10 A. I didn't hear your question. I'm 11 sorry. 12 Q. Are there limits to what a person of 13 ordinary skill in the art can add to a claim? 14 MS. HOEKEL: Objection, calls for a 15 legal conclusion. 16 A. I'm not sure I understand the 17 question. And I'm not sure I can answer it, 18 other than what I've given. 19 Q. It continues on here saying: Does not 20 support parameter-specific pre-alarm delays. 21 Do you see that in Exhibit 1? 22 A. Yes, sir.
Page 226 1 pre-alarm delays"? 2 A. Because in the specs, it recites the 3 use of pre-alarm delays. And it's not supported 4 by what that is in the specs. 5 Q. I have a very basic question for you. 6 Does the specification support alarm 7 pre-alarm delay? 8 MS. HOEKEL: Object to the form. 9 A. No, it does not. 10 Q. Your answer just before this last 11 question was: Because the specs it recites the 12 use of pre-alarm delays. 13 Right? 14 MS. HOEKEL: That's not his complete 15 answer. Please read his complete answer if you 16 are going to quote his answer back. 17 Q. It continues: And it's not supported 18 by what is in the specs. 19 So I'm trying to understand which way 20 you are arguing here. 21 A. I'm arguing that you have an active 22 alarm, and there has to be some input to delay	Page 228 1 Q. What are you referring to there? 2 A. Now you are talking about the fact 3 that I said the specs not support 4 parameter-specific pre-alarm delays. 5 That's all I'm saying. 6 Q. Do you remember what construction you 7 applied for this term in your IPR declaration? 8 A. Plain and ordinary meaning. 9 Q. Is that similar to Masimo's 10 construction? 11 A. Yes. 12 Q. Is it the same? 13 A. Is it the same for what? 14 Q. Is the plain and ordinary meaning the 15 same construction that Masimo applies to this 16 term? 17 A. I don't agree with Masimo's proposed 18 construction. 19 Q. That's what you proposed in the IPR 20 declaration, right? 21 MS. HOEKEL: Object to the form. 22 (Pause)

Page 229 1 Q. Do you understand the question? 2 A. Yes. 3 Q. Can you answer it? 4 A. I believe I've answered it, sir. I'm 5 saying that the specs do not support 6 parameter-specific pre-alarm delays. 7 Q. That's not my question. 8 My question is: Did you apply the 9 same construction that Masimo proposes now in 10 your IPR declaration? 11 A. Yes, I did. 12 Q. Let's move on, then, to the next term, 13 the "one or more processors" term. And that 14 begins on page 23 of Exhibit 1, the joint claim 15 construction chart. 16 Do you see that? 17 A. Yes. 18 Q. Is it your opinion that this term is a 19 means-plus-function term? 20 A. Yes -- well, function and structure. 21 Q. What was your response, again, Dr. 22 Yanulis?	Page 231 1 Q. Do you understand that there is a 2 difference between a structural claim element 3 and a means-plus-function claim element? 4 A. Yes, I do, sir. 5 Q. What is the difference? 6 A. The function is basically a method 7 that accomplishes what that structure does, or 8 it describes what the process is accomplished by 9 that structure or element. 10 Q. What about this limitation makes it a 11 means-plus-function limitation? 12 (Pause) 13 A. If I'm reading this -- the one or more 14 processors configured to electronically ... 15 determine that the measurement of the parameter 16 satisfy an alarm activation threshold. 17 Q. What about that makes it 18 means-plus-function? 19 A. Describing the means by how it's done. 20 Q. What's "the means" here? 21 A. The processor. 22 Q. Can a processor ever be sufficient to
Page 230 1 Is it your understanding that this 2 term is a means-plus-function term? 3 (Pause) 4 A. I'm saying this term are -- I am using 5 function and structure for the way the 6 processors are configured. 7 Q. Do you know what a means-plus-function 8 term is? 9 A. Not to the same extent as an attorney 10 would. 11 Q. Do you have any understanding of what 12 a means-plus-function term is? 13 A. Means-plus-function is the -- the 14 means is the method -- they are kind of the same 15 thing. 16 Q. Kind of the same thing as what? 17 A. They are the same thing in my 18 understanding. 19 Q. What are the same thing? 20 A. Means-plus-function describes the 21 process that's occurring. 22 (Pause)	Page 232 1 denote structure by itself? 2 MS. HOEKEL: Object to the form. 3 A. No. 4 Q. Never? 5 A. I didn't say never. 6 Q. I'm asking: Never. 7 A. No -- repeat the question. 8 Q. Can a processor ever be sufficient to 9 denote structure? 10 A. It can be. 11 Q. When does it denote structure? 12 A. I didn't hear the last part, sir. 13 Q. When is a processor structure? 14 MS. HOEKEL: Object to the form. 15 A. When it's defined in a specific unit, 16 subunit, or whatever, from the figures and 17 specs. 18 Q. Let me ask this question a little more 19 simply. 20 When a patent uses the word 21 "processor" -- you are familiar with that 22 concept? --

Page 233 1 A. Yes. 2 Q. -- does that mean that whatever 3 function the processor performs is going to make 4 that claim limitation means-plus-function? 5 MS. HOEKEL: Object to the form. 6 A. From my understanding, I would say: 7 Yes. 8 (Pause) 9 Q. Could a processor be sufficient 10 structure to compare a value to a limit? 11 MS. HOEKEL: Object to the form. 12 A. It depends on how it's disclosed in 13 the specs. 14 Q. You'd have to read the specification 15 to tell? 16 A. Which is what I did while reading this 17 chart. 18 Q. So how did you determine that this 19 processor claim limitation recited a 20 means-plus-function term? 21 A. I guess I don't understand your 22 definition of "means-plus-function," sir.	Page 235 1 Q. Do you have an answer? 2 A. I'm not sure how to answer because I'm 3 not an attorney. I'm looking at this from an 4 expert evaluation. I'm not privy to all the 5 facets of 112(6). 6 Q. So did the attorneys tell you that 7 this term was 112(6)? 8 A. Yes, they did. 9 Q. Did you rely on that representation 10 from the attorneys? 11 A. I relied on that. 12 But I also relied as to what has been 13 disclosed in specs, as far as function and 14 structure. 15 So I relied on both. 16 (Pause) 17 Q. Do you think that 112(6) is the 18 correct construction for this term? 19 A. In my understanding and limited 20 understanding, yes. 21 Q. Did you use that construction in your 22 IPR declaration?
Page 234 1 Q. So you don't know what a 2 means-plus-function term is? 3 MS. HOEKEL: Object to the form. 4 A. The way you are asking me, sir, I 5 don't understand. 6 Q. Let me use a different term and see if 7 you understand that. 8 Do you know what 112(6) is? 9 A. Yes. 10 Q. What is it? 11 A. From my limited understanding and 12 background, it pertains to the function. 13 Q. When does 112(6) apply? 14 A. I'm not privy to all the conditions. 15 Q. Are you privy to the conditions that 16 apply to this particular term? 17 A. Yes. 18 Q. What makes this term 112(6)? 19 (Pause) 20 MS. HOEKEL: Going to have the same 21 objection, calls for a legal conclusion. 22 A. I'm not sure how to answer it, sir.	Page 236 1 A. Yes. 2 Q. You did? 3 A. No. 4 Q. Did you? 5 Or didn't you? 6 A. Did not. 7 Q. Did not. 8 So you did not use that construction 9 for your IPR declaration, right? 10 MS. HOEKEL: Same objections to 11 relevance, and this is not being a memory test. 12 A. I don't remember. 13 MR. CLAASSEN: Let's pull up what was 14 previously marked as Exhibit 11. 15 BY MR. CLAASSEN: 16 Q. Do you remember looking at this 17 Exhibit 11? 18 A. Yes, I do. 19 Q. And this is the declaration that you 20 wrote for the IPR for the '244 patent, right? 21 A. Correct. 22 Q. And you set forth positions on claim

Page 237 1 construction in this declaration, right? 2 A. Yes, I did. 3 MR. CLAASSEN: Let's go to page 22 4 through 23. 5 BY MR. CLAASSEN: 6 Q. Do you see that section labeled: 7 Claim Construction? 8 A. Are you referring to opinions of claim 9 construction starting on 43? 10 Q. Or the heading "Claim Construction" 11 above that, yes, also -- 12 A. Yes. 13 Q. Okay. 14 Do you see that? 15 A. Yes. 16 Q. So we are talking about Exhibit 11 on 17 page 22, Claim Construction. 18 You see that, right? 19 A. Yes. 20 Q. Do you set forth any opinion about 21 means-plus-function terms on these two pages? 22 MS. HOEKEL: Objection.	Page 239 1 A. Other than I've given the terms plain 2 and ordinary meaning. 3 Q. Okay. 4 So you gave the terms plain and 5 ordinary meaning, right? 6 A. Correct. 7 Q. Isn't that Masimo's construction for 8 the "one or more processors" term? 9 MS. HOEKEL: In the lawsuit? 10 MR. CLAASSEN: I won't limit it to 11 that. 12 A. That was going to be my answer, by the 13 way: In the lawsuit. 14 Q. So your response is: In the lawsuit? 15 A. Yes. 16 Q. So you understand that Masimo's 17 construction of this term is plain and ordinary 18 meaning, right? 19 A. Correct. 20 Q. And that's the same construction you 21 set forth in your IPR declaration, right? 22 A. Yes.
Page 238 1 MR. CLAASSEN: What's the objection? 2 Are you continuing? -- 3 MS. HOEKEL: My objection is partially 4 the continuing objection, and also that it is 5 vague and incomplete. 6 BY MR. CLAASSEN: 7 Q. Do the words "means-plus-function" 8 appear on these two pages of your declaration? 9 A. I'm taking a moment just to read the 10 entire page. 11 Q. Go ahead. 12 (Pause) 13 A. Okay. I've read it. 14 Q. Do the words "means-plus-function" 15 appear in this section? 16 A. No. 17 Q. Does "112(6)" appear anywhere in this 18 section? 19 A. No, it does not. 20 Q. So there is no opinion in your IPR 21 declaration under a means-plus-function 22 construction, right?	Page 240 1 Q. Going back to your Exhibit 1, Sotero 2 also proposed an alternative construction, 3 right? 4 A. Can we go back to that? 5 Q. Yeah. 6 Actually, before we go down to the 7 alternative construction, I have a couple of 8 questions for you to follow up on the structure 9 that you opine on. 10 So on page 23 of Exhibit 1 -- Exhibit 11 1, the joint chart? 12 (Pause) 13 Q. So you see the bottom of page 23 there 14 where there is some structure identified? 15 A. Yes. 16 Q. Did you help identify that structure? 17 A. No. I just gave opinions. 18 No. The answer is: No. 19 Q. What opinions did you give about that 20 structure? 21 A. I didn't give any opinions in this 22 particular district court construed. I haven't

Page 241 1 written any opinions yet on it, other than 2 understanding and explaining why I agreed with 3 the proposed construction and evidence. 4 Q. But you've looked at this structure, 5 right? 6 A. Yes. 7 Q. Is this the minimum structure required 8 to perform the function? 9 A. Yes. 10 Q. Does it need all of what's disclosed 11 in Figure 3? 12 A. Yes. 13 Q. Does it need all of what's disclosed 14 in Figure 4? 15 A. I don't know Figure 4. I have to look 16 at Figure 4. 17 Q. There is Figures 3-4 in the -- 18 A. Oh, okay. 19 Q. You got it? 20 A. Yes. 21 Q. So does it require all of Figure 3? 22 A. No.	Page 243 1 implying it's already occurring -- either 2 visually or auditory. 3 Q. That's for determining that the 4 measurement of the physiological parameter 5 satisfies an alarm activation threshold, right? 6 A. Yes. 7 Q. Now, in the next page -- page 24 -- 8 there is an alternative construction. 9 Do you see that? 10 A. Yes. 11 Q. Do you agree with that construction? 12 A. As far as defendants? Yes. 13 Q. As far as defendants. 14 Is that what you said? 15 A. Yes, sir. 16 (Pause) 17 Q. So this claim limitation requires 18 "resulting in the activation of an alarm," 19 right? 20 A. Correct. 21 Q. And you understand that there is a 22 separate claim limitation for "activate an
Page 242 1 Q. No? 2 A. No, it does not. 3 But I'm trying to finish my answer for 4 what you had asked me, sir. 5 Q. Go ahead. 6 A. What I was also saying that -- why I 7 take the position, agree with the position, you 8 are satisfying a program to activate an alarm 9 upon determination. And you are waiting until 10 you have satisfied an alarm activation 11 threshold. 12 Q. What is your understanding of what 13 structure has to be disclosed for a 112(6) claim 14 element? 15 MS. HOEKEL: Object to the form. 16 A. The term "active alarm" -- alarm 17 already has to be occurring -- before you can -- 18 Q. Do you need any other structure, other 19 than the active alarm? 20 A. No. 21 Q. Just an active alarm? 22 A. When I say "active alarm," I'm	Page 244 1 alarm," right? 2 A. Yes, I do. 3 Q. But this alternative definition is 4 precise enough for you, right? 5 A. Yes. 6 (Pause) 7 Q. Let's move on to the next claim 8 limitation. That's on page 33 of Exhibit 1, the 9 joint claim construction chart. 10 MS. HOEKEL: We have been going about 11 an hour again, so whenever you get to a good 12 breaking point. 13 MR. CLAASSEN: This is a very good 14 breaking spot. We are starting a new term. 15 How much time would you like? 16 MS. HOEKEL: Ten minutes just to 17 stretch legs, get a drink. 18 MR. CLAASSEN: That sounds good. 19 THE VIDEOGRAPHER: The time is 6:15 20 p.m. We are off the record. 21 (Recess from 6:15 p.m. to 6:22 p.m.) 22 THE VIDEOGRAPHER: The time is 6:22

Page 245 1 p.m. Back on the record. 2 BY MR. CLAASSEN: 3 Q. Dr. Yanulis, we are moving on to this 4 next claim element. We are now talking about 5 "electronically initiating." 6 Do you see that on your screen, 7 Exhibit 1, page 33, of the joint claim 8 construction chart? 9 A. Yes, I do. 10 Q. What's your understanding of Sotero's 11 construction for this claim limitation? 12 A. My understanding is that you are 13 pausing this first alarm for a period of time or 14 particular parameter in response to user input 15 from a user, or request from a user. 16 Q. Did you use that construction in your 17 IPR declaration? 18 MS. HOEKEL: Objection. 19 Q. This is the same patent we have been 20 talk about -- right -- the '244 patent? 21 A. I'm not trying to hedge the answer. 22 I think the best answer was: To some	Page 247 1 with that the way they proposed this 2 construction of this term. 3 Q. What are you talking about right now? 4 A. Talking about the: Electronically 5 initiating, using the patient monitoring device, 6 the first parameter-specific alarm delay or 7 suspension period of time. 8 Q. So that entire phrase, Masimo proposes 9 plain and ordinary meaning, right? 10 A. Up to the point that they haven't 11 included in my opinion pausing -- 12 Q. That's not my question. 13 My question is: Masimo proposes plain 14 and ordinary meaning, right? 15 A. I don't agree with the term 16 "initiating." 17 Q. I'm not asking if you agree with it. 18 I'm asking if Masimo proposes the 19 plain and ordinary meaning. 20 A. Yes, they do. 21 Q. Isn't that what you proposed in your 22 IPR declaration?
Page 246 1 extent. 2 But, again, the IPR was more of an 3 exercise to look at invalidity. This is looking 4 at potential infringement. 5 Q. So a different claim construction 6 should apply. 7 Is that right? 8 A. No, same claim -- I'm sorry -- same 9 claim construction. 10 It's just I'm trying to identify and 11 support why defendants' construction is correct, 12 why I don't agree with Masimo. 13 Q. So you don't agree with Masimo's, 14 right? 15 A. Not in this proposed construction of 16 this claim, no. 17 Q. And Masimo's construction is plain and 18 ordinary meaning, right? 19 A. It is. 20 But then you mention: The first 21 parameter-specific alarm delay. 22 And my contention is I don't agree	Page 248 1 MS. HOEKEL: Same objection. 2 A. In the IPR, yes. 3 Q. So you proposed the same construction 4 that Masimo proposes in the district court, 5 right? 6 MS. HOEKEL: Same objection. 7 A. Not to the extent that they have 8 construed the claim -- 9 Q. Now you are talking about to the 10 extent the court concludes the construction of 11 "initiating is necessary," right? 12 A. Yeah. I have problems the way they 13 say: Of "initiating" is necessary. 14 I think that's -- 15 Q. What does "initiating" mean to you? 16 A. To begin. 17 Q. Isn't that what this says -- the term 18 should be construed as "beginning"? 19 A. It should also incorporate having some 20 kind of user input. 21 Q. "Initiating" should have user input? 22 A. Yes, to be more precise.

Page 249 1 Q. How does a user electronically 2 initiate? 3 A. He -- why I have set up and why I 4 agree with the proposed construction of Sotero, 5 I say you have to have an actual action where 6 you are actually pausing or holding some button. 7 (Pause) 8 Q. Where does it say anything about a 9 button in this construction from Sotero? 10 A. I'm implying as an expert. 11 It would have to be some kind of 12 button, or it could be something else, so long 13 as you have user input. 14 I should just limit to that. 15 Q. What would the "something else" be? 16 A. You could have an electric system. 17 Q. Explain what you mean by that. 18 A. You could set up an electric system to 19 cause pausing or suspend particular actions. 20 Q. Could a user do that with a mouse? 21 A. Yeah. 22 Q. Could a user do that with a keyboard?	Page 251 1 Q. Does the '244 patent use the word 2 "pause"? 3 A. No, it does not use that particular 4 word. 5 Q. You've tried to incorporate it into 6 two different constructions now, right? 7 MS. HOEKEL: Object to the form. 8 A. I think there is a difference -- I 9 don't agree with the way Masimo proposes to 10 initiate this action. 11 Q. We are talking about pause now. 12 A. Yes. 13 Q. So you are trying to insert the word 14 "pause" into the claims, right? 15 A. I guess I am. 16 Q. Trying to do that in two places, 17 right? 18 A. Yes. 19 Q. That word "pause" doesn't appear in 20 the specification at all, right? 21 (Pause) 22 A. Not the direct word "pausing," no.
Page 250 1 A. Yes. 2 Q. Would that be a button? 3 A. I'm sorry? 4 Q. Would that be a button? 5 A. Yeah -- I mean, you could -- any type 6 of -- I'll just say any device. 7 Q. So if a user input a parameter, would 8 that satisfy your "something else"? 9 MS. HOEKEL: Object to the form. 10 A. The user input would have to be some 11 kind of physical act, whether it be user 12 pressing a button, keyboard, or whatever, or an 13 Alexa system doing it. They all would do the 14 same thing. They pause their first alarm for a 15 period of time. 16 Q. This is the second claim term that 17 uses the construction pause, right? 18 A. In Sotero's position. 19 Q. Right. 20 So Sotero proposes pause for multiple 21 claim terms, now, right? 22 A. Correct.	Page 252 1 But there is some action that causes 2 this response of stopping the alarm. There is 3 something. And there are several ways of doing 4 it. 5 Q. I asked you earlier, but I'm not sure 6 I understood your answer. 7 Did you apply Sotero's construction in 8 your IPR declaration? 9 MS. HOEKEL: Same objection. 10 Q. Do you understand the question? 11 A. I do. I'm just thinking about the 12 appropriate answer and the correct answer. 13 As an expert, I did consider that. 14 But, again, the IPR, I was looking 15 more at the prior art as far as invalidating, 16 not to the level of this terminology that's 17 being construed. 18 So, no. 19 But I did concern myself with 20 understanding what it means. 21 Q. You construed a different conclusion 22 in the IPR, right?

Page 253 1 MS. HOEKEL: Object to the form. 2 A. Yeah -- the IPR was written for a 3 different -- call it -- goal or reason. And it 4 was primarily directed for invalidity. 5 Here we are talking about terms that 6 are being disagreed -- we are trying to find the 7 best precise terminology, trying to get some 8 agreement. That's the purpose of this exercise. 9 Q. And that's not the purpose of claim 10 construction in the IPR process, right? 11 MS. HOEKEL: Objection. 12 A. I wasn't concerned with claim 13 construction, other than applying the standard 14 of plain and ordinary meaning. It was a much 15 broader -- whereas I was -- my intent, as I said 16 before, was to support my evidence that the 17 prior art, in my expertise, invalidates the 18 patents. 19 Q. But you didn't perform that analysis 20 using Sotero's construction, right? 21 MS. HOEKEL: Object to the form. 22 A. What I looked at is the specs, file	Page 255 1 court case at the top of the right-hand column 2 on page 40? 3 A. Are you referring to 4 parameter-specific alarm delay? 5 Q. That's the top of that column, yes. 6 But you see the first full sentence 7 there that says: Dr. Yanulis may explain? 8 A. Yes. 9 Q. And it says: That the '244 Patent 10 only supports pausing of an already activated 11 alarms in response to user input. 12 Right? 13 A. Correct. 14 Q. How does that relate to claim 15 construction? 16 A. Well, the patent does not support the 17 parameter-specific pre-alarm delay. So that's 18 what I'm having some concern about -- 19 parameter-specific pre-alarm delay. 20 Q. How is that relevant to claim 21 construction? 22 A. Because the parameters specific are
Page 254 1 history, and my knowledge of these particular 2 systems in supporting my claim -- or supporting 3 my contention -- that the prior art basically 4 invalidated the patent. 5 Q. In performing that analysis, you did 6 not use Sotero's proposed construction, right? 7 MS. HOEKEL: Object to the form. 8 A. No, not directly. 9 I was relying on prior art, and the 10 specifications in the patent, and my knowledge 11 of that particular device. 12 (Pause) 13 THE WITNESS: Are you guys hearing me 14 okay? 15 MR. CLAASSEN: Yes, thank you. 16 (Pause) 17 MR. CLAASSEN: On this Exhibit 1, 18 let's turn now to page 40. 19 (Pause) 20 BY MR. CLAASSEN: 21 Q. Do you see there is some description 22 of your proposed testimony in this district	Page 256 1 not -- they are not parameter-specific the way 2 that the specs have been written, as far as 3 understanding the scope of the invention. 4 Q. I want you to focus now on that one 5 sentence. 6 I don't see anything about 7 "parameter-specific" in that sentence. 8 Dr. Yanulis may explain that the '244 9 patent only supports pausing of already 10 activated alarms in response to user input. 11 Do you see that? 12 A. Yes. 13 Q. That doesn't say anything about 14 "parameter-specific," right? 15 A. No, but it does in the next line. 16 Q. Okay, we'll get to the next line in 17 just a minute. I want to talk about this first 18 sentence first to make sure I understand it -- 19 A. Okay. 20 Q. -- okay? 21 How is that sentence -- only 22 supports -- the specification only supports

Page 257 1 pausing of already activated alarms in response 2 to user input -- relevant to claim construction? 3 A. Based on the way the specifications 4 have been disclosed, it's only supporting an 5 already active alarm or, in other words, alarm 6 that's already going off. 7 Q. Do you understand the phrase "written 8 description"? 9 A. Yes. 10 Q. What does that mean to you? 11 A. Written description -- 12 MS. HOEKEL: Object to the form. 13 A. -- implies a discussion in view of 14 specs, the figures, explaining what their 15 invention is -- in other words, what are they 16 trying to do. 17 Q. Is this sentence talking about written 18 description? 19 Or is it talking about claim 20 construction? 21 MS. HOEKEL: Object to the form, calls 22 for legal conclusion.	Page 259 1 A. Well, without reiterating the whole 2 specification, in order to have the proper 3 construction in terms of the way the 4 specification has been disclosed, it has to, in 5 my opinion, require pausing an already activated 6 alarm, or an alarm that's already occurring. 7 Q. But we have talked about the 8 specification discloses that part. 9 A. Right. 10 Q. Now let's talk about that user input. 11 A. In response to the user input, that 12 was the last part. 13 Q. Right. 14 And those are in conjunction with one 15 another, right? 16 A. Yes. 17 Q. So where did you get the "in response 18 to user input" portion of your opinion? 19 A. I was looking at the inventive scope 20 of the device, of this particular patent in 21 terms of how they defined or disclosed the alarm 22 systems.
Page 258 1 A. Well, I can't speak about from a legal 2 perspective. 3 But from an expert in this case, I can 4 discuss the fact that I'm looking at the scope 5 of the invention in view of the way the 6 specifications are written, in combination with 7 the claims and my expertise for one skilled in 8 the art. 9 (Pause) 10 Q. Does the '244 patent only support 11 pausing of already activated alarms -- and 12 forget the rest of the sentence? 13 So I want you to break up the sentence 14 now. 15 Does the '244 patent support pausing 16 already activated alarms? 17 A. In my opinion, yes. 18 Q. So the focus of this sentence is 19 really on "in response to user input," right? 20 A. As it's written, yes. 21 Q. Where did you get that from the 22 specification?	Page 260 1 Q. So "the inventive scope of the 2 device"? 3 Is that right? 4 A. No -- the scope of the invention, as 5 disclosed in the patent. 6 MR. CLAASSEN: Sorry. You are leaning 7 forward, so we can't hear. 8 THE WITNESS: I'm sorry. 9 A. The invention as disclosed in the 10 specs. 11 And my contention is that it only 12 supports -- the way it is written -- pausing an 13 already existing alarm. 14 Q. And a person of ordinary skill in the 15 art wouldn't understand any other sort of 16 electronically initiating, right? 17 MS. HOEKEL: Object to the form. 18 A. I didn't say that. 19 Q. I'm asking you now. 20 A. Finish your question, counselor. I 21 want to make sure I understand it completely. 22 Q. How would a person of ordinary skill

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Page 261 1 in the art understand "electronically 2 initiating"? 3 A. It would articulate to me that the 4 alarm is already occurring, and that requires 5 some kind of response to stop it, if necessary. 6 Q. Why does that response have to be from 7 a user? 8 A. It doesn't have to be. That's why I 9 alluded to -- it could be terminal, could be a 10 mouse pad, or button. 11 Q. Then moving down to that last sentence 12 in Exhibit 1, page 40. 13 And now we are talking about: Dr. 14 Yanulis may explain that the '244 Patent does 15 not support parameter-specific pre-alarm delays. 16 Do you see that? 17 A. Yes, sir. 18 Q. Does that mean anything more than it 19 says? 20 A. Yes, it does. The scope of the 21 patent -- the so-called parameter-specific 22 pre-alarm delays are not parameter-specific as	Page 263 1 or auditory signal going off that the clinician 2 can view. 3 Q. And that's a pre-alarm delay, right? 4 A. No, sir. 5 Q. What is that? 6 A. I'm saying: There is no such -- in my 7 understanding, I don't agree with the term 8 "parameter-specific pre-alarm delay." 9 I don't think that's a proper 10 construction, and it's not supported in the 11 specs. 12 Q. Where are you getting pre-alarm delay 13 from the claims? 14 A. Not getting it from the claim per se. 15 I'm saying that the patent has not 16 properly supported the fact that you have to 17 have an actively occurring alarm. I'm saying 18 that's what's lacking. 19 And to claim it as such is not proper. 20 Q. Where does Masimo claim the pre-alarm 21 delay? 22 MS. HOEKEL: Object to the form.
Page 262 1 far as being pre-alarm delays. 2 Q. Can you explain what you mean by that? 3 A. The pre-alarm delays, from my skill in 4 the art reading the specs, does not convince me 5 that these -- these pre-alarm delays are 6 parameter-specific. 7 Q. What is a pre-alarm delay? 8 A. Something that occurs before you have 9 the alarm actually actively occurring. There is 10 a period of time that you set for delaying. 11 Q. When does the pre-alarm delay start? 12 MS. HOEKEL: Object to the form. 13 BY MR. CLAASSEN: 14 Q. You said it's a period of time, right? 15 A. Yes. 16 Q. When does the period of time start? 17 MS. HOEKEL: Object to the form. 18 A. After the alarm has started or is 19 occurring. 20 Q. What does it mean for the alarm to 21 start? 22 A. You actually see some kind of visible	Page 264 1 BY MR. CLAASSEN: 2 Q. At the end of your response was: And 3 to claim it as such is not proper. 4 Right? 5 A. No. 6 I'm saying without -- actually 7 providing discussion of some kind of pause in 8 the claim would make it complete and precise. 9 It's not precise as the claims are written. 10 Q. Okay. 11 We have talked about our disagreement 12 as to "pausing," right? 13 A. Right. 14 Q. So now I want to talk to you about 15 pre-alarm delays. 16 A. Again, I'm not viewing it as just 17 pre-alarm delays. 18 I'm viewing it parameter-specific 19 pre-alarm delays. 20 Q. Before we even get to 21 parameter-specific, I want to know where 22 pre-alarm delays comes in.

Page 265 1 Where does pre-alarm delay enter your 2 analysis in this claim? 3 A. I'm saying the patent in its entirety 4 does not support it. Again, I'm referring to 5 the -- 6 Q. Is that relevant to the construction 7 of this claim term? 8 A. Yes, it is. 9 Q. How? 10 A. It's relative to the way the claims 11 are written, based on what's been disclosed in 12 specs -- 13 Q. And where -- 14 A. -- what is not -- 15 Q. Go ahead. 16 A. What I was starting to say: It 17 matters as far as what's in there or not in 18 there as far as supporting the specs as written. 19 You can write claims, but it may not 20 be a proper discussion for purposes of our 21 discussion here in terms of what's written in 22 the specs.	Page 267 1 A. It does have some importance when you 2 are discussing the claim terms that's used and 3 written -- so, yes. 4 Q. Which term in this claim -- the '244 5 patent claim 13 -- which claim term references 6 "pre-alarm delay"? 7 A. I'm doing this from memory. 8 The claims, as discussed, articulate 9 parameter-specific pre-alarm delays. 10 And I'm not -- I'm saying that's not 11 supported in the specs. 12 Q. The words "parameter-specific 13 alarm-delay" -- I see that. 14 Now what I'm focusing on is "pre-alarm 15 delay." 16 Where are you reading in the claim 17 limitation to include "pre-alarm delay"? 18 MS. HOEKEL: Objection, asked and 19 answered. 20 MR. CLAASSEN: It hasn't been 21 answered. 22 BY MR. CLAASSEN:
Page 266 1 That's all I have is the specs and the 2 claims. I have nothing else -- and my skill, of 3 course. 4 Q. Okay, the patent doesn't say anything 5 about blue moons either, right? 6 A. Correct. 7 Q. And blue moons aren't recited anywhere 8 in the claims, right? 9 A. The patent itself only supports the 10 pausing of already existing alarms. 11 Q. Okay. So we've talked about pausing. 12 I understand our disagreement on pausing -- 13 A. Right. 14 Q. -- okay? 15 Now I want to talk to you about 16 pre-alarm delays. 17 A. And I'm saying it's not supportive. 18 There is not enough information of being 19 parameter-specific. 20 Q. How is that any different than blue 21 moons? 22 MS. HOEKEL: Object to the form.	Page 268 1 Q. Go ahead. 2 A. The pre-alarm delays are not 3 parameter-specific. And I have not been 4 convinced that they are parameter-specific. 5 Q. Are the alarm delays 6 parameter-specific? 7 MS. HOEKEL: Object to the form. 8 A. The alarm delays may be, but the 9 pre-alarm delays are not. 10 Q. Did the claim require pre-alarm 11 delays? 12 MS. HOEKEL: Object to the form. 13 A. I'm not sure how else to answer the 14 question. 15 Q. It's a yes-or-no question. 16 Does the claim require pre-alarm 17 delays? 18 MS. HOEKEL: Under whose construction? 19 It's not a yes-or-no question. 20 MR. CLAASSEN: Under either 21 construction. 22 A. Again, the patent does not support

Page 269 1 parameter-specific pre-alarm delays. 2 Q. I'm looking at Sotero's construction. 3 It doesn't say: Pre-alarm delay. 4 MS. HOEKEL: Can we go back to page 5 33, so he can see the term in the constructions? 6 Because we are not on the right page. 7 THE WITNESS: Thank you. 8 MR. CLAASSEN: Okay. 9 BY MR. CLAASSEN: 10 Q. The third column in Exhibit 1, page 11 33 -- does it say anything about pre-alarm 12 delay? 13 A. No, it does not. 14 Q. So the middle column with Masimo's 15 construction -- does it say anything about 16 pre-alarm delay? 17 A. No, all it talks about is 18 parameter-specific alarm delays. 19 Q. So what is the relevance of pre-alarm 20 delay to the construction of this term? 21 A. Including the whole term, not just 22 alarm delays, but pre-alarm delays are not	Page 271 1 A. We just read it. 2 We talked about pre-alarm delay, 3 didn't we? 4 Or did I miss something? 5 Q. Okay. You have a copy of Exhibit 1 in 6 front of you? 7 A. Right. 8 Q. Somewhere, right? 9 A. Yes. 10 Q. Do you have the hard copy of it? 11 A. Yes. 12 Q. Okay. So will you turn to page 33? 13 A. Be glad to. 14 Q. The joint claim construction chart? 15 A. I have that right now. So you want me 16 to refer to page 33 on here. 17 Q. I want you to start on page 33. 18 And I want you to tell me where you 19 are seeing pre-alarm delay. 20 A. I am not seeing it. 21 Q. It's not in the claim, is it? 22 A. No.
Page 270 1 parameter-specific. 2 You want me to explain what I mean by 3 that? 4 Q. Yes. 5 A. Parameter-specific, in my 6 understanding, is just that particular 7 parameter. 8 But when you add the term -- 9 parameter-specific is -- I have no problem with 10 that. 11 I have a problem with 12 parameter-specific reading later, as far as 13 parameter-specific alarm delays. 14 It is pre-alarm, that's where I'm 15 having a problem. The phrase "pre" is bothering 16 me. 17 Q. Where are you getting the phrase 18 "pre"? 19 That's what I'm asking. 20 A. I'm not getting it in this. I'm 21 getting it in the following section. 22 Q. What section is that?	Page 272 1 Q. It's not in either construction, is 2 it? 3 A. Correct. 4 Q. So what does it have to do with the 5 construction of "electronically initiating"? 6 A. It has to do with applying some kind 7 of user response. 8 Q. Okay. 9 You have a separate sentence on user 10 input, right? 11 A. Yes. 12 Q. And that's on page 40 that we were 13 talking about earlier? 14 A. Let me go back to page 40. 15 (Pause) 16 A. You want me to start with: 17 Alternatively, a common silence button? -- 18 Q. No, page 40 of the chart -- 19 A. I'm sorry. I was looking at 41. I'm 20 sorry. 21 Q. Okay. So page 40 of the chart -- 22 A. Right.

Page 273 1 Q. -- right? 2 A. Correct. 3 Q. You see there is a sentence that we 4 have been talking about, about: Dr. Yanulis may 5 explain that the '244 patent does not support 6 parameter-specific pre-alarm delays. 7 Right? 8 A. Correct. 9 Q. And that is different sentence from 10 user input, right? 11 A. Correct. 12 Q. So pre-alarm delays is not talking 13 about user input, right? 14 A. Correct. 15 Q. What is it talking about? 16 A. Could you repeat the question? I'm 17 not sure I'm following what you are saying. 18 Q. I don't understand your last sentence 19 in this chart -- 20 A. What I'm saying -- 21 Q. -- does not support parameter-specific 22 pre-alarm delays.	Page 275 1 Is that right? 2 MS. HOEKEL: Object to the form. 3 A. I would be more comfortable if there 4 was more discussion to convince me that the 5 pre-alarm delays are parameter-specific. 6 Q. Again, my basic question is: What 7 pre-alarm delays are you talking about? 8 A. The period of time you are actually 9 delaying the -- doing any kind of actions to the 10 alarm -- it's already occurred. 11 Q. When does that period of time begin? 12 A. Once the alarm has been -- gone off, 13 whether it be auditory or visual. 14 Q. So the alarm has to be active. 15 Is that right? 16 A. Well, I'm not sure how to answer this. 17 My understanding that you have to have 18 a pre-alarm delay to -- once you have a 19 pre-alarm delay, then that could -- that causes 20 a -- what you call -- the term is an "alarm 21 alert," or whatever you want to call it. 22 Q. That refers to some period of time
Page 274 1 What I don't understand is: Where 2 does "pre-alarm" come from? 3 (Pause) 4 A. Because the way this patent is defined 5 and disclosed, it talks about parameter-specific 6 pre-alarm delays. 7 Q. This sentence says: This 8 specification does not support. 9 A. Right. I'm saying it doesn't. It 10 lacks that. 11 Q. It lacks that, right? 12 A. Yes. 13 Q. What about pre-alarm delays is 14 relevant to the claim? 15 A. The fact that pre-alarm delays and my 16 expertise are not parameter-specific. 17 Q. Does the claim require pre-alarm 18 delays? 19 A. If you are writing the claims in view 20 of the patent specs, yes. 21 Q. So if you re-imagine what the claims 22 say, it would say: Pre-alarm delays.	Page 276 1 before the alarm is activated. 2 Is that right? 3 A. Correct, before you have some actual 4 active alarm. 5 Q. Is that concept recited in this claim? 6 (Pause) 7 A. Go back to the previous page. Let me 8 read that, please. 9 Q. Go back to page 39, please, on Exhibit 10 1? 11 MS. HOEKEL: I think he means the 12 claim language. 13 MR. CLAASSEN: Do you want to go up to 14 the top, Dr. Yanulis? 15 THE WITNESS: Yes, if I can. 16 MR. CLAASSEN: All right. Let's go 17 back then to page 33. 18 BY MR. CLAASSEN: 19 Q. We are there. 20 Do you see that? 21 A. Yes, sir. 22 Q. Is this what you were looking for?

Page 277 1 A. Yes. 2 Q. And we are looking at claim 13 of the 3 '244 patent, right? 4 Okay. 5 And where is the concept of pre-alarm 6 delay claimed inside claim 13? 7 A. It's not. 8 Q. So why is it relevant to the 9 construction of "electronically initiated"? 10 A. Because there has to be some kind of 11 user input -- cause -- 12 Q. Because user input -- that also 13 satisfies the pre-alarm delay. 14 Is that right? 15 A. Yes. 16 Q. Okay. Let's move on then to the next 17 term, which is "alarm hold initiator." 18 (Pause) 19 THE WITNESS: Do we want 41? 20 MR. CLAASSEN: I believe. So hold on 21 just one second. 22 Actually, yeah, let's start at page	Page 279 1 But the way it's been disclosed and 2 claimed, it's indefinite and there is not enough 3 information to understand what this alarm hold 4 initiator is doing. 5 That's why it's indefinite -- why I 6 agree with that. 7 Q. Would a person of ordinary skill in 8 the art know what an alarm hold initiator is? 9 MS. HOEKEL: Object to the form. 10 A. They would. 11 But they would also want to know: How 12 does that alarm hold initiator function in terms 13 of the claim, looking in view of the specs? 14 They want both aspects. 15 Q. But they would understand the words 16 "alarm hold initiator," right? 17 A. Yes, sir, they would. 18 Q. Sotero has an alternative construction 19 here, right? 20 A. Are you looking now at 41? 21 Q. Let's go down to page 41 of Exhibit 1. 22 Do you see the alternative
Page 278 1 40, just to be very clear. 2 MS. HOEKEL: There are page breaks 3 throughout this document. 4 BY MR. CLAASSEN: 5 Q. So there is a page break here at the 6 bottom of page 40. 7 Do you see that? 8 And we are talking about the term 9 "alarm hold initiator"? -- 10 A. Correct. 11 Q. -- right? 12 Sotero's construction of that term is 13 indefinite, right? 14 A. Correct. 15 Q. What's your understanding of 16 indefiniteness? 17 A. It's not clear as to what the alarm 18 hold initiator is doing. 19 Q. Not clear? 20 A. It's not clear to someone skilled in 21 the art. 22 I know what an alarm hold initiator.	Page 280 1 construction? 2 A. Yes. 3 Q. You see that the construction is a 4 common silence button, right? 5 And it continues down from there? 6 A. Correct. 7 Q. What does "other suspend initiator" 8 mean? 9 A. It doesn't have to be a silence 10 button. It could be some other device for 11 actually silencing the alarm. 12 I don't mean to repeat the word 13 "silencing." 14 But you want to stop the alarm, so 15 there has to be some user input, whether it be a 16 button, terminal, mouse pad -- has to be 17 something. 18 Q. So my confusion here is that the 19 common silence button seems to refer to the 20 initiator, right? 21 A. As far as the alternate position that 22 Sotero is taking.

Page 281 1 Q. And the "other suspend initiator" -- 2 that uses the word "initiator" in it, right? 3 A. Yes. 4 Q. So what you have done is replace 5 "alarm hold" with "other suspend," right? 6 A. Right. 7 Q. Would a person of ordinary skill in 8 the art understand that substitution? 9 A. Yes, they would. 10 Q. So if the specification said "other 11 suspend initiator," that would let a person of 12 ordinary skill in the art know what an alarm 13 hold initiator is, right? 14 A. Correct. 15 (Pause) 16 Q. Is there a difference between pausing 17 and holding? 18 A. "Pausing" to me as an expert would 19 imply that you are just momentarily stopping an 20 alarm from continuing. 21 Whereas a "hold," you may want to see 22 if the condition rectifies. A clinician would	Page 283 1 skill in the art understand "alarm pause 2 initiator"? 3 MS. HOEKEL: Object to the form. 4 A. Could you zero in a little bit more 5 about the question? 6 Are you asking me: If I was skilled 7 in the art, would I understand what an alarm 8 hold initiator is? 9 Q. No. 10 Would you -- would a person of 11 ordinary skill in the art understand what an 12 alarm pause initiator is? 13 A. He should. You are initiating a 14 pause, so you should understand that. Or you 15 are commencing a pause, you are hitting 16 something, you are hitting some device or system 17 to stop the alarm. 18 Q. Is it triggering a time? 19 A. When you pause it? No. 20 Q. When you hold it? 21 A. If you hold it, you are sort of 22 waiting to see if the condition, as I said,
Page 282 1 understand that you want to see if the condition 2 worsens or doesn't worsen. 3 Q. Is there any difference in terms of 4 length of time with respect to pausing and 5 holding? 6 A. Yes. Pausing is just you do it on and 7 off. 8 Whereas hold, you could have different 9 time frames -- for example, treatment periods. 10 (Pause) 11 THE WITNESS: Did you hear me okay? 12 MR. CLAASSEN: I did. 13 BY MR. CLAASSEN: 14 Q. So if the term were "alarm pause 15 initiator," would a person of ordinary skill in 16 the art understand that? 17 MS. HOEKEL: Object to the form. 18 A. They should. 19 But, again, it has to be viewed in the 20 context of the way the specs are written. 21 Q. So in view of the specification for 22 the '249 patent, would a person of ordinary	Page 284 1 worsens or gets -- it improves. 2 (Pause) 3 MR. CLAASSEN: Dr. Yanulis, would you 4 like to take another short break, maybe five 5 minutes or so? 6 THE WITNESS: No, I'm good. 7 MR. CLAASSEN: Okay. 8 THE WITNESS: I appreciate you asking, 9 though. 10 MR. CLAASSEN: If you would like to 11 take any more breaks, just let me know. I 12 understand it's later for you than it is for me. 13 (Pause) 14 MR. CLAASSEN: Let's turn now to page 15 45 of Exhibit 1. 16 (Pause) 17 BY MR. CLAASSEN: 18 Q. Do you see the second-to-last sentence 19 there describing your potential testimony in 20 this case? 21 A. When you say "I may testify" -- that a 22 person of ordinary skill would understand the

Page 285 1 concept of suspending an active alarm -- 2 Q. Correct. 3 A. -- using a common silence button? 4 Q. You say "a common silence button," 5 right? 6 A. But would not understand how a common 7 silence button is more specific than an alarm 8 hold initiator would be "accessed," as claimed. 9 Q. Right. 10 But you skipped over something there. 11 There is a parenthetical, right? 12 A. I'm sorry. 13 Saying that is -- wouldn't understand 14 how a common silence button, based on the way 15 the specs are written, could be accessed or -- 16 you want me to -- 17 Q. "I.e." -- what's your understanding of 18 what "i.e." means? 19 A. Oh, I'm sorry. 20 That is. 21 Q. That is. 22 Right?	Page 287 1 this is achieved, or how it could be 2 initiated -- or whatever term you want to use -- 3 the way the specs have been written. 4 Q. But the words "alarm hold initiator" 5 are understandable, right? 6 A. Yes, sir. 7 Q. You didn't rely on an indefinite 8 construction for the IPR, right? 9 A. No, I did not. 10 Q. Is that because you can't present an 11 indefiniteness argument in an IPR? 12 MS. HOEKEL: Object to the form. 13 A. Other than to say that I'm only 14 applying the standard of plain and ordinary 15 meaning, and the prior art -- whether it 16 invalidates or doesn't invalidate. 17 Q. You applied the construction that 18 Masimo proposes, right? 19 A. I'm sorry? 20 Q. You proposed the construction in your 21 IPR that Masimo proposes in the district court, 22 right?
Page 286 1 A. Yes. 2 Q. So an alarm hold initiator is a common 3 silence button, right? 4 A. Yes. 5 Q. You understood that from the 6 specification, right? 7 A. Yes. 8 But I did not understand how it could 9 be accessed from the specification -- is what 10 I'm saying -- as claimed. 11 Q. But you understand that the term that 12 we are asking the court to construe is "alarm 13 hold initiator," right? 14 A. Yes, I do. 15 Q. And that's the very phrase that you 16 used in this i.e., right? 17 A. Yes. 18 Q. And it's a common silence button, 19 right? 20 A. Correct. 21 Q. So how is the term indefinite? 22 A. From the specs, I don't understand how	Page 288 1 A. Am I accepting it? 2 Q. Did you accept it? 3 A. No. That's the purpose of our 4 discussion. 5 Q. Okay. 6 So in your IPR declaration, what did 7 you propose as the construction for "alarm hold 8 initiator"? 9 MS. HOEKEL: Same objection. 10 A. Are you talking about the extrinsic? 11 Or intrinsic? 12 Q. I'm talking about the IPR declaration. 13 A. Yes. 14 Q. Did you apply the plain and ordinary 15 meaning for "alarm hold initiator"? 16 A. To the extent that the IPR related to 17 discussing the invalidity of the entire patent, 18 yes. 19 Again, I want to repeat that, in the 20 IPR, I wasn't concerned about the way the claims 21 were construed by either party -- 22 (Pause)

Page 289 1 A. Again, maybe I haven't made myself 2 clear. 3 The exercise of the IPR being written 4 was to discuss the potential invalidity of the 5 patent based on prior art and my knowledge for 6 one skilled in the art. 7 I wasn't concerned about the construed 8 claims because I regarded them as being invalid 9 for both sides. 10 Q. Did you start with the position that 11 the claims were invalid? 12 MS. HOEKEL: Object to the form. 13 A. No, I would never make that statement. 14 I would base it on the art that was 15 used to support my arguments in the IPR. 16 Q. But presumably somewhere in the prior 17 art, you found an alarm hold initiator, right? 18 A. Something very similar that functioned 19 like that. 20 But, again, I wasn't really concerned 21 with that term in isolation. 22 I was concerned about what the patent	Page 291 1 alternative construction -- the plain and 2 ordinary meaning -- of the term "alarm hold 3 initiator"? 4 A. It's more precise in this proceeding 5 than it was required in the IPR. 6 They weren't concerned with the 7 preciseness of different construed terms, other 8 than plain and ordinary meaning, or using that 9 standard. 10 Q. Plain and ordinary meaning was enough 11 for you to understand what an alarm hold 12 initiator was, right? 13 A. Yes -- 14 MS. HOEKEL: Object to the form. 15 A. -- to the level of detail that I was 16 concerned in the IPR. 17 This is different. 18 Q. Is it your opinion that it is 19 different? 20 Or were you informed that it was 21 different by counsel? 22 MS. HOEKEL: Object to the form.
Page 290 1 was disclosing, and the claims, and was that 2 invalid in view of prior art that I had 3 discussed. 4 (Pause) 5 Q. Do you consider Sotero's alternative 6 construction in preparing your IPR declaration? 7 MS. HOEKEL: Object to the form. 8 A. Could you repeat the question, 9 counselor? 10 Q. Yeah. 11 So we talked earlier about Sotero's 12 alternative construction, right? 13 A. Okay. 14 Q. Is that correct? 15 A. Yes. 16 Q. You remember us talking about that? 17 A. Yes. 18 Q. Did you consider that construction in 19 preparing your IPR declaration? 20 A. As far as it applies to plain and 21 ordinary meaning, nothing more. 22 Q. So is your view that Sotero's	Page 292 1 A. I was informed by counsel. 2 But I also understand from an expert's 3 perspective for one skilled in the art what 4 would be more accurate, based on the specs as 5 written and as claimed. 6 Q. The more accurate constructions are 7 set forth in the district court. 8 Is that right? 9 A. Yes. More precise use of the term. 10 (Pause) 11 Q. Let's move on to the last term, then. 12 That's "tail." That's on page 53 of Exhibit 1. 13 Does a person of ordinary skill in the 14 art understand what "tail" means? 15 MS. HOEKEL: Object to the form. 16 A. I would have to answer: I was viewing 17 the way "tail" was discussed in the specs and 18 how it was claimed. 19 Q. Have you overheard the word "tail" 20 outside the context of the patents? 21 A. No, and I don't -- 22 Q. No --

Page 293 1 A. -- not in this context, I have never 2 heard the word "tail" used. 3 Q. When you say "not in this context," 4 what do you mean some? 5 A. In the context the way they discussed 6 the tail. 7 And part of the problem with the term 8 "tail" -- in the patent specs, I can 9 specifically articulate it stated the 10 following -- and this is in reference to the 11 "tail" being substituted for the cable. 12 You didn't show it to me. You didn't 13 tell me. You told me what it wasn't. And I 14 didn't see tail in the figures. 15 I meant in that context. 16 Q. Does the claim system require 17 electricity? 18 A. For this particular patent, yes. 19 Q. Is electricity disclosed in the 20 specification? 21 A. You are turning some circuit on, so in 22 that regard, yes.	Page 295 1 And I don't know what it is, because 2 you haven't shown me. You haven't told me what 3 it is. 4 Q. So a person of ordinary skill in the 5 art would not understand the word "tail." 6 Is that right? 7 A. That's not what I said, sir. 8 I said, to repeat myself: The term 9 "tail" is not a recognizable term that I'm 10 familiar with. 11 I understand the word "cable." 12 You told me that it's not a cable, so 13 why is it not a cable? I don't know. 14 I know what a cable is and I know what 15 a tail is. 16 But in the context of the patent 17 specs, I do not understand what they mean by 18 "tail." 19 Q. Okay. 20 What does a "tail" mean outside of 21 this context? 22 MS. HOEKEL: Object to the form.
Page 294 1 Q. Is the word "electricity" used in the 2 specification? 3 A. You are -- I'm using it in the context 4 you are turning something on, so electricity is 5 flowing, electrons are flowing. 6 I'm not sure what else you are asking. 7 Q. Would a person of ordinary skill in 8 the art understand "electricity"? 9 MS. HOEKEL: Object to the form. 10 A. He should understand it's the flow of 11 electrons to create circuit activation, yes. 12 Q. But a person of ordinary skill in the 13 art would not understand the word "tail," right? 14 A. No, I didn't say that, sir. 15 I said: I've never seen the word 16 "tail" used in this type of art -- what I said. 17 Q. Let me ask the reverse then. 18 Would a person of ordinary skill in 19 the art understand the word "tail"? 20 MS. HOEKEL: Object to the form. 21 A. In the context that this "tail" was 22 written in the specs.	Page 296 1 A. If you are talking about a tail, it 2 could be very broad. You could be talking about 3 the tail of a dog, tail of a cat. 4 Q. How about the tail of a mouse? 5 A. All right, tail of a mouse. 6 Q. What about the tail of a computer 7 mouse? 8 A. Never heard it in this context. 9 Q. If someone referred to the tail of a 10 computer mouse, would you understand what that 11 meant? 12 A. I would. 13 But I'm skilled in the art and a 14 little more -- than a lot of people, as you have 15 articulated. 16 The way it's been disclosed, I don't 17 understand why -- what the tail is. 18 I can't emphasize enough. I don't 19 know what it is. 20 You have told me what it's not. You 21 have told me it's not a cable. But you haven't 22 shown it to me, so I have no idea.

Page 297 1 Q. Presumably you found a tail somewhere 2 in the prior art in your IPR declaration, right? 3 A. In some of the prior art, yes, I did. 4 That term was used. 5 But you I asked me, if I am 6 understanding your question: Is this a term 7 I've seen in the art, and that I've used? 8 And the answer is: No, I've used -- 9 not used this term. 10 Q. My question is a little bit different. 11 In the IPRs, were you able to find 12 prior art that satisfied the "tail" limitation 13 of this claim? 14 A. For the purposes of the IPR, yes. 15 Q. What did you find? 16 A. I'm sorry? 17 Q. What did you find? 18 MS. HOEKEL: Object to the form, 19 beyond the scope of the deposition, relevance. 20 A. I'm not sure how to answer, other than 21 I've already answered it, sir. 22 Q. You found something in prior art that	Page 299 1 IPR declaration. 2 Q. So you understood tail to refer to 3 some sort of attachment or connection, right? 4 A. As it applies to invalidating the 5 patent, as written, supported by the prior art, 6 yes. 7 Q. Was it your understanding that a tail 8 is any different from a wire? 9 MS. HOEKEL: Object to the form. 10 A. In the context of the IPR -- 11 MR. CLAASSEN: Lean back, Dr. Yanulis. 12 We can't hear you any more. 13 THE WITNESS: Oh, I am sorry. 14 A. In the context of the IPR, yes. 15 But in the context of this district 16 court proceeding, I don't agree. And I contend 17 that it's indefinite the way it's been disclosed 18 in this particular patent -- or patents -- 19 excuse me -- '623 and '108. 20 Q. You considered the figures when you 21 were looking at the construction of the term 22 "tail"?
Page 298 1 you contend is a tail, right? 2 A. Yes. 3 Q. How did you make that determination? 4 A. Based on the way the specs were 5 disclosed, I understood what the function of the 6 tail was, as written in the context of plain and 7 ordinary meaning for the IPR from the broadest 8 sense, using the construct of standard -- or 9 plain and ordinary meaning -- but no further -- 10 Q. Okay, wait a minute -- 11 A. -- it's not -- 12 Q. -- go ahead. 13 A. It's not a precise term, sir, that I 14 have seen used in the art. 15 But I did see it in prior art that I 16 discussed in the IPRs. 17 Q. When you are talking about "the 18 broadest sense," what do you mean? 19 A. Talking about a tail to me would be 20 some kind of attachment, some kind of 21 connection. 22 That I do understand, in terms of the	Page 300 1 A. Yes, I did. 2 Q. How did the figures impact your 3 analysis? 4 A. Well, when the statement is made that 5 it's not a cable, and they say "we are not 6 showing it," I have to base it on what I've seen 7 in the specs. The specs are all I have to use. 8 Q. Okay. 9 MR. CLAASSEN: Let's take a look at 10 that '623 patent. That is Exhibit No. 5 -- 11 sorry -- that is Exhibit No. 4. 12 BY MR. CLAASSEN: 13 Q. The court reporter has just placed on 14 the screen the '623 patent. 15 Do you see that? 16 A. Yes, sir, I do. 17 Q. Are you familiar with this patent? 18 A. Yes. 19 MR. CLAASSEN: I'm going to mark it as 20 Exhibit 4 for purposes of this deposition. 21 Do you understand that? 22 THE WITNESS: Yes.

Page 301 1 (Exhibit 4, Document Bates stamped 2 MAS0000099 through 139, multipage document 3 entitled: United States Patent No.: US 9,872,623 4 B2, dated January 23, 2018, with cover page 5 dated June 18, 2019, marked for identification) 6 BY MR. CLAASSEN: 7 Q. So you looked at the figures, right? 8 A. All the figures, yes. 9 MR. CLAASSEN: Do you have the printed 10 copy of Exhibit No. 4? 11 THE WITNESS: Yes. 12 Do you mind if I take it out? 13 MR. CLAASSEN: No, go ahead. 14 THE WITNESS: Help me out and tell me 15 what Exhibit it is? 16 MR. CLAASSEN: Exhibit No. 4, the '623 17 patent. 18 (Pause) 19 THE WITNESS: All right. Here is 20 Exhibit 1, and I'm taking that out now. 21 MR. CLAASSEN: Okay, you are going to 22 flip back to the figures?	Page 303 1 A. Oh, 4A? 2 Q. Yeah. 3 A. Looking at 4A now. 4 Q. How does Figure 4A inform your 5 construction of "tail"? 6 A. First of all, the 420 is articulated 7 as being the cable. 8 And to repeat myself, the specs said 9 the tail is not shown and the tail is not a 10 cable. 11 Q. So if you were to remove 420, what 12 would you be left with? 13 A. What would I be -- without seeing 14 where the tail is, I can't render an opinion. 15 I can have an idea from an expert 16 perspective based on the figures and the way 17 it's disclosed. 18 I can't make any kind of opinion. 19 Q. So if 420 was removed from figure 20 4A -- 21 A. Correct. 22 Q. -- would you still have a sensor?
Page 302 1 THE WITNESS: Yes. 2 BY MR. CLAASSEN: 3 Q. Which figures did you consider when 4 you were considering the construction of "tail"? 5 A. I was looking at the figures and the 6 way they were disclosed in the specs in 7 combination. 8 Q. Okay. 9 Were there any figures that were more 10 instructive than others? 11 A. Well, when the statement is made that 12 "the tail is not a cable," there is not much 13 more I can opionate. 14 Q. I want -- in Exhibit 1 -- we don't 15 need to pull it back up -- but the intrinsic 16 evidence that was cited -- I'm just going to 17 kind of refine our look at the figures, based 18 upon our intrinsic evidence. 19 It mentions Figures 4A and 4B. 20 So can we take a look at those? 21 A. Yes, sir. I got 4B in front of me. 22 Q. Let's start with 4A.	Page 304 1 A. Yes. 2 Q. Would you still have a wrist-borne 3 device? 4 A. You are referring to figure 4B now? 5 Q. 4A. 6 A. Okay. Look at 4A. Sorry. 7 Q. So if you remove 420 -- 8 A. Okay. 9 Q. -- would you still have a sensor? 10 A. You have a sensor, but something has 11 got to connect to the sensor -- 12 Q. Okay. 13 Have you seen other types of sensors? 14 A. I've seen thousands of sensors. 15 Q. Thousands. 16 Would a person of ordinary skill in 17 the art have seen different types of sensors? 18 A. He would assume that, but he would 19 want to know how the sensor is connected. 20 Q. So the sensor has to be connected 21 somehow, right? 22 A. Yes.

Page 305 1 Q. What are some of the ways that you've 2 seen a sensor connected to a device? 3 A. I'm sorry, sir? 4 Q. What are some of the ways that you 5 have seen a sensor connected to a device? 6 A. As applies to pulse oximetry, I've 7 seen hundreds of devices where the cable is -- 8 is utilized in the same way it's used in this 9 particular system. 10 Q. This cable 420 has removable 11 connectors at both ends, right? 12 A. Correct. 13 Q. Is that the only configuration of a 14 cable you've seen? 15 A. No -- some of the -- you could have 16 different configurations. 17 Q. What are those configurations as 18 you've seen? 19 A. It could be that -- I made some point, 20 I think, earlier where, for patient comfort, you 21 want to be able to disconnect them without going 22 through a lot of rigamarole, and not creating	Page 307 1 claims when you were coming up with the 2 construction of "tail"? 3 A. I looked at all the claims that 4 incorporated that term. 5 (Pause) 6 MR. CLAASSEN: I'd like to take a 7 break, maybe 15 minutes. Then hopefully, we can 8 wrap up relatively soon. 9 THE WITNESS: Sounds good. Thank you, 10 counselor. 11 THE VIDEOGRAPHER: The time is 7:28 12 p.m. Off the record. 13 (Recess from 7:28 p.m. to 7:49 p.m.) 14 THE VIDEOGRAPHER: The time is 7:49 15 p.m. Back on the record. 16 BY MR. CLAASSEN: 17 MR. CLAASSEN: Thank you, Dr. Yanulis. 18 You were just on a break. 19 Is that right? 20 THE WITNESS: Yes, sir. 21 MR. CLAASSEN: As I mentioned before 22 the break, we were hoping to wrap up relatively
Page 306 1 anxiety in the patient. 2 Q. So is one example you've seen on a 3 sensor that's directly wired to a device without 4 connecting? 5 A. Yes. 6 Q. Have you seen a sensor with a cable 7 with only one connector? 8 A. Yes. 9 Q. How does that connect to a patient 10 monitor? 11 A. By means of some kind of cable 12 attachment. 13 Q. How would you refer to that type of 14 cable? 15 A. I'd call it cable or wire. 16 Q. Would it be different from a cable or 17 wire with two connectors? 18 A. Depending on the way it was 19 configured, it more than likely would be 20 different. I'd have to look at the drawing and 21 specs. 22 Q. Did you look at any of the other	Page 308 1 soon. I'll pass the witness now. 2 MS. HOEKEL: Okay. Great. Well, I 3 got my exhibits ready, so I think I'm ready to 4 do that. 5 If the videographer can pull up 6 Exhibit 1 at pages 11 and 12. 7 (Pause) 8 THE VIDEOGRAPHER: You want 11 and 12 9 from the -- 10 MS. HOEKEL: The joint claim 11 construction part of the -- 12 (Pause) 13 THE VIDEOGRAPHER: Okay. 14 EXAMINATION 15 BY MS. HOEKEL: 16 Q. Dr. Yanulis, I just have a couple of 17 questions about a couple of terms. 18 You were asked questions this morning 19 about "alarm condition," which is the third term 20 in the joint claim construction statement. 21 And I believe your testimony may have 22 gone back and forth. And I just want to make

Page 309 1 sure we are clear as to whether or not you agree 2 with Masimo -- with plaintiff's proposed 3 alternative construction? 4 A. The answer is: No, I did not agree. 5 Q. And I think you clarified this later 6 in the record, but just to avoid any ambiguity: 7 What is it that you believe is the dispute 8 between the parties as to these constructions? 9 Or why is it that you don't agree with 10 Masimo's proposed alternate construction? 11 A. Based on the specifications and the 12 claims as written, I don't support the claim 13 terms as proposed by Masimo unless certain 14 things were added, as I have articulated in our 15 proposed construction and evidence. 16 Q. So to be more specific: What is it 17 that you don't agree with with Masimo's proposed 18 alternate construction of "a measurement of a 19 physiological parameter that is outside set 20 limits"? 21 A. The issue is that a patient condition 22 that satisfies all the alarm criteria resulting	Page 311 1 Q. It's -- hold on one second. 2 Is it -- it's Sotero's position that 3 this is a means-plus-function claim, correct? 4 A. Correct. 5 (Pause) 6 MS. HOEKEL: If we go to -- I'm sorry. 7 Let's go actually to Exhibit -- sorry, 8 I don't have my list. 9 What exhibit is the '244 patent? 10 THE WITNESS: I'd have to look at my 11 folders again. 12 MR. CLAASSEN: It would be Exhibit 10. 13 (Exhibit 10, Document Bates stamped 14 MAS0000315 through 333, multipage document 15 entitled: United States Patent No.: US RE47,244 16 E, dated February 19, 2019, with cover page 17 dated June 17, 2019, marked for identification) 18 THE WITNESS: Thank you. 19 I have them off to the side. I do 20 appreciate you sending them to me, counsel. 21 (Pause) 22 MS. HOEKEL: I apologize. Let's maybe
Page 310 1 in a triggered alert. 2 And that's not articulated in Masimo's 3 proposed construction. 4 Q. Are there any other reasons that you 5 disagree -- there is a disagreement between 6 Sotero's position and Masimo's proposed 7 alternate construction? 8 A. For this term, I'm fine with what I 9 defined. 10 But the important thing is you have to 11 satisfy a patient condition that satisfies all 12 alarm criteria, ending up with some kind of 13 triggered alert. 14 You really need to have "all alarm 15 criteria." 16 Q. If we go to page 23 of the -- of the 17 same exhibit, please, which is the 18 means-plus-function -- the -- sorry -- the claim 19 term 5, which is "the one or more processors 20 configured to electronically determine" -- do 21 you see that claim term? 22 A. Yes.	Page 312 1 look at the claim itself. I think it's easier. 2 If you look at the '244 patent, claim 3 1 -- and that's at column 7 -- at the bottom of 4 column 7, if the court reporter can blow it up 5 for us. Great. 6 BY MS. HOEKEL: 7 Q. So it is Sotero's construction that 8 this is a means -- this should be construed as a 9 means-plus-function term, correct? 10 A. Correct. 11 Q. And the term is: One or more 12 processors ... configured to electronically. 13 Correct? 14 A. Yes. 15 Q. It's: One or more processors ... 16 configured to electronically determine that the 17 measurement of the physiological parameter 18 satisfies an alarm activation threshold. 19 Do you see that? 20 A. Yes. 21 Q. If someone gave you this list of 22 features in the claim and asked you to program

Page 313 1 the processor to perform these tasks, could you 2 do that from this claim? 3 A. Not the way it's written. 4 Q. Why is that? 5 A. Because there is a lot of 6 antecedent, kind of, description that should 7 have been included as to how this function is 8 performed the way the claims are written. 9 Q. Are there steps missing in the way 10 this claim is written? 11 A. Yes, there are. 12 Q. And so does that -- one of skill in 13 the art who is programming these steps -- would 14 they be able to program them directly using the 15 claims of the term -- the terms of the claim -- 16 A. Not as it is written. 17 Q. Now I'm going to ask you to look at 18 page 33 of Exhibit 1. 19 (Pause) 20 Q. Claim term 6 that's in dispute between 21 the parties as to the '244 patent is 22 "electronically initiating, using the patient	Page 315 1 Q. Okay. 2 MS. HOEKEL: Can you sit back again 3 for me? 4 THE WITNESS: I'm sorry? 5 A. If the court adopted -- accepted their 6 position, not ours. 7 Q. Why is it that you believe that would 8 be an incorrect construction? 9 A. Because you have to go beyond plain 10 and ordinary meaning and you have to talk about 11 pausing the so-called alarm for a period of time 12 based on a response from the user, just as 13 written. 14 Q. Does the specification disclose 15 something other than a user-initiated delay or 16 suspension? 17 A. It discusses -- it begins it, but it 18 doesn't do a complete job, in my estimation. 19 Q. Go ahead. 20 A. No, it doesn't disclose adequately so 21 I could understand it as an expert in the field. 22 Q. Does the patent specification in the
Page 314 1 monitoring device, the first parameter-specific 2 alarm delay or suspension period of time." 3 Do you see that? 4 A. Yes, I do. 5 Q. And if Masimo's proposed construction 6 was adopted by the court, could that 7 construction capture pre-alarm delays? 8 A. If it was accepted by the courts. 9 Q. And you spent a lot of time with 10 counsel talking about why pre -- why you were 11 talking about pre-alarm delays. 12 Is it your -- is it your testimony 13 that, if a pre-alarm delay was captured in the 14 scope of this patent term, that would be 15 improper? 16 A. Could you repeat the question? 17 Q. Sure. 18 If Masimo's construction prevailed, I 19 believe you said that a pre-alarm delay could be 20 included in the scope of that term. 21 Correct? 22 A. If the court adopted their position.	Page 316 1 '244 patent disclose the concept of pre-alarm 2 delays? 3 A. It discusses them, but it doesn't 4 really -- it doesn't convince me. 5 And, again, I'm using the term 6 "pre-alarm delay," which is what I had a problem 7 with. 8 Q. So would it be proper for a pre-alarm 9 delay to be encompassed by the scope of this 10 claim term of the '244 patent? 11 A. You'd have to take out 12 "parameter-specific alarm delay or suspension 13 period." That's not proper. 14 Q. The last thing I wanted to ask you 15 about is we talked a lot today about the claim 16 construction positions offered in the IPR versus 17 the claim construction positions offered in the 18 district court litigation, correct? 19 A. Correct. 20 Q. Some of those do differ, correct? 21 A. Correct. 22 Q. There are some terms for which Sotero

Page 317 1 says plain and ordinary meaning may be applied 2 by the Patent Office in the IPR. 3 Is that correct? 4 A. Yes. 5 Q. You want me to ask that again? 6 A. Yes, that's correct. For the 7 purposes -- 8 Q. Go ahead. 9 A. -- if I'm understanding your question, 10 counselor, in the context of the IPR, not for 11 this exercise. 12 Q. So there are some terms in the IPR for 13 which Sotero has offered -- said that plain and 14 ordinary meaning may be applied to the terms and 15 in which in a district court litigation they 16 have given a different construction, correct? 17 A. Correct. 18 Q. And I think at one point, you said 19 something like you weren't worried about being 20 quite as precise in the construction of the 21 terms in the IPR. 22 Do you recall saying that?	Page 319 1 claims in those petitions? 2 A. Yes, it would. 3 MS. HOEKEL: I don't have any further 4 questions. I'll pass the witness back to Mr. 5 Claassen if he has any questions. 6 MR. CLAASSEN: I do have just a couple 7 of questions about what you talked about. 8 EXAMINATION 9 BY MR. CLAASSEN: 10 Q. Let's go back to Exhibit 1, page 12. 11 You were asked about Masimo's proposed 12 construction, right? 13 A. Correct. 14 Q. What do you disagree with in Masimo's 15 proposed alternative construction? 16 A. I think that the terms should have 17 included a patient condition that satisfies all 18 the alarm criteria resulting in triggered alert. 19 So that I would want it to include -- satisfy 20 "all alarm criteria." 21 Q. But you would want the construction to 22 be Sotero's proposed construction, right?
Page 318 1 A. Yes. And I misspoke. 2 Q. What did you mean when you said that? 3 A. I was just applying the plain and 4 ordinary meaning. 5 That doesn't mean I wasn't concerned 6 with the initial terms -- the way they were 7 disclosed. That's not what I was implying. 8 And I apologize if I conveyed the 9 wrong -- 10 Q. Well, what is the purpose of the -- 11 what is the purpose of the inter partes review, 12 as you generally understand it? 13 A. To the best of my knowledge, it only 14 pertains to proving the invalidity or 15 non-invalidity, depending on which side. 16 Obviously, I was proving the 17 invalidity of the patents based on support of 18 the prior art, the patents, and my knowledge in 19 the field. 20 Q. Is it your testimony that using the 21 plain and ordinary meaning in the IPR petitions 22 would still result in the invalidity of the	Page 320 1 A. Yes. 2 Q. That's the reason you disagree with 3 Masimo's proposed construction, right? 4 A. Well, the way it's written, I think it 5 needs to be more precise in defining how this 6 alarm criteria triggers an alert or an alarm. 7 And it's not acceptable in my 8 opinion -- expert opinion -- the way Masimo has 9 proposed it. 10 Q. Okay. 11 I heard your response slightly 12 differently, I guess. 13 When you were asked why you didn't 14 agree with Masimo's proposed construction, you 15 read Sotero's proposed construction, right? 16 A. Yes, I did. 17 Q. So you don't agree with it because 18 it's not Sotero's proposed construction, right? 19 MS. HOEKEL: Objection -- 20 A. I disagreed with it in the preciseness 21 of the terms based on the specification in view 22 of the claims at hand.

Page 321 1 Q. Okay. 2 Why? 3 A. Because I think it -- it's too broad, 4 not precise enough. 5 Q. And it lacks the words that are in 6 Sotero's construction, right? 7 A. No, it lacks the words that I would 8 use as an expert in the field. 9 And my expertise and the devices I've 10 seen and worked with requires in this scenario 11 that all the alarm criteria are satisfied when 12 an alarm is triggered. 13 That's really what I was basing it on. 14 Q. But earlier, we talked about "all" not 15 being quite right, right? 16 MS. HOEKEL: Objection. 17 A. I was saying it in the context. And I 18 may not expressed it as well as I could have. 19 But I want to make sure on the record 20 I wanted to reflect: As an expert, I would want 21 to have a limitation "all alarm criteria" need 22 to be satisfied.	Page 323 1 what exactly is incorporating alarm criteria. 2 It's not really defined as clear as I 3 liked [. 4 And it's definitely not discussed as 5 far as what exactly is being claimed based on 6 the specs. 7 Maybe I'm not saying that right. 8 Q. Would "all alarm criteria" depend on 9 which particular parameter is being evaluated? 10 A. Yes, it would. 11 Q. How would it depend on that? 12 A. As the example, you could talk about 13 the -- give an example of something I'm a little 14 bit more familiar with. 15 As I alluded to, a pulse oximetry 16 device being used to monitor a patient in heart 17 failure, as opposed to a patient going for a 18 tonsillectomy that is basically in good shape. 19 You wouldn't have the same alarm criteria for 20 that. 21 Or if you take another example, pulse 22 oximetry, a patient in a critical care
Page 322 1 Q. I thought had you told me earlier that 2 "multiple alarm criteria" would be sufficient? 3 A. And I misspoke at that point. That 4 was an error on my part. 5 Q. Okay. 6 What's the difference between "all 7 alarm criteria" and "multiple alarm criteria"? 8 A. "All alarm criteria" is a more precise 9 term, based on the specs that have been written. 10 Q. What would be included in "all alarm 11 criteria" that is not in "multiple alarm 12 criteria"? 13 A. If the term "all alarm criteria" was 14 in the particular claims. 15 Q. What's the difference between "all 16 alarm criteria" and "multiple alarm criteria"? 17 A. I just think it's more precise to say: 18 All alarm criteria. 19 Q. Give me one criteria in "all" that's 20 not in "multiple." 21 MS. HOEKEL: Object to the form. 22 A. The -- the specific alarm delays and	Page 324 1 environment, you would be more concerned with 2 sudden changes in the oximetry levels or 3 oxygenation levels, more so than you would be 4 for, you know, you or I that's in very good 5 shape. 6 I like to think I'm in good shape. 7 Q. So what are all the alarm criteria for 8 SpO2? 9 A. The limits as far as lower and higher, 10 the delay times in terms of if you don't have a 11 critical patient, you obviously are going to set 12 your alarm delays longer. 13 It's more critical that when you have 14 a critical patient. You want to set the alarm 15 delays tighter. 16 But by the same token, you want to see 17 in either case if the condition resolves itself 18 in an appropriate period of time based on the 19 clinician's expertise. 20 Q. What are all the alarm criteria for 21 pulse rate? 22 A. For pulse rate, again, lower and

Page 325 1 higher limits. Would be a lot tighter for 2 someone that's -- for example, in heart failure 3 as opposed to the patient that just comes in the 4 hospital for a normal physical exam. 5 Q. So the criteria themselves are the 6 same? 7 It's just the actual values are 8 different, based upon the parameters -- 9 A. No, it's the way they are set up by 10 the clinician. 11 The clinician is the one who has the 12 expertise that can set those alarm criteria. 13 I don't have that expertise. Or I 14 should -- I know what some of them are, as I 15 have articulated. 16 It's the expertise and experience of 17 the clinician how he sets those criteria. 18 Q. But your understanding of this claim 19 term is that there are different "all alarm 20 criteria" for different parameters. 21 Is that right? 22 A. There is different alarm criteria for	Page 327 1 A. Right. 2 Q. You told us that there were some steps 3 missing from the claimed processor, right? 4 A. Yes, I did. 5 Q. What steps are missing? 6 A. The steps are what exactly is going to 7 be in the algorithm for accomplishing this. 8 I don't mean the specific software, 9 but the steps for going -- first of all, 10 determining what the alarm criteria is, how you 11 set the alarm delays based on what the clinician 12 provides, and so forth. 13 Q. So the settings -- is that what you 14 are talking about? 15 A. A lack of a better term, you have to 16 program the processors to do what you want them 17 to do. The processes are dumb brains. They 18 don't know what to do. You have to provide all 19 the steps to accomplish all the tasks -- which 20 are basically set the alarm criteria, determine 21 how long the alarm delays are, determine how 22 the -- you respond to a particular alarm or
Page 326 1 each parameter being monitored based on the 2 needs of the patient. 3 Q. And all those criteria would have to 4 be satisfied? 5 A. Yes. 6 Q. So then let's move down to page 23. 7 We were talking about "the one or more 8 processors." 9 Do you remember that? 10 A. Yes, sir. 11 Q. And you looked at claim 10 itself, 12 right? 13 Exhibit 10, I'm sorry. 14 I didn't mean claim 10. 15 Exhibit 10? 16 MS. HOEKEL: The patent? 17 MR. CLAASSEN: The patent. 18 THE WITNESS: We were looking at claim 19 10 -- 20 BY MS. HOEKEL: 21 Q. We were talking about the 22 means-plus-function for this claim term, right?	Page 328 1 particular parameter. 2 Q. So you'd call those steps. 3 Is that right? 4 A. Yes. Steps, sequences, sequential 5 order of sub-processes, or whatever term. I'm 6 using engineering terms. 7 (Pause) 8 A. Can I expand on that? 9 Q. Go ahead. 10 A. I had a lot of experience with 11 programming. And before I do anything, I have 12 to develop an algorithm: What do I want to do? 13 I have to go to step A, step B, step C. And I 14 can't skip from A to Z because the computer 15 processor will not know what to do. I have to 16 tell the processor what to do so and the steps 17 required. 18 Doesn't matter what software I use. I 19 have to provide the steps. 20 Q. So let's talk about this claim 1 21 that's shown in the left column. 22 Do you see that?

Page 329 1 A. Yes. 2 Q. Do you see those: One or more 3 processors configured to electronically? -- 4 A. Yes. 5 Q. Process the signal -- is that a step? 6 A. Yes. 7 Q. Is that the first step? 8 A. Well, you have to first determine what 9 kind of threshold you want for that particular 10 parameter that you are measuring, what kind of 11 limits you set. 12 Q. That's before you process the signal, 13 you have to know what the limits are going to 14 be? 15 A. You have to have an understanding of 16 what the -- again, I'm speaking as a 17 clinician -- you have to understand what type of 18 threshold limits, how tight you want to make 19 them, and what the time frame is if you want to 20 see if the condition revolves itself, depending 21 on, again, the clinical needs of the patient. 22 Q. You need to do all of that before you	Page 331 1 MS. HOEKEL: Object to the form. 2 A. I'm not sure I understand how to 3 answer the question other than the way I have 4 answered it. 5 You are providing a sequence of steps. 6 And the steps have to be clearly articulated. 7 And the claims as claimed have to reflect what's 8 being discussed in the user's specs. 9 Q. I just want to make sure I'm 10 understanding you correctly. 11 You are saying, in order to program 12 the system, you would need to know what the 13 limits are. 14 Is that correct? 15 A. No. I'm giving you a very -- call 16 it -- brief synopsis of what an algorithm 17 entails. 18 An algorithm is defined from an 19 engineering perspective and one skilled in the 20 art: What sequence of steps needs to be set 21 forth so the processor or computer knows what to 22 do, and how to process the information -- in
Page 330 1 determine the measurement of a physiological 2 parameter. 3 Is that right? 4 A. Well, first of all, you have to 5 determine which physiological parameters. 6 Obviously, there is several different 7 parameters. There is hemoglobin, pulse ox, 8 pulse rate, EKG, glucose levels. 9 You have to determine in your 10 algorithm -- that should be the first step: 11 What parameters do I want to measure? 12 Q. So if this claim recited SpO2 as a 13 parameter, would the recited claim provide 14 enough information for you to program a 15 processor? 16 A. I'd have to know what the threshold 17 limits are. It's not clear as to how they are 18 setting -- what they mean by "alarm activation 19 thresholds." 20 Q. So which of these steps after 21 "configured to electronically" are 22 means-plus-function limitations?	Page 332 1 this case the physiological parameters; and what 2 the limits that are going to be acceptable as 3 far as the threshold limits. 4 I'm giving you, sort of, an 5 abbreviated what an algorithm does. 6 We haven't talked about the specific 7 software used. 8 I'm just saying: The sequence of 9 steps that you have to utilize to get these 10 processors to use the best means for determining 11 the physiological parameter that you are 12 monitoring. 13 Q. So I'll ask you again: This claim 14 recites: One or more processors configured to 15 electronically. 16 Do you see that? 17 A. Yes. 18 Q. Then there are steps, right? 19 A. Yes. 20 Q. What steps are missing? 21 A. You haven't really included a step: 22 How is the physiological parameter being

Page 333 1 monitored to satisfy an alarm activation 2 threshold holding? 3 Haven't really defined how you do 4 that. 5 Q. Defining a threshold is important to 6 determining that the measurement satisfies a 7 threshold, right? 8 A. You have to understand what's 9 acceptable; outside thresholds that are not 10 acceptable. In other words, your predetermined 11 threshold or limits should be understood. 12 And that's why I thought -- now that's 13 why I'm of the opinion that my terminology for 14 structure is more precise and more correct -- as 15 far as for one skilled in the art -- to 16 understand this device. 17 Q. Does "predetermine" mean 18 "preprogrammed"? 19 A. It can be. 20 Q. Must it be? 21 A. Based on the context of these specs, I 22 would say: Yes.	Page 335 1 BY MR. CLAASSEN: 2 Q. Counsel was talking with you about the 3 "electronically initiating." 4 Do you remember that? 5 A. Yes. 6 Q. You were talking about Masimo's 7 construction, right? 8 A. Correct. 9 Q. Why does Masimo's construction include 10 "pre-alarm delays"? 11 MS. HOEKEL: I'm going to object to 12 the form. 13 BY MR. CLAASSEN: 14 Q. Do you understand the question? 15 A. Yes. 16 Q. You can answer it. 17 A. I can, but I need to think about what 18 you are asking me. 19 So could you repeat the question? 20 Q. You testified when counsel asked you 21 that Masimo's construction includes pre-alarm 22 delays, right?
Page 334 1 Q. So a user could not input any sort of 2 limits into -- 3 A. No, I didn't say that. 4 That's why I made mention and I 5 emphasized that the clinician has to provide the 6 required acceptable threshold limits. 7 I as an engineer can't do that. 8 I can program based on what he 9 provides to me -- or she. 10 Q. But those are provided by the 11 clinician, right? 12 A. The clinician, healthcare worker -- 13 whoever is directly responsible for the patient. 14 Could be a nurse; could be a physician; P A. 15 MR. CLAASSEN: Let's move, then, to 16 page 33 of Exhibit 1. 17 MS. HOEKEL: Thirty-three? 18 MR. CLAASSEN: Please. 19 THE WITNESS: Where are we, counselor? 20 MR. CLAASSEN: Let's go to page 33 on 21 Exhibit 1. 22 THE WITNESS: Right.	Page 336 1 A. And I answered: I don't agree with 2 the way they disclosed the pre-alarm delays 3 because they used the term I didn't agree with. 4 Q. My question is a little different. 5 My understanding from what you said is 6 that Masimo's construction would include 7 pre-alarm delays. 8 Is that right? 9 A. In response to a user. 10 Once the pre-alarm delay has been -- 11 you are talking about pausing the first alarm? 12 Q. I'm talking about Masimo's 13 construction here. 14 And when opposing counsel asked -- or, 15 I guess, your attorney asked you -- does 16 Masimo's construction include pre-alarm delays?, 17 I thought you responded that it does. 18 A. And my answer again is: Yes. 19 Q. Okay, why? 20 A. Because that's what the specs say. 21 Q. What about Masimo's construction 22 includes pre-alarm delays?

Page 337 1 A. You are asking me in the claims? 2 Or the specs? 3 Q. I'm asking you in Masimo's 4 construction. 5 A. And I don't agree with the way they 6 proposed it. 7 Q. And that's because it includes 8 pre-alarm delays, in part, right? 9 A. Somewhat. 10 Q. Okay. 11 Does Masimo's construction include 12 pre-alarm delays? 13 MS. HOEKEL: Object to the form. 14 A. I don't believe that the scope -- 15 properly discussed it. And I think, no, they 16 didn't discuss pre-alarm delays in a way that I 17 understand what they meant. 18 Q. Are you talking about the 19 specification now? 20 Or are you talking about Masimo's 21 proposed construction? 22 A. I'm talking about the proposed claim	Page 339 1 Q. You see the "electronically 2 initiating" limitation? 3 A. If I'm reading correctly, are you 4 starting from line 34. 5 MR. CLAASSEN: Would you mind putting 6 up Exhibit 10 on the screen, and then claim -- 7 THE WITNESS: Yeah, I'm looking at the 8 claim. 9 MR. CLAASSEN: I want to make sure we 10 are all looking at the same thing. 11 THE WITNESS: Okay. Thank you. 12 BY MR. CLAASSEN: 13 Q. So what were you directing us to, Dr. 14 Yanulis? 15 A. The use of the term 16 "parameter-specific alarm delay." 17 And I don't think the term 18 "parameter-specific alarm delay" has been 19 properly disclosed and supported in the patent 20 specs. 21 Q. Okay. 22 We were talking about the construction
Page 338 1 construction in view of what they disclosed in 2 their specs. 3 Q. So does the proposed construction -- 4 the Masimo proposed construction -- include 5 pre-alarm delays? 6 A. I'd have to look at the claims again. 7 Q. I'm asking you to do that right now. 8 A. Okay. I have to get out my patent. 9 Q. Okay. 10 A. Which exhibit is this, by the way, for 11 '244? 12 Q. I believe it's going to be Exhibit 10 13 again. 14 A. Give me a second. 15 (Pause) 16 A. So we are looking at the claims, if 17 they actually articulate that. 18 Give me a moment to read it, 19 counselor. 20 Q. I'll direct your attention to claim 21 13. 22 A. Okay.	Page 340 1 of the term "electronically initiating." 2 You understood that, right? 3 A. Correct. 4 Q. And you understood Masimo's proposed 5 construction to be plain and ordinary meaning, 6 right? 7 A. I didn't hear the last part, 8 counselor. 9 Q. You understood Masimo's construction 10 to be plain and ordinary meaning, right? 11 A. Yes. 12 Q. What about the plain and ordinary 13 meaning includes pre-alarm delays? 14 A. It doesn't say it, but it says 15 "parameter-specific alarm delay." 16 Q. So "parameter-specific alarm delay" 17 means "pre-alarm delays." 18 Is that right? 19 MS. HOEKEL: Object to the form. 20 A. I don't -- how do I phrase this? 21 In the way the term has been construed 22 or adopted by Masimo -- and, again, the claim --

Page 341 1 this part of the claim -- as far as the 2 parameter-specific alarm delay, I don't really 3 see how that parameter-specific alarm delay has 4 been properly disclosed for me to understand it 5 in the claim. 6 Q. So is that your complete description 7 of why Masimo's construction includes pre-alarm 8 delays? 9 A. I would have liked to also have 10 included a little bit more description of how 11 the user responds to a set parameter-specific 12 alarm delay. 13 And, again, I was focusing on the term 14 in the terminology -- "pre-alarm 15 parameter-specific." 16 Q. So now we are talking about what you 17 would hope to see in the specification. 18 Is that right? 19 A. Well, what I would hope to see more 20 clearly, precisely defined in this claim. 21 (Pause) 22 Q. Do you have anything else to add on	Page 343 1 Q. That would include "pre-alarm delays," 2 right? 3 A. Again, I'm putting the phrase 4 "parameter-specific alarm delays." 5 There is a difference. 6 I'm saying they are not defined why 7 they are parameter-specific for a particular 8 physiological parameter. 9 Q. So I'll ask you one more time: Why 10 does Masimo's construction include pre-alarm 11 delays? 12 A. Because it's a period of time before 13 some action is taken by the user. 14 (Pause) 15 Q. Your attorney then asked you at the 16 end of your redirect on -- about the plain and 17 ordinary meaning used in the IPR petitions. 18 Do you remember that? 19 A. Yes. 20 Q. You testified that using the plain and 21 ordinary meaning would result in the invalidity 22 of the claim term for the claims at issue,
Page 342 1 why Masimo's construction includes pre-alarm 2 delays? 3 A. I am sorry? 4 Q. Do you have anything else to add on 5 why Masimo's construction includes pre-alarm 6 delays? 7 A. Because they haven't really discussed 8 it in terms of -- no, I don't, at this point. 9 I may have an opinion later on, but I 10 need to think about it. Give me a moment. 11 (Pause) 12 A. The way it's claimed is not adequately 13 disclosed to my understanding as an expert 14 skilled in the art the way it's claimed. 15 I don't know what else to say. 16 Q. Do you have anything else to add on 17 why Masimo's construction does not -- or would 18 include pre-alarm delays? 19 A. Because of the term 20 "parameter-specific alarm." I'm not -- I'm not 21 agreeing with it -- proper use, I think that's 22 an improper, less-precise terminology.	Page 344 1 right? 2 A. In the context of the IPR declaration, 3 I was saying plain and ordinary meaning is 4 sufficient for the IPR presented to the patent 5 board. 6 Q. But you expressed no opinion under 7 Sotero's proposed constructions, right? 8 A. I didn't agree with Masimo's. 9 I thought I expressed that. 10 Q. In the IPR declarations, you presented 11 no position based upon Sotero's narrower 12 constructions that we discussed today, right? 13 A. Because today's discussion does not 14 require -- or today's discussion requires a more 15 precise understanding and agreement of terms. 16 The IPR does not. 17 I was using the standard very 18 correctly. Obviously, the so-called plain and 19 ordinary meaning applied to both. 20 But, again, I was not concerned with 21 the terms per se, because I did not have an idea 22 what the courts would determine as the top eight

Page 345 1 or nine or 20 claims of disagreement. 2 What I was basing the IPR -- as I have 3 said a couple of times now -- is the IPR 4 exercise was proving the invalidity of the 5 patent being discussed based on prior art. 6 Q. Based upon the broader construction 7 that Masimo proposed, right? 8 A. No, I didn't say that. 9 Again, I think I have said a couple 10 times on the record: The claims are invalid in 11 the IPR. They have no meaning. You are only 12 looking at the invalidity of the patent -- its 13 entirety. 14 I am not looking as how precise or how 15 correct because the court hasn't decided. 16 I only have what's been discussed in 17 the IPR. And that's -- as I have been saying 18 right along -- you are looking at invalidity 19 issues. 20 You are not looking in a limited 21 context, if you will, of the so-called claims 22 that may or may not be construed.	Page 347 1 You are misinterpreting what I'm 2 saying. 3 The IPR is a separate exercise. It 4 looks at the invalidity. You don't care about 5 the so-called potential terms. 6 This is the purpose of the district 7 court acting in this stage. 8 Q. I understand that that's your view. 9 MR. CLAASSEN: I have no further 10 questions. 11 THE WITNESS: And I appreciate the 12 time, sir. 13 MS. HOEKEL: No redirect. 14 15 THE VIDEOGRAPHER: Okay. This marks 16 the end of today's deposition. The time is 8:33 17 p.m. 18 * * * 19 END OF PROCEEDING 20 Time noted 8:33 p.m. Eastern Standard Time 21 * * * 22
Page 346 1 The claims have no -- the claims are 2 invalid for both parties in the IPR. 3 I have said that a few times now. 4 Q. I don't know what that means. 5 A. It means they could be right or not 6 right. That's not the purpose of the IPR. 7 The IPR is to provide evidence that 8 the patents are invalid -- nothing more, nothing 9 less. 10 This district court in the next phase 11 requires an accurate preciseness of all the 12 terms in the claims in view of the 13 specifications. 14 Q. So in your view, the claims can be 15 construed differently for the IPR than they can 16 for the district court, right? 17 A. I didn't say that. 18 I said you are looking more broadly at 19 the terms. You are not concerned with the terms 20 as much as you are in this exercise. 21 You are still using the standard plain 22 and ordinary meaning.	Page 348 1 CERTIFICATE 2 3 I, BRANDON RAINOFF, a Federal Certified 4 Realtime Reporter and Notary Public within and for 5 the State of New York, do hereby certify: 6 That GEORGE EMANUEL YANULIS,, the 7 witness whose deposition is hereinbefore set forth, 8 was duly sworn by me and that such deposition is a 9 true record of the testimony given by the witness. 10 I further certify that I am not related 11 to any of the parties to this action by blood or 12 marriage, and that I am in no way interested in the 13 outcome of this matter. 14 IN WITNESS WHEREOF, I have hereunto set 15 my hand this 10th day of September, 2020. 16 17 18 19 20 21 22 BRANDON R. RAINOFF, RMR, CRR, RPR, FCRR

Page 349 1 George Emanuel Yanulis, Ph.D., c/o HUSCH BLACKWELL LLP 2 190 Carondelet Plaza, Suite 600 St. Louis, Missouri 63105 3 4 Case: Masimo Corporation v. Sotera Wireless, et al. Date of deposition: September 10, 2020 Deponent Name: George Emanuel Yanulis, Ph.D. 5 6 7 Please be advised that the transcript in the above 8 referenced matter is now complete and ready for signature. 9 The deponent may come to this office to sign the transcript, 10 a copy may be purchased for the witness to review and sign, 11 or the deponent and/or counsel may waive the option of 12 signing. Please advise us of the option selected. 13 Please forward the errata sheet and the original signed 14 signature page to counsel noticing the deposition, noting the 15 applicable time period allowed for such by the governing 16 Rules of Procedure. If you have any questions, please do 17 not hesitate to call our office at (202)-232-0646. 18 19 20 Sincerely, Digital Evidence Group 21 Copyright 2020 Digital Evidence Group Copying is forbidden, including electronically, absent 22 express written consent.	Page 351 1 Digital Evidence Group, LLC 2 1730 M Street, NW, Suite 812 3 Washington, D.C. 20036 4 (202)232-0646 5 6 ERRATA SHEET 7 8 Case: Masimo Corporation v. Sotera Wireless, et al. 9 Witness Name: George Emanuel Yanulis, Ph.D. 10 Deposition Date: September 10, 2020 11 Page No. Line No. Change 12 13 14 15 16 17 18 19 20 21 _____ 22 Signature Date
Page 350 1 Digital Evidence Group, L.L.C. 1730 M Street, NW, Suite 812 2 Washington, D.C. 20036 (202) 232-0646 3 4 SIGNATURE PAGE Case: Masimo Corporation v. Sotera Wireless, et al. 5 Witness Name: Name: George Emanuel Yanulis, Ph.D. Deposition Date: September 10, 2020 6 7 I do hereby acknowledge that I have read 8 and examined the foregoing pages 9 of the transcript of my deposition and that: 10 (Check appropriate box): 11 () The same is a true, correct and complete transcription of the answers given by me to the questions therein recorded. 12 () Except for the changes noted in the attached Errata Sheet, the same is a true, 13 correct and complete transcription of the answers given by me to the questions therein 14 recorded. 15 16 _____ 17 DATE WITNESS SIGNATURE 18 19 20 21 _____ 22 DATE NOTARY	

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