

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

COLUMBIA INSURANCE COMPANY and
MITEK INC.,

Plaintiffs,

v.

Case No.

SIMPSON STRONG-TIE COMPANY,
INC.,

3:19-CV-04683-TSH

Defendant.

DEPOSITION OF WILLIAM ANDREW FENNELL

DATE: Tuesday, April 15, 2025

TIME: 9:00 a.m.

LOCATION: Shartsis Friese, LLP

425 Market Street, 11th Floor

San Francisco, CA 94105

OFFICIATED BY: Ariana Crisafulli

JOB NO.: 7228504

Columbia EX2143

Simpson Strong-Tie Company Inc. v. Columbia Insurance Company

PGR2024-00050

A P P E A R A N C E S

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P R O C E E D I N G S

THE OFFICER: Good morning. My name is Ariana Crisafulli. I am the reporter assigned by Veritext to take the record of this proceeding. We are now on the record at 9:00 a.m.

This is the -- this is the deposition of Andrew Fennell, taken in the matter of Columbia Insurance Company and MiTek Inc. versus Simpson Strong-Tie Company, Inc. on April 15h, 2025, at San Francisco, California 94105.

I am a notary authorized to take acknowledgements and administer oaths in California.

Additionally, absent an objection on the record before the witness is sworn, all parties and the witness understand and agree that any certified transcript produced from the recording of this proceeding:

- is intended for all uses permitted under applicable procedural and evidentiary rules and laws in the same manner as a deposition recorded by stenographic means; and
- shall constitute written stipulation of such.

At this time, will everyone in attendance

<p style="text-align: right;">Page 6</p> <p>1 please identify yourself for the record, beginning from 2 my right. 3 MR. EIDSON: Scott Eidson, Stinson LLP, 4 on behalf of MiTek and Columbia Insurance, the 5 plaintiffs. 6 MR. MAUCH: Joseph Mauch of Shartsis 7 Friese on behalf of Defendant Simpson Strong-Tie 8 Company, Incorporated. 9 MR. FENNELL: And William Andrew Fennell, 10 F for Fred, E-N-N-E-L-L, and I am the deponent. 11 THE OFFICER: Thank you. Hearing no 12 objection, I will now swear in the witness. Please 13 raise your right hand. 14 WHEREUPON, 15 WILLIAM ANDREW FENNELL, 16 called as a witness and having been first duly sworn to 17 tell the truth, the whole truth, and nothing but the 18 truth, was examined and testified as follows: 19 THE OFFICER: Thank you. 20 You may proceed. 21 EXAMINATION 22 BY MR. EIDSON: 23 Q Good morning, Mr. Fennell. How are you? 24 A I'm very well, Counsel. 25 Q Is this your first time giving an in-person</p>	<p style="text-align: right;">Page 8</p> <p>1 fair? 2 A It does. 3 Q Okay. Very good. Are you on any medication 4 that would affect your ability to testify truthfully or 5 accurately today? 6 A No. 7 Q All right. Do you have a medical condition 8 that would affect your ability to testify truthfully or 9 accurately today? 10 A No. 11 Q All right. So you've been retained by Simpson 12 Strong-Tie to render opinions on the validity of various 13 MiTek firewall hanger patents; correct? 14 A Yes. 15 Q All right. And as it pertains to this case, 16 you have rendered an opinion as to Claim 40 of the 510 17 Patent; correct? 18 A Yes. 19 Q All right. And you prepared one initial 20 report, dated February 14th; correct? 21 A Yes. 22 Q And then you prepared a supplemental report, 23 dated March 7, 2025; correct? 24 A Yes. 25 Q All right. And all of the opinions you plan</p>
<p style="text-align: right;">Page 7</p> <p>1 deposition? 2 A No. 3 Q Okay. First time in the Simpson versus MiTek 4 war saga; is that fair to say? 5 A Yes. 6 Q Okay. Very good. How many times have you 7 been deposed in person? 8 A Approaching 50. 9 Q Very good. All right. So I'm not going to 10 belabor the rules of the deposition process with you. 11 You understand how we're to proceed here today; fair to 12 say? 13 A I do. 14 Q Okay. I'll make a couple stipulations with 15 you. We will go at your pace today. If you want a 16 break, let me know, and we will take one. The only 17 stipulation I'll make with you is that if a question is 18 pending on the table, we wrap up that question before we 19 take a break. Does that sound fair? 20 A That's fine. 21 Q Okay. If I ask you a question, and you don't 22 understand it, let me know, and I'll rephrase. But if 23 you answer a question that I've asked, I'm going to 24 assume that you understood it and that the answer you 25 gave was both truthful and accurate. Does that sound</p>	<p style="text-align: right;">Page 9</p> <p>1 on offering in this case are in that March 7, 2025, 2 report; correct? 3 A Largely. I -- the opinions, primary opinions 4 are -- are in that supplemental report that we just 5 discussed. However, I have subsequently had the 6 opportunity to review Professor Serrette's rebuttal 7 report and also just recently received a draft 8 deposition transcript of Dr. Serrette's deposition taken 9 just recently. 10 And from those extra documents, I have formed 11 some rebuttal-type opinions that we can offer today. I 12 suspect they'll come out. As we discuss each of the 13 sections in my supplemental report, we can identify 14 those additional rebuttal-type opinions as we go. 15 Q Did you understand that you were under an 16 obligation to provide any rebuttal opinions in writing? 17 A No. No. It's just a -- 18 Q Okay. Yeah. So the time for rebutting 19 anything has passed in this case. Do you understand 20 that? 21 A Okay. If you say so. 22 Q Okay. So we're going to focus on the opinions 23 that you have in your reports today. And so my 24 question, then, is, setting aside any non-disclosed 25 rebuttal opinions, are all of your opinions on the</p>

<p style="text-align: right;">Page 10</p> <p>1 validity of the 510 Patent contained in your March 7, 2 2025, report?</p> <p>3 A The primary ones, yes.</p> <p>4 Q What's not contained in there?</p> <p>5 A Well, if we are having a detailed discussion 6 of my opinions, and there may be some sub-opinion or 7 some minor-type opinion offered that -- in response to a 8 question you ask, but the primary opinions that I -- 9 Intend to testify to are in that report.</p> <p>10 Q Do you understand it was your obligation to 11 disclose all of your opinions in that March 7, 2025, 12 report?</p> <p>13 MR. MAUCH: Objection. Lacks foundation. 14 Seeks a legal conclusion.</p> <p>15 MR. EIDSON: You can answer, Mr. Fennell.</p> <p>16 THE WITNESS: Yes, I'm -- I'm comfortable 17 with what's in my binder there. As I say, I mean, if -- 18 if you ask me a question, and it gets into the weeds, 19 there may be a sub-opinion that's not written down 20 currently.</p> <p>21 BY MR. EIDSON:</p> <p>22 Q What sub-opinion that's not written down 23 pertaining to the validity of Claim 40 do you have that 24 is not in your report?</p> <p>25 A As I sit here right now, I have no idea what</p>	<p style="text-align: right;">Page 12</p> <p>1 that's the one I'm referring to. Does that sound fair?</p> <p>2 A It does.</p> <p>3 Q All right. There's nothing that you forgot to 4 cite in your report when you were rendering your 5 opinions in this matter?</p> <p>6 A Not that I'm aware of.</p> <p>7 Q And to the best of your recollection, your 8 report is both complete and accurate?</p> <p>9 A Yes.</p> <p>10 Q Did you have access to all the information you 11 needed to form your opinions in this case?</p> <p>12 A I believe so.</p> <p>13 Q You had access to Simpson's counsel; correct?</p> <p>14 A I did, yes.</p> <p>15 Q Okay. You had access to Simpson's documents 16 if you wanted them; correct?</p> <p>17 A Yes.</p> <p>18 Q You had access to Simpson personnel if you 19 wanted it; correct?</p> <p>20 A Yes.</p> <p>21 Q You had access to MiTek's documents if you 22 wanted them; correct?</p> <p>23 A Yes.</p> <p>24 Q All right. Did anyone restrict access to the 25 information available to you when rendering your</p>
<p style="text-align: right;">Page 11</p> <p>1 that would be.</p> <p>2 Q Okay.</p> <p>3 A Maybe in the next seven hours.</p> <p>4 Q As it pertains to the validity of the 510 5 Patent, is it fair to say that everything is in your 6 report?</p> <p>7 MR. MAUCH: Asked and answered.</p> <p>8 THE WITNESS: Yeah, I'd just refer you to 9 my previous answers.</p> <p>10 BY MR. EIDSON:</p> <p>11 Q Are you prepared to talk about all of your 12 expert opinions today?</p> <p>13 A In this matter, yes.</p> <p>14 Q Okay. All the documents and information that 15 you relied on in coming up with your opinions are cited 16 in your report on March 7th; correct?</p> <p>17 A Yes.</p> <p>18 Q Okay. And when we talk about your report and 19 your opinions, I'm focusing on the March 7th report. I 20 understand there are different variations and an earlier 21 one and a supplement, but it's fair to say that the 22 March 7th report replaced your February 14th report; 23 correct?</p> <p>24 A Yes.</p> <p>25 Q All right. And so when I say, "your report,"</p>	<p style="text-align: right;">Page 13</p> <p>1 opinions in this matter?</p> <p>2 A No.</p> <p>3 Q All right. Did you speak with any Simpson 4 personnel in rendering your opinions in this matter, 5 outside of counsel?</p> <p>6 A No.</p> <p>7 Q You mentioned Dr. Serrette's rebuttal report 8 to your opinions. Did you read his initial report on 9 infringement?</p> <p>10 A I did not.</p> <p>11 Q Why not?</p> <p>12 A I was not asked to, and the deposition I was 13 offering today was based on my report.</p> <p>14 Q But it's not also based on rebutting 15 Dr. Serrette's rebuttal report either, is it? But you 16 read that one; right?</p> <p>17 A That was only just provided to me recently, 18 and I did read it, yes.</p> <p>19 Q Did anyone provide the infringement report of 20 Dr. Serrette to you?</p> <p>21 A No.</p> <p>22 Q Would you have wanted to read it if you had 23 it?</p> <p>24 MR. MAUCH: Objection. Vague.</p> <p>25 THE WITNESS: I'm not sure. I mean, if</p>

<p style="text-align: right;">Page 14</p> <p>1 that was the only version of Dr. Serrette's opinions, 2 possibly, likely, yes. But once I was given his 3 rebuttal report, that seemed like a far more on-point 4 discussion of particularly my opinions. 5 BY MR. EIDSON: 6 Q You're not offering any opinions on 7 infringement in this case; correct? 8 A There are none currently involved in my 9 report. 10 Q So you don't have an opinion one way or 11 another or whether Claim 40 is infringed; fair to say? 12 A I -- I was going today to discuss some of the 13 rebuttal testimony in Dr. Serrette's draft deposition, 14 and that would've had a -- an opinion on infringement. 15 Q But you haven't rendered any infringement or 16 non-infringement opinions in this matter, have you? 17 A No. My -- my opinions in this report are on 18 invalidity. 19 Q Okay. So you don't know one way or another 20 whether Claim 40 is infringed; is that fair to say? 21 MR. MAUCH: Objection. Vague. 22 THE WITNESS: My opinions are limited to 23 invalidity. 24 BY MR. EIDSON: 25 Q Are you aware of whether Simpson has conceded</p>	<p style="text-align: right;">Page 16</p> <p>1 Q Did you confer with anyone at Simpson in 2 formulating your opinions in this matter, outside of 3 counsel? 4 A Well, there was a co-consultant, Sherwin, if 5 that fits. 6 Q Serwin? 7 A Serwin. 8 Q Dr. Serwin, the economist? 9 A Yes. 10 Q Okay. 11 A But I believe that's it from Team Simpson. 12 Q When you've rendered any opinions in any of 13 the matters, have you spoken with anyone at Simpson? 14 A Don't believe so, no. 15 THE OFFICER: Did you say -- sorry. 16 "Don't -- don't believe so"? 17 THE WITNESS: I don't believe so, no. 18 BY MR. EIDSON: 19 Q Do you know who Sam Hensen is? 20 A I've read that name in places. I don't recall 21 his actual title at Simpson. 22 Q Have you read his deposition transcript? 23 A I have not. 24 Q Or multiple transcripts, I should say. 25 A I have not read any of them.</p>
<p style="text-align: right;">Page 15</p> <p>1 infringement in this case? 2 A No. 3 Q You don't know one way or another? 4 A I don't know one way or the other. 5 Q And in a nutshell, your opinions in this 6 matter are that Claim 40 of the 510 is invalid as both 7 anticipated and obvious; correct? 8 A That's correct. 9 Q And you've been obtained to opine on 10 invalidity and other related MiTek proceedings; correct? 11 A Yes. 12 Q You've rendered expert opinion testimony 13 against the 867 and the 626; correct? 14 A Yes. 15 Q And against the 339; correct? 16 A Yes. 17 Q All right. And you understand the 18 distinctions between all those patents? 19 MR. MAUCH: Objection. Vague. 20 THE WITNESS: I do. 21 BY MR. EIDSON: 22 Q And the latest testimony, I think, right 23 before your March opinions in this case that you offered 24 was your direct evidence in the 339 PGR; is that right? 25 A Probably.</p>	<p style="text-align: right;">Page 17</p> <p>1 Q Do you know who Mr. Wert is, Bryan Wert? 2 A No. 3 Q Fair to say you haven't read his deposition 4 transcript? 5 A That's correct. 6 Q Have you read any deposition transcripts from 7 any Simpson personnel? 8 A I have not. 9 Q At any time, not just -- at any time? 10 A In this matter? 11 Q In any matter. 12 A I don't believe I've read any Simpson 13 transcripts related to these patent cases. 14 Q Other than what is listed in your report, did 15 you consider any Simpson documents in rendering your 16 opinion? 17 A Well, what's in my file is what I considered, 18 and what I drew from for opinions are -- are listed in 19 the materials, listed as exhibits. 20 Q Did you look at any Simpson emails when 21 rendering your opinions in this case? 22 A No. 23 Q Did you look at any MiTek emails when 24 rendering your opinions in this case? 25 A No.</p>

<p style="text-align: right;">Page 18</p> <p>1 Q Other than Dr. Serwin, is there anyone else 2 outside of counsel that you've conferred with in 3 rendering your opinions? 4 A Just focused on my stuff. 5 Q Did you talk to Mr. Hoffman? Do you know who 6 that is? 7 A No. 8 Q Okay. I'll represent to you that Simpson has 9 retained an expert in this case, Nathan Hoffman, to 10 render opinions. Have you read any of those opinions or 11 read his report? 12 A Not that I recall. 13 Q And so when did you speak with Dr. Serwin? 14 A Oh, I list the date in my report. 15 Q It was February 13th. Was the date listed in 16 your report, was that the only time? 17 A Yes. 18 Q So you just had one conversation with him? 19 A Yes. 20 Q How long did that last? 21 A It wasn't very long. It was 15, 20 minutes 22 perhaps. 23 Q What did you discuss? 24 A I can look up what I wrote. But just from 25 memory, it was my views of Claim 40.</p>	<p style="text-align: right;">Page 20</p> <p>1 A It was requested that I have that for the 2 purposes of coordination. 3 Q By who? 4 A By counsel. 5 Q So counsel set up the call? 6 A Yes. 7 Q Have you consulted with any other third 8 parties outside of Simpson personnel in rendering your 9 opinions for any matter? 10 MR. MAUCH: Objection. Vague. 11 BY MR. EIDSON: 12 Q For any of the firewall matters. If it's 13 difficult for you to remember if that was for the PGR or 14 for the litigation, because I do understand there's some 15 overlap. That's why I'm asking broadly, and if we need 16 to parse it, we can. 17 A Oh no. It's just simply when you say, 18 "matters," it's like I'm working on -- 19 Q Yeah, no, I get that, 20 A -- a hundred matters in at any time. So for 21 the purposes of these patent matters, I have not 22 consulted with others not identified to date. As I 23 mentioned before, I have worked with folks on my staff 24 to discuss and develop these opinions in a 25 committee-like environment.</p>
<p style="text-align: right;">Page 19</p> <p>1 Q And what specific views did you convey to him? 2 A What is disclosed by Claim 40. 3 Q And what did you tell him was disclosed by 4 Claim 40? 5 A The -- the various limitations of Claim 40 as 6 written. 7 Q Did you tell him what was not disclosed by 8 Claim 40? 9 A No, I don't recall. 10 Q Did you show him a draft of your report? 11 A I did not. 12 Q Did he send you a draft of his report? 13 A No. 14 Q So you didn't send him a draft of your report, 15 and he didn't send you a draft of his; is that fair to 16 say? 17 A From memory, yes. 18 Q What else did you and Mr. Fennell discuss? 19 A I have a lot of discussions with Mr. Fennell. 20 Q I'm sorry. Mr. Serwin. Dr. Serwin. I'll get 21 it right eventually. Third time's a charm. 22 A From memory again, it was just a -- a 23 discussion of the POSITA-type aspects of Claim 40. 24 Q Why did you need to have that conversation 25 with Dr. Serwin?</p>	<p style="text-align: right;">Page 21</p> <p>1 Ultimately, the opinions are -- are mine, but 2 that's it. 3 Q When it came to preparing your opinions, who 4 was your main point of contact from an attorney 5 perspective? 6 A Counsel Mauch. 7 Q If Dr. Serwin in his report mentions getting a 8 draft of your report before February 14th, would that be 9 accurate or no? 10 MR. MAUCH: Objection. Lacks foundation 11 assumes facts not in evidence. 12 THE WITNESS: I -- I don't honestly know. 13 BY MR. EIDSON: 14 Q Okay. As you sit here today, you just don't 15 remember one way or another whether you sent him a 16 draft, or is it your affirmative memory that you didn't 17 send him a draft? That's my question. 18 A The former. I just don't recall. 19 Q You don't recall one way or another? 20 A Correct. 21 Q Got it. Probably should have asked that 22 first. It's a little easier to answer. And you 23 mentioned that you've, both in this case and other 24 cases, read the reports of Dr. Serrette; correct? 25 A I have.</p>

<p style="text-align: right;">Page 22</p> <p>1 Q All right. You don't take any issue with his 2 qualifications, do you? 3 MR. MAUCH: Objection. Vague. 4 THE WITNESS: Oh, no. I -- I have a lot 5 of respect for Dr. Serrette. 6 BY MR. EIDSON: 7 Q Agreed that he fits the parties' agreed-upon 8 definition of a person of ordinary skill in the art? 9 A I do. 10 Q You mentioned earlier that you had, you know, 11 50 other matters that you're working on. What 12 percentage of your professional work is 13 litigation-related? 14 A If you're talking about me personally, more 15 than three quarters of my work is -- involves some type 16 of active litigation. The balance of my work is for 17 primarily assisting builders with new construction 18 matters. 19 Q Working on these firewall patent disputes, is 20 this the first time you've worked for Simpson? 21 A No. I've done several small matters for 22 Simpson over the years, but they were primarily 23 associated with materials testing and laboratory 24 services with my previous company, Scientific 25 Construction Laboratories, listed on my resume</p>	<p style="text-align: right;">Page 24</p> <p>1 estoppel expert in this case; correct? 2 A Again, yeah, I don't recall. Don't think so. 3 Q And you have no opinions pertaining to 4 estoppel in this matter; right? 5 A I don't. 6 Q Mr. Fennell, I've handed you what we have 7 marked as Fennell Exhibit 1. It is a copy of objections 8 and responses to a subpoena served on you and your firm 9 from MiTek. Do you recall getting that subpoena? 10 (Fennell Exhibit 1 was marked for 11 identification.) 12 A I do. 13 Q Okay. And you recall working with counsel to 14 prepare these objections; correct? 15 A Well, I worked to prepare documents that were 16 responsive to this subpoena, but the actual objections 17 are -- are legal, not from me. 18 Q Okay. So you gathered documents in response 19 to the subpoena, but you had no participation in these 20 objections in this formal document that's Exhibit 1. Is 21 that fair to say? 22 A Yes. 23 Q Okay. And as it pertains to all of the 24 categories of information in these objections in which 25 you say you will produce all non-privileged documents,</p>
<p style="text-align: right;">Page 23</p> <p>1 somewhere. 2 Q Any other litigation matters for Simpson? 3 A The matter I was -- matters I was thinking of, 4 none of them were litigation-based for Simpson. This is 5 the first time I've been retained in a litigation 6 consultant role. 7 Q Have you worked with attorneys at the Shartsis 8 firm before? 9 A I don't believe so. 10 Q In your report, you mentioned in an offhand 11 manner, or maybe not offhand -- I certainly don't mean 12 to be pejorative -- that you had considered Mr. Lyman's 13 deposition testimony. Do you recall that? 14 A Not at this time. 15 Q Okay. Do you know who Mr. Lyman is? 16 A Honestly blanking on him. If you can direct 17 me to a page or a paragraph, I can. 18 Q He was MiTek's expert on some estoppel issues. 19 Are you familiar with those issues in this case? 20 A No. 21 Q Okay. So it's fair to say that you haven't 22 read any of the parties' estoppel briefing in this case? 23 A Not that I'm aware of. 24 Q All right. And you haven't reviewed any of 25 the expert testimony or transcripts from Simpson's</p>	<p style="text-align: right;">Page 25</p> <p>1 is it fair to say that you produced everything you had 2 in response to the subpoena? 3 A I believe so, yes. 4 Q You're not holding anything back or anything 5 like that? 6 A No. 7 Q One of the items requested was an engagement 8 letter. Do you have an engagement letter for this 9 matter or any of the matters related to the firewall 10 patents? 11 A I seem to remember signing something way back 12 in the day, 2020-ish. There was a -- some sort of blurb 13 from Simpson or the counsel for Simpson. So yes, there 14 there is one. It should be in my -- my heap. 15 Q Okay. I didn't see that, but we can talk 16 about that at a break. 17 A Okay. 18 MR. MAUCH: I believe it was produced. 19 MR. EIDSON: Was it? And if I missed it, 20 I'll certainly own that. I just didn't see it. Okay. 21 BY MR. EIDSON: 22 Q Thank you, Mr. Fennell. So, actually, you can 23 keep all the exhibits. This is a little bit different, 24 but you're going to keep all the exhibits in front of 25 you, and we'll just make a stack as the day goes on.</p>

<p style="text-align: right;">Page 26</p> <p>1 A Right you are.</p> <p>2 Q Yeah. And, Mr. Fennell, just to clarify on</p> <p>3 the record, I'll hand you a series of exhibits today.</p> <p>4 Just keep them in front of you. Try to do your best to</p> <p>5 keep them organized. I will tell you there will be a</p> <p>6 portion of the day where we come back and flip back and</p> <p>7 forth between different exhibits, so --</p> <p>8 A No problem.</p> <p>9 Q All right. I've handed you what we have</p> <p>10 marked as Fennell Exhibit 2. It's a document Bates</p> <p>11 labeled Fennell 1, and it is an invoice dated January</p> <p>12 31, 2025, from Engineered Research Group. You recognize</p> <p>13 this exhibit; correct?</p> <p>14 (Fennell Exhibit 2 was marked for</p> <p>15 identification.)</p> <p>16 A Yes.</p> <p>17 Q All right. What is it?</p> <p>18 A It's an invoice for professional services on</p> <p>19 this matter from my office to the Shartsis firm.</p> <p>20 Q And when you submit invoices for payment, you</p> <p>21 make sure you review them to make sure they're accurate;</p> <p>22 correct?</p> <p>23 A Yes, I -- I review all the invoices that go</p> <p>24 out of our office or direct them to the staff that are</p> <p>25 in charge of them. But I reviewed this one, yes.</p>	<p style="text-align: right;">Page 28</p> <p>1 documents and matters as needed.</p> <p>2 Q Are you doing any drafting of the report</p> <p>3 during these working sessions?</p> <p>4 A We can be. The documents are -- sorry to cut</p> <p>5 you off.</p> <p>6 Q No, no.</p> <p>7 A The -- the documents are a living document.</p> <p>8 It evolves over time until it becomes the final version.</p> <p>9 Q And when did you start drafting your report</p> <p>10 that you submitted on March 14th?</p> <p>11 MR. MAUCH: Objection.</p> <p>12 Scott, I think you've ventured into</p> <p>13 non-discoverable material.</p> <p>14 MR. EIDSON: I don't think when he</p> <p>15 started is off limits. You're going to have to instruct</p> <p>16 him not to answer, and I'll take that up with the court.</p> <p>17 I'm going to ask you to answer, and if</p> <p>18 your attorney instructs you not to answer, that's on</p> <p>19 him.</p> <p>20 MR. MAUCH: I will allow the answer to</p> <p>21 the question of when, but we're not going to get into</p> <p>22 any details about the drafting of the report.</p> <p>23 You can go ahead and answer, Andy.</p> <p>24 THE WITNESS: I -- I believe the first</p> <p>25 time we started developing material for this current</p>
<p style="text-align: right;">Page 27</p> <p>1 Q Okay. And you review it to make sure that</p> <p>2 it's an accurate reflection of your work that you've</p> <p>3 provided in the case; correct?</p> <p>4 A Yes.</p> <p>5 Q Let's look at this invoice, which looks like</p> <p>6 it has work for two people. There's WAF, which is you;</p> <p>7 is that right?</p> <p>8 A Yes.</p> <p>9 Q And then there is GRT. Who is GRT?</p> <p>10 A That's Glenn, G-L-E-N-N, Taylor, T-A-Y-L-O-R.</p> <p>11 Q And who is Mr. Taylor?</p> <p>12 A He is a specialty consultant that works with</p> <p>13 me in the committee that I've created, as described</p> <p>14 previously, to help work through the various technical</p> <p>15 issues in this matter. His background is that of a</p> <p>16 California licensed general contractor, B Class. He's</p> <p>17 also a chartered quantity surveyor from England, and he</p> <p>18 is very knowledgeable about all things construction.</p> <p>19 Q Okay. Looking at your invoices, there's an</p> <p>20 entry that says, "Webinar working session." What is</p> <p>21 that?</p> <p>22 A I am based in the North Napa Valley these</p> <p>23 days, and Glenn is still based down here in the Bay</p> <p>24 Area. So a lot of our work is performed over a -- a</p> <p>25 Zoom conference or webinar where we can discuss</p>	<p style="text-align: right;">Page 29</p> <p>1 report was on the January 3rd. I'm sorry. The -- I'm</p> <p>2 sorry. The -- the telephone call from the counsel came</p> <p>3 on December 17th. It's the first line item on this</p> <p>4 invoice we're discussing in -- in Exhibit 2.</p> <p>5 And then it looks like we -- we -- Glenn</p> <p>6 Taylor and I started actually pushing pieces around on</p> <p>7 January 3rd.</p> <p>8 BY MR. EIDSON:</p> <p>9 Q So your testimony is that January 3rd is when</p> <p>10 you started drafting the report?</p> <p>11 A Yes.</p> <p>12 Q Did you do all of the drafting of your report?</p> <p>13 MR. MAUCH: Objection.</p> <p>14 You're instructed not to answer.</p> <p>15 That's clearly non-discoverable, and you</p> <p>16 know that.</p> <p>17 MR. EIDSON: Are you going to follow your</p> <p>18 attorney's direction?</p> <p>19 THE WITNESS: Yes.</p> <p>20 BY MR. EIDSON:</p> <p>21 Q And it looks like you spent a little under</p> <p>22 eight hours after that initial call with counsel in</p> <p>23 preparing your March 14th, or your February 14th report.</p> <p>24 Is that fair to say?</p> <p>25 MR. MAUCH: Objection. Misstates</p>

<p style="text-align: right;">Page 30</p> <p>1 document.</p> <p>2 THE WITNESS: No, no. This -- this</p> <p>3 invoice runs through the end of January. There would be</p> <p>4 quite a heavy and intense period of work in early</p> <p>5 February, the first half of February, in getting to that</p> <p>6 February 14th date.</p> <p>7 BY MR. EIDSON:</p> <p>8 Q Do you submit invoices on a monthly basis?</p> <p>9 A Yes.</p> <p>10 Q And before we move on, the counsel that you</p> <p>11 spoke with on, looks like, December 17th for your</p> <p>12 telephone call, who was that?</p> <p>13 A Counsel Mauch, from memory.</p> <p>14 Q Mr. Fennell, I've handed you a document that</p> <p>15 we have marked as Fennell Exhibit 3. It's Bates labeled</p> <p>16 Fennell 2271 through 2272. Do you recognize this</p> <p>17 document?</p> <p>18 (Fennell Exhibit 3 was marked for</p> <p>19 identification.)</p> <p>20 A I do.</p> <p>21 Q This is your March 31st invoice for work in</p> <p>22 this matter; correct?</p> <p>23 A It is.</p> <p>24 Q And this invoice looks like it has an</p> <p>25 additional timekeeper, MAM. Who is that?</p>	<p style="text-align: right;">Page 32</p> <p>1 from Dr. Serrette.</p> <p>2 Q Okay. And looking at your time entries, fair</p> <p>3 to say you at least took a look at that report on March</p> <p>4 21st, when it was submitted?</p> <p>5 A I -- I actually don't recall when I first</p> <p>6 looked at the rebuttal report. I see a -- a line item</p> <p>7 from Glenn Taylor working on his own, that he was</p> <p>8 looking at it on the 24th. I don't recall when it hit</p> <p>9 my office, and I don't recall when I first looked at it,</p> <p>10 but it was -- it was around that time period, within a</p> <p>11 -- a day or two.</p> <p>12 And you've identified an issue that I have in</p> <p>13 my office, that we don't always capture every bit of our</p> <p>14 professional time like we should.</p> <p>15 Q You can set those aside for now, Mr. Fennell.</p> <p>16 MR. EIDSON: Going to mark three</p> <p>17 exhibits.</p> <p>18 THE OFFICER: Okay.</p> <p>19 BY MR. EIDSON:</p> <p>20 Q Mr. Fennell, I've handed you three documents,</p> <p>21 we've marked them as Fennell 4, 5, and Fennell Exhibit</p> <p>22 6. Fennell 4 is a copy of your initial report, dated</p> <p>23 February 14, 2025. Fennell Exhibit 5 is a copy of your</p> <p>24 March 7, 2025, report. And then Fennell 6 is a redline</p> <p>25 that we received, comparing your March 4th and March 5</p>
<p style="text-align: right;">Page 31</p> <p>1 A That's my researcher. Max Mclean, M-A-X</p> <p>2 M-C-L-E-A-N.</p> <p>3 Q And and do you mean just internet researcher</p> <p>4 or --</p> <p>5 A Oh, it's, any -- any odd job I assigned him,</p> <p>6 if it's particular to this matter. I mean, he has wider</p> <p>7 duties within my company.</p> <p>8 Q This invoice and the last one as well say,</p> <p>9 "19071 Simpson/MiTek PGR." Do you see that?</p> <p>10 A Yes.</p> <p>11 Q Is the time that you've spent on this invoice</p> <p>12 for both PGR-related efforts and litigation- related</p> <p>13 efforts?</p> <p>14 A Yes. That one project number captures any of</p> <p>15 the -- the patent related cases. If I'm looking at just</p> <p>16 this invoice here, I believe it's all related to this</p> <p>17 510 federal action.</p> <p>18 Q And you understand that MiTek submitted its</p> <p>19 rebuttal report to you on March 21st; correct?</p> <p>20 MR. MAUCH: Objection. Vague.</p> <p>21 BY MR. EIDSON:</p> <p>22 Q You've got it. You can look at the date in</p> <p>23 one of your binders right in front of you. It says</p> <p>24 March 21st; right?</p> <p>25 A Yes, that's the date of the rebuttal report</p>	<p style="text-align: right;">Page 33</p> <p>1 versions of your report.</p> <p>2 Do you recognize and agree with my</p> <p>3 characterization characterizations of Fennell Exhibits</p> <p>4 4, 5, and 6?</p> <p>5 (Fennell Exhibit 4, Exhibit 5, and</p> <p>6 Exhibit 6 were marked for</p> <p>7 identification.)</p> <p>8 A I do.</p> <p>9 Q Okay. On Exhibit 6, did you prepare that</p> <p>10 redline?</p> <p>11 A Yes.</p> <p>12 Q Okay.</p> <p>13 MR. MAUCH: To be clear, Scott, are you</p> <p>14 asking the report, or the running of the redline?</p> <p>15 MR. EIDSON: Just the running of the red</p> <p>16 line.</p> <p>17 BY MR. EIDSON:</p> <p>18 Q Did you have somebody else run the redline? I</p> <p>19 understand you prepared the report, Mr. Fennell. Did</p> <p>20 someone else run the redline?</p> <p>21 A No, it was -- it was me, in front of me.</p> <p>22 Q Okay. Let's look at your report, and you can</p> <p>23 look at Fennell Exhibit 5 if you want. And this is your</p> <p>24 report without exhibits, of course. In Paragraph 4 on</p> <p>25 pages 6 and 7, you identify materials considered, 55</p>

<p style="text-align: right;">Page 34</p> <p>1 items.</p> <p>2 MR. MAUCH: I'm sorry. You said</p> <p>3 Paragraph 4?</p> <p>4 MR. EIDSON: It's Heading 4. Sorry.</p> <p>5 MR. MAUCH: Okay.</p> <p>6 MR. EIDSON: I meant Section 4, if I said</p> <p>7 paragraph.</p> <p>8 BY MR. EIDSON:</p> <p>9 Q Paragraph 22, it starts on page 6 of your</p> <p>10 March 7th report.</p> <p>11 A Yes.</p> <p>12 Q Okay. Did you read each of the items that you</p> <p>13 have in this section of materials considered?</p> <p>14 A Yes.</p> <p>15 Q The invalidity contentions that you reviewed,</p> <p>16 were those something that you prepared initially in this</p> <p>17 case or something that you received from counsel that</p> <p>18 they prepared?</p> <p>19 MR. MAUCH: Objection. Vague.</p> <p>20 BY MR. EIDSON:</p> <p>21 Q If you look at Items 12 through 17 --</p> <p>22 MR. MAUCH: And I'll instruct you not to</p> <p>23 answer regarding the preparation of draft reports. It's</p> <p>24 not discoverable.</p> <p>25 //</p>	<p style="text-align: right;">Page 36</p> <p>1 MR. MAUCH: Objection. Vague.</p> <p>2 THE WITNESS: Possibly. I mean, if we're</p> <p>3 talking about catalog information, stuff that's publicly</p> <p>4 available to design professionals and specifiers, yes.</p> <p>5 But internal testing documentation, no.</p> <p>6 BY MR. EIDSON:</p> <p>7 Q And the latter was my question. Mr. Fennell,</p> <p>8 I've handed you what we have marked as Fennell Exhibit</p> <p>9 7. I'll represent this as a copy of your resume that</p> <p>10 was attached to your expert report. You've seen this</p> <p>11 exhibit before; correct?</p> <p>12 (Fennell Exhibit 7 was marked for</p> <p>13 identification.)</p> <p>14 A Yes.</p> <p>15 Q Everything on your resume current?</p> <p>16 A Yes.</p> <p>17 Q No new education, certifications to add?</p> <p>18 A No.</p> <p>19 Q Speaking of the firewall hangers that are at</p> <p>20 issue in these proceedings, whether it's MiTek's or</p> <p>21 Simpson's, have you ever installed one of them?</p> <p>22 A No. Not of these, no.</p> <p>23 Q Have you ever physically held one of the MiTek</p> <p>24 firewall hangers?</p> <p>25 A I have not.</p>
<p style="text-align: right;">Page 35</p> <p>1 BY MR. EIDSON:</p> <p>2 Q I guess there are claim charts referenced in</p> <p>3 there. Do you see those?</p> <p>4 A Yes. The Exhibits 12 through 17.</p> <p>5 Q And you considered those claim charts; right?</p> <p>6 In rendering your opinions?</p> <p>7 A Yes.</p> <p>8 Q Okay. Did you prepare those claim charts?</p> <p>9 MR. MAUCH: Objection. Non-discoverable</p> <p>10 material pursuant to Rule 26.</p> <p>11 THE OFFICER: I'm sorry. What did you --</p> <p>12 what did you say after "non-discoverable material"?</p> <p>13 MR. MAUCH: Pursuant to Rule 26(b)(4)(b).</p> <p>14 You're instructed not to answer,</p> <p>15 Mr. Fennell.</p> <p>16 THE OFFICER: Actually, could you move</p> <p>17 your microphone up a little bit, because you're --</p> <p>18 MR. MAUCH: Oh, sorry. Sorry. I just</p> <p>19 won't have my arm over there.</p> <p>20 THE OFFICER: Okay. Thank you.</p> <p>21 BY MR. EIDSON:</p> <p>22 Q Earlier, we were talking about Simpson and</p> <p>23 MiTek depositions and documents, and if I asked this I</p> <p>24 already, I apologize. Did you consider any Simpson</p> <p>25 design or testing documents in rendering your opinions?</p>	<p style="text-align: right;">Page 37</p> <p>1 Q Have you ever physically held any of the</p> <p>2 accused Simpson firewall hangers?</p> <p>3 A I have not.</p> <p>4 Q Have you ever installed sheet rock at a job</p> <p>5 site after a firewall hanger has been hung up?</p> <p>6 A Not personally.</p> <p>7 Q Have you done it in a lab or any other</p> <p>8 setting?</p> <p>9 A No, no. I -- I've always been an observer to</p> <p>10 work in progress.</p> <p>11 Q As it pertains to firewall certification and</p> <p>12 testing, are you familiar with that process?</p> <p>13 A I -- I am.</p> <p>14 Q Have you ever conducted or been responsible</p> <p>15 for -- well, let me back up. Have you ever been</p> <p>16 responsible for conducting a test to ensure that a</p> <p>17 firewall maintains a certain rating when used with a</p> <p>18 structural connector product?</p> <p>19 MR. MAUCH: Objection. Vague.</p> <p>20 THE WITNESS: I have conducted firewall</p> <p>21 testing and been in charge of specifying and observing</p> <p>22 tests. And those tests contained structural connectors,</p> <p>23 just not the species of hangers that we're talking about</p> <p>24 here, the FWH and the Simpson ones.</p> <p>25 //</p>

<p style="text-align: right;">Page 38</p> <p>1 BY MR. EIDSON:</p> <p>2 Q So set aside observing. Have you ever been</p> <p>3 responsible for running a firewall test for a structural</p> <p>4 connector such to give it the stamp of approval of</p> <p>5 whether it passes a two-hour or three-hour rating, et</p> <p>6 cetera?</p> <p>7 MR. MAUCH: Objection. Vague.</p> <p>8 THE WITNESS: If you mean running,</p> <p>9 twiddling the knobs and actually running the furnace,</p> <p>10 no, but I can go broader than that and say I -- I have</p> <p>11 not had experience yet with even commissioning firewall</p> <p>12 testing that involved hangers such as the FWH.</p> <p>13 BY MR. EIDSON:</p> <p>14 Q What firewall test commissioning experience --</p> <p>15 and by "commissioning," you mean just hiring it and</p> <p>16 getting it started? Is that what you mean by</p> <p>17 "commissioning"?</p> <p>18 A Yes.</p> <p>19 Q If you wanted to firewall test a particular</p> <p>20 product, what would you do?</p> <p>21 MR. MAUCH: Objection. Vague. Assumes</p> <p>22 facts not in evidence. Incomplete hypothetical.</p> <p>23 THE WITNESS: Well, in the hypothetical,</p> <p>24 if I had a product or an installation that I was trying</p> <p>25 to document for a building official or some other</p>	<p style="text-align: right;">Page 40</p> <p>1 BY MR. EIDSON:</p> <p>2 Q Were you done with your answer, Mr. Fennell?</p> <p>3 A I think so.</p> <p>4 Q Okay. So I'm drawing a distinct -- I want to</p> <p>5 first draw a distinction between you hiring it out or</p> <p>6 directing that and sending it to a lab on behalf of a</p> <p>7 client versus you actually doing the testing and</p> <p>8 certification yourself. Does that make sense?</p> <p>9 A Yes.</p> <p>10 Q Okay. And so when it comes to you actually</p> <p>11 doing the testing and certification yourself, how many</p> <p>12 times have you done that for a structural connector</p> <p>13 product and a firewall?</p> <p>14 MR. MAUCH: Objection. Vague.</p> <p>15 THE WITNESS: I'm not aware of any</p> <p>16 instances where I did the testing for a firewall-related</p> <p>17 connector other than fasteners.</p> <p>18 BY MR. EIDSON:</p> <p>19 Q And by "fasteners," you mean screws?</p> <p>20 A Screws, nails, adhesives, coatings.</p> <p>21 Q Anything else that you think of that falls</p> <p>22 under the definition of fasteners as you've just given</p> <p>23 it to me?</p> <p>24 A No, I -- I think that's it. I mean, I would</p> <p>25 also point out that what I'm testing is an entire</p>
<p style="text-align: right;">Page 39</p> <p>1 authority having jurisdiction, I would look at the</p> <p>2 intended purpose and the specific application for the --</p> <p>3 for the usage.</p> <p>4 And I would design a test to gather that</p> <p>5 information using relevant standards and test it in a</p> <p>6 setting or agency that would be accepted by those</p> <p>7 reviewing the information, say a building official.</p> <p>8 BY MR. EIDSON:</p> <p>9 Q Have you ever done that before?</p> <p>10 A Yes.</p> <p>11 Q For which products?</p> <p>12 MR. MAUCH: Objection. Vague.</p> <p>13 THE WITNESS: My work obtaining test</p> <p>14 results for the purposes of engineering reports for</p> <p>15 building officials has varied over the years. If we're</p> <p>16 talking about fire, I have determined representative</p> <p>17 as-built construction from existing projects that might</p> <p>18 not have originally met plan compliance or code</p> <p>19 compliance to evaluate actual endurance of the</p> <p>20 represented as-built construction.</p> <p>21 THE OFFICER: And I'm sorry. You said,</p> <p>22 "code compliance," but there was another kind of</p> <p>23 compliance before that that I didn't hear the word.</p> <p>24 THE WITNESS: Construction compliance.</p> <p>25 THE OFFICER: Thank you.</p>	<p style="text-align: right;">Page 41</p> <p>1 assembly. It's -- it takes many components to create an</p> <p>2 assembly that then gets a fire rating such as those</p> <p>3 listed in building codes.</p> <p>4 Q And now, when it comes to coordinating testing</p> <p>5 with a third party, what type of structural connector</p> <p>6 products have you coordinated testing on behalf of</p> <p>7 clients with a third-party lab?</p> <p>8 MR. MAUCH: Objection. Vague</p> <p>9 THE WITNESS: Lots over the years, looked</p> <p>10 at all sorts of products used in hospitals for</p> <p>11 structural and non-structural bracing. I headed a</p> <p>12 research project on anchor bolts.</p> <p>13 BY MR. EIDSON:</p> <p>14 Q Related to firewall maintenance of an anchor</p> <p>15 bolt?</p> <p>16 A Not of the fire endurance, but anchor bolts</p> <p>17 are in many firewall assemblies.</p> <p>18 Q Yeah. And let me clarify my question a little</p> <p>19 bit, and I didn't mean to cut you off, Mr. Fennell. I'm</p> <p>20 interested in testing you've coordinated on behalf of</p> <p>21 clients with third-party labs that relates specifically</p> <p>22 to maintenance of a firewall assembly using a connector</p> <p>23 product.</p> <p>24 MR. MAUCH: Objection. Vague.</p> <p>25 MR. EIDSON: Do you not understand what I</p>

<p style="text-align: right;">Page 42</p> <p>1 mean by that?</p> <p>2 THE WITNESS: Oh, no. I was just racking</p> <p>3 my memory for how many times I've been standing there</p> <p>4 breathing in the smoke. I believe just once that I've</p> <p>5 actually -- no, just once that we got it all the way to</p> <p>6 the lab and conducting the tests. There's been a number</p> <p>7 of other times where we got to the proposal stage, but</p> <p>8 for one reason or another, testing did not go forward.</p> <p>9 BY MR. EIDSON:</p> <p>10 Q And what was that product?</p> <p>11 A The products I were testing was --</p> <p>12 Q The one you just mentioned that went to the</p> <p>13 lab, that's one?</p> <p>14 A Yeah, there was -- there was firewall-rated</p> <p>15 party walls for a project in Southern California.</p> <p>16 Q Party walls?</p> <p>17 A Firewalls.</p> <p>18 Q And what was the connector product that was</p> <p>19 involved in that?</p> <p>20 A Well, there were all sorts of penetrations</p> <p>21 through the wall, but there were clips and nail plates</p> <p>22 and fasteners.</p> <p>23 Q And is it fair to say that you don't have any</p> <p>24 experience with firewall testing as it pertains to joist</p> <p>25 hangers?</p>	<p style="text-align: right;">Page 44</p> <p>1 A Well, there'll be a -- an accredited</p> <p>2 laboratory to run those tests and probably a box of</p> <p>3 matches somewhere along the line.</p> <p>4 Q Fair enough. Anything else?</p> <p>5 A Time for a Red Bull.</p> <p>6 MR. EIDSON: Let's take a break.</p> <p>7 THE OFFICER: Okay. We are now off the</p> <p>8 record at 10:08 a.m.</p> <p>9 (Off the record.)</p> <p>10 THE OFFICER: We are now back on the</p> <p>11 record at 10:22 a.m.</p> <p>12 BY MR. EIDSON:</p> <p>13 Q Mr. Fennell, which labs are you familiar with</p> <p>14 that do firewall testing on structural connector</p> <p>15 products for certification purposes?</p> <p>16 MR. MAUCH: Objection. Vague. Misstates</p> <p>17 prior testimony.</p> <p>18 THE WITNESS: I have worked with Intertek</p> <p>19 and their -- back in history, the -- the Warnock Hersey</p> <p>20 -- Warnock Hersey firm, but I believe they were</p> <p>21 purchased by Intertek. I've also seen some wildfire</p> <p>22 structure testing at Forest Products Lab out at the</p> <p>23 Richmond Field Station here in the Bay Area.</p> <p>24 And I've also reviewed as a -- an</p> <p>25 engineer or a specifier tests from the Insurance</p>
<p style="text-align: right;">Page 43</p> <p>1 MR. MAUCH: Objection. Vague.</p> <p>2 THE WITNESS: No, not firsthand as either</p> <p>3 a commissioner or an observer. I -- I haven't seen any</p> <p>4 firewall hanger testing other than, you know, the</p> <p>5 research way, looking at videos on the internet.</p> <p>6 BY MR. EIDSON:</p> <p>7 Q Do you know the procedure or protocol that is</p> <p>8 utilized by a certifying lab for testing a joist hanger</p> <p>9 that is being marketed as having a two-hour firewall</p> <p>10 rating?</p> <p>11 MR. MAUCH: Objection. Vague.</p> <p>12 THE WITNESS: Generally, yes.</p> <p>13 BY MR. EIDSON:</p> <p>14 Q And what is your general understanding?</p> <p>15 MR. MAUCH: Same objection.</p> <p>16 THE WITNESS: Oh, it's one of the ASTM</p> <p>17 consensus standards. I think it's -- 814 is for</p> <p>18 penetrations through rated assemblies, and it's exposed</p> <p>19 to a -- a fire curve prescribed by another ASTM. I</p> <p>20 believe it's E1119, generally.</p> <p>21 BY MR. EIDSON:</p> <p>22 Q Anything else? You recited some specific</p> <p>23 provisions of standards, and I thank you for that. Do</p> <p>24 you have any other details about your general</p> <p>25 understanding of how that testing is done?</p>	<p style="text-align: right;">Page 45</p> <p>1 Institute back in one of the Carolinas.</p> <p>2 BY MR. EIDSON:</p> <p>3 Q The Insurance Institute is a lab?</p> <p>4 A Yes.</p> <p>5 Q Okay.</p> <p>6 A That's not -- not their full acronym. It's</p> <p>7 the Insurance Institute of Building Science or some</p> <p>8 combination of that, but Intertek would be my go-to one</p> <p>9 if I was to fire up, unintended, a -- a new program.</p> <p>10 Q I'll take it. Joe and I like good dad jokes.</p> <p>11 Are you aware of professional certifications that you</p> <p>12 can get pertaining to firewall and fire safety?</p> <p>13 MR. MAUCH: Objection. Vague.</p> <p>14 THE WITNESS: Not specifically.</p> <p>15 BY MR. EIDSON:</p> <p>16 Q It's fair to say you don't have any of those</p> <p>17 certifications?</p> <p>18 A Oh, I -- you know, I don't know about the ones</p> <p>19 I don't know about, but I do have -- I was a certified</p> <p>20 building inspector for 30-odd years, which involved a</p> <p>21 heavy dose of fire-resistive construction knowledge. My</p> <p>22 practice as an engineer takes me deep into</p> <p>23 fire-resistive assemblies, as far as a certification or</p> <p>24 a licensure goes.</p> <p>25 I have other experience, but that's it for as</p>

<p style="text-align: right;">Page 46</p> <p>1 far as licensure, and in addition to being a -- a 2 licensed building general contractor here in the State 3 of California. 4 Q Are you familiar with the IFC? 5 A Yes. 6 Q International Firestop Council? 7 A Yes. 8 Q Do you know what the NFPA is? 9 A Yes. 10 Q Okay. You don't have any certifications from 11 the IFC or the NFPA; correct? 12 A I don't. 13 Q All right. OSHA offers fire safety 14 certifications; correct? 15 A Yes. 16 Q All right. And you don't have any of those 17 certifications; correct? 18 A No. 19 Q Are you familiar with the Fire Protection 20 Research Foundation? 21 A Not from memory. 22 Q Are you familiar with the Society of Fire 23 Protection Engineers? 24 A I am. 25 Q Are you a member?</p>	<p style="text-align: right;">Page 48</p> <p>1 Q Did you consult with any of these fire 2 protection specialists in rendering your opinions in 3 this case? 4 A No. 5 Q You agree with me that the definition of one 6 of ordinary skill in the art that the parties have 7 agreed to in this case doesn't necessarily require any 8 specialized knowledge about firewall construction or 9 testing? 10 MR. MAUCH: Objection. Lacks foundation. 11 Assumes facts not in evidence. 12 THE WITNESS: I believe it was generally 13 accepted by the -- everybody, including the patent 14 board, about what the definition of a POSITA or a POSA 15 is, and that's scribbled down in my report. 16 BY MR. EIDSON: 17 Q Okay. Do you recall what that definition was? 18 A A science-based degree and four years of 19 experience. 20 Q And it doesn't necessarily require any 21 specialized experience or certifications as it pertains 22 to firewall construction or testing; correct? 23 A I don't recall seeing that, but one of the 24 things about particularly engineering licensure here in 25 the U.S. is that you operate within your area of</p>
<p style="text-align: right;">Page 47</p> <p>1 A I am not. 2 Q And do you have any specialized training 3 outside of, you know, being a general building 4 contractor, specifically related to fire protection 5 engineering? 6 A I have 30 years of experience evaluating 7 as-built structures that have a wide array of fire 8 protection systems, passive or active. 9 Q Anything else outside of your experience that 10 you just mentioned? 11 A I -- as the head of my engineering company, 12 also co-consult with subject matter specialists as 13 necessary if it's outside, too much for us to handle on 14 any given project. So if necessary, on fire projects 15 we'll consult with additional experts, coordinate their 16 findings or recommendations into our work. 17 Q Who have you consulted with in the past in 18 that regard? 19 A National Engineering Firm GHD. I have 20 co-consulted with Wiss, Janie, Elsner, WJE; Simpson 21 Gumphertz & Heger, SGH; other materials specialists that 22 might be for corrosion or for materials-compatibility 23 within a fire assembly. And then I've also -- actually, 24 there's a NDA in place for that, a non-disclosure 25 agreement, so I can't talk about that one.</p>	<p style="text-align: right;">Page 49</p> <p>1 competency, and so both for California and Nevada and 2 Hawaii, where I'm registered, yeah, you practice within 3 your lane. 4 So the fire-resistive elements of building 5 structures is well within my area of competency. 6 Q How so? 7 A He says confidently. Well, as I was 8 describing before, I run an engineering company. My 9 clients historically have been multi-residential home 10 builders, primarily here on the West coast. And I have 11 literally investigated the as-built construction at 12 firewalls of various endurances as well as the 13 assemblies, either side of it, hundreds of times. 14 So I've crawled in attics and crawl spaces and 15 in people's living rooms, cutting holes in 16 fire-resistive assemblies to compare those with what's 17 on the plans and the building codes, looking for all of 18 the associated requirements such as fire-stopping, 19 draft-stopping, detailing at penetrations, acoustic 20 requirements, structural requirements, to say I -- I 21 feel very confident evaluating fire-resistive 22 construction and what was required. 23 Q By a code? 24 A By a code or a listed assembly, an evaluation 25 report.</p>

<p style="text-align: right;">Page 50</p> <p>1 Q You mentioned cutting holes in fire-resistive 2 assembly. For a firewall in multi-family residential 3 construction of the kind that is being constructed with 4 the firewall hangers in this case, how big of a hole can 5 you cut and maintain a two-hour firewall assembly? 6 MR. MAUCH: Objection. Incomplete 7 hypothetical. 8 THE WITNESS: It depends, is the short 9 answer. There's a very, very long answer, but as long 10 as the hole or the penetration can be addressed in a way 11 that satisfies the building official, jurisdiction 12 having control, the designer of record, and more 13 importantly, the fire, if it occurs, into not finding 14 that as a -- a weak link, then the hole is not defined. 15 The bigger the hole, the more creative 16 the designer needs to be at selecting the correct 17 fire-stopping or equivalent fire-resistive materials. 18 BY MR. EIDSON: 19 Q And the only way to kind of figure that out 20 would be, when it comes to figuring out the size of the 21 hole and whether it would satisfy the two-hour fire 22 testing would be to do the actual testing; right? 23 A That's the most proof-positive way. If there 24 is a prescriptive way that appears to meet the need, or 25 the building official accepts it as presented, as</p>	<p style="text-align: right;">Page 52</p> <p>1 the invention claim? 2 A The top line description is it's a hanger for 3 a fire separation wall. 4 Q And what is the alleged unique features of 5 this hanger? 6 MR. MAUCH: Objection. Vague. Calls for 7 a legal conclusion. 8 THE WITNESS: I would just read the 9 abstract into the record. 10 BY MR. EIDSON: 11 Q You don't have an understanding outside of 12 reading the abstract into the record? 13 A My understanding right now is that it's -- 14 it's what's contained within Claim 40 that is unique to 15 this invention. 16 Q And are you able to articulate that in your 17 own words? 18 A Oh, I can. I mean, it's a hanger that has a 19 -- a channel-shape portion, an extension portion, and a 20 -- a top plate connector that there's spacing for 21 drywall. It permits drywall, and it's sized large 22 enough to permit the drywall to be received between the 23 channel-shaped portion and the back flange plane. 24 Q And what is your understanding of what this 25 invention is used for on a job site?</p>
<p style="text-align: right;">Page 51</p> <p>1 specified, that's also acceptable. Building code's very 2 generic in its nature and does accept alternate means of 3 compliance for establishing code compliance. 4 Q All right. Let's switch gears for a minute 5 and talk about a couple items in your report. And I 6 want to start just generally with, we talked about Claim 7 40 of the 510 Patent, and do you want me to give you a 8 copy of that? 9 A Please. 10 Q You got it. 11 MR. MAUCH: Thank you. 12 BY MR. EIDSON: 13 Q Mr. Fennell, I've handed you what we have 14 marked as Fennell Exhibit 8. Its a copy of the 510 15 Patent, and if you look toward the back, you'll see 16 Claim 40 on the last page. 17 (Fennell Exhibit 8 was marked for 18 identification.) 19 A Yes. 20 Q Fair to say you've seen this before; correct? 21 A I have. 22 Q Okay. What is the invention claimed by the 23 510 Patent? And, Mr. Fennell, I'll let you know, I'm 24 not looking for you to read. Well, it is a hanger. 25 Just in your own words, what is your understanding of</p>	<p style="text-align: right;">Page 53</p> <p>1 MR. MAUCH: Objection. Vague. 2 THE WITNESS: It's a hanger to be used on 3 a fire separation wall or, you know, walls of other 4 configurations. 5 BY MR. EIDSON: 6 Q What are the benefits of utilizing a hanger 7 like this versus -- well, let me back up. Are you 8 familiar with Simpson's DU hanger? 9 A I am. 10 Q Okay. Just so we're on the same page, what is 11 that? 12 A I'd refer to that as the -- the Bundy hanger. 13 Q And how is that attached? 14 A It too is attached to a top plate and provides 15 for a channel to receive a structural component with a 16 gap sufficient for drywall. There are various 17 embodiments of the Bundy hanger. Most involve 18 attachment to the top plate. I believe there's one or 19 two embodiments that are face-mounted to the wall. 20 Q And you understand the DU hanger to be 21 installed after the sheet rock is home; correct? 22 A Well, not necessarily. I mean, the way Bundy 23 is configured, drywall could come before or after the 24 hanger. 25 Q Have you read the Simpson catalog or other</p>

<p style="text-align: right;">Page 54</p> <p>1 materials about how to install the DU hanger?</p> <p>2 A Oh, I have.</p> <p>3 Q Have you seen anything in there that says you</p> <p>4 install the hanger before the drywall?</p> <p>5 A Well, for the embodiment -- well, do you have</p> <p>6 a copy of the DU literature that I can refresh my</p> <p>7 memory?</p> <p>8 Q Yeah. Have you looked at the catalog?</p> <p>9 A Yeah. Multiple times over the years, but I --</p> <p>10 I'm just not recalling specific language right now.</p> <p>11 Q Okay. And we'll come back to this. So as you</p> <p>12 sit here right now, you can't really recall how Simpson</p> <p>13 instructs the end user to install the DU hanger, whether</p> <p>14 it's before or after the drywall; is that fair to say?</p> <p>15 A Well, I can break it down for you. The -- the</p> <p>16 embodiments that don't have the top flange hanger and</p> <p>17 that are face-mounted, those will be installed after</p> <p>18 whatever sheathing is on the face of wall, 'cause those</p> <p>19 are face-mounted, that they will, by necessity, come</p> <p>20 after the fact.</p> <p>21 Q And when did Simpson first introduce that</p> <p>22 face-mount version of the hanger?</p> <p>23 A Oh, I believe that was in 2013 timeframe. I</p> <p>24 would, again, have to look at the literature to see the</p> <p>25 -- the actual dates, the reference dates.</p>	<p style="text-align: right;">Page 56</p> <p>1 report here that's based on Claim 40 and where I find</p> <p>2 prior art.</p> <p>3 BY MR. EIDSON:</p> <p>4 Q And I'm talking about a product. We're</p> <p>5 talking about Simpson's products now; right? And I</p> <p>6 understand your position that you cobbled together or</p> <p>7 put together three pieces of prior art. Obvious, I</p> <p>8 understand all that, and we're going to get to all that.</p> <p>9 I'm asking about products that you were aware</p> <p>10 of in the marketplace. Before the MiTek firewall</p> <p>11 hanger, were you aware of any firewall hanger product</p> <p>12 that had an extension portion that would extend through</p> <p>13 the firewall barrier?</p> <p>14 MR. MAUCH: Objection. Vague.</p> <p>15 THE WITNESS: Well, as in we've been</p> <p>16 evaluating this hanger and some of the other patent</p> <p>17 numbers for some period of time now. And so I had prior</p> <p>18 reports written on the Gilb 155 hanger, for example,</p> <p>19 where I saw no problem integrating firewall around the</p> <p>20 hanger on a rated wall assembly.</p> <p>21 So both things might be true. You -- you</p> <p>22 might be correct that this 510 is the first time where</p> <p>23 it says, "Hanger for fire separation wall." But it's</p> <p>24 also equally true that firewalls were being constructed</p> <p>25 with hangers before this invention that were acceptable</p>
<p style="text-align: right;">Page 55</p> <p>1 Q Looking, go back to Claim 40 now, if you will.</p> <p>2 One of the elements of Claim 40 that was allegedly novel</p> <p>3 or unique was the extension portion that extends from</p> <p>4 the channel-shaped portion to the back flange that</p> <p>5 creates the space for the drywall that extends through</p> <p>6 the drywall; right?</p> <p>7 MR. MAUCH: Objection. Lacks foundation.</p> <p>8 Assumes facts not in evidence.</p> <p>9 THE WITNESS: I -- I -- by the extension</p> <p>10 portion, I don't know what you're talking about there.</p> <p>11 MR. EIDSON: Yes.</p> <p>12 THE WITNESS: And I have throughout my</p> <p>13 report, identified prior art where I find the extension</p> <p>14 portion.</p> <p>15 BY MR. EIDSON:</p> <p>16 Q Not quite my question. I understand that you</p> <p>17 have found things that you say can go through drywall.</p> <p>18 We'll get to all those. I'm talking about in a product</p> <p>19 that is designed for firewall applications, this MiTek</p> <p>20 product was the first one that had an extension portion</p> <p>21 that extended through the drywall that you're familiar</p> <p>22 with; correct?</p> <p>23 MR. MAUCH: Objection. Vague.</p> <p>24 THE WITNESS: Yeah. I am not sure how to</p> <p>25 help you there. I mean, just say I've got a -- a whole</p>	<p style="text-align: right;">Page 57</p> <p>1 and practical.</p> <p>2 BY MR. EIDSON:</p> <p>3 Q And that doesn't quite answer my question,</p> <p>4 Mr. Fennell. I appreciate that. As you sit here today,</p> <p>5 are you aware of any firewall joist hanger product where</p> <p>6 an extension portion extended through the firewall?</p> <p>7 MR. MAUCH: Objection. Vague.</p> <p>8 THE WITNESS: Well, I refer you to my</p> <p>9 previous answer, the binder full of prior art over here.</p> <p>10 But the -- as far as the title goes, as far as, "Hanger</p> <p>11 for separation wall, fire separation wall, the 510</p> <p>12 might've been the first time that that existed.</p> <p>13 BY MR. EIDSON:</p> <p>14 Q Do you agree with me that one of the benefits</p> <p>15 of the 510 Patent is the sequencing of installation of a</p> <p>16 joist hanger versus drywall?</p> <p>17 MR. MAUCH: Objection. Vague.</p> <p>18 THE WITNESS: Two parts to that, in my</p> <p>19 mind. One is looking through the lens of Claim 40, I</p> <p>20 don't see a limitation regarding sequence or the</p> <p>21 benefits of sequence in Claim 40, one part. The second</p> <p>22 part is that as the 510 document in its entirety is</p> <p>23 written here, I recognize that it is possible to install</p> <p>24 a 510 hanger before or after drywall is sequenced on the</p> <p>25 wall.</p>

<p style="text-align: right;">Page 58</p> <p>1 BY MR. EIDSON:</p> <p>2 Q And we're going to talk about sequencing a</p> <p>3 little bit today. And rather than me say, "install the</p> <p>4 joist hanger before the drywall and do the drywall after</p> <p>5 can I just say, "sequencing," and you and I be on the</p> <p>6 same page? Does that sound fair?</p> <p>7 A Sure.</p> <p>8 Q Okay. You agree with me that the apparatus</p> <p>9 that is claimed in Claim 40 naturally allows for the</p> <p>10 preferred sequencing; correct?</p> <p>11 MR. MAUCH: Objection. Vague.</p> <p>12 Ambiguous.</p> <p>13 THE WITNESS: Yeah. I'm not sure what</p> <p>14 you mean by who's preferring the sequence in this case.</p> <p>15 BY MR. EIDSON:</p> <p>16 Q Well, let me ask you. As you sit here today,</p> <p>17 do you understand that the building industry has --</p> <p>18 well, I guess what is your understanding of what</p> <p>19 builders in the industry want from a firewall hanger as</p> <p>20 it allows for sequencing of installation between drywall</p> <p>21 and the hanger?</p> <p>22 A Well, they're going to have a couple of</p> <p>23 preferences. Comply with the plans first so that they</p> <p>24 pass inspections by the building department, any other</p> <p>25 quality-control firms. And two, they're going to want</p>	<p style="text-align: right;">Page 60</p> <p>1 BY MR. EIDSON:</p> <p>2 Q Which is more expensive; right?</p> <p>3 A Yeah, generally. Yes.</p> <p>4 Q So, I mean, you agree with me that the general</p> <p>5 industry preference nowadays is to frame everything up,</p> <p>6 install the joist hanger first, and then come back and</p> <p>7 do the drywall second or third after utilities or</p> <p>8 whatever it might be; right?</p> <p>9 A That's one way to do it. And it may be, in</p> <p>10 fact, the most common way currently, but it's not</p> <p>11 necessarily the only way. Builders are forced to deal</p> <p>12 with what architects and, you know, folks want in the --</p> <p>13 the layout of their building, dropped ceilings, chasers,</p> <p>14 that's -- that's primarily it.</p> <p>15 Drop ceilings and chasers in -- in kitchens</p> <p>16 and bathrooms and whatnot sometimes require</p> <p>17 out-of-sequence or a modified sequence to occur. And at</p> <p>18 that point, you have to also deal with fire-resistive</p> <p>19 garbage chutes and stairwells, have to accommodate</p> <p>20 interruptions and out-of-sequence work for drywall and</p> <p>21 fire-resistivity.</p> <p>22 But if it was a -- just a -- a series of plain</p> <p>23 walls, yeah, sure. You would frame them, hang</p> <p>24 repetitive framing that supports the next level above,</p> <p>25 and then roll through with the drywall crew.</p>
<p style="text-align: right;">Page 59</p> <p>1 to be efficient on site and make money.</p> <p>2 Q And so with those considerations, the plans</p> <p>3 are what they are. It's going to be specified how it's</p> <p>4 specified. What is your understanding of what builders</p> <p>5 prefer in an installation sequence?</p> <p>6 MR. MAUCH: Objection. Incomplete</p> <p>7 hypothetical.</p> <p>8 THE WITNESS: I -- I think without -- I</p> <p>9 think most builders want to get the sequencing of</p> <p>10 construction as efficient as possible. And so when it</p> <p>11 comes to fire-resistive wall assemblies, they would like</p> <p>12 their framing crew to pass through, then get utilities</p> <p>13 roughed in, walls insulated, and get any fire-stopping,</p> <p>14 draft-stopping, acoustic assemblies installed.</p> <p>15 The rest of the structural load path</p> <p>16 installed, and then put on the sheet rock with -- with a</p> <p>17 separate trade, usually the -- the sheet rocker there.</p> <p>18 You've got to have a wall there to get the sheet rock.</p> <p>19 I mean, you can't attach sheet rock to fresh air.</p> <p>20 As far as how much framing is constructed</p> <p>21 before the drywall has come through, that's builder's</p> <p>22 choice. But the -- ideally they'd like to dry the</p> <p>23 building in before they start putting sheet rock in,</p> <p>24 unless they're using a -- you know, a more moisture</p> <p>25 resistant drywall product.</p>	<p style="text-align: right;">Page 61</p> <p>1 Q And that would be what builders would</p> <p>2 generally prefer; right? The method of installation?</p> <p>3 A In a simplistic way, yes. It just doesn't</p> <p>4 recognize, though, that there are going to be</p> <p>5 penetrations in every wall as part of a -- a modern</p> <p>6 multi-residential structure. Outlets, ducts, what</p> <p>7 happens in corridors, fire sprinkler systems, all of the</p> <p>8 mechanical, electrical, plumbing subsystems that go into</p> <p>9 a -- a structure.</p> <p>10 Q Have you seen any sort of data or evidence in</p> <p>11 this case or in your work from Simpson, MiTek, or</p> <p>12 anywhere else where customers have indicated a</p> <p>13 preference for this installation sequence where the</p> <p>14 joist goes up first and the drywall goes second?</p> <p>15 A I -- I've seen the anecdotal stuff at the back</p> <p>16 of Dr. Serrette's rebuttal report, but I -- I'm not</p> <p>17 relying on any of that for my report.</p> <p>18 Q And then looking back at Claim 40, you agree</p> <p>19 with me that the apparatus, the hanger claimed here,</p> <p>20 allows for the preferred sequencing of installation;</p> <p>21 correct?</p> <p>22 A No. I don't see anything in here regarding</p> <p>23 sequence.</p> <p>24 Q You're looking at the claim language. I'm</p> <p>25 asking you about the structure, Mr. Fennell, the</p>

Page 62	Page 64
<p>1 structure that is claimed there. Do you understand the</p> <p>2 structure that's claimed by Claim 40?</p> <p>3 A Generally, yes.</p> <p>4 Q You understand --</p> <p>5 A It's a wall adapted to have drywall, permitted</p> <p>6 to have drywall.</p> <p>7 Q It's a hanger; right? And do you understand</p> <p>8 what it looks like, what's claimed by Claim 40?</p> <p>9 A I do.</p> <p>10 Q Okay. And you understand that that apparatus</p> <p>11 as claimed by Claim 40 allows for the preferred method</p> <p>12 of installation; right?</p> <p>13 A Well it allows for drywall to come before or</p> <p>14 after the hanger installation.</p> <p>15 Q It allows it to come after, though, which is</p> <p>16 the preferred method; right?</p> <p>17 A Are you saying after the drywall installation?</p> <p>18 Q The hanger comes first. The drywall comes</p> <p>19 after.</p> <p>20 A Okay. Yes, it allows for that. I just don't</p> <p>21 see it.</p> <p>22 Q You just don't see the specific language in</p> <p>23 the claims. That's what you're taking issue with;</p> <p>24 right?</p> <p>25 A That's what I was trying to say, yes.</p>	<p>1 considered or relied upon informing your opinions that</p> <p>2 is not listed in your report; right?</p> <p>3 A That's right. I've -- I've written out my</p> <p>4 understanding of legal concepts as taught to me by the</p> <p>5 counsel.</p> <p>6 Q And that was my next question. All of the</p> <p>7 legal standards that you relied on to frame your</p> <p>8 opinions were given to you by counsel; right?</p> <p>9 A In a way that I could understand them as an</p> <p>10 engineer and then write them back in my own words. And</p> <p>11 the other thing I would point out is that as matters</p> <p>12 have progressed and patent board or other triers of</p> <p>13 facts have established what the new claim constructions</p> <p>14 or legal standards are, I've just adopted those going</p> <p>15 forward. I've tried to capture them here in my report.</p> <p>16 Q And you mentioned this before. You're not a</p> <p>17 lawyer; correct?</p> <p>18 A No.</p> <p>19 Q Not an expert in patent law or anything like</p> <p>20 that; right?</p> <p>21 A I'll leave the lawyering to you fellas.</p> <p>22 Q Did you do any independent research to</p> <p>23 determine whether the legal standards you were relying</p> <p>24 on were the correct ones?</p> <p>25 A No, no. I've just applied the standards as</p>
Page 63	Page 65
<p>1 Q Okay. And you agree with me that the feature</p> <p>2 of the product that's claimed here that allows for that</p> <p>3 preferred installation would be the extension portion</p> <p>4 providing that spacing; correct?</p> <p>5 A Sorry. Same answer as before. I mean, I -- I</p> <p>6 just don't see it in Claim 40, but I recognize that it</p> <p>7 is possible to create the sequence where hanger first,</p> <p>8 drywall later.</p> <p>9 Q And the actual structure of the apparatus</p> <p>10 claim allows for that; right?</p> <p>11 A Yeah, I -- I think we're saying the same</p> <p>12 thing, but it's --</p> <p>13 Q Let's jump into some specifics in your report,</p> <p>14 and we'll probably come back to that patent and a few</p> <p>15 others in a bit. Okay?</p> <p>16 A Certainly.</p> <p>17 Q All right. And feel free to follow along in</p> <p>18 Fennell Exhibit 5 if you want. I'll do my very best to</p> <p>19 direct you to any section that needs specific directing.</p> <p>20 But in your report, you list certain legal standards for</p> <p>21 obviousness and anticipation. Is it fair to say that</p> <p>22 all the legal standards you considered in rendering your</p> <p>23 opinions are in your report?</p> <p>24 A Yes.</p> <p>25 Q So there's no other legal standard that you</p>	<p>1 explained to me.</p> <p>2 Q Did you do any legal research to determine</p> <p>3 whether the standards you relied on were complete?</p> <p>4 MR. MAUCH: Objection. Vague.</p> <p>5 THE WITNESS: You know, at some point,</p> <p>6 I've looked up the various legal terms on Google,</p> <p>7 patent, to check that Section 103 is, in fact, Section</p> <p>8 103, all of the wordy bits. And I felt pretty</p> <p>9 comfortable that you folks know what you're talking</p> <p>10 about.</p> <p>11 BY MR. EIDSON:</p> <p>12 Q So it's fair to say that you didn't do any</p> <p>13 independent legal research to determine whether there</p> <p>14 were additional legal principles you should have</p> <p>15 considered informing your opinions?</p> <p>16 A I wouldn't say that. I -- because in prior</p> <p>17 declarations, I've applied other standards for other</p> <p>18 grounds for unpatentability that just didn't seem</p> <p>19 relevant to this Claim 40 analysis.</p> <p>20 Q So any of those additional standards that</p> <p>21 might not be in here, you would've deemed just not</p> <p>22 relevant to your analysis; is that fair to say?</p> <p>23 A That's right. You were talking about</p> <p>24 indefiniteness, or enablement, or some of the other ones</p> <p>25 that we've -- that I've studied previously. This time,</p>

<p style="text-align: right;">Page 66</p> <p>1 it's anticipation and obviousness.</p> <p>2 Q As you sit here today, are you aware of any</p> <p>3 additional legal principles that you needed to consider</p> <p>4 when forming your opinions?</p> <p>5 A Same answer as before. I don't know if it was</p> <p>6 just one of the ones in a previous declaration</p> <p>7 development, no.</p> <p>8 Q I want to get your understanding of a couple</p> <p>9 concepts, and what is your understanding of what -- let</p> <p>10 me start over. What is your understanding of</p> <p>11 "anticipation" that you applied to your analysis in this</p> <p>12 case?</p> <p>13 A If you turn to my report, starting at</p> <p>14 Paragraph 33 and rolling through to Paragraph 38, I</p> <p>15 could read -- read that into the record. I don't think</p> <p>16 I could improve on that language at this time.</p> <p>17 Q No. And I understand the language that's on</p> <p>18 the page, and I appreciate you not reading it into the</p> <p>19 record. What is your understanding of what it means to</p> <p>20 be anticipated?</p> <p>21 A Did I find in the claim being evaluated, just</p> <p>22 using a single prior art reference, if I can find all</p> <p>23 the elements and limitations of the claim.</p> <p>24 Q And then what is your understanding of</p> <p>25 "inherent anticipation" as you've applied it in this</p>	<p style="text-align: right;">Page 68</p> <p>1 explicitly found in Claim 40; correct? Or in those</p> <p>2 prior art references? Let me back up. I think I got it</p> <p>3 backwards. You agree with me that there are certain</p> <p>4 elements of Claim 40 that are not explicitly found in</p> <p>5 those prior art references; correct?</p> <p>6 MR. MAUCH: Objection. Compound.</p> <p>7 THE WITNESS: I think I disagree, in</p> <p>8 that, whilst each of these prior arts likely don't</p> <p>9 mention drywall, when I observe the art, it is</p> <p>10 immediately apparent to me that each of the three I've</p> <p>11 selected permit drywall as described in Claim -- Claim</p> <p>12 40.</p> <p>13 And I -- I see equivalency, direct</p> <p>14 equivalency, in those prior art references just standing</p> <p>15 on their own.</p> <p>16 BY MR. EIDSON:</p> <p>17 Q And I think we're saying the same thing, but I</p> <p>18 want to make sure. My question is versus an explicit</p> <p>19 disclosure versus an inherent disclosure for</p> <p>20 anticipation purposes. All right?</p> <p>21 A Yes.</p> <p>22 Q And you agree with me that for each of</p> <p>23 Yamaguchi, Cullen, and Chapin, there are certain</p> <p>24 elements of Claim 40 that are not explicitly disclosed</p> <p>25 in each of those references; correct?</p>
<p style="text-align: right;">Page 67</p> <p>1 matter? If you look at Paragraph 36. And, Mr. Fennell,</p> <p>2 I'm not trying to turn this into a legal quiz for you,</p> <p>3 but I do want to get your understanding of the</p> <p>4 principles that you applied as you did it.</p> <p>5 And in Paragraph 36, you say, "The reference</p> <p>6 must disclose," which I think is what you just testified</p> <p>7 about, "or inherently include all of the structural</p> <p>8 elements." And so as the expert here, what do you mean</p> <p>9 when something "inherently" includes all the elements?</p> <p>10 A Whether it's specifically disclosed.</p> <p>11 Q If it's not specifically disclosed, does that</p> <p>12 mean it is not anticipated?</p> <p>13 A No, no. I mean, it's -- it's through the eyes</p> <p>14 of the POSITA, and in this case, I'm doing a POSITA</p> <p>15 analysis, that I'm looking at both the -- the written</p> <p>16 descriptions, the claims, and the prior art to see</p> <p>17 whether I inherently can observe the -- the elements of</p> <p>18 the -- the claimed limitations.</p> <p>19 Q And your opinions for anticipation in this</p> <p>20 case as it relates to Yamaguchi, Cullen, and Chapin, are</p> <p>21 that the references inherently anticipate Claim 40;</p> <p>22 right?</p> <p>23 A Yes.</p> <p>24 Q Okay. And so you agree that there are certain</p> <p>25 elements of Yamaguchi, Cullen, and Chapin that are not</p>	<p style="text-align: right;">Page 69</p> <p>1 MR. MAUCH: Objection. Compound.</p> <p>2 THE WITNESS: In my prior answer, I gave</p> <p>3 the example of say, drywall usage that's not explicitly</p> <p>4 listed in the prior art. It's -- I had pointed out</p> <p>5 about the POSITA aspect of it, but also with -- it's</p> <p>6 with a lot of product literature and specifications, if</p> <p>7 something is merely silent on a subject, it doesn't mean</p> <p>8 it can't be used.</p> <p>9 So I didn't see anything in those prior</p> <p>10 arts that said, "Thou shalt not use it with drywall,"</p> <p>11 for example. So back to POSITA mode, I -- I think we're</p> <p>12 -- I'm agreeing with you that it's -- there are explicit</p> <p>13 aspects of Claim 40 that I don't see yet.</p> <p>14 BY MR. EIDSON:</p> <p>15 Q And for each of those references, your opinion</p> <p>16 is that, for instance, there would need to be some</p> <p>17 modifications made, for instance, to space the</p> <p>18 channel-shaped portion from the back flange large enough</p> <p>19 to permit drywall to be installed; right?</p> <p>20 MR. MAUCH: Objection. Misstates prior</p> <p>21 testimony. Vague and ambiguous.</p> <p>22 THE WITNESS: No. From a anticipation</p> <p>23 standpoint, I see in each of the three prior arts that</p> <p>24 I've referenced, Yamaguchi, Cullen, and Chapin, I see</p> <p>25 sufficient space to permit drywall per Claim 40. Later,</p>

<p style="text-align: right;">Page 70</p> <p>1 when we talk obviousness, I've included the teachings of 2 Bundy in there and, in fact, have annotated images 3 throughout the report showing how two layers of drywall 4 could be incorporated into a -- a modified adaptation. 5 But that's all obviousness. I mean, 6 right now, for anticipation, I was just thinking about a 7 singular layer of drywall and the minimum 8 commercially-available thickness is generally 9 one-quarter inch or three-eighth inch thickness of 10 drywall. 11 BY MR. EIDSON: 12 Q And we're going to jump into those in just a 13 second. Let's start generally with each of these 14 references. Yamaguchi, what application is Yamaguchi 15 for? Do you need a copy? I'm happy to get you one. 16 A Sure. Yeah. Thank you. 17 Q Yeah, let's just do -- Mr. Fennell, sometimes 18 Mr. Mauch and I think that everybody has all of these 19 things memorized to the excruciating degree that a lot 20 of the attorneys in this case do. So okay. 21 All right. Mr. Fennell, I have handed you 22 three exhibits. I handed you Fennell Exhibit 9, which 23 is a copy of Yamaguchi with some big graphic data on the 24 front and translated. It was also Martin Exhibit 23. 25 I've handed you a copy of Fennell Exhibit 10, which is</p>	<p style="text-align: right;">Page 72</p> <p>1 record at 11:25 a.m. 2 BY MR. EIDSON: 3 Q Mr. Fennell, we've marked Yamaguchi, Cullen,, 4 and Chapin, and I believe the question I had for you 5 was, what is the application that Yamaguchi is intended 6 to be used for? 7 A Well, if I look at the artwork and the 8 translated limited information, down at translated Item 9 55 on the first page, simply says, "The description of 10 the article of design is a joist bracket that is 11 attached to sills and bears a joist bridging the sills." 12 Q And what is a sill plate? 13 A Sill is usually a member, generally 14 continuous, generally at the bottom of a wall. That was 15 it. 16 Q Okay. And how does a -- a sill differ, for 17 instance, from a top plate of wood frames whenever 18 you're framing up a multi-level, multi-family 19 construction? 20 A Well, a sill plate or a sole plate will be at 21 the bottom of the assembly and the top plate or top 22 plates will be at the top of the -- in this case, in my 23 mind, a wall assembly. 24 Q And so a better question, then, is it just the 25 location of a top plate versus a sill that is the only</p>
<p style="text-align: right;">Page 71</p> <p>1 the Chapin -- not the Chapin reference, excuse me. The 2 Cullen reference, which was also Martin Exhibit 12. 3 Great Britain Publication 2451853. 4 And I've handed you a copy of Fennell Exhibit 5 number 11, which is the Chapin reference, U.S. Patent 6 1792815. So you recognize Exhibits 9, 10, and 11; 7 correct? 8 (Fennell Exhibit 9, Exhibit 10, and 9 Exhibit 11 were marked for 10 identification.) 11 A I do. 12 Q Okay. Very good. And we will talk about 13 Yamaguchi, Cullen, and Chapin. So you've got the copies 14 in front of you now. Feel free to refer to them as you 15 need. All right? 16 A If I can interrupt, is now a natural time for 17 a very short break or -- 18 Q Sure. 19 A Do you have a bunch of stuff you want get 20 through? 21 MR. EIDSON: Let's take a break. 22 THE OFFICER: We are now off the record 23 at 11:18 a.m. 24 (Off the record.) 25 THE OFFICER: We are now back on the</p>	<p style="text-align: right;">Page 73</p> <p>1 distinction, or are they constructed differently? 2 A It really depends on the site-by-site 3 application about whether there's nuances to the 4 construction. 5 Q Is there any distinction between a hanger that 6 would be used for sill plate purposes versus a hanger, 7 and generally speaking, that would be used for top plate 8 purposes? 9 A Not necessarily. 10 Q Then why would they say that this hanger is 11 used for sills and joists bridging sills? Why wouldn't 12 it just be, generally speaking, used for joists in any 13 application? 14 MR. MAUCH: Objection. Calls for 15 speculation. 16 THE WITNESS: And I -- I see no specific 17 reason why this would be sill-specific. The artwork 18 shown on page 5 shows what could be timber framed 19 materials, both for the supported structural component 20 coming in perpendicular to the support conditions, as 21 well as the material that the hanger is attached to. 22 That style of crosshatching most likely 23 is timber. Also, looking at the type of fasteners lends 24 a POSITA to start thinking timber. The supporting 25 structure underneath it could be anything. Indeed, from</p>

<p style="text-align: right;">Page 74</p> <p>1 my analysis, I've assumed it's wood frame wall that has 2 no offset, as shown with this artwork. 3 But the hanger in this case supports the 4 offset between face of supporting wall and face -- 5 vertical face of the sill, if that makes sense. 6 BY MR. EIDSON: 7 Q Let's look at Cullen. 8 THE OFFICER: Sorry. Look at what? 9 MR. EIDSON: Cullen, it's C-U-L-L-E-N, 10 also known as Fennell Exhibit 10. 11 BY MR. EIDSON: 12 Q What is the intended application for Cullen? 13 A Again, looking at the artwork and the 14 available written portions, I can see that the abstract 15 title says, "A bracket for use in decking and other 16 timber constructions." They say "bracket." Could also 17 -- yeah, I also read "and hanger." 18 Q So how is this used in decking applications? 19 A The -- their hanger is -- receives a 20 structural component, and when we get into my report, 21 you'll see what I've annotated as the channel portion 22 for receiving the structural component. How far it goes 23 back into the hanger or bracket is open to 24 interpretation, in my opinion. 25 On page -- on Figure 3, to use this with, say,</p>	<p style="text-align: right;">Page 76</p> <p>1 on it, or "it," the space and -- 2 THE OFFICER: Sorry. What was that? 3 THE WITNESS: "It," the space between the 4 end of the supported joist and the wall, but in that 5 silence, it also does not exclude the ability for a 6 designer to leave a space in this application. 7 BY MR. EIDSON: 8 Q When you're looking, it looks like, at Figure 9 3 of Cullen, when you are nailing a structural support 10 member into the side as is depicted in this Figure 3, 11 using, it looks like, bolts, 100. Do you see that? Are 12 you with me so far? 13 A Yes. 14 Q Okay. How much space do you need to leave 15 between the end of that support member and where you are 16 putting the holes for structural support? Is there a 17 rule of thumb? 18 A There are better than rules of thumbs. There 19 are prescriptive. In that case, it would be end 20 distances, but there's also limits on edge distances. 21 They travel with the diameter of the fastener and so, 22 like, a common end distance might be four diameters of 23 the fastener or seven fastener diameters. 24 It really depends on what the direction of 25 loading is, easily found in the NDS, which is the</p>
<p style="text-align: right;">Page 75</p> <p>1 decking, it shows the joist going all the way back to 2 the support condition, and there's a little -- little 3 tab of material of some size in other figures, such as 4 Figure 2. It's called out as "Tab 84." 5 That would help locate top of supported member 6 with top of wall framing beyond. 7 Q And that also would suggest that the support 8 member goes all the way to the back, to the back plate; 9 right? 10 A In that application. I -- in my full 11 analysis, I take into account, say, the bars in Figure 12 1 that are called out as "Items 31." Those would also 13 suggest a member going all the way back to the wall. 14 But elsewhere in the document, there's discussion of an 15 optional seat. 16 There's the pictorially-shown fastener holes 17 in what I've annotated as the channel section, channel 18 portion. That makes it apparent to me that the -- the 19 joist does not need to go all the way back, and for the 20 sake of the purposes of anticipation, permits that 21 drywall to be squeezed in. 22 Q You agree with me that nothing in Cullen 23 explicitly teaches leaving a space between that support 24 member, 96, and the back wall? 25 A Correct. And as discussed before, it's silent</p>	<p style="text-align: right;">Page 77</p> <p>1 National Design Spec referenced by all the model codes 2 and including International Building Code, California 3 Building Code. 4 Q And so if we were going to use, here, I'm just 5 looking at Figure 3. If I was to slide this decking 6 structural support member out to leave space, how far 7 away from those fasteners, 100, must the edge, 104, be 8 to comply with those rules? 9 A I think a good -- and this, now, we are 10 reverting to rule of thumb that if we were looking at 11 this isometric in Figure 3, I really wouldn't want to 12 bring the end of joist any further forward to the left 13 than the vertical portion shown to the right of 14 fasteners, 100. 15 Because I'm also looking at -- I'd want to 16 have enough bearing length, and it also presumes that 17 I'm using the alternate seat detail to support supported 18 member, 96. 19 Q And the seat detail, that means essentially 20 you're putting a bottom on the channel-shaped portion; 21 right? 22 A I would be, yeah. 23 Q Yeah. So that'd be an additional modification 24 you'd have to make. 25 A I -- I don't see it as a modification. I just</p>

<p style="text-align: right;">Page 78</p> <p>1 simply see as not running the joist all the way to face 2 of framing.</p> <p>3 Q And so from an inch perspective, how much 4 space would that be? You said -- I heard your 5 testimony. I don't need you to repeat it. How much 6 space would be the minimum amount you could leave 7 between that edge, 104, and then 100, where you're 8 securing it with bolts?</p> <p>9 MR. MAUCH: Objection. Vague.</p> <p>10 THE WITNESS: It would be in the order of 11 a half an inch, three-eighths of an inch. It really 12 depends on the scale of what's going on here. And if 13 I'm simply trying to permit drywall, permit drywall 14 Claim 40-style, I might be able to leave the joist 15 further past the channel portion.</p> <p>16 But if I did have it stopping hard in 17 line with the vertical line there just beyond Fastener 18 100, yeah, I'd look from the center of fastener to the 19 edge of the vertical on the area of half an inch.</p> <p>20 Most --</p> <p>21 BY MR. EIDSON:</p> <p>22 Q And -- oh, go ahead. Sorry.</p> <p>23 A Yeah, no, it's just -- it's the want to be 24 teacher in me that says that the -- the length of the 25 seat, the -- the length of bearing is going to be in the</p>	<p style="text-align: right;">Page 80</p> <p>1 an extension hanger, that if a -- as shown in, say, 2 Figure 6 has a perpendicular member coming up short of a 3 -- a supporting wall, then the Chapin extension hanger 4 can be used to bridge the gap, so to speak.</p> <p>5 Q Okay. How is this installed? Walk me through 6 it. I'm on the job site. I need to use this. What's 7 the problem I have, and then how do I install this?</p> <p>8 A Well, if you look at Figure 6 again, it's a 9 isometric. The supporting joist, 12, has been 10 inadvertently cut short by someone for various reasons. 11 The -- the Chapin hanger would be taken off the shelf. 12 It would be installed in such a way that supporting 13 channel, 9, cradles the underside of the joist that it 14 was short.</p> <p>15 The sidebars or extension portions, 8, would 16 run along the -- the top surfaces, outer surfaces of now 17 supported member, 12, through the channel section, 9. 18 And those extension portions are terminated at collar, 19 10, a three-sided collar, the left of the image closest 20 to the reader.</p> <p>21 And then there's a connection assembly on the 22 right-hand side, featuring another column -- collar, 11, 23 and a -- a top flange, 16. So 16 would be arranged on 24 the wall, supported bearing on the top of wall. And 25 then the key element here would be that channel section,</p>
<p style="text-align: right;">Page 79</p> <p>1 order of an inch and a quarter, an inch and a half. So 2 now, between -- if these fasteners were near the center 3 of that channel-shaped portion, back to the vertical 4 edge, it's it's likely five-eighths, three-quarters of an 5 inch available.</p> <p>6 And that would be more than enough to satisfy 7 end distance requirements to the end of the joist.</p> <p>8 Q And the end distance requirements are the ones 9 you talked about that were found in NDS and other 10 places; correct?</p> <p>11 A Yes.</p> <p>12 Q And what is the purpose of an end distance 13 requirement?</p> <p>14 A It's to -- of the various different limit 15 states or loading scenarios that govern a particular 16 design, the end distance prevents the tear out of a 17 fastener from the end of a member in connection design.</p> <p>18 Q And that's because the closer the connection 19 member is to the end, the less stability it has within 20 the member it's trying to support; is that fair to say?</p> <p>21 A The less load capacity it has.</p> <p>22 Q Yes. And let's look at Chapin, which is 23 Fennell Exhibit number 11. What application is Chapin 24 intended to be used for?</p> <p>25 A Chapin is a -- a hanger that is described as</p>	<p style="text-align: right;">Page 81</p> <p>1 9, would just need to capture and support the -- end of 2 the -- the short joist.</p> <p>3 Q Okay. So I've got some questions about that. 4 Look at -- so one end has got to be attached to the 5 wall, essentially, and that's the end with the collar, 6 11, and the portion labeled 16; correct?</p> <p>7 A Yes.</p> <p>8 Q How is that attached to the wall? Is it just 9 resting on top?</p> <p>10 A As a POSITA or an engineer, I -- I'd look for 11 a mechanical connection. There isn't one 12 diagrammatically or pictorially shown here, but a POSITA 13 would look to create something beyond just gravity 14 bearing support.</p> <p>15 Q And is that what this design in Chapin is for, 16 gravity bearing support?</p> <p>17 MR. MAUCH: Objection. Vague.</p> <p>18 THE WITNESS: Well, gravity is the -- the 19 first load case that engineers and POSITAs and designers 20 look to satisfy. I mean, that's a permanent load 21 condition, but I -- I see no reason why there couldn't 22 be some loadings in other directions to -- to be 23 accommodated, sort of out-of-plane lateral loading.</p> <p>24 BY MR. EIDSON:</p> <p>25 Q And I'm asking about just not how you'd modify</p>

<p style="text-align: right;">Page 82</p> <p>1 Chapin. We're going to get into all of that. I'm 2 asking about specifically what you see here and what's 3 disclosed and how this invention is used. Okay? Does 4 that make sense? 5 A Sure. 6 Q All right. And so with what's disclosed in 7 Chapin, the portion that connects, so to speak, onto the 8 wall, arguably on a top plate, it just rests on top of 9 it; right? What's labeled 16? 10 A Yeah, I -- it appears to just bear on top of 11 the wall, yes. 12 Q Okay. And, I mean, it's got a little bit of a 13 height to it; correct? It's not flat or flush with that 14 top plate; correct? 15 A Correct. There's -- there's a depth to 16. 16 Q Yeah. Thank you. And then the other end, is 17 it attached to a wall anywhere, or does it rely on the 18 physics between the channel-shaped portion, 9, and the 19 extension portion, as you called it, 8? 20 A Right. The -- the mechanics of this hanger 21 would have -- as weight is pushed down into the channel 22 at 9, it would then also create a vertical force 23 downwards at Item 10 that positively grips the top of 24 supported member, 12. 25 Q Which is supported at the other end,</p>	<p style="text-align: right;">Page 84</p> <p>1 to consider whether there were any objective indicia of 2 non-obviousness to support validity; correct? 3 A Yes. 4 Q And in your understanding, that was something 5 that must be considered in connection with the prior art 6 disclosures that you considered; correct? 7 A Well, I said I should -- should consider it 8 rather than must. At least in code language, that has a 9 different level of obligation. 10 Q But in Paragraph 44, you said you're not aware 11 of any objective indicia that changed your opinion 12 regarding Claim 40 of the 510 Patent. Do you see that? 13 A I do. 14 Q Okay. Did you do anything to attempt to make 15 yourself aware of any objective indicia of 16 non-obviousness regarding Claim 40 when you formed your 17 opinions? 18 MR. MAUCH: Objection. Vague. 19 THE WITNESS: No. As -- as in this Claim 20 40 analysis, as with prior reports, I haven't been 21 persuaded by or taken on board such as the emails and 22 writings of various salespeople from either Simpson or 23 MiTek, just outside of my scope of really looking at 24 these claims as a POSITA. 25 //</p>
<p style="text-align: right;">Page 83</p> <p>1 presumably by a joist or some other structural connector 2 member; right? 3 A Right. Twelve presumably makes it all the way 4 to the wall at the other end, with any luck. I don't 5 see an application where this would be a -- a 6 cantilever. I just don't think the free-body physics 7 would work out. 8 Q So it's fair to say that with this particular 9 application, it's the physics and/or the mechanics of 10 the design that would secure the hanger to the top of 11 the wall and keep everything in place with the 12 structural support member? 13 A Yes, I think -- I think it would be in 14 equilibrium, and it would sit there quite happily under 15 gravity loads. 16 Q Do you see any use of fasteners disclosed in 17 Chapin? 18 A Other than the four little circular elements 19 on the top of flat plate, 17, I do not. 20 Q Looking at Paragraph 44 of your report, 21 Fennell 5, are you there? 22 A I am. 23 Q Okay. One of the legal principles that you 24 received from counsel was that, in making a 25 determination of whether something's obvious, you were</p>	<p style="text-align: right;">Page 85</p> <p>1 BY MR. EIDSON: 2 Q And so when you say at the time you rendered 3 your opinions, you were not aware of any objective 4 indicia that changed your opinions regarding Claim 40 of 5 the 510 Patent, was that the result of a research effort 6 that you had undertaken, or was that just an assumption 7 that you made in forming your opinions? 8 MR. MAUCH: Objection. Vague. 9 THE WITNESS: It was a combination of -- 10 I hadn't been directed by counsel to, you know, look at 11 a pile of material and factor it into my analysis. I 12 was also looking for in the past, perhaps, testing or 13 research performed by Professor Surrette that might be 14 persuasive or that might change my mind. 15 I hadn't seen anything there in that 16 space. No. I'd say I just kept looking back through 17 the eyes of a POSITA at, you know, these artwork and the 18 various descriptions and to see whether I could see 19 equivalency under both anticipation or obviousness with 20 prior art. 21 BY MR. EIDSON: 22 Q Fair to say, your focus was strictly on 23 analyzing the prior art? 24 A Yes, through the eyes of a POSITA. I'm hoping 25 my prior -- prior answer -- sorry to continue. I'm --</p>

<p style="text-align: right;">Page 86</p> <p>1 I'm hoping with my prior answer, you meant not just the 2 pictures, but also all the written "bumph" that goes 3 with it. 4 THE OFFICER: Sorry. Written what? 5 THE WITNESS: "Bumph," B-U-M-P-H. 6 BY MR. EIDSON: 7 Q Sure. I don't know what "bumph" is, but I'll 8 -- the pictures and -- 9 A The "non-picturey" bits. 10 Q Oh, the specifications. Sure. 11 A And the claims. 12 Q And the claims. Yeah. We'll adopt that as a 13 new technical lingo in this case, "bumph." 14 MR. EIDSON: Joe, I'm going to transition 15 to another topic. It's almost noon. 16 Mr. Fennell, I can keep going. In two 17 minutes, we're going to have a little bit of a party. 18 MR. MAUCH: Let's do what everyone wants 19 to do, including the witness and the reporter. We 20 should not do things based on what's happening next 21 door. I was merely just wanting to let us know that it 22 might get a little commotion. 23 MR. EIDSON: That's fine. Want to take a 24 lunch break? 25 THE WITNESS: I -- I'm fine. I mean, I</p>	<p style="text-align: right;">Page 88</p> <p>1 BY MR. EIDSON: 2 Q All right. Mr. Fennell, did you discuss the 3 substance of your testimony with counsel at any time 4 during any of the breaks today? 5 A I did not. 6 Q Okay. We were talking about your report, if 7 you want to grab Fennell Exhibit 5, and if you would 8 like to turn to page 70. And while you're getting 9 there, you agree with me that your assignment here was 10 to provide objective opinions in this case; correct? 11 A Yes. 12 Q All right. And if you look at page 70, 13 Heading D, your opinion is that "An overwhelming 14 majority of the 867 patent claims were invalid." Do you 15 see that? 16 A I do. 17 Q What is "an overwhelming majority"? 18 A Well, well past 50 percent and on their way to 19 what I would describe as most of them. In the case you 20 see here, that it was only six of the claims survived. 21 Q Do you think that that is objective 22 terminology befitting of an expert? 23 MR. MAUCH: Objection. Argumentative. 24 THE WITNESS: Yes is the -- the short 25 answer, although I -- I try not to use adjectives,</p>
<p style="text-align: right;">Page 87</p> <p>1 can go another half an hour or so. I mean, if it means 2 there's going to be no sandwiches left, Joe, then that's 3 a practical -- 4 MR. MAUCH: I fear I've inadvertently 5 made this more complicated than I was trying. We have 6 our own lunch. It's separate. We're good. We should 7 break whenever we want to break. 8 THE WITNESS: Okay. I -- I leave it up 9 to the counsel. 10 THE OFFICER: I'm -- I'm fine whenever. 11 MR. EIDSON: Well, I'm on Central time. 12 I'm always hungry, so if it was up to me, I would take a 13 lunch break right now. 14 THE WITNESS: All right. Let's take a 15 lunch break then, please. 16 MR. EIDSON: Is that all right? 17 THE WITNESS: Yes. Oh, yep. Yeah. 18 MR. EIDSON: And then we'll get back 19 after it after lunch. 20 THE OFFICER: We are now off the record 21 at 11:59 a.m. 22 (Off the record.) 23 THE OFFICER: We are now back on the 24 record at 12:39 p.m. 25 //</p>	<p style="text-align: right;">Page 89</p> <p>1 but -- 2 BY MR. EIDSON: 3 Q Are you going to tell the jury that "an 4 overwhelming majority" were invalid? 5 A Yes. 6 Q Does this mean that Simpson's challenge at the 7 PTAB was an overwhelming success? 8 THE OFFICER: Did you say "PTAB"? 9 MR. EIDSON: P-T-A-B, yes. 10 MR. MAUCH: Objection. Vague. 11 Argumentative. 12 THE WITNESS: I actually don't know how 13 Simpson feels about any of these results. 14 BY MR. EIDSON: 15 Q Do you know whether the challenge was an 16 overwhelming success yourself? 17 A Again, I -- I just look at it on a -- a go, no 18 go, or pass, no pass basis, and then that the -- the 19 overwhelming majority of the claims were -- were deemed 20 invalid, and therefore my opinions presented must have 21 been persuasive. But whether that translates into 22 success, I'm not really sure how to think of it then. 23 Q And I'm concerned about the use of the word 24 "overwhelming," as it describes the majority of the 25 claims. And so let me continue to ask you about that.</p>

<p style="text-align: right;">Page 90</p> <p>1 MR. MAUCH: I'm sorry, Scott. I'm 2 interrupting. Where in the report does it say 3 overwhelming majority items? 4 MR. EIDSON: I was -- I'm sorry. 5 MR. MAUCH: In the title. In the title. 6 MR. EIDSON: Seventy. 7 MR. MAUCH: In the title? 8 MR. EIDSON: In the title I was reading, 9 yes. 10 MR. MAUCH: Thank you. 11 BY MR. EIDSON: 12 Q Mr. Fennell, based on the latest statistics 13 from the Patent Trial And Appeal Board, what percentage 14 of a time does a patent challenger succeed in showing 15 that all of the claims are un-patentable when a final 16 written decision is reached? 17 A I have no idea. 18 Q Wouldn't you need to know those baseline 19 statistics before you make a determination that 20 Simpson's patent challenge was an "overwhelming 21 success"? 22 MR. MAUCH: Objection. Misstates prior 23 testimony. Misstates his report. 24 THE WITNESS: Yeah, no. I -- I didn't 25 weigh in on the success side of things. I have no idea</p>	<p style="text-align: right;">Page 92</p> <p>1 MR. MAUCH: Objection. Misstates -- 2 lacks foundation. 3 THE WITNESS: Then if it was the 23 one, 4 then I still feel good that I need -- I was able to 5 persuade on all but six. 6 BY MR. EIDSON: 7 Q Are you familiar with any statistics at the 8 PTAB for success rates on challenge patent claims? 9 A As I just mentioned, I -- I do not. I have no 10 idea. 11 Q Let's talk about Yamaguchi, and if you want to 12 follow along, I'm around pages 98 to 99 of your report. 13 We'll certainly look at some of your annotated figures 14 in this section as well, which are on some of the 15 preceding pages, 96, 97. I think I might go on to 101. 16 Are you there? 17 A I am. 18 Q Okay. Very good. You say in Paragraph 169 19 that "a POSITA would've understood that Yamaguchi's 20 extension portion," which you've colored green, "is 21 configured to extend into one side of drywall and out 22 the other side of drywall." Do you see that? It's in 23 Paragraph 169? 24 A Yes. Yes. 25 Q What about that green extension portion that</p>
<p style="text-align: right;">Page 91</p> <p>1 what Simpson thinks or how that result is deemed. All I 2 know is that all but six of the claims were deemed 3 invalid, and that's an overwhelming majority. If I had 4 to live without adjectives, I would have simply said 5 majority. 6 BY MR. EIDSON: 7 Q And that's probably, given your lack of 8 knowledge on the context of success and PTAB challenges, 9 that's probably the more appropriate way to think of it; 10 right? Just simple majority rather than overwhelming? 11 MR. MAUCH: Objection. Vague. 12 Argumentative. 13 THE WITNESS: From a purely -- purely 14 numerical standpoint, majority would be sufficient. I 15 wasn't aiming to be tabloid by calling it overwhelming, 16 but that is also a correct statement that only six 17 survived. 18 BY MR. EIDSON: 19 Q Out of how many? 20 A I believe this was the -- this was the one 21 with -- no, I don't actually remember the total number. 22 It was, like -- it was either in the high forties or the 23 low fifties. 24 Q Twenty-three. 25 A Twenty-three? Oh, okay. Well --</p>	<p style="text-align: right;">Page 93</p> <p>1 you've got highlighted on page 99 of your report makes 2 it configured to extend into one side of drywall and out 3 the other? 4 A Well, if you flip the page to page 100 and 5 look at the top annotated image, there's a Yamaguchi 6 plan view, where I show, in this case, two layers of 7 drywall between the channel-shaped portion and the back 8 flange plane. Recalling that for Claim 40, I simply 9 need to permit drywall, which would be a singular layer, 10 but in this case I've shown it with two layers. 11 But that shows drywall where the green extends 12 through the drywall in one side, out the other. 13 Q And, Mr. Fennell, here's my question. I'm 14 going to ask it one more time. What makes that green 15 extension portion that you have highlighted configured 16 to extend into one side of the drywall and out the 17 other? You told me the result. 18 My question is, what about Yamaguchi makes it 19 configured to extend as you've opined on in this 20 Paragraph 169? 21 MR. MAUCH: Objection. Asked and 22 answered. 23 THE WITNESS: Well, what I'm looking for 24 is a space that permits drywall, and so I see where the 25 red shading ends at the channel portion, and I see where</p>

<p style="text-align: right;">Page 94</p> <p>1 the blue shading starts at the connection portion, and 2 the space available between, shaded green, is the answer 3 to your question. 4 BY MR. EIDSON: 5 Q That space allows for the drywall to be 6 received, but what in particular about the construction 7 of the green extension portion makes it configured to 8 extend into drywall and out, into one side and out the 9 other? 10 A The geometry is depicted in the artwork here. 11 If I look at the side view, annotated at the bottom of 12 page 99, I can see connection portion on one side of the 13 drywall and I can see channel portion on the other side 14 and drywall in between, with the extension portion 15 passing in and out of the drywall. 16 Q So it's the geometry of the green extension 17 portion that you have that makes it continue to extend 18 through the drywall? 19 A Yes. 20 Q So by that rationale, is any piece of metal 21 that is perpendicular to drywall configured to extend 22 through the drywall? 23 MR. MAUCH: Objection. Vague. 24 Incomplete hypothetical. 25 THE WITNESS: I don't see the</p>	<p style="text-align: right;">Page 96</p> <p>1 Q All right. I'm going to hand you a blank 2 piece of paper. For Yamaguchi, draw the cutout that 3 would have to be done in order to hang drywall as you 4 have it in your report. Pretend that that piece of 5 paper is a sheet of drywall. What would the cutout have 6 to look like? Or you can draw a square inside of it. I 7 don't care. Do whatever is comfortable for you. 8 A Well, in that case -- 9 Q Are you having a problem, or is there -- 10 A Dr. Serrette had done a nice job of clipping 11 in an isometric view of Yamaguchi with drywall that I 12 believe illustrates the answer to your question. 13 Q Well, I would like to know if you know how to 14 cut it out. 15 A Oh, I do. 16 Q Okay. So I see you looking at what may be his 17 report. So now, on that piece of paper that I gave you, 18 pretend that you're a sheet rock installer and you're 19 going to install that. How would you? What would you 20 cut out of that drywall to install it. Okay. 21 And on that picture, will you just write 22 "Yamaguchi" somewhere, or "Yamaguchi cutout," whatever 23 you prefer, and then initial and date it. 24 MR. MAUCH: Do we want to mark this? 25 MR. EIDSON: That's where I'm heading.</p>
<p style="text-align: right;">Page 95</p> <p>1 perpendicularity part of the puzzle as essential or 2 limiting to me. Here, I have a hanger that is, in this 3 case, on a wall, and I'm now looking to permit drywall 4 between the back of a supported member and the back 5 flange plane. 6 Everything I've annotated in green there, 7 I've now called extension portion, and that -- that 8 permits for a sheet of drywall to be installed on the 9 wall. 10 BY MR. EIDSON: 11 Q Is there anything specific about that 12 extension portion that allows it to extend into one side 13 of drywall and out the other? 14 MR. MAUCH: Objection. Vague. 15 THE WITNESS: Maybe I'm not appreciating 16 your question, but, again, I refer you back to top of 17 page 100. It's within Paragraph 169. I see a sheet of 18 drywall, which is most likely a four-by-eight, four-foot 19 by eight-foot sheet of drywall. And I have it annotated 20 in a way that it's -- the green section traverses 21 through that sheet of drywall. 22 BY MR. EIDSON: 23 Q Mr. Fennell, I'm going to hand you a -- do you 24 have a pencil on you or a pen over there? 25 A I do.</p>	<p style="text-align: right;">Page 97</p> <p>1 MR. MAUCH: I assumed. 2 (Fennell Exhibit 12 was marked for 3 identification.) 4 BY MR. EIDSON: 5 Q So I see what you've drawn there, Mr. Fennell, 6 and I appreciate that. So now, you've got some slots in 7 the drywall there that have some width to them. They're 8 not just mere slots; correct? 9 A So they represent a thickness of drywall. 10 Q And that thickness corresponds to the 11 thickness of the extension portion that you have 12 highlighted green in Yamaguchi; correct? 13 MR. MAUCH: Objection. Vague. 14 THE WITNESS: No, no. If it's the Claim 15 40 version, then it's just simply permits drywall, 16 one-quarter inch, three-eighths inch. If it's looking 17 at the annotated version, the top of page 100, I 18 actually called out that it was two layers of 19 five-eighth inch drywall. 20 BY MR. EIDSON: 21 Q Yeah. My question was -- I'm sorry. I think 22 I said the wrong thing and I apologize. Looking at your 23 Exhibit 12, which is the drawing that you just did, when 24 you are installing drywall using Yamaguchi, the cutouts 25 that you would have would have two slots in them for</p>

<p style="text-align: right;">Page 98</p> <p>1 installing one Yamaguchi hanger, and those slots would 2 be the width of each of the respective extension 3 portions from Yamaguchi; correct? 4 A Yes. 5 Q That's what I meant to ask the first time, and 6 something tells me I didn't, so all right. So we're 7 tracking so far. And then in between those two slots 8 there, there's a single piece of a sheet rock that pops 9 up. It's like a tab. Is that fair to say? 10 A Yes. If -- if we're talking about the single 11 layer application, yes, there's a single, you know, 12 crenelated portion of -- 13 Q Can we write "tab" on that, just so we know 14 we're both talking about the same thing? I'm talking 15 about that right here, if that's what you're talking 16 about. 17 A Done. 18 Q Very good. All right. This will help keep 19 our terminology straight as we talk about this. All 20 right. So then looking at your picture now, on page 21 100, which is the one you referred me to, on top of the 22 extension portions for Yamaguchi, there would be no 23 sheet rock; correct? 24 A Oh, yeah. In facing the -- the blue back 25 flanges, there would be no drywall. Correct.</p>	<p style="text-align: right;">Page 100</p> <p>1 using Yamaguchi? 2 A Likely, yes. 3 Q Now let's talk about the tab as we've got it 4 marked on your diagram. Have you seen any evidence in 5 this case or otherwise where it is undesirable to have a 6 tab in sheet rock for installing it after a firewall 7 hanger is installed? 8 A No. 9 Q As you sit here as one of ordinary skill in 10 the art, can you see any issues that creating a tab 11 would have for an installer of sheet rock? 12 A The mind baffles. The mind boggles. I'm 13 sorry. My concerns would be that any required fasteners 14 have sufficient edge distance for attaching the -- the 15 tab to the wall framing beyond, and that it would be a 16 matter of integrating the other fire-resistive materials 17 used to detail any edges or penetrations that may exist 18 in the -- the field version of this. 19 Q Have you ever installed drywall? 20 A Yes. 21 Q Okay. Have you ever installed drywall in a 22 firewall application? 23 A I have. 24 Q Have you ever installed drywall in an 25 application utilizing any of the firewall hangers that</p>
<p style="text-align: right;">Page 99</p> <p>1 Q And so if we're looking, for instance, top 2 down, as you are on page 100 of your report, there is a 3 depth for each of the slot cutouts in the sheet rock for 4 which there will be no fire barrier; correct? 5 A Well, I wouldn't say that. I mean what there 6 isn't is any residual from the original sheet of 7 drywall. What there would be would be other typical 8 fire-resistive materials that go into penetrations and 9 openings in rated walls. 10 Q Okay. Let's stick with the Yamaguchi example 11 that we have here and the cutouts that you have in front 12 of you in Exhibit 12. As you look at that, there is a 13 depth, which is the length of the two slots that you 14 have in Exhibit 12 for which there is no drywall filling 15 that hole; correct? 16 A Yes. 17 Q And that is everything above where the 18 extension portion would be; correct? 19 MR. MAUCH: Objection. Vague. 20 THE WITNESS: I think that's right, yes. 21 BY MR. EIDSON: 22 Q Have you -- now, we talked about the two 23 slots. In an installation for firewall purposes, would 24 someone have to fill in those two slots above the 25 extension portion with some other fireproofing material</p>	<p style="text-align: right;">Page 101</p> <p>1 are involved in this lawsuit? 2 A I have not. 3 Q Okay. So what problems would a drywall 4 installer have with the creation of a tab in the sheet 5 rock? 6 A I don't envision too many. I mean, this is a 7 fairly basic notching of the drywall that is similar to 8 those around outlets, pipes, and any other penetration 9 that might be required to pass through the resistive 10 membrane. 11 Q Before I asked you today, have you ever 12 considered why it might be undesirable to have a tab in 13 the drywall? 14 A I -- I'm not aware of one. It just would 15 require a certain care by the drywaller in executing the 16 cuts. These are folks that sometimes make cuts with 17 hammers. In this case, I'd rather see something more 18 surgical, and I'm sure the inspectors would be looking 19 in those locations as well. But the -- the only thing 20 we really need here is the right tool and the right 21 level of care. 22 Q So one problem that I think you just alluded 23 to was making sure that the cuts would be accurate; is 24 that fair? 25 A Yeah, the same level of neatness that would be</p>

<p style="text-align: right;">Page 102</p> <p>1 used at say a -- an electrical outlet that's further 2 down on the wall.</p> <p>3 Q And do you see that that tab portion presents 4 a risk of breakage whenever you slide it up into the 5 hanger, as you claim Yamaguchi would be modified to do?</p> <p>6 MR. MAUCH: Objection. Misstates 7 testimony.</p> <p>8 THE WITNESS: I mean, any sheet of 9 drywall is subject to breakage, as would the top edge or 10 the tab here if the installers are not sufficiently 11 careful.</p> <p>12 BY MR. EIDSON:</p> <p>13 Q I understand that any piece of sheet rock can 14 break, but you understand and agree with me that 15 creating a tab prevents a greater likelihood that 16 something could break than not having the tab; right?</p> <p>17 A Yes. Yes.</p> <p>18 Q Okay. That's more fragile than just having a 19 uniform piece of sheet rock with no slots on each side 20 of the tab; right?</p> <p>21 A Right. For the few moments of installation, 22 that tab is unsupported on two sides, and there's a 23 possibility of -- of snapping at the base of the tab.</p> <p>24 Q How long is the back flange on Yamaguchi?</p> <p>25 A It is depicted not to scale, but I would</p>	<p style="text-align: right;">Page 104</p> <p>1 created by the extension portion?</p> <p>2 A Well, it would be a concern in that it would 3 be a design element, but no. Put a joist in, support it 4 at the other end, put in whatever sheathing or diaphragm 5 is going to occur at the level directly above, and then 6 continue framing walls above, who are almost certainly 7 going to stack over the walls.</p> <p>8 The actual weight on the joists supported 9 there is just its own self-weight and maybe a -- a layer 10 of sheathing. I don't know how quickly drywall trades 11 would be coming in behind that, but under just 12 self-weight, I don't see that supported joist rotating 13 back in towards the wall.</p> <p>14 That would be the concern, that -- that the 15 supported joist heals its way back towards face of wall 16 and pinches off that drywall gap that I'm looking for. 17 Certainly for a -- a layer of -- one layer of Claim 40 18 drywall, no concerns.</p> <p>19 But even in the two layer application here, I 20 don't believe it would be a problem beyond what the 21 designer's going to deal with.</p> <p>22 Q What does that mean?</p> <p>23 A The POSITA. I -- I -- your question was any 24 worry about the drywall being pinched off by completing 25 the framing prior to drywall? "No" is the short answer.</p>
<p style="text-align: right;">Page 103</p> <p>1 estimate that it's on the order of an inch and a half or 2 two-inches deep into the top plate.</p> <p>3 Q And how long is the extension portion?</p> <p>4 A Well, as I've drawn it here, it is 5 diagrammatically just large enough to permit two layers 6 of five-eighth drywall, or an inch and a quarter. That 7 would be my estimate of depth of the extension portion, 8 colored green.</p> <p>9 Q Looking at the design of, of Yamaguchi, with 10 your photos on page 99, or whichever you choose, or you 11 can look over at page 101, if one was to use Yamaguchi 12 to build and frame up, before drywall installation, 13 multiple levels of a structure, would one of ordinary 14 skill in the art have concerns about Yamaguchi's ability 15 to maintain the gap for the drywall, if you completed 16 that framing first?</p> <p>17 MR. MAUCH: Objection. Incomplete 18 hypothetical.</p> <p>19 THE WITNESS: I -- I don't believe so.</p> <p>20 BY MR. EIDSON:</p> <p>21 Q So looking at page 101, putting a joist in the 22 channel-shaped portion without anything behind that and 23 then building on top of that and on top of that, one of 24 ordinary skill in the art wouldn't be concerned about 25 that channel-shaped portion sagging back into the space</p>	<p style="text-align: right;">Page 105</p> <p>1 Q With Yamaguchi? That's my question.</p> <p>2 A With Yamaguchi, correct.</p> <p>3 Q And you don't have that concern, because you 4 say there's not that much weight on it. It's just the 5 weight of the joist?</p> <p>6 A The joist and the decking above.</p> <p>7 Q And so what if I go up five levels? You don't 8 have any concern that the joist on the first level is 9 going to pinch, as you said?</p> <p>10 A Not if in, as in most cases, the wall that 11 we're looking at stacks vertically up through the 12 building. That wall -- weight of wall is just simply 13 fully supported on the walls themselves. What's hanging 14 and supporting in between doesn't -- does not factor in.</p> <p>15 Q Looking at Cullen, if you want, or just 16 recalling it, would you have to make any modifications 17 to Cullen out of concerns for the ability to maintain a 18 gap in the drywall if you completed framing first?</p> <p>19 A I think we can insert the same discussion that 20 we just had with Yamaguchi as for Cullen, remembering 21 that I'm using the seat version of Cullen to support the 22 supported joist. But otherwise, yes, frame your way up 23 the building and come along later with drywall and 24 carefully insert into the gap.</p> <p>25 Q And what about for Chapin?</p>

<p style="text-align: right;">Page 106</p> <p>1 A Same. I just feel obligated to point out that 2 this report is Claim 40, and the concerns we were just 3 discussing are even less if we're just talking about a 4 single layer of permitted drywall between back of 5 supported joist and back flange plane. 6 Q And looking at Yamaguchi, there's nothing to 7 prevent the joist or structural support member from 8 sliding all the way back into the space created by the 9 extension portion; correct? 10 A As initially drawn, there is no mechanical 11 stop to the back of the channel-shaped portion, 12 preventing the joists from sliding back. However, one 13 of my assumptions in using this hanger is that the -- 14 the supported framing member will be cut to the correct 15 length to be drop -- dropped into the channel portion 16 and not encroach into the drywall zone. 17 If talking in the obviousness and combination 18 realm, simply cutting a notch in the side of the channel 19 or the -- or the -- the perpendicular wings for that 20 matter and folding in a mechanical stop would be an easy 21 adaptation of this hanger. I hope that answers your 22 question. 23 Q Let's look at Cullen, and we'll look around 24 Paragraph 199, and you say the same thing here. You say 25 that "Cullen's extension portion," which is green in</p>	<p style="text-align: right;">Page 108</p> <p>1 Cullen that teaches not putting the support member all 2 the way against the back flange; correct? 3 MR. MAUCH: Objection. Vague. 4 THE WITNESS: Oh, I think we described 5 that earlier, that the artwork only in one figure shows 6 it going all the way, and yet another, I should be 7 specific -- 8 BY MR. EIDSON: 9 Q Exhibit 10, and I'm talking about the artwork 10 and all the "brumph." 11 A The "bumph." 12 Q "Bumph." 13 MR. MAUCH: Well played. 14 THE WITNESS: Figure 3 in Fennell Exhibit 15 10 shows the joist going all the way to the supporting 16 wall. However, the other figures leave it open to 17 interpretation, depending on the application. I note 18 that in Figure 1 there are the barbs, called out as 19 Items 31. 20 I believe those are locator-type elements 21 that, if the joist was rammed all the way to the back of 22 the wall, it would engage those little barbs and hold 23 the joist temporarily while fastening occurs. 24 BY MR. EIDSON: 25 Q Which suggests to one of ordinary skill in the</p>
<p style="text-align: right;">Page 107</p> <p>1 your annotated figure around page 110 -- or excuse me, 2 around page 118. 3 You say that "the extension portion in green 4 is configured to extend into one side of the drywall and 5 out the other side of the drywall." Do you see that in 6 Paragraph 199? 7 A I do. 8 Q Okay. And I have the same question that I had 9 with Yamaguchi about this one. What specifically makes 10 that green extension portion configured to extend into 11 one side of drywall and out the other? 12 A Well, again, with the seat option of Cullen, 13 where the supported joist does not extend back beyond 14 the annotated red portion, to a POSITA, to me, I see 15 ample opportunity to permit drywall between the red 16 shading and the blue shading or the back flange plane. 17 I also -- in a moment we can talk about the 18 little tab, the locator tab, 84, and how I've described 19 that in Paragraph 199, but I think I've currently 20 answered your question about drywall in the green zone. 21 Q And it's just that it's a piece of metal with 22 a long enough space that allows it to go through the 23 drywall. Is that it? 24 A Yes. 25 Q And you agree with me that there's nothing in</p>	<p style="text-align: right;">Page 109</p> <p>1 art that the joist goes all the way to the back plate; 2 right? 3 A Where the barbs are present. It's Figure 2 4 where those barbs disappear. And when considering the 5 optional seat, that I see that it's not excluded or it's 6 silent on whether the joist goes anywhere beyond the -- 7 the vertical portions out at what I've annotated as the 8 channel portion. 9 Q But Figure 2 also has Tab 84. 10 A Right, and -- 11 Q Okay. And let me follow up. 12 A Yes, sir. 13 Q Which suggests to you that the support member 14 goes all the way back, otherwise there'd be no need for 15 Tab 84. 16 A In the written specification, it talks about 17 how Tab 84 could simply be bent down if needed. But I 18 also see that it could also be extended out, lengthened, 19 and possibly even extended out and then bent down in an 20 application that would then provide a stop to a joist 21 spaced away from the wall. 22 Q But you agree with me that Tab 84 suggests to 23 one of ordinary skill in the art in Figure 2 that the 24 joist goes all the way to the back wall? 25 A Not necessarily.</p>

<p style="text-align: right;">Page 110</p> <p>1 Q So you just disagree with me on that; is that 2 fair to say?</p> <p>3 A I just think there's a difference between 4 Figure 1 and Figure 2 where the -- the barbs disappear, 5 and --</p> <p>6 Q But the tab remains; right?</p> <p>7 A The tab remains, but there's also literature 8 that talks about the optional seat, and that's where, 9 when I read this in its entirety, I obviously see the 10 opportunity to permit drywall between the back of the 11 joist and the back flange plane.</p> <p>12 Q But you agree with me that the seat doesn't 13 have anything to do with how far back you're pushing the 14 support member. It just has to do with how you support 15 the support member on the bottom; right?</p> <p>16 A Yes-ish. I mean, I -- I think in concept I 17 agree with you that I put it on the seat for support, 18 but as I say, I don't see a necessity to drive it all 19 the way back to the wall. I can leave it short 20 sufficient to permit drywall, Claim 40-style.</p> <p>21 Q But for Tab 84 being on Figure 2 -- and what's 22 the purpose of Tab 84?</p> <p>23 A I believe if it's in a decking application, it 24 helps locate the top of a joist that is pushed all the 25 way back to the wall. But it's not an essential part,</p>	<p style="text-align: right;">Page 112</p> <p>1 that the support member's supposed to fill though; 2 right?</p> <p>3 A I still have plenty of room to stop my joist 4 short in a very clear and practical way, permit my one 5 layer of Claim 40 drywall, and have a bent tab. I -- I 6 see no problem there.</p> <p>7 Q Well, we're not talking about that. We're 8 talking about what this teaches right now, not the 9 installation of the drywall. We're talking about this 10 teaching the support member going all the way to the 11 back.</p> <p>12 And you say, looking at Figure 2, "That's not 13 the case, because I can bend 84." But if I bent 84 14 down, it would take up space that would be occupied by 15 the support member; correct? It wouldn't sit flush with 16 the back plate; right?</p> <p>17 A It would be proud of the back plate by the 18 thickness of the tab.</p> <p>19 Q So then one of ordinary skill in the art, if 20 you wanted to bend this and get it out of the way, 21 wouldn't the optimal direction to go would be do a 180 22 with Tab 84?</p> <p>23 A No, the -- when we look at the artwork for 24 these drawings, and even with the 510 Patent, they're 25 idealized. Lots of lines are straight and fit neatly</p>
<p style="text-align: right;">Page 111</p> <p>1 and the -- the written literature describes how it can 2 be bent out of the way if needed for, as described in 3 the -- the abstract, it says, "for other timber 4 applications" -- "other timber constructions," I should 5 say.</p> <p>6 Q And by "bent out of the way," which way would 7 you bend it?</p> <p>8 A You could bend it straight down, cut it off, 9 or as I suggested before in a combination adaptation, 10 you could extend it further out over the drywall.</p> <p>11 Q Well, we're talking about bending it, so let's 12 stick with bending it. One of ordinary skill in the art 13 who's going to bend Tab 84, which way would you bend it, 14 up or down?</p> <p>15 A Probably -- probably downwards.</p> <p>16 Q Why is that?</p> <p>17 A Get it out of the way if you didn't want it 18 there.</p> <p>19 Q Why wouldn't you bend it upwards?</p> <p>20 A Depending on what other construction is going 21 to occur, there may be horizontal sheathing being 22 installed at that location. There could be other wall 23 framing or beams above. It really depends on what the 24 designer has in mind for that -- that application.</p> <p>25 Q Bending it downward would put it in the space</p>	<p style="text-align: right;">Page 113</p> <p>1 together, but the face of a light frame wall has quite a 2 few little humps and bumps and imperfections.</p> <p>3 So there will be furring strips. There will 4 be nail plates. There will be other little bows and 5 blemishes on the face of wall. If we're talking about 6 just the thickness of Tab 84 folded downwards, I don't 7 know whether the dry wall or the supported member that 8 I've held away cares, and through the eyes of a POSITA, 9 that's not a concern.</p> <p>10 Q Mr. Fennell, I'm going to hand you another 11 sheet of paper, and I'm going to ask you, if you don't 12 mind, to kind of do the same thing that we did with 13 Yamaguchi, and that is, pretend that you've -- with 14 Exhibit 12.</p> <p>15 Pretend that you've got a piece of sheet rock 16 there and draw me the cutout that you would have to make 17 in the drywall in order to utilize Cullen as a firewall 18 hanger after you've installed the hanger first and then 19 do the drywall second.</p> <p>20 Just initial and date it, if you don't mind.</p> <p>21 A Today's the 15th?</p> <p>22 Q Happy tax day. And then that one --</p> <p>23 THE WITNESS: Do you want to put the date 24 on that, Joey? 25 //</p>

1 BY MR. EIDSON:

2 Q Yeah, if you don't mind. You're going to
3 write the date on Exhibit 12. I thought you did that
4 already. Did you write five? I think it's four.

5 MR. MAUCH: No, he's got dots there. Oh,
6 he did write five. I apologize.

7 BY MR. EIDSON:

8 Q Yeah, I --

9 A Oh, it's only April still?

10 Q Yeah.

11 A My bad.

12 Q It's all right. We do know it's tax day, so
13 that -- there we go. Thank you. And I'll take the one
14 that doesn't have an exhibit sticker on it. Yep. Yep.
15 Mr. Fennell, we have labeled your Cullen drywall cutout
16 drawing as Exhibit 13.

17 (Fennell Exhibit 13 was marked for
18 identification.)

19 A You want me to add the wood tab on there as
20 well?

21 Q If you don't mind. And you agree that that is
22 Exhibit 13 is labeled correct?

23 A I do.

24 Q All right. And your Yamaguchi, just for the
25 record, was Exhibit 12, your Yamaguchi drawing?

1 BY MR. EIDSON:

2 Q How long would the tab be in the Cullen
3 drywall that has to be installed?

4 A What's the -- the dimension from the top of
5 wall framing to the bottom of the green extension
6 portion?

7 Q Are you able to approximate a distance or a
8 length? Excuse me.

9 A Assuming the -- this is supporting a -- a
10 two-by member joist coming in from the perpendicular
11 structural component, the height of the green extension
12 flange and then the blue back flange above that would be
13 on the order of three, three and a half inches.

14 Q And how wide would the tab be?

15 A The tab's going to be on the same order as the
16 width of the -- the two-by that I'm assuming is
17 supported in the channel portion. So an inch and a
18 half, normally.

19 Q You agree with me that the longer and thinner
20 the tab is, the more fragile it would be for breakage;
21 correct?

22 A I think that's -- yeah, it's practical to
23 assume.

24 Q And from an installation purpose, what is the
25 practical implication of an installer of drywall who has

1 A Yes. Yes.

2 Q Okay. All right. So looking at the cutout
3 that would be required by Cullen, this too would also
4 create a tab in the drywall; correct?

5 A It would.

6 Q Now, looking at the two slots created by
7 Cullen, would those slots require any additional fill
8 for firewall purposes, or are they sufficiently thin
9 such that they would not?

10 A Could probably go either way, but out of an
11 abundance of conservatism, I would likely detail some
12 additional fire-rated material in there.

13 Q Is that just a matter of personal preference?

14 A I would look the building official and maybe
15 the designer, ultimate designer of record, whether they
16 would want additional material there. I would, you
17 know, belt and suspenders way, prescriptively specify
18 some sort of fire-stopping material in the gap.

19 Q You don't know whether that's required by
20 code. It's just a preference. Is that fair to say?

21 MR. MAUCH: Objection. Lacks foundation.
22 Assumes facts not in evidence.

23 THE WITNESS: No. It was more of a
24 preference that I'm specifying some supplemental
25 treatment of the -- the slot created.

1 made the cuts and then goes to install and has snapped
2 off the tab? What does that mean?

3 MR. MAUCH: Objection. Vague.
4 Incomplete hypothetical.

5 BY MR. EIDSON:

6 Q What do they have to do?

7 A In -- in that situation, they -- the first
8 time they would do it, request for information from the
9 designers, seeking guidance on the correct way to
10 maintain the rating. In a -- in all likelihood, it
11 would just be apply more fire-resistive material,
12 intumescent mastics, or other fire-stopping, just to
13 either on its own fill the gap, or to in some way adhere
14 that piece of sheet rock back in place.

15 I'd have -- I'd rather have, once they broke
16 it off, just to fill the gap with rated material.

17 Q So they'd have to get some additional material
18 and fill a gap?

19 A As they're going to do many other places
20 within eight feet of this location.

21 Q And that takes additional time; right?

22 A It's just part of building firewalls in
23 multi-residential construction or commercial
24 construction that's rated.

25 Q Another option would be they would go back and

<p style="text-align: right;">Page 118</p> <p>1 make another cut and try it again; right?</p> <p>2 A They could do that, yes.</p> <p>3 Q Any other practical implications for snapping</p> <p>4 off the tab from a installation perspective that you can</p> <p>5 think of as one of ordinary skill in the art?</p> <p>6 A On how to do it?</p> <p>7 Q No, what you would have to do if you snapped</p> <p>8 it off.</p> <p>9 A Okay.</p> <p>10 Q We've talked about two things, I think.</p> <p>11 A Yeah, no. Just find a way to fix it that is</p> <p>12 acceptable to the designers and to the building</p> <p>13 inspectors signing off this construction.</p> <p>14 Q You mentioned that your application of Cullen</p> <p>15 or the modified Cullen that you would have would have</p> <p>16 the, I'll call it the bottom stirrup portion to the</p> <p>17 channel-shaped portion; correct?</p> <p>18 A Yes.</p> <p>19 Q For use with joist hangers and firewall</p> <p>20 assemblies?</p> <p>21 A Yes.</p> <p>22 Q Would you need to add more screws to hold the</p> <p>23 joist in as well?</p> <p>24 A I don't think so. I mean, just the -- the</p> <p>25 ones that are depicted in Figure 1 or in my report, the</p>	<p style="text-align: right;">Page 120</p> <p>1 notch.</p> <p>2 Q Mr. Fennell, I'll hand you another blank piece</p> <p>3 of paper, if you don't mind. And just like you have</p> <p>4 with Yamaguchi and with Cullen, if you wouldn't mind</p> <p>5 drawing me the cutout that one of ordinary skill in the</p> <p>6 art would make with respect to Chapin using it in the</p> <p>7 manner you suggest. All done?</p> <p>8 A I think so.</p> <p>9 Q Let me take a look, and we'll get it marked as</p> <p>10 an exhibit. All right, Mr. Fennell, you agree that what</p> <p>11 we have labeled as Exhibit 14 is the cutout that would</p> <p>12 need to be made in the drywall using Chapin as you</p> <p>13 suggest in your report?</p> <p>14 (Fennell Exhibit 14 was marked for</p> <p>15 identification.)</p> <p>16 A Conceptually, yes. I would create something</p> <p>17 far more beautiful for construction.</p> <p>18 THE OFFICER: Sorry. What was that?</p> <p>19 THE WITNESS: I would create something</p> <p>20 far more beautiful for construction.</p> <p>21 BY MR. EIDSON:</p> <p>22 Q Let's look at your report around page 135 and</p> <p>23 136, and we can look at page -- trying to find the best</p> <p>24 picture to ask you a question here. Look at 137 and</p> <p>25 138. My questions are about the collar. Are the back</p>
<p style="text-align: right;">Page 119</p> <p>1 annotated Figure 1s, I believe, show sufficient</p> <p>2 fasteners to secure the joist in the -- the channel</p> <p>3 portion.</p> <p>4 Q Let's look at Chapin next. I'm going to</p> <p>5 direct you to Paragraph 227, and it's the same question</p> <p>6 that I've had before. Mr. Fennell, in this paragraph,</p> <p>7 you opine that "a POSITA would've understood that</p> <p>8 Chapin's extension portion," which you've labeled</p> <p>9 "green," "is configured to extend into one side of the</p> <p>10 drywall and out the other side of the drywall." Do you</p> <p>11 see that, Paragraph 227?</p> <p>12 A Yes.</p> <p>13 Q And what makes that green extension portion</p> <p>14 configured to extend into one side of the drywall and</p> <p>15 out another side?</p> <p>16 A As with the other references, I look at Claim</p> <p>17 40 and look for the ability to permit drywall between</p> <p>18 the channel portion and the back flange plane. When I</p> <p>19 look at the artwork for Chapin at, say, Figure 6, that</p> <p>20 isometric, or Figure 3, a top view, I see no limitations</p> <p>21 on getting a piece of permitted drywall between the</p> <p>22 channel and the -- the back flange plane, other than a</p> <p>23 necessary cutout for the collar shape, 11.</p> <p>24 Q So would your cutout in Chapin create a tab?</p> <p>25 A No. It would be a -- just simply a -- a</p>	<p style="text-align: right;">Page 121</p> <p>1 flanges of Chapin part of the collar?</p> <p>2 A Yes.</p> <p>3 Q So is the back flange merely just the surface</p> <p>4 facing the wall of the collar?</p> <p>5 A What you see in annotated Figure 4 on page</p> <p>6 137, you see blue shaded verticals on the collar? Yeah,</p> <p>7 those are the front face of the -- the back flange. The</p> <p>8 -- the flange continues perpendicular back into the</p> <p>9 page. And it is in fact the -- the full depth of Collar</p> <p>10 11. But the -- the back flange face is that vertical</p> <p>11 that abuts the wall.</p> <p>12 Q But the back flange itself then would be the</p> <p>13 full Collar 11.</p> <p>14 MR. MAUCH: Objection. Misstates</p> <p>15 testimony.</p> <p>16 MR. EIDSON: No?</p> <p>17 THE WITNESS: No, I was talking about the</p> <p>18 verticals.</p> <p>19 BY MR. EIDSON:</p> <p>20 Q Okay.</p> <p>21 A Yeah, yeah. Is what I meant to say. It's --</p> <p>22 yeah. The -- the top and bottom, no, but the -- the two</p> <p>23 verticals, and then those cut edges at the end that abut</p> <p>24 the wall, those are the -- the faces of the flanges, and</p> <p>25 the flanges comes out perpendicular.</p>

<p style="text-align: right;">Page 122</p> <p>1 Q And then just to clarify, do you consider the 2 entirety of the collar the back flange? 3 A I just corrected you to say that it was only 4 the verticals that are the -- the back flange, and that 5 the cut ends adjacent to the wall or abutting the wall, 6 those are the front faces of the -- the flange that lay 7 in that back flange plane. 8 Q So the verticals of Collar 11, they're 9 perpendicular to the wall; right? 10 A Yes. 11 Q Okay. So in your cutout of the drywall, this 12 particular one, it's just essentially a cutout that goes 13 around the entirety of the collar of Chapin; correct? 14 A The depth and the width of Collar 11, yes. 15 Q Okay. And no tabs are created on this one; 16 correct? 17 A Correct. 18 Q You want to take a break? 19 A Sorry about that. 20 Q No, that's all right. 21 A No, I'm good. 22 Q We've been going about an hour and a half. If 23 you want to take five, we can. 24 A No, it's just lunch reminding me how good it 25 was. Perhaps a five-minute break would be good.</p>	<p style="text-align: right;">Page 124</p> <p>1 Q Have you reviewed it in considering any of 2 your opinions in this matter? 3 A [No audible response.] 4 Q Mr. Fennell, we've had a bit of a pause and 5 you've been doing some reading. Do you recall the 6 question that I asked you? 7 A I do. 8 Q Okay. You still need some more time to figure 9 it out? 10 A I think there's two parts to my answer. I've 11 reviewed it at some stage during, as you referred to it, 12 the patent war, but I don't believe I reviewed this 13 edition for this current Claim 40 analysis. 14 Q It's fair to say you've seen this catalog in 15 connection with your professional work outside of this 16 case? 17 A Yes. Yes. As my life as a -- a specifier and 18 a consultant, but also as a -- a lecturer. 19 Q So I -- I want you to turn to page 7 of the 20 catalog, which is on Simpson 3859. 21 MR. MAUCH: That was 859, the last three 22 digits? 23 MR. EIDSON: 3859, yes, sir. Page 7 of 24 the catalog. 25 //</p>
<p style="text-align: right;">Page 123</p> <p>1 THE OFFICER: We are now off record at 2 1:54 p.m. 3 (Off the record.) 4 THE OFFICER: We are now back on the 5 record at 2:08 p.m. 6 MR. EIDSON: I wrote on yours on 7 accident. Sorry. 8 MR. MAUCH: No problem. 9 MR. EIDSON: And if you, for some of 10 these that have two stickers on them, just find another. 11 Don't cover the old sticker, just find another place if 12 you can. 13 THE OFFICER: Okay. 14 MR. EIDSON: I think we're on 15. 15 (Fennell Exhibit 15 was marked for 16 identification.) 17 THE OFFICER: Yes. 18 BY MR. EIDSON: 19 Q Okay. Mr. Fennell, I've handed you what we 20 have marked as Fennell Exhibit 15. It was also Hensen 21 Deposition Exhibit 13, among others. It is a Simpson 22 Wood Connectors catalog 2019/2020, Bates labeled Simpson 23 38533 through 4192. Have you seen this particular 24 catalog before? 25 A Yes.</p>	<p style="text-align: right;">Page 125</p> <p>1 BY MR. EIDSON: 2 Q And do you see the color-coded category of 3 products that is on page 7 on the right hand side? 4 A I do. 5 Q And if you look across to page 6, which is 6 Simpson 3858, you'll see that that subject index has 7 some specific products underneath it. Do you see that? 8 A I do. 9 Q Okay. Looking at whichever side you'd like, 10 the color-coded side or not, I'm going to walk down each 11 category of products and ask you a question about the 12 category of products. Okay? 13 A Sure. 14 Q Just so we're tracking each other. All right. 15 Now, Yamaguchi was to be used with a sill plate; 16 correct? 17 A Yes. 18 Q Cullen was on decking application; right? 19 A Amongst other timber constructions, yes. 20 Q And then Chapin was an extension portion. 21 What was the particular application for Chapin? 22 A It was an extension hanger in the event that a 23 joist that required support was presumably cut short of 24 a wall. 25 Q And it wasn't limited necessarily to timber or</p>

<p style="text-align: right;">Page 126</p> <p>1 any other particular application. Is that fair to say?</p> <p>2 A Right. I mean, it could be other</p> <p>3 constructions, but most likely timber.</p> <p>4 Q Okay. What, if any, area of connector</p> <p>5 products would you not look to in order to try to solve</p> <p>6 the problem that was attempting to be solved by the 510</p> <p>7 Patent?</p> <p>8 MR. MAUCH: Objection. Vague.</p> <p>9 Ambiguous. Incomplete hypothetical. Incomplete</p> <p>10 hypothetical.</p> <p>11 THE WITNESS: It's a big question, and</p> <p>12 I'll break it down into bits about my thought process,</p> <p>13 if that's --</p> <p>14 BY MR. EIDSON:</p> <p>15 Q Sure. And if it's easier, I'm going to use</p> <p>16 these categories on the right-hand side of the page and</p> <p>17 walk through each one and ask you if that's an area that</p> <p>18 you would look to for what I'll call "analogous art" or</p> <p>19 not. Is that maybe an easier way to approach it?</p> <p>20 A No. Let me take a stab at it first, and then</p> <p>21 we'll -- we'll see if your --</p> <p>22 Q And then we'll go down. Okay.</p> <p>23 A We'll see if your list version is needed. We</p> <p>24 are looking to support some structural component in a</p> <p>25 channel-shaped receptacle that is spaced away from a</p>	<p style="text-align: right;">Page 128</p> <p>1 were solutions created using the other ones.</p> <p>2 Q Looking at these categories, you mentioned</p> <p>3 three. Were there other categories that you think in</p> <p>4 that timeframe you would look to for solutions?</p> <p>5 A Well, if it came to structural connectors, in</p> <p>6 their broadest sense, structural connectors are about</p> <p>7 connecting components to form assemblies within systems.</p> <p>8 There's a whole section of my report that talks about</p> <p>9 what the POSITA knew and should have known pre the end</p> <p>10 of 2013.</p> <p>11 And so we get to some of these hangers that</p> <p>12 pass through drywall, penetrate drywall, and still are</p> <p>13 able to transfer structural loads and serve as</p> <p>14 connectors. So things like the hold-downs and tension</p> <p>15 ties, those are often passing through rated assemblies,</p> <p>16 and I would look to them to be part of the field of</p> <p>17 research.</p> <p>18 Yeah, the masonry connectors, I mean,</p> <p>19 similarly, have the ability to pass through sheathing</p> <p>20 and create load path structural connections. Straps and</p> <p>21 ties, we've already found one in -- in even a decking</p> <p>22 application that can transmit structural loads. Even</p> <p>23 the decorative hardware may ultimately be appropriate.</p> <p>24 So at 30,000 feet, I -- I think that answers your</p> <p>25 question.</p>
<p style="text-align: right;">Page 127</p> <p>1 wall sufficient enough to permit drywall and then is</p> <p>2 supported on a -- a supporting wall.</p> <p>3 What I'm looking for is a structural</p> <p>4 connector, most likely a hanger, that then, as I say,</p> <p>5 permits this added layer or layers of sheathing on the</p> <p>6 face of wall. So any of the structural hangers here,</p> <p>7 whether they be for solid SA or for any of the</p> <p>8 engineered wood products, the I joists, the glulams,</p> <p>9 parallams, structure lams, or indeed a plated truss.</p> <p>10 Those are all target-rich environments for</p> <p>11 finding a -- a structural connector that can work for</p> <p>12 the problem that you see, which is support framing that</p> <p>13 permit drywall between the channel and the back flange</p> <p>14 plane.</p> <p>15 From memory, the -- the firewall hangers were</p> <p>16 emerging in this 2012, 2013 timeframe that coincided</p> <p>17 with, in my experience, in my opinion, the need for</p> <p>18 building frame solutions that accommodated taller wood</p> <p>19 buildings in the Type 3 class as opposed to what</p> <p>20 predated that in the -- the Type 5 construction.</p> <p>21 So, yeah, as I said, I -- I looked to the --</p> <p>22 the solid sill and joist hangers and the two categories</p> <p>23 directly below that until we come to this time period</p> <p>24 2013, where the firewall hangers broke into their own</p> <p>25 clear water in the catalogs. But before that, there</p>	<p style="text-align: right;">Page 129</p> <p>1 Q Yeah. I think the only areas you said you</p> <p>2 wouldn't necessarily look to would be concrete</p> <p>3 connectors and anchors, bases and caps, and fasteners,</p> <p>4 leaving out miscellaneous and firewall hangers of</p> <p>5 course; is that right?</p> <p>6 A Right.</p> <p>7 Q Okay. So you agree with me that one of</p> <p>8 ordinary skill in the art wouldn't look to all types of</p> <p>9 structural connectors. It would be refined in some way</p> <p>10 when trying to solve the problem that the 510 Patent was</p> <p>11 tackling?</p> <p>12 MR. MAUCH: Can you repeat that question</p> <p>13 or have it read back, one of the two?</p> <p>14 MR. EIDSON: Sure.</p> <p>15 BY MR. EIDSON:</p> <p>16 Q I just said, you agree with me that one of</p> <p>17 ordinary skill in the art wouldn't look to all</p> <p>18 structural connectors when trying to solve the problem</p> <p>19 that the 510 Patent was solving. It would be refined in</p> <p>20 some way?</p> <p>21 A Yes, it'd be some narrowing, just to try and</p> <p>22 find something that was off-the-shelf that best fit the</p> <p>23 application the -- the designer or the POSITA is trying</p> <p>24 to solve. If I didn't mention hold-downs and tension</p> <p>25 ties before, I meant to.</p>

<p style="text-align: right;">Page 130</p> <p>1 Q You did.</p> <p>2 A Okay. Good.</p> <p>3 Q I've got that checked off.</p> <p>4 Mr. Fennell, I've handed you what has been</p> <p>5 marked as Exhibit 16 and 17. Fennell Exhibit 16 is</p> <p>6 excerpts from the 2000 IBC, and Exhibit 17 excerpts from</p> <p>7 the 2012 IBC. You recognize Exhibit 16 and 17; correct?</p> <p>8 (Fennell Exhibit 16 and Exhibit 17 were</p> <p>9 marked for identification.)</p> <p>10 A I do.</p> <p>11 Q You're familiar with these excerpts as I've</p> <p>12 handed them to you?</p> <p>13 A Yes.</p> <p>14 Q Okay. Traditionally, for a standard wall</p> <p>15 that's not a firewall, the truss or joist is butted</p> <p>16 directly up against the wall or or the supporting</p> <p>17 member; right?</p> <p>18 MR. MAUCH: Objection. Incomplete</p> <p>19 hypothetical.</p> <p>20 THE WITNESS: If you're talking about</p> <p>21 where the support condition for the supported member is</p> <p>22 coming in perpendicular at an angle.</p> <p>23 MR. EIDSON: Yes, sir.</p> <p>24 THE WITNESS: To the supporting wall,</p> <p>25 then yes, it gets up close to and personal to the</p>	<p style="text-align: right;">Page 132</p> <p>1 MR. MAUCH: Objection. Vague.</p> <p>2 THE WITNESS: Certainly, since year 2000,</p> <p>3 there have been two-hour rated walls prescriptively</p> <p>4 specified in the model codes.</p> <p>5 BY MR. EIDSON:</p> <p>6 Q Well, let's look at it. Let's go to Fennel</p> <p>7 Exhibit 16, which is the 2000 code. And if you want to</p> <p>8 look at page 98, and there I'm in section 705.4</p> <p>9 A Okay.</p> <p>10 Q And so you agree with me that since at least</p> <p>11 2000, the IBC has required this same sort of firewall</p> <p>12 construction for the type of constructions that we saw</p> <p>13 in the 2012 code since at least 2000; correct?</p> <p>14 A Yes.</p> <p>15 Q And do you agree with me that prior to the</p> <p>16 2000 IBC, that -- well, let me ask you this. Are you</p> <p>17 familiar with other national building codes, like the</p> <p>18 UBC, or the SBC, or the NBC?</p> <p>19 A I am.</p> <p>20 Q Okay. Or, or even the NFPA has their own</p> <p>21 code, I think.</p> <p>22 A They tried, if you're referring to NFPA 5,000.</p> <p>23 Q But prior to this 2000 code, you agree with me</p> <p>24 that the UBC, the SBC, and at least the NBC all had</p> <p>25 similar fire-resistant rating separation requirements as</p>
<p style="text-align: right;">Page 131</p> <p>1 supporting wall, whether it be in a hanger or whether it</p> <p>2 is supported on the top of the wall.</p> <p>3 BY MR. EIDSON:</p> <p>4 Q And then if you look at Exhibit 17, and let's</p> <p>5 look at page 118 of the exhibit, section 706.4.</p> <p>6 MR. MAUCH: Can you repeat the page</p> <p>7 number of Exhibit 17?</p> <p>8 MR. EIDSON: Yeah, it's 118.</p> <p>9 MR. MAUCH: Thank you.</p> <p>10 MR. EIDSON: And it's section 706.4</p> <p>11 BY MR. EIDSON:</p> <p>12 Q Let you know when you're there, Mr. Fennell.</p> <p>13 A I am there.</p> <p>14 Q Okay. You're familiar with this section;</p> <p>15 correct?</p> <p>16 A I am.</p> <p>17 Q All right. And this section specifies that</p> <p>18 the walls separating units of specific types of</p> <p>19 structures, like residential Group R-1 or Group R-2,</p> <p>20 which are apartment houses, et cetera, must meet a</p> <p>21 two-hour firewall rating; correct?</p> <p>22 A Within this section, yes.</p> <p>23 Q Okay. And this type of firewall requirement</p> <p>24 has been in existence since at least the 2000 IBC;</p> <p>25 correct?</p>	<p style="text-align: right;">Page 133</p> <p>1 seen here in this 2000 IBC?</p> <p>2 A Yes. It's important you use the word</p> <p>3 "separation" there, 'cause that's a concept in fire</p> <p>4 codes that if you have a number of units connected above</p> <p>5 the second floor, once you get above a certain area,</p> <p>6 you're required to have a separation wall.</p> <p>7 And that's where these two-hour rated walls</p> <p>8 would traditionally come into play, would be to fool the</p> <p>9 building into thinking it's two separate structures, and</p> <p>10 that you -- you have the concept of fire separation in</p> <p>11 Type 5 and then looking forward into Type 3 as that</p> <p>12 became more popular.</p> <p>13 Yeah, the -- the two-hour-rated separation</p> <p>14 wall was, yeah, more common in multi-residential</p> <p>15 construction.</p> <p>16 Q And the method of using two layers of drywall,</p> <p>17 especially two layers of five-eighths drywall as a way</p> <p>18 of constructing that two-hour rating was something that</p> <p>19 was common in the 2000 IBC and mentioned in the 2000</p> <p>20 IBC; right?</p> <p>21 If you look at page 126, looking in the table</p> <p>22 on the bottom of page 126, talks about using two layers</p> <p>23 of five-eighths Type X gypsum wallboard on each side of</p> <p>24 the studs. It's mentioned in other places as well.</p> <p>25 A Right. And these listed assemblies and the</p>

<p style="text-align: right;">Page 134</p> <p>1 ones in the gypsum manuals and other places that 2 designers would look to, POSITAs would look to for 3 solutions, generally two layers of five-eighths to get to 4 the two layer -- to the two-hour endurance. 5 But there's -- there's a number of different 6 listings here that would get you to a prescriptive 7 two-hours that was tested somewhere since the 1950s. 8 Q You agree with me that the using five-eighths 9 drywall to achieve that rating was also found in the 10 2012 IBC? 11 A Yes. 12 Q Page 157 if you want to look, or you probably 13 have it memorized, but -- 14 A No. I'm good. I think what is the footnote 15 that's missing at the bottom here is that most of the 16 practice leading up to 2010, or at least after the 17 credit crisis put a halt on construction here in the 18 United States, most fire construction had repetitive 19 framing running parallel to the common walls and the 20 area separation walls. 21 The need to go perpendicular wasn't that 22 frequent, but as the allowable height of light frame 23 construction changed to beyond 50 feet to 65 feet, 24 that's when designers really felt this need to start 25 changing up the directionality of their repetitive</p>	<p style="text-align: right;">Page 136</p> <p>1 light frame construction code changed in the 2000s. In 2 other places, like California, it was a little more of a 3 gradual process and didn't take effect till 2009; is 4 that correct? 5 A That's correct. So when -- by the time 6 designers, and this is my own personal experience, 7 started feeling the need to solve a different problem in 8 the direction of framing, it really wasn't until 2011, 9 2012 that those plans that make it -- made it to 10 construction, and they'd been permitted and were ready 11 to build. 12 Q But that's your experience here in California; 13 right? 14 A Right. But I was also on other light frame 15 committees and writing papers around the country that 16 you just hear the practitioners moaning and groaning 17 about what they can and cannot do with the newer codes. 18 Q How many projects -- or I guess your 19 licensures are on your resume; correct? 20 A They are. 21 Q All right. Are you licensed anywhere in the 22 Midwest? 23 A Not beyond Nevada, no. 24 Q Licensed anywhere on the East Coast? 25 A No.</p>
<p style="text-align: right;">Page 135</p> <p>1 framing, and a lot more perpendicular construction 2 emerged. 3 Q And when did that allowable height of wood 4 frame construction change? 5 A Well, here in California, it came in with 6 adoption of -- ultimately adoption of CBC 2009, I 7 believe. California didn't adopt the IBC as its State 8 code for a while. We missed a few cycles, but once we 9 did pick up that IBC as part of the California code, 10 then that was attractive to start building 60-foot-high 11 wood frame structures. 12 And we see the need to solve the problem, as 13 you say, that had framing coming in perpendicular to 14 walls with drywall on it. 15 Q And you said in California that was adopted in 16 2009; is that correct? 17 A I believe it was the 2009 IBC. 18 Q Was it adopted in other jurisdictions before 19 that? 20 A It varied state by state, and some states did 21 actually adopt IBC 2000, but anywhere in high seismic, 22 we're trying to figure out how to get the loading code 23 reconfigured for this IBC world, it -- it took a while, 24 took a few code cycles. 25 Q So in some states, the allowable height of</p>	<p style="text-align: right;">Page 137</p> <p>1 Q Okay. And when I said Midwest, I was going to 2 go across the state, but is Nevada the furthest east 3 that your licensures take you? 4 A For my engineering licenses. So as I say, 5 I've had this building inspectors certificate for 30 6 years, and that was national, and it involved all the 7 codes, but again, it was always -- I always sort of 8 stayed with the West Coast practice. 9 Q And that's predominant? A predominant amount 10 of your experience has been obtained; is that fair to 11 say? 12 A Yes. 13 Q If you look back at the 2000 IBC, look at page 14 98. You agree that in -- I'll let you get there. I'm 15 sorry. And I'm going to look at Paragraph 705.6. 16 A Yes. 17 Q You agree that in 2000, the IBC specified that 18 fire-resistant partitions must have vertical continuity 19 extending from the foundation to the roof of the 20 structure? 21 A That's what part of the paragraph says. But 22 as with all things wood frame, it tends to be the -- the 23 code by footnote, code by exception. So you know here, 24 it's -- in 705.6, it's talking about firewalls extending 25 from the foundation to a point 30 inches above the roof.</p>

<p style="text-align: right;">Page 138</p> <p>1 So we used to see parapets, little fins sticking up 2 above the roof line wherever there was a area separation 3 wall that was breaking the building up into separate 4 parts. 5 But there was also down in the exceptions, you 6 can see there are different ways of preventing the fire 7 from jumping from one unit to the next by jumping over 8 at the roof line. If you create returns that are 9 horizontal returns, either at ceiling line, underside of 10 rough sheathing, or at what would be called the floor of 11 an attic, that you can create a -- a return to stop fire 12 from jumping across a -- a fictitious property line. 13 Q And you agree with me that, since at least 14 2000, for fire separation walls, it was common for a 15 double layer of five-inch thick drywall installed on a 16 wood frame wall from the floor to either the next level 17 subfloor or to the top level of the structure? 18 A That was a very common adaptation. But as I 19 say, further back in time, there was also the 20 recognition that building officials look for partial 21 collapse to be accommodated on the burn side of the 22 wall. 23 And hence, most designers ran their framing 24 parallel to wall. It wasn't until, as the practice 25 evolved and changed in that, as I said, 2009, 2010, 2011</p>	<p style="text-align: right;">Page 140</p> <p>1 hanger over whatever sheet rock is on the wall for 2 fire-resistivity. 3 Q And another method would've been using some 4 sort of other type of hanger, whether it was custom or 5 for a different application, that was hung and then 6 someone would cut around the drywall; is that right? 7 A Yes. To use another hanger that pre-existed 8 to accommodate the sheet rock required and to make sure 9 that any supplemental detailing was affected, just like 10 you would at a penetration for an outlet, a duct, or a 11 -- a pipe penetration. 12 Q So look at Fennell Exhibit 15, which is the 13 Simpson Strong-Tie catalog. Thinking about this 2000 to 14 2009, '10, '11 timeframe, what type of hanger, just as 15 an example, would've been used instead of what we now 16 have as firewall hangers for this particular type of 17 construction? 18 And if just for ease, there's a table of 19 contents at the front and a product index. I don't know 20 if that helps or not, on page 4 and 5. 21 A To answer your question, I've gone to my 22 actual report, where within the technology sections, I 23 identify hangers that a POSITA might have turned to -- 24 to solve this issue of existing drywall on a framed wall 25 that now needs drywall. And I have drawn reference to a</p>
<p style="text-align: right;">Page 139</p> <p>1 timeframe, that design started to incorporate more 2 perpendicular framing. 3 Q So thinking about how this was done, 2000, 4 2005, California or otherwise that you're familiar with 5 -- if you're not familiar with other locations, that's 6 fine too. But in installing firewalls as prescribed by 7 the 2000 IBC code with the tools that were available to 8 one of ordinary skill in the art at the time, would've 9 required using one, a hanger that just goes over the 10 drywall; right? That's one option for a joist hanger. 11 A Uh-huh. 12 Q Or -- 13 THE OFFICER: Sorry. Is that a yes or 14 no? 15 MR. MAUCH: Just let him ask the 16 question, then that answer. 17 THE OFFICER: Okay. 18 BY MR. EIDSON: 19 Q Did you say "yes" to that? 20 A It was an "uh-huh" -- 21 Q I'm going to take that as -- 22 A -- part way through, but let me let you 23 complete the question. I apologize. 24 Q I'll stop there. That's one way; correct? 25 A Yes. One solution would be to install a</p>	<p style="text-align: right;">Page 141</p> <p>1 -- a Simpson technical bulletin that was put out. 2 It's what I've referred to as Exhibit 45 in my 3 report. Now, those style of hangers that are there were 4 being used by designers in the 2012 timeframe to figure 5 out the -- the drywall problem, as you describe it. 6 Q What hanger was it? 7 A This is described as the -- the MIT or the 8 LBV. 9 Q And is that a hanger that goes over the 10 drywall after the drywall is hung? 11 A It -- it definitely goes over the drywall. 12 Whether it -- the drywall is there or not is installer 13 choice. 14 Q So then the MIT is on page 160 of the catalog, 15 just to help you out, 159, 160. 16 A Right. 17 Q So you were familiar with this particular 18 product being used in the 2000 to 2011 timeframe for 19 installing firewalls and hanging joists? 20 A No. My -- my recollection is -- is specific 21 to either late 2012, during 2013. I specifically recall 22 being in light frame committee meetings where 23 practitioners, colleagues of mine, were bemoaning that 24 they were using these -- these hangers, but because they 25 were having to poke them out over multiple layers of</p>

<p style="text-align: right;">Page 142</p> <p>1 sheathing and wood structural panel, they weren't 2 getting the full value of their top plate nails. 3 So that's where I believe this bulletin was 4 published, to give design guide guidance with the tested 5 capacities to designers to help them over this period. 6 Q Do you have any experience utilizing or 7 specifying these products for particular firewall 8 application? 9 A Only in a retrofit application, but yes. 10 Q And then that was in the 2000-what timeframe, 11 your experience? 12 A Well, I've been fixing drywalls since the late 13 '90s, but for all sorts of penetrations and lack of 14 nails or the wrong size nails. 15 Q And I'm talking about dealing with firewall 16 construction, as we've been talking about in the code 17 here, for multi-level wood frame that has the new 18 requirement that lets you build up another level or two. 19 That's the type of construction I'm talking about. 20 A Right. The recollections I have where beams 21 would be coming in perpendicular to the wall at, say, a 22 -- a stairwell with rated walls, and there's either 23 insufficient something to maintain the rating, and a 24 retrofit has been required. That's my experience. 25 Q And what timeframe was that?</p>	<p style="text-align: right;">Page 144</p> <p>1 halt after the credit crash of 2008-ish. So, you know, 2 as you come out of that, and builders start constructing 3 again, yeah, then -- then we're right there in that 4 2010, 2011 timeframe. 5 Q Got it. 6 A It's hard for me to blow my own trumpet, but I 7 should point out that, you know, even though I'm -- my 8 licenses are all West Coast-centric, all the timber 9 magazines, they're all national. You read all these, 10 the literature, and you see what the practice is going 11 on in the balance of the country. But I -- I just 12 didn't see that issue emerging elsewhere. 13 Q You mentioned some frustrations of, I think, 14 maybe peer groups or industry groups that you were a 15 part of. Was part of that frustration because there was 16 no product in the marketplace that let them take 17 advantage of the construction and the new construction 18 codes, or not so new, pertaining to multi-family wood 19 frame builds that required firewalls? 20 A No. It was more downstream from that. It was 21 the -- the adaptive solutions or what was happening was 22 working on paper in their offices, was working in plan 23 check, and was working in contracting. It was -- maybe, 24 again, it's a West Coast thing, but the forensic 25 litigation that follows West Coast construction was</p>
<p style="text-align: right;">Page 143</p> <p>1 A Primarily with the -- the beams, I mean, that 2 could be any way back to, you know, late '90s, but the 3 older and grayer I get the -- the more I get sucked into 4 that work. But definitely pre the end of 2013. And 5 that's what I -- the basis for my POSITA opinions are, 6 is, you know, what were -- what did folks know who were 7 going to seminars, going to committees, you know, 8 learning how to detail rated walls? 9 What was -- what was there in the literature 10 and in the -- in the practice? 11 Q So we've talked a little bit about the code 12 change in 2000. We looked at the IBC, and I want to 13 know what knowledge you have, and I'll just break it 14 down from 2000 to 2005, about how building professionals 15 were utilizing connector products to take advantage of 16 this code change and make the firewall construction as 17 required. 18 A Yeah, I'm not aware that anybody was actually 19 doing it here in the Western United States. 20 Q Okay. But you don't know about the rest of 21 the United States? 22 A I don't. 23 Q Okay. From '05 to '10, same answer? 24 A It's getting blurry now, but that coincides 25 with all light frame construction virtually coming to a</p>	<p style="text-align: right;">Page 145</p> <p>1 manufacturing an issue, a perceived issue with the 2 solutions that were being used by designers. 3 And again, case by case, construction by 4 construction, one of the issues that was frustrating the 5 designers was that they were being dragged into these 6 alleged claims. 7 Q Are you aware of Simpson customers requesting 8 a firewall hanger that could be hung over two layers of 9 drywall before the drywall was installed? 10 A I'm not aware of what those customers were 11 asking of the salespeople. Yeah, that's -- that's not 12 me. But I believe my own personal belief that the -- 13 the top flange bulletin was issued to provide designers 14 relief with tabulated design values for -- as the title 15 of that document said, it was for hangers over drywall. 16 MR. MAUCH: Mr. Fennell, I know it's 17 getting late in the day. Don't forget to pause before 18 you begin your answers so that I can, if need be, posit 19 an objection. 20 Because I do want to object. Vague to 21 the last question. 22 BY MR. EIDSON: 23 Q It's fair to say that you didn't consider any 24 of Simpson's design or development documentation when it 25 came up with the DU product in reaching your opinion in</p>

<p style="text-align: right;">Page 146</p> <p>1 this case?</p> <p>2 A No, I think you asked me that this morning,</p> <p>3 and I said no.</p> <p>4 Q Okay. And I apologize if I repeat the</p> <p>5 question. Just hang in there. I'm trying not to. In</p> <p>6 your professional opinion, when did you perceive that</p> <p>7 there was a need in the industry for a firewall hanger</p> <p>8 that could be hung -- well, let me back up. I'll ask</p> <p>9 generally, and then we'll go specific.</p> <p>10 When did you see there was a need in the</p> <p>11 industry for a firewall hanger, a specific firewall</p> <p>12 hanger?</p> <p>13 MR. MAUCH: Objection.</p> <p>14 BY MR. EIDSON:</p> <p>15 Q Regardless of its construction.</p> <p>16 MR. EIDSON: Sorry, John.</p> <p>17 MR. MAUCH: Objection. Vague.</p> <p>18 THE WITNESS: As I mentioned before,</p> <p>19 after the credit crunch, after California adopted</p> <p>20 provisions for light frame construction that permitted</p> <p>21 65-foot-tall wood frame buildings, that's when I saw a</p> <p>22 need in the practice for hangers that were more specific</p> <p>23 to that usage that would avoid the plaintiff lawyers out</p> <p>24 in the business and their structural experts.</p> <p>25 //</p>	<p style="text-align: right;">Page 148</p> <p>1 all. You know what? All right.</p> <p>2 All right. Just so we can have a little more</p> <p>3 of an easy conversation about these products,</p> <p>4 Mr. Fennell, I've handed you what we have marked as</p> <p>5 Fennell Exhibit 18, which is also Hensen Exhibit 9. It</p> <p>6 is a DG product flyer from Simpson Strong-Tie. It's</p> <p>7 Bates labeled SST 31977 through 978.</p> <p>8 And then I have also handed you what we have</p> <p>9 marked as Fennell Exhibit 19, which is the DGT product</p> <p>10 literature, copyrighted 2023 from Simpson, and it's</p> <p>11 Bates labeled SST 2_793 through 796.</p> <p>12 And then first of all, you recognize do those</p> <p>13 documents as I've described them as Exhibits 18 and 19?</p> <p>14 (Fennell Exhibit 18 and Exhibit 19 were</p> <p>15 marked for identification.)</p> <p>16 A I do.</p> <p>17 Q Okay. You've seen those before?</p> <p>18 A Yes.</p> <p>19 Q Okay. And then if you want to look at the</p> <p>20 DGF, look at Fennell Exhibit 15, which is the catalog,</p> <p>21 and you can go to page 229 of the catalog. All right.</p> <p>22 The DU is also in the catalog. If you want, I can give</p> <p>23 you that page number, but we'll save that question for</p> <p>24 now.</p> <p>25 So now that you've got the DG, the DGF, and</p>
<p style="text-align: right;">Page 147</p> <p>1 BY MR. EIDSON:</p> <p>2 Q You're familiar with Simpson's line of</p> <p>3 firewall hanger products; correct?</p> <p>4 A Yes.</p> <p>5 Q And it's the DU, the DG, the DGF and the DGT,</p> <p>6 which is the current product?</p> <p>7 A Yes.</p> <p>8 Q Okay. You agree with me that all of those</p> <p>9 products have some sort of an extension portion that</p> <p>10 goes through drywall except the the DU, obviously? So</p> <p>11 let me ask a better question. You agree with me that</p> <p>12 the DG, the DGF, and the DGT all have some sort of an</p> <p>13 extension portion that goes through drywall?</p> <p>14 And you've got the catalog if you want to look</p> <p>15 at them in the catalog. I can point you to pages if you</p> <p>16 want, except the DGT. That's not in this catalog.</p> <p>17 MR. MAUCH: It's a 2019 catalog.</p> <p>18 MR. EIDSON: So much for that.</p> <p>19 BY MR. EIDSON:</p> <p>20 Q I can get you some pictures if you need,</p> <p>21 Mr. Fennell. Just let me know.</p> <p>22 A That would be helpful. Thank you.</p> <p>23 Q Okay. Yep. Again, like I said, some of the</p> <p>24 attorneys in this case have memories about all these</p> <p>25 things, and I don't mean to give you a memory test at</p>	<p style="text-align: right;">Page 149</p> <p>1 the DGT in front of you to hopefully help refresh your</p> <p>2 recollection about those products, my question to you</p> <p>3 was, you agree with me that the DG, the DGF, and the DGT</p> <p>4 all have an extension portion that goes through the</p> <p>5 drywall?</p> <p>6 A Generally, yes. In my mind, I'm taking this</p> <p>7 back to the -- the lens of Claim 40, where it's just</p> <p>8 permit drywall. But that's an easy yes. So, so far, I</p> <p>9 agree with you.</p> <p>10 Q You agree with me that the DG, the DGF, and</p> <p>11 the DGT all allow for installation of drywall after the</p> <p>12 hanger is hung?</p> <p>13 A Well, it could be either way. It could be</p> <p>14 after, or it could be before.</p> <p>15 Q My question was does it allow for it?</p> <p>16 A Yes, that's one of the possibilities.</p> <p>17 Q And then looking at the Bundy product, if you</p> <p>18 would like, page 223, do you see the DU product there?</p> <p>19 Look at page 232. I may have said the wrong page, and</p> <p>20 I'm so sorry, Mr. Fennell. 232 of the catalog, which is</p> <p>21 page 4084 of the Bates number. You see the DU there?</p> <p>22 A I do.</p> <p>23 Q Okay. Very good. And you agree with me that</p> <p>24 this product was designed exclusively to have the</p> <p>25 drywall installed first; correct?</p>

1 A Well, certainly the face-mounted ones do, but
2 the --
3 Q Do you see the installation instructions for
4 the DU? What is the third bullet point down on
5 installation?
6 A Well, it says they're mounted with top
7 flange --
8 Q Third bullet. It's the one above that.
9 A Yeah. Drywall is installed first.
10 Q Okay. So you agree with me that Simpson
11 instructs the users of the DU to install the drywall
12 first; right?
13 A That's what's written there, yes.
14 Q Okay. And you have not seen any instruction
15 from Simpson or otherwise that allows the DU to be
16 installed before the drywall; right?
17 A I haven't seen anything, no.
18 MR. EIDSON: Okay. For a half second,
19 Joe, I thought I misplaced that.
20 MR. MAUCH: I wouldn't have made another
21 copy for you.
22 MR. EIDSON: Nor should you have.
23 BY MR. EIDSON:
24 Q Mr. Fennell, I have handed you what we have
25 marked as Fennell Exhibit 20. It is Bates labeled

1 Fennell 22269 through 2270. This is the February
2 invoice for your work in this matter; correct?
3 (Fennell Exhibit 20 was marked for
4 identification.)
5 A It is.
6 Q Okay. And it looks like all of the time
7 entries on this invoice are essentially up to February
8 13th, which is the day before your expert report was
9 due; correct?
10 A Yes.
11 Q So if I looked at Fennell Exhibits 1 and 2,
12 which were the January and March invoice, and then put
13 in this Fennell Exhibit 20, which is the February
14 invoice, I would have an accurate capture of all of the
15 time that you spent working on your opinions in this
16 matter; correct?
17 MR. MAUCH: And just to be clear for the
18 record, I think it's Fennell Exhibits 2 and 3. The
19 subpoena was Exhibit 1.
20 MR. EIDSON: I will take that correction.
21 Thank you. The objections were Exhibit 1. Yep.
22 BY MR. EIDSON:
23 Q So Fennell Exhibits 2 and 3 plus Exhibit 20.
24 A Yes. This gets real close to capturing the
25 amount of effort in an hourly-basis on this thing. May

1 have left a few hours on the -- on the floor, but this
2 is the ballpark.
3 Q Why would you leave a few hours on the floor?
4 A There's times where I just don't capture my
5 time or I get interrupted doing something else.
6 Q Do you know who Charlie Cypher is?
7 A I do not.
8 Q Do you know who Roger Dankel is?
9 A I do not.
10 Q Do you know who Steve Rotzin is?
11 A I do not.
12 Q It's fair to say if I ask if you know who
13 these people are and you don't that you have never
14 spoken with them; correct?
15 A Highly unlikely.
16 Q Right. You have experience designing wood
17 frame connectors; is that right?
18 A I do.
19 Q Okay. Do you have experience designing
20 pre-engineered structural connectors?
21 A Yes. My old office at Scientific Construction
22 Labs, we provided laboratory testing and design services
23 to help folks creating structural and non-structural
24 connectors and bracing for hospitals applications. We
25 would test out new products for the clients, break them,

1 figure out how to improve them. Get to the --
2 Q Sorry. I thought you were done.
3 A No, we can get to the point where we could
4 write an engineering report that would be submitted to
5 OSHPODS -- OSHPODS, the California folks that govern
6 construction out here. Quite rigorous in their job.
7 Q And just so we're on the same page, when I
8 say, "pre-engineered structural connector products,"
9 what do you mean by that?
10 A Again, products that transfer loads from a
11 wall or a ceiling to a supported element that have to
12 have a particular structural capacity at both gravity
13 and under seismic loads. I have tested, for example, in
14 support of product development and design development,
15 things like patient lift systems in hospitals.
16 Quite a bit of science that goes into
17 attaching to a structural element of a hospital where no
18 yielding is allowed to occur within the connection, and
19 all of the action needs to happen within -- within the
20 extension portion. It'll come down through a rated
21 ceiling and then accept a -- a load, whether it be a --
22 a bed with a patient on it or a member or a piece of
23 equipment.
24 Q Now, I'm not sure we're on the same page. So
25 let me ask. If I say, "one-off connector," have you

<p style="text-align: right;">Page 154</p> <p>1 designed a one-off connector before?</p> <p>2 A Yes. Specialty connectors, yeah.</p> <p>3 Q A specialty connector; right?</p> <p>4 A Yes.</p> <p>5 Q Specific use for a specific application for a</p> <p>6 specific customer. Does that sound fair?</p> <p>7 A Or for our own designs that -- yeah, for</p> <p>8 example, retrofitting balcony decks, trying to figure</p> <p>9 out how to attach a guardrail that's over here that's</p> <p>10 now been strengthened to then pass through some</p> <p>11 sheathing and attach to a wall beyond.</p> <p>12 There may not be a specialty. I mean, there</p> <p>13 may not be an off-the-shelf connector to take one, adapt</p> <p>14 it for use, and therefore, it becomes a specialty</p> <p>15 structural connector for that particular design.</p> <p>16 Q And I contrast that type of structural</p> <p>17 connector design with a pre-engineered design as</p> <p>18 something different. Do you?</p> <p>19 A Not really. I mean, if you're talking about</p> <p>20 going into mass production, and -- yeah. Then, you</p> <p>21 know, manufacturing them for the general public to be</p> <p>22 sold at a big box store, and so far none of my designs</p> <p>23 have been picked up for that.</p> <p>24 Q Okay. And that's kind of what I was getting</p> <p>25 at. Have you done any designs that are outside of the</p>	<p style="text-align: right;">Page 156</p> <p>1 A I prepared these reports, and I have been</p> <p>2 reading back these things into short-term memory. I</p> <p>3 have met with Counselor Mauch. I think that's it. I</p> <p>4 mean, I mentioned I had read rebuttal materials from</p> <p>5 Professor Serrette and read his draft deposition</p> <p>6 transcript. I think that's all I can think of right</p> <p>7 now.</p> <p>8 Q Did you meet with anybody else other than</p> <p>9 Mr. Mauch in preparing for your deposition today?</p> <p>10 A I've been in webinar with Glenn Taylor, my</p> <p>11 colleague in committee.</p> <p>12 Q Anything else?</p> <p>13 A No. I -- I think that's it.</p> <p>14 MR. EIDSON: All right. Why don't we do</p> <p>15 this? I seem to be missing something, but I'm also</p> <p>16 almost near the end. Can we take five minutes? And I</p> <p>17 believe with that five minutes, we might be done before</p> <p>18 four o'clock, thus upholding my promise. Does that</p> <p>19 work?</p> <p>20 MR. MAUCH: That works for me.</p> <p>21 MR. EIDSON: All right.</p> <p>22 THE OFFICER: We are now off the record</p> <p>23 at 3:24 p.m.</p> <p>24 (Off the record.)</p> <p>25 THE OFFICER: We are now back on the</p>
<p style="text-align: right;">Page 155</p> <p>1 one-off application or the very specific application?</p> <p>2 A Other than my structural connectors for anchor</p> <p>3 bolts and rod tiedowns. Those tend to be featuring in</p> <p>4 virtually every building now, where a research project</p> <p>5 that I led reestablished code values for anchor bolts to</p> <p>6 be used in a code change proposal. Those things</p> <p>7 ubiquitous.</p> <p>8 Q Did you design the bolt itself?</p> <p>9 A We used an existing bolt and then went through</p> <p>10 the code change proposal to adjust the values back to</p> <p>11 where they'd been previously in the face of new code</p> <p>12 provisions.</p> <p>13 Q And so my question relates to product design</p> <p>14 specifically. Have you done any specific product design</p> <p>15 and development beyond a one-off or specialty connector?</p> <p>16 A When I say one-off, there might have been --</p> <p>17 for that project, there might have been hundreds of</p> <p>18 locations where it was used or retrofitted. But I think</p> <p>19 generally, no.</p> <p>20 Q Do you have any patent applications?</p> <p>21 A I do not.</p> <p>22 Q Or issued patents?</p> <p>23 A That's not me.</p> <p>24 Q What did you do to prepare for your deposition</p> <p>25 today?</p>	<p style="text-align: right;">Page 157</p> <p>1 record at 3:30 p.m.</p> <p>2 BY MR. EIDSON:</p> <p>3 Q All right. Mr. Fennell, we're going to talk a</p> <p>4 little bit about the 510, if you want to pull that out.</p> <p>5 It was Exhibit 8 if you want to reference it, and we're</p> <p>6 going to talk a little bit about Dr. Serwin. All right.</p> <p>7 So you're obviously familiar with MiTek's 339</p> <p>8 patent; correct?</p> <p>9 A I am.</p> <p>10 Q All right. And that particular patent covers</p> <p>11 a method of installation; correct?</p> <p>12 A From memory, yes.</p> <p>13 Q And looking at Claim 40, your opinion is that</p> <p>14 "because Claim 40 does not claim a sequence of</p> <p>15 installation, there can be no commercial success</p> <p>16 attributed to the claimed invention." Is that your</p> <p>17 opinion?</p> <p>18 MR. MAUCH: Objection. Misstates prior</p> <p>19 testimony</p> <p>20 MR. EIDSON: And if that's not your</p> <p>21 opinion, let me know.</p> <p>22 THE WITNESS: No, I'm deferring opinions</p> <p>23 on commercial success evaluation to this Dr. Serwin</p> <p>24 fellow.</p> <p>25 //</p>

<p style="text-align: right;">Page 158</p> <p>1 BY MR. EIDSON:</p> <p>2 Q You chatted with him the day before each of</p> <p>3 your reports were due; correct? You mentioned that in</p> <p>4 your report?</p> <p>5 A Yes. Can you direct me to my paragraph that</p> <p>6 gives that date?</p> <p>7 Q You bet. It's -- give me a second. Got you.</p> <p>8 MR. MAUCH: It's 46.</p> <p>9 MR. EIDSON: Thank you. I had to</p> <p>10 cross-reference it, because I made notes in the old</p> <p>11 version and then -- thank you Joe. I was going to say</p> <p>12 mid-forties, but 46 is spot on.</p> <p>13 BY MR. EIDSON:</p> <p>14 Q Do you see that there, where you say, "On</p> <p>15 February 13, 2025, I had a brief phone conversation</p> <p>16 with Ken Serwin"?</p> <p>17 A Yes.</p> <p>18 Q And you conveyed to him that the capability of</p> <p>19 installing the claim hanger before the drywall is not a</p> <p>20 patented feature of Claim 40. Do you see that?</p> <p>21 A That's correct.</p> <p>22 Q Did you read his report?</p> <p>23 A I did not.</p> <p>24 Q Did you tell him that the geometry of the</p> <p>25 hanger in Claim 40 allowed for the preferred sequencing</p>	<p style="text-align: right;">Page 160</p> <p>1 determine what those attributes were that were a result</p> <p>2 or were attributable to the commercial success?</p> <p>3 A No, no. I -- I just gave him my thoughts as a</p> <p>4 POSITA and my understanding of Claim 40 limitations.</p> <p>5 Q Did you talk to him about the extension</p> <p>6 portion found in Claim 40?</p> <p>7 A I -- I, yeah, described the actual language</p> <p>8 and how I understood it that's in Claim 40.</p> <p>9 Q Did you describe methods of installation of</p> <p>10 the hanger and drywall to Mr. Serwin?</p> <p>11 MR. MAUCH: Hold on.</p> <p>12 Objection. Vague.</p> <p>13 You may answer.</p> <p>14 THE WITNESS: Nothing but what -- beyond</p> <p>15 what I've already told you.</p> <p>16 BY MR. EIDSON:</p> <p>17 Q And I'm looking for the full I spectrum of</p> <p>18 specific information that you conveyed to Mr. Serwin, so</p> <p>19 I apologize that I'm gilding the lily a bit here. But</p> <p>20 so far, your testimony is that you told him, and please</p> <p>21 correct me if I'm wrong, that the ability of installing</p> <p>22 the hanger before drywall is not a patented feature of</p> <p>23 Claim 40; correct?</p> <p>24 A Correct.</p> <p>25 Q Okay. What else did you tell him about Claim</p>
<p style="text-align: right;">Page 159</p> <p>1 of installation?</p> <p>2 A I merely confirmed that it permitted drywall</p> <p>3 between the channel-shaped portion and the back flange</p> <p>4 plane.</p> <p>5 Q You didn't discuss any other attributes or</p> <p>6 limitations of the claim with him?</p> <p>7 MR. MAUCH: Objection. Vague.</p> <p>8 THE WITNESS: I mean, short of reading</p> <p>9 you in Paragraph 46, that's what I did do with Dr.</p> <p>10 Serwin at the time.</p> <p>11 BY MR. EIDSON:</p> <p>12 Q Did he tell you that economic success was</p> <p>13 attributable to something other than what's found in</p> <p>14 Claim 40?</p> <p>15 A He must have. That's what I've written there,</p> <p>16 but as I say, I don't have a recollection of it, and</p> <p>17 I've deferred that evaluation economic success analysis</p> <p>18 to -- to him.</p> <p>19 Q What did he tell you that the success was</p> <p>20 attributable to of the MiTek firewall hanger?</p> <p>21 A I -- I don't recall any specific attributes</p> <p>22 here. It just says, "With a result of economic</p> <p>23 attributes other than the patented feature." So I -- I</p> <p>24 don't know.</p> <p>25 Q Did you work with them to make any effort to</p>	<p style="text-align: right;">Page 161</p> <p>1 40?</p> <p>2 A Everything that's in Paragraph 46 and no more.</p> <p>3 It was a brief discussion, just 15 minutes, tops.</p> <p>4 Q Did Mr. Serwin convey to you the basis for his</p> <p>5 opinion that the success achieved by the products</p> <p>6 embodied by the patented feature were not attributable</p> <p>7 to Claim 40?</p> <p>8 A He mentioned it, but I didn't ask or inquire</p> <p>9 why there were the basis for his opinions.</p> <p>10 Q Did he just tell you at a high level that it's</p> <p>11 something else, or did he give you specifics of what it</p> <p>12 might be?</p> <p>13 A As I just told you, it was at a high level.</p> <p>14 He just said something other than the patented feature</p> <p>15 or the -- the sequencing that, in my opinion, is not a</p> <p>16 patented feature.</p> <p>17 Q Did he tell you that the sequencing was</p> <p>18 driving success of the product?</p> <p>19 A I don't recall him telling me that.</p> <p>20 Q Did he ask you specifically if sequencing was</p> <p>21 covered by the claims of the patent?</p> <p>22 A In my positive way, I would've told him that</p> <p>23 it's -- whilst it's possible to do before or after</p> <p>24 installations with this patent, Claim 40 is silent on</p> <p>25 sequence.</p>

<p style="text-align: right;">Page 162</p> <p>1 Q And my question is, did he ask you?</p> <p>2 A In my positive way, I explained it to him. He</p> <p>3 did not ask. I did the telling, and that was the end of</p> <p>4 the discussion on sequencing.</p> <p>5 Q He did not ask. You just did the telling?</p> <p>6 A Yeah.</p> <p>7 Q And I am sorry to be particular here, but how</p> <p>8 does this conversation come up? Counsel arranges a</p> <p>9 call, and then what's the first question? Other than,</p> <p>10 "Hi, how are you," of course.</p> <p>11 A Yeah. I don't think they were pleasantries.</p> <p>12 He -- I believe he led off by just asking about the</p> <p>13 Claim 40 features that involved the connection portion,</p> <p>14 what happened in the extension portion, and then what</p> <p>15 happened at the channel portion.</p> <p>16 I gave my analysis of that, as described here</p> <p>17 in Paragraph 46, and he just said that he was handling</p> <p>18 the -- the other aspects of the product, as far as</p> <p>19 commercial success or other non-POSITA aspects, and it</p> <p>20 was like, fine, but that's outside of my scope. And</p> <p>21 that was the end of the discussion.</p> <p>22 Q Did you walk through the entirety of Claim 40</p> <p>23 with him so he could understand all of the elements of</p> <p>24 the claim?</p> <p>25 A I believe so. We went through Claim 40. I</p>	<p style="text-align: right;">Page 164</p> <p>1 MR. EIDSON: Your counsel may have some</p> <p>2 questions, may not.</p> <p>3 MR. MAUCH: I have just a few questions.</p> <p>4 MR. EIDSON: All right.</p> <p>5 MR. MAUCH: It should not take long.</p> <p>6 EXAMINATION</p> <p>7 BY MR. MAUCH:</p> <p>8 Q But let's look right at that same Paragraph 46</p> <p>9 that we were just focused on, Mr. Fennell. In that last</p> <p>10 sentence of Paragraph 46, are you looking at that,</p> <p>11 Mr. Fennell?</p> <p>12 A I am.</p> <p>13 Q It refers to the relative sales success</p> <p>14 achieved by products that embodied the patented feature</p> <p>15 inclusive of MiTek's FWH line of products and Simpson's,</p> <p>16 DG and DGF line of products. Do you see that?</p> <p>17 A I do.</p> <p>18 Q Was it your understanding that Simpson's DGT</p> <p>19 product embodied the patented feature of Claim 40?</p> <p>20 A Yes.</p> <p>21 Q Simpson's DGT embodies Claim 40?</p> <p>22 MR. EIDSON: Objection. Asked and</p> <p>23 answered.</p> <p>24 THE WITNESS: No as to sequence, yes as</p> <p>25 to extension size to -- to permit drywall.</p>
<p style="text-align: right;">Page 163</p> <p>1 mean, there's -- there's not that many bits and pieces,</p> <p>2 and it was to make sure that -- I believe, to make sure</p> <p>3 that he fully understood what Claim 40 does and does not</p> <p>4 do from a POSITA standpoint.</p> <p>5 Q I apologize if I asked this already. You have</p> <p>6 not read his opinions in this matter; is that right?</p> <p>7 A I have not.</p> <p>8 Q Okay. Are you aware of what they are one way</p> <p>9 or another?</p> <p>10 A I do not, other than he felt that there were</p> <p>11 economic attributes beyond the -- outside of Claim 40.</p> <p>12 Q Did you --and I appreciate that you say the</p> <p>13 entirety of what you've discussed is here in Paragraph</p> <p>14 46. Did you discuss anything else with Mr. Serwin about</p> <p>15 the code, changes in the code, how multi-family timber</p> <p>16 wood frame construction is typically done? Anything</p> <p>17 like that?</p> <p>18 A No.</p> <p>19 Q No background material?</p> <p>20 A Not that I'm aware of.</p> <p>21 MR. EIDSON: Mr. Fennell, I don't have</p> <p>22 any additional questions so I don't think -- I don't.</p> <p>23 Hold on just a second. Make sure I haven't left an</p> <p>24 exhibit in the dark. I have not. Thank you very much.</p> <p>25 THE WITNESS: No problem.</p>	<p style="text-align: right;">Page 165</p> <p>1 BY MR. MAUCH:</p> <p>2 Q Sorry. I frankly don't understand your</p> <p>3 answer.</p> <p>4 MR. EIDSON: Object to the form of the</p> <p>5 question.</p> <p>6 MR. MAUCH: Fair enough.</p> <p>7 BY MR. MAUCH:</p> <p>8 Q Can you look at Exhibit 8? It's the 510</p> <p>9 Patent. Yeah. Okay. So looking at the limitations of</p> <p>10 Claim 40 at the end of the 510 Patent, Exhibit 8, the</p> <p>11 question, so does Simpson's DGT product embody each of</p> <p>12 the limitations of Claim 40?</p> <p>13 A No.</p> <p>14 Q Okay. Why? Which limitation or limitations,</p> <p>15 plural, does it not embody?</p> <p>16 A The DGT has a back flange that does not extend</p> <p>17 down from an edge of the top flange.</p> <p>18 Q Okay. We can move on now. Mr. Fennell, do</p> <p>19 you recall Mr. Eidson asking you questions about how the</p> <p>20 various prior art references disclose an extension</p> <p>21 portion configured to extend through the drywall?</p> <p>22 A I do.</p> <p>23 Q Could you take a look at Paragraphs 27 and 28</p> <p>24 of your report?</p> <p>25 A Okay. I'm there.</p>

<p style="text-align: right;">Page 166</p> <p>1 Q And once you've reviewed 27 and 28, my 2 question will be if you agree with me that those 3 paragraphs contain information regarding the 4 construction of a number of claim terms, including the 5 claim term "configured to extend through the drywall." 6 Do you agree with that? 7 A Yes. These are the claim constructions that I 8 have adopted for the purpose of this analysis, yes. 9 Q Okay. So my question goes to that, but it's 10 more particular. The construction of "configured to 11 extend through the drywall" that's contained in 12 Paragraph 27 and paragraph 28, is that the construction 13 that you applied in forming your opinion in this case? 14 A Yes. 15 Q Okay. Last set of couple questions. Do you 16 recall Mr. Eidson asking you earlier today to draw the 17 drywall cutouts that would be required if the Yamaguchi 18 hanger were installed with drywall? 19 A I do. 20 Q Do you recall in the course of making that 21 drawing for Mr. Eidson that you referred to an annotated 22 figure from Dr. Serrette's rebuttal report regarding 23 validity? 24 A I did. 25 Q And you testified today that you reviewed</p>	<p style="text-align: right;">Page 168</p> <p>1 BY MR. MAUCH: 2 Q As to, when you refer to Dr. Serrette's 3 opinion in connection with use of the Yamaguchi hanger 4 with two sheets of drywall, did you agree with his 5 position? 6 A I recognize -- 7 MR. EIDSON: Same objections. 8 THE WITNESS: I recognize that the second 9 layer of drywall would conform around the hanger and 10 would, in fact, contact the face of framing and would 11 dip behind the thickness of the back flange and the -- 12 the front of the back flange where I've established the 13 back flange plane. 14 But that's equally true of even the 510 15 Patent, where the second you leave the back flange of 16 the hanger, the drywall, by attachment to the framing, 17 bends back behind the front face of the back flange 18 where the plane is. 19 MR. MAUCH: I have no further questions. 20 MR. EIDSON: One follow-up. 21 EXAMINATION 22 BY MR. EIDSON: 23 Q Mr. Fennell, every time you used the word 24 "configured to," or the phrase "configured to" in your 25 report, were you intending to apply the construction of</p>
<p style="text-align: right;">Page 167</p> <p>1 Dr. Serrette's rebuttal report; correct? 2 A I did. 3 Q Do you recall Dr. Serrette providing an 4 opinion regarding whether, based on that drywall cutout 5 for Yamaguchi, the extension portion of Yamaguchi 6 extended through the drywall and was sized to permit 7 drywall between the channel-shaped portion and the back 8 flange plane? 9 A That's my recollection, that if -- if we were 10 talking about a singular layer of drywall, per Claim 40, 11 that Dr. Serrette was on board that the extension 12 portion extended through that drywall. 13 Q That was what you understood from 14 Dr. Serrette's report? 15 A Both his report and his deposition. I believe 16 there was further disagreement from Dr. Serrette about 17 whether, in fact, if you added the second layer of 18 drywall, whether all of that was in front of a -- a back 19 flange plane, but as far as a singular layer, that it 20 was all in that area that was permitted to -- to permit 21 drywall per Claim 40. 22 MR. EIDSON: Objection. Move to strike. 23 Beyond the scope of expert reports, Rule 26, and beyond 24 the scope of cross-examination. 25 //</p>	<p style="text-align: right;">Page 169</p> <p>1 the PTAB? 2 THE OFFICER: Of the what? I'm sorry. 3 MR. EIDSON: Of the PTAB? 4 THE WITNESS: Yes, as written out here in 5 Paragraph 27. 6 BY MR. EIDSON: 7 Q So every time those words appear in your 8 report, you're intending to apply PTAB's construction? 9 A Yes, Counsel. 10 MR. EIDSON: Thank you. 11 THE OFFICER: Okay. And then before we 12 go off the record, would you like to order a copy of the 13 transcripts? 14 MR. MAUCH: Yes. 15 THE WITNESS: No. 16 THE OFFICER: Okay. We are now off the 17 record at 3:51 p.m. 18 (Signature reserved.) 19 (Whereupon, at 3:51 p.m., the proceeding 20 was concluded.) 21 22 23 24 25</p>

CERTIFICATE OF DEPOSITION OFFICER

I, ARIANA CRISAFULLI, the officer before whom the foregoing proceedings were taken, do hereby certify that any witness(es) in the foregoing proceedings, prior to testifying, were duly sworn; that the proceedings were recorded by me and thereafter reduced to typewriting by a qualified transcriptionist; that said digital audio recording of said proceedings are a true and accurate record to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

<%31894,Signature%>

ARIANA CRISAFULLI

Notary Public in and for the
State of California

[X] Review of the transcript was requested.

Veritext Legal Solutions
1100 Superior Ave
Suite 1820
Cleveland, Ohio 44114
Phone: 216-523-1313

April 25, 2025

To: JOSEPH V. MAUCH

Case Name: Columbia Insurance Company, Et Al. v. Simpson Strong-Tie Company, Inc.

Veritext Reference Number: 7228504

Witness: Andrew Fennell Deposition Date: 4/15/2025

Dear Sir/Madam:

Enclosed please find a deposition transcript. Please have the witness review the transcript and note any changes or corrections on the included errata sheet, indicating the page, line number, change, and the reason for the change. Have the witness' signature notarized and forward the completed page(s) back to us at the Production address shown above, or email to production-midwest@veritext.com.

If the errata is not returned within thirty days of your receipt of this letter, the reading and signing will be deemed waived.

Sincerely,

Production Department

NO NOTARY REQUIRED IN CA

CERTIFICATE OF TRANSCRIBER

I, AMANDA DERBY, do hereby certify that this transcript was prepared from the digital audio recording of the foregoing proceeding, that said transcript is a true and accurate record of the proceedings to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

<%29988,Signature%>

AMANDA DERBY

DEPOSITION REVIEW
CERTIFICATION OF WITNESS

ASSIGNMENT REFERENCE NO: 7228504
CASE NAME: Columbia Insurance Company, Et Al. v. Simpson Strong-Tie Company, Inc.

DATE OF DEPOSITION: 4/15/2025
WITNESS' NAME: Andrew Fennell
In accordance with the Rules of Civil Procedure, I have read the entire transcript of my testimony or it has been read to me.
I have made no changes to the testimony as transcribed by the court reporter.

Date _____ Andrew Fennell
Sworn to and subscribed before me, a Notary Public in and for the State and County, the referenced witness did personally appear and acknowledge that:

They have read the transcript;
They signed the foregoing Sworn Statement; and
Their execution of this Statement is of their free act and deed.

I have affixed my name and official seal
this _____ day of _____, 20____.

Notary Public

Commission Expiration Date

<div style="margin-bottom: 10px;"> <p>1 DEPOSITION REVIEW</p> <p>2 CERTIFICATION OF WITNESS</p> <p>3 ASSIGNMENT REFERENCE NO: 7228504</p> <p>4 CASE NAME: Columbia Insurance Company, Et Al. v. Simpson Strong-Tie Company,</p> <p>5 Inc.</p> <p>6 DATE OF DEPOSITION: 4/15/2025</p> <p>7 WITNESS' NAME: Andrew Fennell</p> <p>8 In accordance with the Rules of Civil</p> <p>9 Procedure, I have read the entire transcript of</p> <p>10 my testimony or it has been read to me.</p> <p>11 I have listed my changes on the attached</p> <p>12 Errata Sheet, listing page and line numbers as</p> <p>13 well as the reason(s) for the change(s).</p> <p>14 I request that these changes be entered</p> <p>15 as part of the record of my testimony.</p> <p>16 I have executed the Errata Sheet, as well</p> <p>17 as this Certificate, and request and authorize</p> <p>18 that both be appended to the transcript of my</p> <p>19 testimony and be incorporated therein.</p> <p>20 _____</p> <p>21 Date Andrew Fennell</p> <p>22 Sworn to and subscribed before me, a</p> <p>23 Notary Public in and for the State and County,</p> <p>24 the referenced witness did personally appear</p> <p>25 and acknowledge that:</p> <p> They have read the transcript;</p> <p> They have listed all of their corrections</p> <p> in the appended Errata Sheet;</p> <p> They signed the foregoing Sworn</p> <p> Statement; and</p> <p> Their execution of this Statement is of</p> <p> their free act and deed.</p> <p> I have affixed my name and official seal</p> <p> this _____ day of _____, 20____.</p> <p> _____</p> <p> Notary Public</p> <p> _____</p> <p> Commission Expiration Date</p> </div>	
<div> <p>1 ERRATA SHEET</p> <p>2 VERITEXT LEGAL SOLUTIONS MIDWEST</p> <p>3 ASSIGNMENT NO: 7228504</p> <p>4 PAGE/LINE(S) / CHANGE /REASON</p> <p>5 _____</p> <p>6 _____</p> <p>7 _____</p> <p>8 _____</p> <p>9 _____</p> <p>10 _____</p> <p>11 _____</p> <p>12 _____</p> <p>13 _____</p> <p>14 _____</p> <p>15 _____</p> <p>16 _____</p> <p>17 _____</p> <p>18 _____</p> <p>19 _____</p> <p>20 _____</p> <p>21 Date Andrew Fennell</p> <p>22 SUBSCRIBED AND SWORN TO BEFORE ME THIS _____</p> <p>23 DAY OF _____, 20____.</p> <p>24 _____</p> <p>25 Notary Public</p> <p> _____</p> <p> Commission Expiration Date</p> </div>	