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IN THE UNITED STATES DISTRICT COURT
IN AND FOR THE DISTRICT OF DELAWARE

JAZZ PHARMACEUTICALS, INC.,)	
Plaintiffs,)	C.A. No.
v.)	21-691-GBW
)	
AVADEL CNS PHARMACEUTICALS, LLC,)	
Defendant)	
-----)	
)	C.A. No.
JAZZ PHARMACEUTICALS, INC., et al.,)	21-1138-GBW
Plaintiffs,)	
v.)	
)	
AVADEL CNS PHARMACEUTICALS, LLC,)	
Defendant.)	
-----)	
)	
JAZZ PHARMACEUTICALS, INC., et al.,)	
Plaintiffs,)	C.A. No.
v.)	21-1594-GBW
)	
AVADEL CNS PHARMACEUTICALS, LLC,)	
Defendant.)	

- - - - -
Wilmington, Delaware
Wednesday, February 28, 2024
Trial Day 4
- - - - -

BEFORE: HONORABLE GREGORY B. WILLIAMS
UNITED STATES DISTRICT COURT JUDGE

- - - - -
Michele L. Rolfe, RPR, CRR

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APPEARANCES:

**MORRIS, NICHOLS, ARSHT & TUNNELL LLP
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-and-

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-and-

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For Defendant**

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PROCEEDINGS
(REPORTER'S NOTE: The following jury trial was held
in Courtroom 6B beginning at 8:45 a.m.)

THE COURT: Good morning.

ALL COUNSEL: Good morning, Your Honor.

THE COURT: All right. You may be seated.

All right. So I'm going to deal with the
Rule 50 motions first. Jazz seeks judgment as a matter of
law under Federal Rule of Civil Procedure 50 on several
grounds. First, with respect to Claim 19 of the '782
patent, Jazz seeks judgment as a matter of law with respect
to invalidity. Jazz contends that Avadel has admitted that
the limitations of the claim are met and thus the claim is
not invalid.

With regard to enablement, Jazz contends that
Dr. Charman said that for both patents, the '488 patent and
the '782 patent, that the experimentation necessary would be
extensive. Jazz contends that under the case law, that is
not good enough for Avadel to meet its burden of showing
clear and convincing evidence of undue experimentation.
Therefore, for both invalidity under sections 102, 103, and
112 written description and section 112 enablement in

1 Claim 19, Jazz contends that Avadel has not met its burden
2 and JMOL should be granted. Avadel, in response, contends
3 that it is entitled to pursue theories of invalidity under
4 sections 102 and 103 and invalidity under section 112 in the
5 alternative.

6 Avadel also argues that the standards that apply
7 to invalidity under sections 102 and 103 are different from
8 the standards that apply to written description and
9 enablement under section 112. Avadel contends that there is
10 sufficient evidence of record to support a jury verdict in
11 its favor on invalidity of Claim 19 under sections 102, 103,
12 and/or 112. Among other things, Avadel contends that the
13 evidence presented shows that the data set forth in Allphin
14 2012 concerning the blood plasma levels is unreliable and
15 only partial and that there was data that was withheld from
16 the PTO by Jazz that renders the data provided unreliable
17 for purposes of Jazz's attempt to show possession of the
18 invention.

19 With respect to the other asserted claims of the
20 '782 patent and the '488 patent, which are Claims 7 and 11
21 of the '488 patent, which were dealt with collectively and
22 generally by Jazz concerning enablement, Avadel contends
23 that Dr. Charman's testimony is sufficient evidence of
24 record to support a jury verdict in its favor; that the law
25 does not require an expert to specifically use the words

1 "undue experimentation"; and that the amount of
2 experimentation required to meet the undue experimentation
3 standard is a factual determination for the jury for
4 purposes of enablement.

5 Now, with respect to Jazz's motion for judgment
6 as a matter of law on Avadel's defenses of invalidity under
7 sections 102 and 103, with respect to Claim 19 of the '782
8 patent and the other asserted claims of the '782 patent and
9 the '488 patent, the Court finds that there are genuine
10 disputes of material fact for a jury to decide. Viewing the
11 evidence in the light most favorable to Avadel as the
12 nonmoving party and giving Avadel, as the nonmovant, the
13 benefit of all reasonable inferences, there is sufficient
14 evidence of record to support a jury verdict in favor of
15 Avadel on those defenses.

16 With respect to Jazz's motion for judgment as a
17 matter of law on Avadel's defenses of invalidity under
18 section 112 lack of written description and section 112 lack
19 of enablement, with respect to Claim 19 and the other
20 asserted claims of the '782 patent and the '488 patent, the
21 Court finds that there are genuine disputes of material fact
22 for the jury to decide. Viewing the evidence in the light
23 most favorable to Avadel as the nonmoving party and giving
24 Avadel, as the nonmovant, the benefit of all reasonable
25 inferences, there's sufficient evidence of record to support

1 a jury verdict in favor of Avadel on those defenses.

2 Next moving to Jazz's motion for judgment as a
3 matter of law on infringement. Jazz moves for judgment as a
4 matter of law under Rule 50 on the issue of infringement of
5 the asserted claims of the '782 patent and the '488 patent.
6 With respect to the remaining asserted claim of the '782
7 patent, Claim 24 of the '782 patent, Avadel has -- Avadel
8 and Jazz filed a stipulation where Avadel admitted
9 infringement of Claim 24 of the '782 patent to the extent
10 that claim is not found to be invalid.

11 With respect to the '488 patent, Jazz contends
12 that it has carried its burden to show that Lumryz infringes
13 the core limitation and the deionized water limitation of
14 the asserted claims. Jazz also contends that Avadel has not
15 carried its burden of proving by clear and convincing
16 evidence invalidity with respect to the asserted claims,
17 Claims 7 and 11 of the '488 patent and/or Claim 24 of the
18 '782 patent concerning section 102, section 103, section 112
19 lack of written description and section 112 lack of
20 enablement.

21 In response on infringement with respect to the
22 '488 patent, Avadel contends that it has presented the jury
23 with ample evidence that Lumryz does not have a core that
24 contains drug. Avadel contends that the testimony of the
25 experts as well as the figures and text in Avadel's patents

1 show that Lumryz does not have a core that contains drug.
2 Avadel contends that the purported admissions relied upon by
3 Jazz do not mean what Jazz contends they mean, and there
4 remain genuine disputes of material fact for the jury to
5 decide on those issues.

6 With respect the invalidity of the '488 patent
7 based on enablement, Avadel again contends that it has
8 presented legally sufficient evidence to meet its clear and
9 convincing evidence burden through Dr. Charman and otherwise
10 and that, at the very least, there remains genuine disputes
11 of material fact for the jury to decide.

12 The Court agrees that with respect to the issues
13 of infringement or noninfringement of the '488 patent, the
14 Court finds that there are genuine disputes of material fact
15 for the jury to decide. Viewing the evidence in the light
16 most favorable to the nonmovant and giving the nonmovant the
17 benefit of all reasonable inferences, there is sufficient
18 evidence of record to support a jury verdict in favor of the
19 nonmovant on those issues.

20 Thus, both Jazz's motion for judgment as a
21 matter of law on infringement and, if any, Avadel's motion
22 for judgment as a matter of law on noninfringement are
23 denied.

24 With respect to Jazz's JMOL judgment as a matter
25 of law on Avadel's defenses of invalidity of the '488 patent

1 with respect to lack of written description and/or lack of
2 enablement, the Court finds that there are genuine disputes
3 of material fact remaining for the jury the decide. Viewing
4 the evidence in the light most favorable to Avadel as the
5 nonmovant and giving Avadel the benefit of all reasonable
6 inferences, there is sufficient evidence of record to
7 support a jury verdict in favor of Avadel on those issues.

8 Thus, Jazz's motion for judgment as a matter of
9 law on Avadel's defenses of invalidity of the '488 patent
10 with respect to lack of written description and/or lack of
11 enablement is denied.

12 Moving on to inventorship. Jazz seeks a
13 judgment as a matter of law with respect to Avadel's claims
14 of inventorship or improper inventorship, contending that
15 Avadel has failed to provide sufficient evidentiary basis to
16 support a jury verdict in Avadel's favor on the issue of
17 inventorship with respect to the claims at issue in the '488
18 patent and/or the '782 patent. Jazz points to the testimony
19 of Clark Allphin, Dr. Guillard, laboratory records, and
20 certain exhibits admitted and other evidence to support its
21 argument on the inventorship issue including conception,
22 possession, and derivation with respect to the claims at
23 issue in the '488 patent and the '782 patent.

24 In sum, Jazz contends that Clark Allphin
25 conceived of the invention in or around September 2009.

1 Jazz also argues that the '782 patent is an AIA, American
2 Invent's Act, patent as opposed to the '488 patent, which is
3 a pre-AIA patent, and that all that matters with respect to
4 an AIA patent is who filed first.

5 In response on the issue of
6 inventorship/improper inventorship, Avadel contends that it
7 has presented a legally sufficient basis to support a jury
8 verdict in its favor on inventorship, including that
9 Mr. Allphin did not conceive of the invention in
10 September 2009, as Jazz claims; that Mr. Allphin and others
11 at Jazz did not meet the conception and/or possession
12 requirements; and the evidence shows that Avadel was the
13 true inventor of the invention with respect to the claims at
14 issue in the '488 patent and the '782 patent. Avadel points
15 to certain lab reports and other exhibits, testimony by
16 Mr. Allphin, including admissions that he did not consider
17 himself to be the inventor of Claim 1 of the '782 patent,
18 the testimony of experts about the copying of the language
19 from Avadel's patent application by Jazz, and other evidence
20 to support its argument.

21 With respect to Jazz's argument that the '782
22 patent is an AIA patent and all that matters is who filed
23 first, Avadel responds that inventorship is still a defense
24 post-AIA and it -- and there remains a question for the jury
25 to decide under the circumstances of this case whether the

1 true inventor is Jazz or Avadel. With respect to
2 derivation, Avadel contends the analysis is essentially the
3 same as inventorship and there remains, at the very least, a
4 question for the jury to decide.

5 Having considered the parties' respective
6 arguments and the record, the Court finds that there are
7 genuine disputes of material fact for the jury to decide on
8 the issues of inventorship/improper inventorship and
9 derivation. Viewing the evidence in the light most
10 favorable to Avadel as the nonmovant and giving Avadel, as
11 the nonmovant, the benefit of all reasonable inferences,
12 there is sufficient evidence of record to support a jury
13 verdict in favor of the nonmovant on those issues.

14 Accordingly, Jazz's motion for judgment as a
15 matter of law on the issues of inventorship/improper
16 inventorship and derivation are denied.

17 Moving on to Jazz's motion for judgment as a
18 matter of law on damages. Jazz moves for judgment as a
19 matter of law on damages contending that the only conclusion
20 the jury could reach is that Jazz is entitled to a
21 27 percent royalty rate for past infringement. Jazz points
22 to the expert testimony of Dr. Rainey to support its
23 argument and the fact that Avadel did not cross-examine
24 Dr. Rainey on the appropriateness of the 27 percent royalty
25 rate and did not present a damages expert of its own.

1 Avadel, in response, contends that Dr. Rainey's
2 testimony and his opinion was not as clear-cut as Jazz
3 contends. Rather, Avadel contends that Dr. Rainey's opinion
4 is that depending upon the period of time a reasonable
5 royalty rate could fall anywhere from 3.5 percent to
6 27 percent. Avadel contends that there is a sufficient
7 legal basis to support a jury verdict that 3.5 percent is a
8 reasonable royalty award if infringement is found or
9 anywhere between 3.5 percent and 27 percent reasonable
10 royalty if infringement is found.

11 The amount of the reasonable royalty is a
12 determination for the jury if infringement is found, and
13 thus the issue will go to the jury and the judgment -- and
14 the motion for judgment as a matter of law on damages is
15 denied.

16 Given the parties previously -- given that the
17 parties previously stipulated to infringement of Claim 24 of
18 the '782 patent, if it is found not to be invalid, the
19 motion -- Jazz's motion for judgment as a matter of law of
20 infringement on Claim 24 of the '782 patent, to the extent
21 it is not found to be invalid, is granted.

22 All right. So that deals with the JMOL motions.

23 With respect to the remaining time, let me give
24 you that. All right. Yesterday Jazz used an hour and
25 38 minutes. Avadel used 3 hours and 34 minutes. The Court

1 did not charge either side for the argument and times on the
2 JMOL motions. Thus, Jazz has 2 hours and 48 minutes
3 remaining. Avadel has 4 hours and 23 minutes remaining.

4 Again, remember to consider the time for your
5 closings.

6 All right, anything else we need to deal with
7 before we bring the jury in?

8 MR. CERRITO: A couple of housekeeping matters,
9 Your Honor. I'd like to have one of my new associates
10 present housekeeping matters to Your Honor. He's not
11 admitted to this Court. Defendants don't oppose his
12 presentation, if the Court permits it.

13 THE COURT: Okay. All right. Introduce him to
14 the Court.

15 MR. FERGUSON: Brendan Ferguson for Quinn
16 Emmanuel.

17 THE COURT: Sorry, I didn't hear you.

18 MR. FERGUSON: Brendan Ferguson for Quinn
19 Emmanuel.

20 THE COURT: Good morning, Mr. Ferguson.

21 MR. FERGUSON: Good morning. This morning we
22 have to make a correction for the record for an exhibit that
23 was incorrectly admitted, JTX266 should be PTX266. Thank
24 you.

25 THE COURT: All right.

1 MR. SILVER: Good morning, Your Honor. Dan
2 Silver from McCarter on behalf of Avadel.

3 THE COURT: We're making some progress,
4 Mr. Cerrito might even let Mr. Schuler touch his arm today.

5 (Laughing.)

6 MR. CERRITO: Depends on how the day goes, Your
7 Honor, we'll see.

8 MR. SILVER: Thank you, Your Honor, that was
9 good.

10 So we have no objection to that correction.
11 We'll probably have a number of corrections that we'd like
12 to make as well, but we'll coordinate with chamber staff and
13 do all of that before the exhibits go back to the jury and
14 we go off the record at the appropriate time.

15 I'd like to talk about the discussion we had a
16 sidebar yesterday concerning PTX815, which are the
17 contentions that Jazz used with Dr. Charman. We had the
18 discussion and we said we'd confer --

19 THE COURT: About the truncated --

20 MR. SILVER: Yeah, what would come into
21 evidence. The parties have since conferred and have agreed
22 that PTX815 will not be moved into evidence in any form.

23 THE COURT: Okay. All right.

24 MR. SILVER: Thank you, Your Honor.

25 THE COURT: All right. So PTX815 is not an

1 exhibit.

2 MR. CERRITO: Your Honor, just want to check in
3 on some timing issues, right. We understand the timing we
4 have left, obviously. We have a couple of witnesses, a few
5 witnesses this morning. We think that will take us to
6 roughly about lunch, I don't know how long
7 cross-examinations will go, of course. And then we go into
8 a charge conference.

9 What I'm trying to gauge is are we going to be
10 doing closings today or tomorrow and when are we charging
11 the jury. Obviously, Plaintiffs would prefer the charge
12 comes at the same time as the closings. And to do that, it
13 sounds like Friday is a more logical point of view, from our
14 side. But we wanted to check with Your Honor's preference.

15 THE COURT: So would both sides prefer that
16 closings and charging occur tomorrow?

17 MS. DURIE: From my point of view, Your Honor,
18 we're prepared to proceed whenever we have the time to
19 proceed. So if we're able to get through the testimony, get
20 through the charge conference and we've got sufficient time
21 in the day for both closings today, I think we ought to use
22 the time and go ahead and do that.

23 THE COURT: Okay.

24 MS. DURIE: If we're not in a position to do
25 that, then obviously we're not in a position to do that, and

1 we'll have closings presumably first thing tomorrow.

2 MR. CERRITO: Just again, charging, we prefer it
3 comes with the closings so they are not separated by the
4 evening, so they hear closings, get the charge and go and
5 deliberate.

6 We'd also like the opportunity, obviously we're
7 going to put on some witnesses today, to incorporate that
8 into our closing. Won't have time to do that, obviously,
9 today.

10 THE COURT: All right. So given that you have a
11 couple -- you have how many witnesses?

12 MR. CERRITO: Three, Your Honor.

13 THE COURT: Three witnesses. And, you know,
14 those three witnesses with cross-examination, and then we
15 have to do the charging conference, which, you know, it's
16 unlikely we're going to have enough time to do all of that
17 today, so I think you're probably in good position that it
18 will happen tomorrow. What I will ask the jury is can we
19 start at 9 o'clock tomorrow instead of 9:30.

20 MR. CERRITO: That would be great, Your Honor.

21 THE COURT: But in the event, unexpectedly, we
22 breeze through everything today and we're done with the
23 charge conference -- with everything in the charge
24 conference by, you know, noon, 1 o'clock, we got at least
25 four hours, then that's a different story, but it's unlikely

1 that's going to happen.

2 MS. DURIE: Understood.

3 MR. CERRITO: Mr. Schuler and I hopefully will
4 be able to be noncombative today.

5 THE COURT: All right.

6 MR. SILVER: Your Honor, last thing, just to
7 note for the record about the charge conference. If it's
8 okay with Your Honor, we're going to have some of our more
9 junior team members present argument on the disputed jury
10 instructions at the conference.

11 THE COURT: That's fine.

12 MR. SILVER: Thank you, Your Honor.

13 THE COURT: All right. Anything else?

14 MR. SILVER: One logistical matter, court
15 reporter, it looks like the live stream has turned off.

16 (Discussion held off the record.)

17 (Whereupon, the jury entered the room.)

18 THE COURT: All right. Good morning, ladies and
19 gentlemen of the jury. We're going to continue with the
20 evidence presentation. And the evidence presentation is
21 likely to be concluded today.

22 All right. We'll see where we are. All right.

23 MR. NIMROD: Thank you, Your Honor. Good
24 morning.

25 THE COURT: Good morning.

DIRECT EXAMINATION - ROBERT STOLL

1 MR. NIMROD: Your Honor, Jazz calls its next
2 witness, Mr. Robert Stoll.

3 ROBERT STOLL, having been called on the part and
4 behalf of the State as a witness, having first affirmed to
5 tell the truth, testified as follows:

6 DIRECT EXAMINATION

7 BY MR. NIMROD:

8 Q. Good morning.

9 A. Good morning.

10 Q. Would you please introduce yourself to the jury?

11 A. Hi, my name is Robert L. Stoll.

12 Q. Okay. And would you please explain to the jury your
13 experience with the United States Patent and Trademark
14 Office?

15 A. I worked at the U.S. PTO for 29 years.

16 Q. When did you retire?

17 A. I retired in December 2011.

18 Q. Okay. At the time of your retirement, what position
19 did you hold in the Patent Office?

20 A. I was the commissioner for patents at the U.S. PTO.

21 Q. Okay. How did you obtain that position, commissioner
22 for patents?

23 A. I was appointed by the Secretary of Commerce.

24 Q. Could you explain to the jury what your
25 responsibilities were as the commissioner?

DIRECT EXAMINATION - ROBERT STOLL

1 A. I was responsible for the entire patent corps, that
2 was 8,000 people, including all of the examiners; and
3 examination; and the procedures and processes dealing with
4 examination of patents.

5 Q. Okay. What was your position when you started at the
6 Patent Office?

7 A. I was a patent examiner.

8 Q. Can you explain to the jury what your
9 responsibilities were as a patent examiner?

10 A. Yes, when the applications came in, you review the
11 applications to make sure it comports with all the statutory
12 requirements, which include anticipation, obviousness,
13 written description, and enablement. And if it does, you
14 issue the patent; and if not, you make a rejection, which
15 you communicate to the applicant.

16 Q. Were you ever promoted from a patent examiner to a
17 different position?

18 A. Yes. I was promoted as a supervisory patent
19 examiner.

20 Q. What were your responsibilities in that job?

21 A. I supervised about 15 examiners, and I very closely
22 worked with those that were new, and more sporadically with
23 those that were more experienced.

24 Q. How many years were you an examiner, either beginning
25 or supervisory?

DIRECT EXAMINATION - ROBERT STOLL

1 A. Around 12.

2 Q. Okay. And how many applications did you examine
3 during that time period personally?

4 A. My name appears on 2,000 issued patents as either an
5 examiner or supervisory examiner. And I had many multiples
6 of that that did not issue as patents.

7 Q. During your 29 years in the Patent Office, were you
8 involved in the development of its rules and regulations?

9 A. Yes, very intimately.

10 Q. Okay. And during your time in the Patent Office,
11 were you also involved in the development of the America
12 Invents Act, or the AIA, as we have been hearing in this
13 trial?

14 A. Yes, the legislation itself and the implementation.

15 Q. Okay. Now, you said you retired in 2011. What is
16 your currently employment?

17 A. I'm a partner at Faegre Drinker Biddle & Reath and
18 deputy chair of Intellectual Property Law Group.

19 Q. Okay. And what is the focus of your practice at the
20 law firm?

21 A. I supervise patent prosecution and drafting of
22 applications. I troubleshoot, myself, applications that
23 have run into trouble at the PTO. I do a lot of policy work
24 and a lot of legislative work. And, of course, I testify.

25 Q. So about how many years' experience do you have in

DIRECT EXAMINATION - ROBERT STOLL

1 total in patent prosecution?

2 A. About 41.

3 Q. Okay. Have you ever been qualified in this court as
4 an expert in Patent Office process and procedure?

5 A. A couple of times.

6 MR. NIMROD: Your Honor, Plaintiffs move to
7 qualify Mr. Stoll as an expert witness in the field of U.S.
8 Patent Office practice and procedure.

9 MR. ZUBICK: No objection, Your Honor.

10 THE COURT: All right. Mr. Stoll may testify as
11 an expert on USPTO practice and procedure.

12 MR. NIMROD: Thank you, Your Honor.

13 BY MR. NIMROD:

14 Q. All right. Mr. Stoll, let's go over your overall
15 opinions first. What were you asked to analyze in this
16 case?

17 A. I was asked to look at -- to talk about process and
18 procedure at the Patent and Trademark Office, and
19 particularly about the alleged copying of the claims as it
20 relates to the '782 patent.

21 Q. Under Patent Office practice and procedure, is claim
22 copying permitted?

23 A. Yes.

24 Q. Okay. And why is that?

25 A. Well, as long as you have support in the

DIRECT EXAMINATION - ROBERT STOLL

1 specification as you have it, you can copy claims that are
2 meeting the written description and enablement that's
3 already in the specification.

4 Q. So in your view, why is it fair for the Patent Office
5 to allow someone to copy claims of another person's patent
6 application?

7 A. Well, it's very fair because you're the first
8 inventor, you're the one who disclosed the information to
9 the world, and you should be able to claim it in any manner
10 in which it's supported.

11 Q. Okay. What kind of support is necessary to copy
12 claims, according to Patent Office practice?

13 A. You need to have full written description, that means
14 possession, and you need to have enablement, and that means
15 to teach someone of ordinary skill in the art how to make
16 and use the invention.

17 Q. Okay. And you have to have that before the other
18 person's application?

19 A. That's correct.

20 Q. In your opinion, did the examiner, in connection with
21 the '782 patent, conduct a written description and
22 enablement analysis in connection with the claims that
23 Avadel says were copied?

24 A. Yes, she did.

25 Q. All right. Before we go into the details of that,

DIRECT EXAMINATION - ROBERT STOLL

1 let me direct your -- direct you first to an MPEP section
2 that Mr. Matal, the patent expert for Avadel, testified
3 about.

4 Were you in court for that?

5 A. I was.

6 Q. Okay.

7 MR. NIMROD: Could we please put up DTX499.3.
8 Put up 2001.06(d), please.

9 (Reporter asks for clarification.)

10 MR. NIMROD: D.

11 BY MR. NIMROD:

12 Q. Now, you were in court when Mr. Matal stated that it
13 was his opinion that claim copying is relevant for AIA
14 patents because MPEP section 2001.06(d) requires applicants
15 to tell the examiner they copied claims.

16 Did you hear him say that?

17 A. I did.

18 Q. Under this MPEP section, does it apply to AIA patents
19 in any way?

20 A. It definitely does not.

21 Q. Why do you say that?

22 A. Because it's only related to interferences, and
23 interferences are only available to pre-AIA cases, they are
24 not available to AIA cases.

25 Q. Okay. So there's a section in here that says 37 CFR

DIRECT EXAMINATION - ROBERT STOLL

1 41.202(a). And it appears twice in -- once in each of the
2 two sentences.

3 Do you see that?

4 A. I do.

5 Q. What is that provision?

6 A. That provision relates to interferences, and both
7 sentences are dependant upon that provision.

8 Q. Is there any dispute between you and Mr. Matal that
9 37 CFR 41.202(a) relates to interferences only?

10 A. No.

11 Q. And is there any dispute that that only relates to
12 pre-AIA patents?

13 A. No.

14 Q. Okay. Now, during his testimony, Mr. Matal said, The
15 first sentence up there talks about an older proceeding
16 called "interferences" where you also have to disclose
17 copying.

18 Do you recall him testifying to that?

19 A. I do.

20 Q. And do you agree with that?

21 A. It only refers to interferences.

22 Q. Right, okay. So then he said, "The most important
23 sentence is this second one. And as you can see, it says,
24 The information required, you know, as to the source of
25 copied claims, is material information under the Patent

DIRECT EXAMINATION - ROBERT STOLL

1 Office rules."

2 So where he said "the information required by,
3 you know, as to the source," what was the you know that he
4 left out of that?

5 A. The 37 CFR 41.202(a), which is the interference
6 provisions.

7 Q. Okay. So this second sentence, does it have anything
8 to do whatsoever to AIA patents?

9 A. No.

10 Q. Now, why is this MPEP section still in the
11 regulations under the AIA regime?

12 A. Because there are still interferences at the Patent
13 and Trademark Office.

14 Q. Are there AIA patent applications still pending in
15 the Patent Office?

16 A. There are pre-AIA patent applications still pending
17 at the United States Patent and Trademark Office, and AIA as
18 well.

19 Q. Thank you. Are you aware of 37 CFR 41.202(a) ever
20 being applied to an application that is an AIA application?

21 A. No.

22 Q. Okay. Are you aware of this MPEP section ever being
23 applied to a patent application subject to the AIA?

24 A. No.

25 Q. And in your opinion, did you see Mr. Matal provide

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1 any evidence or examples showing that either the MPEP
2 section or the CFR section has ever been applied to AIA
3 patents?

4 A. No.

5 Q. So in your view, based on your 41 years of
6 experience, is there any requirement under Patent Office
7 procedures to tell an examiner about claim copying for AIA
8 patents?

9 A. No, there is not.

10 Q. Okay. Let's say an examiner were advised for an AIA
11 patent that there were copied claims from another
12 application, how would that impact the examination process?

13 A. Not at all. The examiner is still required to do the
14 enablement and written description analysis of the
15 specifications.

16 Q. Okay. And is the standard -- to be clear, is the
17 standard for written description and enablement any
18 different for copied claims versus noncopied claims?

19 A. No.

20 Q. Okay. Now, Mr. Matal testified to the jury that
21 perhaps, in the situation of copied claims, an examiner may
22 take a closer look at written description.

23 What is your thought on that?

24 A. No. The examiner's always required to analyze the
25 specification to see whether it provides written description

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1 and enablement for the claims that are present.

2 Q. Okay. Now, let's turn to what happened during the
3 examination of the '782 patent. You mentioned earlier that
4 your opinion was that the examiner of the '782 patent
5 conducted the written description and enablement analysis
6 for the claims at issue, right?

7 A. Yes, that is my opinion.

8 Q. And that would include Claim 24?

9 A. That would include all the claims, including
10 Claim 24.

11 MR. NIMROD: All right. Let's turn to,
12 Mr. Lewis, JTX12 at page 122, please. Thank you.

13 BY MR. NIMROD:

14 Q. This is an office action in the prosecution history
15 that I took Mr. Matal to. What tells you that the examiner,
16 in connection with the '782 patent, conducted a written
17 description or enablement analysis?

18 A. Well, you can see in the middle of the page, it has a
19 whole discussion about priority. In order to determine
20 priority -- and that's claiming pendency back to earlier
21 applications -- you need to make a written description and
22 enablement analysis.

23 Q. Okay. Do the rules of the Patent Office require an
24 examiner to conduct written description and enablement
25 analyses in order to make a priority determination?

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1 A. Yes.

2 Q. And they're not allowed then to simply say, I find
3 priority without that analysis, are they?

4 A. No.

5 Q. All right. Let's turn to the next page, please. And
6 if we could just go right there.

7 What was the examiner's priority determination
8 for the '782 patent claims?

9 A. She clearly said, "Therefore, the earliest priority
10 for the claimed subject matter is February 18th of 2016, the
11 effective filing date of 15/047,586," which is one of the
12 parents of the '782 patent.

13 Q. And that's an application filed by Jazz in the chain
14 that led to the '782 patent?

15 A. Yes.

16 Q. Okay. And what does the examiner's priority finding
17 mean with respect to written description and enablement for
18 that application from February of 2016?

19 A. It means that the -- the claims that were filed with
20 the application were fully supported as of February 18th of
21 2016.

22 Q. Okay. So the examiner's determination means that the
23 invention of the claims -- like Claim 24 was there all
24 along, so to speak, since 2016?

25 A. Yes, all of the claims.

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1 MR. ZUBICK: Your Honor, objection. I'm fine
2 with walking through the file history but that question and
3 answer, the last one as phrased, is giving a legal
4 conclusion. If we're talking about the examiner's
5 conclusion, that's one thing, that's not what the answer is.

6 (Reporter clarification.)

7 MR. ZUBICK: Zubick.

8 THE COURT: So I'm going to sustain that, let's
9 just keep it to the examiners' determinations.

10 BY MR. NIMROD:

11 Q. Okay. Mr. Stoll, when an examiner makes a
12 determination about priority, that includes a determination
13 of written description, right?

14 A. Necessarily, yes.

15 Q. And does written description relate to whether or not
16 there was something called possession of the invention?

17 A. Yes, it does.

18 Q. So the examiner's determination regarding this
19 priority date, from February 2016, means she determined what
20 with respect to when Jazz possessed the invention at issue
21 here?

22 A. She determined that as of February 18th of 2016, the
23 applicant possessed the subject matter of the claims.

24 Q. Okay. And that would include Claim 24?

25 A. Yes.

DIRECT EXAMINATION - ROBERT STOLL

1 Q. At the time the examiner made her priority
2 determination, did she have Avadel's '866 patent before her?

3 A. Yes, she did.

4 Q. How do you know that?

5 A. Because it was listed on an information disclosure
6 statement provided by Jazz to the applicant.

7 Q. What is an "information disclosure statement"?

8 A. It's probably the best mechanism to put information
9 in front of the examiner that might form the basis of a
10 rejection at the United States Patent and Trademark Office.

11 Q. Okay.

12 MR. NIMROD: Mr. Lewis, can we turn to page 159
13 at JTX12, please. Let's just highlight the information
14 disclosure statement.

15 BY MR. NIMROD:

16 Q. So what does this title indicate the document is?

17 A. It's an information disclosure document.

18 Q. Okay. And this was submitted by who?

19 A. By Jazz to the Patent Office.

20 Q. Okay.

21 MR. NIMROD: Now, could we highlight this line
22 right here, Mr. Lewis, the first line?

23 BY MR. NIMROD:

24 Q. What is indicated in the line that Mr. Lewis just
25 highlighted?

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1 A. It's indicated that the '866 patent was provided to
2 the Patent and Trademark Office and you can see that the
3 examiner considered it because she initialled next to it.

4 Q. That's these -- the "YZ" here, is that the initials
5 of the examiner?

6 A. They are.

7 Q. Okay. What do the initials mean when you see the
8 examiner's initials?

9 A. That she considered the reference.

10 Q. Okay. So the information disclosure statement is
11 sent with that column blank and then it's up to the examiner
12 to do something with that column?

13 A. That's correct.

14 Q. Okay. And you said she "considered it," what does
15 that mean, "considered it"?

16 A. It means she made a determination that it did not
17 provide the basis for a rejection of claims.

18 MR. NIMROD: If we can look at the bottom of the
19 page, please. Go down. Yes. A little lower, Mr. Lewis,
20 please.

21 BY MR. NIMROD:

22 Q. At the very bottom there's an excerpt here. What
23 does this refer to?

24 A. Well, first of all, that -- if you see the examiner's
25 name there and she provides the date she considered and then

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1 she says, "All references considered except where line
2 through," and she initialled that as well.

3 Q. Did she line through the '866 or did she consider it?

4 A. No, she considered it.

5 Q. All right. Now, Mr. Stoll, you mentioned the AIA
6 earlier and that you were involved in its development at the
7 time when it came to be.

8 A. I did.

9 Q. Okay. How did the AIA change the U.S. Patent system
10 with respect to the date of invention?

11 A. Well, it changed the mechanism for what was given
12 priority. The first inventor to invent was the pre-AIA
13 standard, the first inventor to file was the post-AIA.

14 Q. Okay. As the jury heard in the video, the patent
15 video, said, "Under the America Invents Act of 2011, the
16 filing date will determine who was awarded the patent if
17 there are competing valid applications."

18 Were you in court for that?

19 A. Yes, I was.

20 Q. Okay.

21 MR. NIMROD: Mr. Lewis, could you please go to
22 JTX59 and put up the cover page of the patent.

23 BY MR. NIMROD:

24 Q. This is the Avadel patent; is that right?

25 A. Yes.

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1 Q. Okay. The '866 patent.

2 All right. And what is the earliest priority
3 date that the Avadel patent could have, if we scroll down a
4 little further, right there?

5 A. You can see down in Section 60, which provides the
6 continuing information, that the earliest filing date for
7 Avadel patent is July 22nd of 2016.

8 Q. Okay. Okay. Now, the earliest date for Avadel's
9 patent is July 22, 2016.

10 MR. NIMROD: And now let's go to the JTX6,
11 please. This is the '782 patent and if we can bring up all
12 of the related U.S. application data, please, Mr. Lewis.

13 BY MR. NIMROD:

14 Q. And what was the date the examiner found for Jazz
15 having possession of the invention?

16 A. It was February 18th of 2016.

17 Q. I'm going to pause for one second. It mentions this
18 chain of or series of applications, and then it also says,
19 "now abandoned" for one of them.

20 What is this related U.S. application data?
21 What does that mean when you list these all out like this?

22 A. That's the continuing data, so you file an
23 application and you file a continuing application while that
24 application is still pending and sometimes you have a couple
25 of them.

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1 Q. Okay. And so this one here, for example, says
2 "abandoned."

3 Does that mean under Patent Office practice that
4 you've abandoned the invention?

5 A. It doesn't. It just means that that particular
6 application, you filed a continuation and you continued
7 processing the inventions that were contained in the parent
8 application.

9 Q. So you have one serial number and then you move to
10 the next serial number?

11 A. That's correct.

12 Q. Okay. And that's common practice?

13 A. Yes.

14 Q. Okay. Now, under the AIA first inventor to file
15 system, which application was filed first here, Jazz's or
16 Avadel's?

17 A. Jazz's by five months.

18 Q. Okay. Under the AIA, which party should be awarded
19 the invention?

20 MR. ZUBICK: Objection, Your Honor. That's
21 calling for a legal conclusion.

22 THE COURT: Calling for a legal conclusion.

23 MR. NIMROD: That's fine, Your Honor.

24 THE COURT: Sustained.

25 BY MR. NIMROD:

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1 Q. Okay. Mr. Stoll, let's talk a little bit about your
2 personal practice now.

3 Since 2011, you've been in private practice.
4 Have you ever copied claims into an application for your
5 client that you were prosecuting?

6 A. As long as I had written description and enablement
7 support, yes.

8 Q. Okay. In your own practice for AIA applications,
9 when you copied claims, do you ever identify the source of
10 the claims pursuant to the MPEP Section 2001.06(d)?

11 A. No.

12 Q. And why is that?

13 A. It's not required.

14 Q. And is it relevant to anything in the patent?

15 A. No.

16 Q. Okay. In your own practice, have you ever drafted
17 claims to cover competitor's products?

18 A. Many times.

19 Q. And do you and Mr. Matal agree on that acceptable
20 practice?

21 A. Yes.

22 Q. Okay. And why is it fair to be able to copy
23 claims -- excuse me, to draft claims based on competitors
24 products?

25 A. Because you're the first inventor to provide the

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1 information to the public, you should be able to claim it in
2 any manner that you see fit.

3 MR. NIMROD: Thank you, I'll pass the witness,
4 Your Honor.

5 THE COURT: All right. Cross-examination?

6 MR. ZUBICK: May we approach with binders, Your
7 Honor?

8 THE COURT: Yes.

9 MR. ZUBICK: Thank you. May I proceed, Your
10 Honor?

11 THE COURT: Yes.

12 MR. ZUBICK: Thank you.

13 CROSS-EXAMINATION

14 BY MR. ZUBICK:

15 Q. Good morning, Mr. Stoll.

16 A. Good morning.

17 Q. We've not met before but my name is Marc Zubick and
18 I'm one of the lawyers for Avadel.

19 A. Nice to meet you.

20 Q. Likewise.

21 A. I think.

22 Q. I hope so.

23 You mentioned that your name appears on
24 approximately 2,000 issued US patents.

25 Let me ask you this: Do you know how many

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1 patents issued from the United States Patent Office last
2 year?

3 A. I'm going to estimate about 500,000.

4 Q. Okay. I think that's about right.

5 And do you know how many applications the Patent
6 Office received last year?

7 A. I don't, but I know the backlog exceeds 800,000.

8 Q. Okay. And if you think it's about 500,000 patents
9 issued, logically more than 500,000 applications went in,
10 right?

11 A. It depends on the year.

12 Q. Okay. You said you watched the patent video that was
13 shown to the jury. You were in court for that; is that
14 right?

15 A. I don't remember if I've seen here in this court or
16 if I have seen it before or I saw it -- I just know I have
17 seen it several times.

18 Q. Maybe I misunderstand your testimony, but you've seen
19 that video?

20 A. I have.

21 Q. Okay. I'm going to read you a quote from that video.

22 "In 2012, the PTO received nearly 600,000 patent
23 applications."

24 Any reason to disagree with that?

25 A. No, I don't know the number, but it sounds like it

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1 could be.

2 Q. Okay. You'd agree the job of examining that many
3 applications is challenging, correct?

4 A. That's why we have about 9,000 examiners now.

5 Q. Even with those examiners, that job is challenging,
6 right?

7 A. Yes, it's a good job, it's -- you know, I think most
8 of the patent examiners do a great job, so I don't know what
9 you mean by "challenging." They are there because they like
10 doing it.

11 Q. Okay. Well, I'm going to read you a direct quote
12 from the video that was shown to the jury and you tell me if
13 you agree.

14 "The job of examining so many applications is
15 challenging."

16 A. I believe that was said in the video.

17 Q. Okay. And you agree with it?

18 A. I don't know what was meant by "challenging." I
19 guess it can be challenging for some people.

20 Q. Okay. I think this is an easy one.

21 Someone applies for a patent, they need to be
22 honest with the Patent Office, right?

23 A. Yes.

24 Q. Okay. Good.

25 That's important, to be honest with the Patent

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1 Office?

2 A. Yes.

3 Q. Okay.

4 And the system depends on the people telling the
5 Patent Office the truth, right?

6 A. Yes.

7 Q. Now, you agree that in the course of reviewing the
8 patent, there may be arguments and there may be facts that
9 the examiner is not aware of, right?

10 A. Yes, it's possible.

11 Q. You agree that examiners have a lot of work to do?

12 A. They have work to do. "A lot," I don't know, but
13 they work. They work hard.

14 Q. Okay. I'm going to read you, again, an exact quote
15 from the patent video that was shown to the jury and you
16 tell me if you agree or disagree. Is that okay?

17 A. Yes.

18 Q. All right.

19 "Examiners have a lot of work to do and no
20 process is perfect."

21 Do you agree?

22 A. Yes, I agree with that.

23 Q. Okay. I should just go right to the video. You're
24 more likely to agree with the video than you are with me, I
25 think.

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1 A. There are some things with the video, but...

2 Q. Let's turn to the prosecution of the '782 patent
3 which is the issue in this case, okay?

4 A. Okay.

5 Q. That's what you testified about on direct?

6 A. Correct, in part.

7 Q. Okay. That prosecution of Jazz's '782 patent, that
8 was just between the --

9 In part, okay. That prosecution of Jazz's '782
10 patent, that was just between the patent examiner and Jazz,
11 right?

12 A. Yes, it's an ex parte process, which means it's just
13 between the two.

14 Q. Okay. Avadel wasn't part of that process?

15 A. I don't believe so. I don't believe so.

16 Q. But you reviewed the file history, right?

17 A. I did not see any submission of an IDS by Avadel.

18 Q. In fact, that prosecution, that was not public, so
19 Avadel couldn't have known about it, right?

20 A. That's correct.

21 Q. Okay. And none of Avadel's experts that we've seen
22 in this case, none of them were involved in the prosecution,
23 right?

24 A. Not that I'm aware of.

25 Q. Okay. The examiner didn't have access to expert

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1 testimony, right?

2 A. I don't believe so.

3 Q. But you reviewed the patent history. Did Avadel's
4 expert participate?

5 A. I don't remember all the names of people that were
6 involved, but I don't remember any Avadel person being
7 involved in the prosecution at all.

8 Q. Okay. Is your testimony it's possible that one of
9 Avadel's experts participated in a proceeding that Avadel
10 didn't know about?

11 A. My testimony is that I don't know the people involved
12 and there are lots of names involved, so I don't know.

13 Q. Okay. Patent examiners don't have access to
14 laboratory facilities?

15 A. That's accurate.

16 Q. Okay. You wrote that in your expert report?

17 A. I believe I did. My -- I think I quoted from the
18 MPEP for that.

19 Q. Now, you testified when you spoke to Mr. Nimrod on
20 direct that copying is okay under some circumstances, right?

21 A. As long as you have written description and
22 enablement.

23 Q. You knew right where I was going.

24 You still have to comply with all the statutory
25 requirements, right?

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1 A. That is correct.

2 Q. You don't comply with the statutory requirements, you
3 don't get to copy?

4 A. That, well, you get a rejection and you may figure it
5 out later on, but you -- you would not probably go through
6 right away.

7 Q. Okay. You don't get a patent?

8 A. Not until you convince the examiner you're right.

9 Q. Okay. And you shouldn't get a patent, right?

10 A. Not if you're not meeting the statutory requirements.

11 Q. Okay. The patent system works because inventors are
12 required to describe their inventions in clear and specific
13 terms; is that right?

14 A. That's 112 second, or B, yes, that's a requirement.

15 Q. Okay. Clear and specific terms?

16 A. Yes.

17 Q. Okay. So the jury has heard a lot of about this, but
18 just to be clear, you understand one of the issues in this
19 case is whether Jazz copied Avadel's patent claims into its
20 own patent applications, right?

21 A. I understand that's an issue, yes.

22 Q. Okay. As part of your work in this case, you
23 reviewed the claims of both Jazz's '782 patent and Avadel's
24 '866 patent, right?

25 A. Yes.

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1 Q. That's some of -- that's some of what you talked
2 about with Mr. Nimrod, right, the '866 patent and whether it
3 was disclosed?

4 A. Yes.

5 MR. ZUBICK: Okay. Can we please put up
6 demonstrative DDX-RS-.001, Mr. Jarrett?

7 BY MR. ZUBICK:

8 Q. And just to orient you, Mr. Stoll, on the left, we
9 have Avadel's '866 patent claims; on the right, we have the
10 application that led to Jazz's '782 patent. These are --
11 these are claims you reviewed, and what I've done is I've
12 put some color-coding just to match them up. Make sense?

13 A. Yes.

14 Q. Okay. Now, you used the term during direct when you
15 spoke to Mr. Nimrod "alleged copying," right?

16 A. I did.

17 Q. Okay. As part of your work in this case, you
18 concluded that there were extremely similar claims, right?

19 A. That's true.

20 Q. Okay. Extremely similar, but you didn't conclude
21 that Avadel copied -- sorry, that Jazz copied Avadel's
22 claims, right?

23 A. I didn't because I didn't see that anybody said that
24 they copied the claims.

25 Q. Okay. And, in fact, you testified at your deposition

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1 that you haven't seen anything that makes you convinced that
2 there was, in fact, copying, right?

3 A. I did not see anybody from Jazz saying, We copied the
4 claims. I think that they're very similar. I think I said
5 that in my deposition.

6 Q. You did. But you also said at your deposition under
7 oath that you haven't seen anything that makes you convinced
8 that there was, in fact, copying. That's what you said,
9 right?

10 A. And what I meant was I hadn't seen any admission that
11 there was copying.

12 Q. Okay. And you can talk to Mr. Nimrod on redirect.
13 I'm going to ask you again.

14 Your testimony was, "I haven't seen anything
15 that makes me convinced that there was, in fact, copying."
16 Is that what you said?

17 A. I think that's correct.

18 Q. Okay. Now, you reviewed testimony from Jazz's patent
19 attorney. That's who wrote the claims, right?

20 Mr. Valentine? You saw some testimony from him?

21 A. I did.

22 Q. Okay. And Mr. Valentine said that he referred to
23 Avadel's claims when he drafted Jazz's claims, right?

24 A. I heard that.

25 Q. Okay. After considering that testimony and reviewing

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1 the claims, you haven't seen anything that convinced you
2 there was copying, right?

3 A. Mr. Valentine didn't say he copied the claims.

4 Q. Right. I understand that. He said he referred to
5 the claims.

6 I'm asking you, having read that testimony and
7 looked at these claims, your testimony is that you haven't
8 seen anything that convinced you there was copying by Jazz,
9 right?

10 A. That's correct.

11 Q. Okay. You'd agree with me that when evaluating the
12 patentability of claims, one of the things examiners
13 primarily rely on is information that's provided to them by
14 individuals having a duty of disclosure and duty to make
15 truthful representations, right?

16 A. Yes.

17 Q. That's a direct quote from your expert report, right?

18 A. That's correct.

19 Q. Okay. And that includes inventors who apply for a
20 patent, right?

21 A. Yes, it does.

22 Q. And that also includes their attorneys who prosecute
23 the patent, right?

24 A. And anybody substantially involved in the drafting or
25 prosecution of the application.

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1 Q. Okay. So Mr. Valentine would be included in that
2 list?

3 A. I would think so.

4 Q. Okay. Mr. Allphin would be included in that list?

5 A. I would think so.

6 Q. Okay. As part of your work in this case, you
7 reviewed the prosecution history of Jazz's '782 patent,
8 right?

9 A. I did.

10 Q. You talked to Mr. Nimrod about that on direct?

11 A. I did.

12 Q. Okay. And when you reviewed the prosecution history,
13 you didn't see anything where Jazz told the Patent Office
14 that they copied Avadel's claims, right?

15 A. I did not.

16 Q. Nothing one way or the other, no statement about
17 that?

18 A. I didn't see any words of copying.

19 Q. Okay. And to be clear, it's your testimony Jazz
20 didn't need to tell the Patent Office that, if it was true?

21 A. That -- that is my testimony, yes.

22 Q. Okay. I'm told if I say "MPEP," you won't like it.

23 A. Say what?

24 Q. "MPEP" is not the preferred pronunciation. It's
25 M-P-E-P, right?

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1 A. Correct.

2 Q. Okay. And that is -- you spoke to Mr. Nimrod about
3 that. This is the Manual of Patent Examining Procedure,
4 right?

5 A. It is.

6 Q. Okay. And that's -- we're going to look at it in a
7 minute. That's where that section that you and Mr. Matal
8 disagree about. That comes from the MPEP, right?

9 A. Yes, it does.

10 Q. I immediately went back to it.

11 It comes from the MPEP, right?

12 A. The Manual of Patent Examining Procedure.

13 Q. Okay. The MPEP is binding on patent examiners,
14 right?

15 A. It is binding on patent examiners; it is not binding
16 on applicants unless they're -- with reference to a rule,
17 statute, or case law.

18 Q. It is informative to the attorneys who are
19 prosecuting patents, right?

20 A. It can be.

21 Q. Well, in your expert report, you wrote, "It's
22 informative to patent attorneys," right?

23 A. I think I did, yup.

24 MR. ZUBICK: Okay. Can we please put up page 3
25 of DTX499 in evidence, and let's blow up the 2001.06(d).

CROSS-EXAMINATION - ROBERT STOLL

1 BY MR. ZUBICK:

2 Q. Mr. Stoll, this again -- you spoke with Mr. Nimrod
3 about this. Mr. Matal spoke about in this. This is the
4 section that talks about telling the Patent Office that you
5 copied, right?

6 A. Yes, and it relates to pre-AIA patents, as I said.

7 Q. You did.

8 And your opinion is that because the '782 is not
9 a pre-AIA patent, this section doesn't apply.

10 A. Yes.

11 Q. Okay. And I think you just said this. This section
12 only applies to pre-AIA patents.

13 A. Only applies to pre-AIA that are attempting to
14 establish an interference. It doesn't even apply to pre-AIA
15 where the -- the applicant is not trying to establish an
16 interference.

17 Q. Okay. Understood.

18 Now, the title says, "2001.06(d) Information
19 Relating to Claims Copied from a Patent," and then there's
20 an "R-08.2017."

21 Did I read that correctly?

22 A. Yes, you did.

23 Q. Okay. Nothing in that title mentioned the AIA one
24 way or the other, right?

25 A. No, that's only from the rule.

CROSS-EXAMINATION - ROBERT STOLL

1 Q. Okay. Now, you're aware that there are other
2 sections of the MPEP that call out pre-AIA in the title,
3 right?

4 A. Some do; some don't.

5 Q. Okay. But you've seen some that do, right?

6 A. I have.

7 Q. Okay. Can you turn to the tab labeled "MPEP 2132" in
8 your binder, please. It's just going to be in your binder.
9 It's not going to be on the screen.

10 A. Oh. Turn to where?

11 Q. MPEP 2132.

12 A. Okay. I'm there.

13 Q. Now, this is a section on 35 U.S.C. 102(a), right?

14 A. Where are you? Yes, I see --

15 Q. You see it now?

16 A. I see 2132, yes.

17 Q. That's correct. Okay.

18 So this is a different section of the MPEP,
19 right?

20 A. Yes.

21 Q. Okay. And if you look at it, the title starts
22 "Pre-AIA," right? Those are the first two words?

23 A. Yes.

24 Q. We can quibble if the hyphen makes it one word or
25 two, but the first thing you read on 2132 is "Pre-AIA,"

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1 right?

2 A. Yes.

3 Q. Okay. And if you look below that, there's something
4 that starts "Editor Note." Do you see that?

5 A. I do.

6 Q. Okay. In the editor note, it says, "This MPEP
7 section is not applicable" -- and that's in bold -- "to
8 applications subject to examination under the first inventor
9 to file, FITF, provisions of the AIA..." and then it goes
10 on.

11 Did I read that correctly?

12 A. You did.

13 Q. Okay. So we have a title, it says "Pre-AIA," and
14 "Editor's Note." It says in bold "not applicable." And it
15 mentions the AIA, correct?

16 A. It does.

17 Q. Okay. Looking back up to the screen, the MPEP
18 section 2001.06(d), that's at issue here, does not mention
19 AIA in the title, right?

20 A. It doesn't.

21 Q. Doesn't mention the AIA in an editor note, right?

22 A. It doesn't.

23 Q. It doesn't have an editor note?

24 A. It doesn't need one.

25 Q. Okay. Now, can you go in your binder to tab labeled

CROSS-EXAMINATION - ROBERT STOLL

1 MPEP 2138. Let me know when you're there.

2 A. I am.

3 Q. Okay. And do you see the MPEP section 2138?

4 A. I do.

5 Q. Okay. And this section is titled Pre-AIA. Again,
6 the first word or two words mentions pre-AIA, right?

7 A. It does.

8 Q. Okay. And then it says 35 U.S.C. 102(g), right?

9 A. It does.

10 Q. Okay. Now, pre-AIA 102(g) is the basis for the
11 interference practice we've been talking about, right?

12 A. It is.

13 Q. Okay. So this deals with interferences?

14 Correct?

15 A. Excuse me.

16 Q. This is relevant to interferences, right?

17 A. Yes.

18 Q. Okay. And below the title that starts Pre-AIA,
19 there's an editor note again.

20 Do you see that?

21 A. I do.

22 Q. And it says, "This MPEP section has limited
23 applicability" -- that's in bold -- "to applications subject
24 to examination under the first inventor to file, FITF,
25 provisions of the AIA..." and it goes on, correct?

CROSS-EXAMINATION - ROBERT STOLL

1 A. It does.

2 Q. Okay. That's another section that mentions pre-AIA,
3 both in the title and in the editor note, right?

4 A. It does.

5 Q. And this one deals with interferences?

6 A. It does.

7 Q. It's a statutory basis for interference?

8 A. It is.

9 Q. Okay. MPEP section 2001.06(d) appears as shown on
10 the screen, this is how it looks today in the MPEP, right?

11 A. Yes.

12 Q. Okay. You testified earlier that Jazz disclosed the
13 '866 patent, that's Avadel's patent, to the examiner during
14 the prosecution of Jazz's '782 patent, right?

15 A. I did.

16 Q. You spoke to -- with Mr. Nimrod about that?

17 A. I did.

18 Q. Okay. And you showed that on the screen?

19 A. He showed it on the screen.

20 Q. Fair enough. And you specifically looked at an
21 information disclosure statement, which is called an IDS,
22 right?

23 A. That's correct.

24 Q. And the IDS that Mr. Nimrod showed you had the '866
25 patent, you highlighted it?

CROSS-EXAMINATION - ROBERT STOLL

1 A. It did.

2 Q. Okay. I suppose he highlighted it?

3 A. He did.

4 Q. Okay. That IDS that you discussed with Mr. Nimrod
5 was filed on April 27, 2021, does that sound right?

6 A. I -- yeah, it could be right. I know that she signed
7 it in May, but I --

8 Q. Okay. I want to be precise. So why don't you go to
9 your expert report, which is your binder.

10 A. Got it.

11 Q. I think it's called something pithy like Stoll expert
12 report?

13 A. Yes. I'm there.

14 Q. Okay. If you look at paragraph 78 of your expert
15 report, and if you --

16 A. Yes.

17 Q. -- look, first sentence, on April 27, 2021,
18 "Applicant submitted an IDS which identified Avadel's '866
19 and '986 patents."

20 Do you see that?

21 A. I do.

22 Q. Okay. April 27th, right?

23 A. Yes.

24 Q. Okay. Now, that was not the first IDS that Jazz
25 submitted, right?

CROSS-EXAMINATION - ROBERT STOLL

1 A. No.

2 Q. Okay. And, in fact, Jazz submitted an IDS a week
3 after it filed the application for the '782 patent, right?

4 A. I believe you.

5 Q. Okay. Well, do you believe me or do you know?

6 A. I don't remember when --

7 Q. Okay. Again, I'd like to be precise, so let's take a
8 look at your expert report. And if you look at paragraph
9 74, Jazz filed the application --

10 A. 74.

11 Q. Paragraph 74. Jazz filed the application for the
12 '782 patent on March 23, 2021, do you see that?

13 A. It says on March 23, '21, yeah.

14 Q. Okay. Now look at paragraph 77. It says on
15 March 30th, "applicant submitted an IDS," do you see that?

16 A. I do.

17 Q. Okay. There's going to be a little bit of math here,
18 March 23rd to March 30th is a week, right?

19 A. Thank you. Yes.

20 Q. Okay. Now, just to level set here, the allegation is
21 that Jazz copied Avadel's claims. But regardless, whether
22 Mr. Valentine referred to them or copied them, he filed that
23 application, he had the '866, the Avadel patent in his
24 possession. And a week later he filed an IDS, correct?

25 A. Sounds like it, yes.

CROSS-EXAMINATION - ROBERT STOLL

1 Q. Okay. And the '866 patent, Avadel's patent that
2 Mr. Valentine referred to, that was not disclosed on the
3 first IDS?

4 A. Yeah, that's true.

5 Q. Okay. Now, if you look at your expert report, where
6 you mentioned this first IDS, which is paragraph 78, you
7 don't mention how many references were disclosed on that
8 IDS, correct?

9 A. No.

10 Q. Okay. There were three other IDS's that Jazz
11 submitted to the Patent Office, and for each of those you
12 listed the number of references. Was there a reason you
13 didn't do so for this one?

14 A. No.

15 Q. Coincidence?

16 A. No.

17 Q. Okay. Let's take a look at that IDS.

18 MR. ZUBICK: Can you put up, please, Mr.
19 Jarrett, JTX12 in evidence. And let's go to page 64.

20 BY MR. MR. ZUBICK:

21 Q. So, Mr. Stoll, this is the first IDS that
22 Mr. Valentine submitted a week after he referred to Avadel's
23 claims. And you see on the top left there's 21 pages of
24 this IDS, right?

25 A. Yes.

CROSS-EXAMINATION - ROBERT STOLL

1 Q. Okay. And if you look, there's numbered references,
2 so on this first page there's 30 references, right?

3 A. Yes.

4 Q. Okay. And Mr. Valentine did disclose some Avadel
5 references, you note that in your expert report, just not
6 the '866 patent you referred to, right?

7 A. Yes.

8 Q. Okay.

9 MR. ZUBICK: Can we go to the next page, please.

10 BY MR. ZUBICK:

11 Q. So you got another 30 references on this page, right?

12 A. Yes.

13 MR. ZUBICK: Next page, please.

14 BY MR. ZUBICK:

15 Q. Another 30 on this page, right?

16 A. These look like the references submitted in the
17 parent application and submitted again here.

18 Q. Okay.

19 MR. ZUBICK: Can we go to the next page, please.

20 And the next page, please. Let's go to next page. Again,
21 please. I could keep doing this, but let's go to sheet 21.

22 Can we get to the last page, Mr. Jarrett, 21 of
23 21. Looks like a little bit too far. No, not page 21. So
24 we got to do 64 plus 21, let's go 85, please. One back.

25 Okay. Here we go.

CROSS-EXAMINATION - ROBERT STOLL

1 BY MR. ZUBICK:

2 Q. So this is sheet 21 of 21. This is the last page of
3 the IDS, right?

4 A. Yes.

5 Q. Okay. And there were 332 total references, correct?

6 A. Yes.

7 Q. Okay. Now, you were speaking to -- well, let me
8 first ask you, do you have any idea how many pages total
9 these 332 references make up?

10 A. No.

11 Q. Did you look into that as part of your work on this
12 case?

13 A. No.

14 Q. Okay. Any guess?

15 A. No.

16 Q. A lot?

17 A. I don't know what your definition of a lot is.

18 Q. Fair enough. Do you know the total number of
19 references that Jazz disclosed to the examiner between this
20 IDS and three subsequent IDS's that were filed?

21 A. I know I did at one time but I don't remember the
22 number right now.

23 Q. 350 or so sound right?

24 A. It does sound right.

25 Q. I think that's what Mr. Matal testified to yesterday.

CROSS-EXAMINATION - ROBERT STOLL

1 (Reporter asks for clarification.)

2 MR. ZUBICK: I said 350 or so. I think the
3 number is 374 if I'm being precise.

4 BY MR. ZUBICK:

5 Q. Now, it's your opinion the examiner reviewed and
6 considered all these references, right?

7 A. If the examiner initialled and said that she
8 considered them, it's my opinion and the Office's opinion
9 that she considered the references.

10 Q. Okay. And so that initialling by the examiner, it
11 was electronic initials -- and I don't mean to say there's
12 anything wrong with that -- that's what you're talking
13 about, right?

14 A. Yeah, I used to write it with my own hand but I think
15 now they do that.

16 Q. Okay. Examiners don't always spend the same amount
17 of time reviewing every reference, right?

18 A. They consider it to the same degree that they
19 consider the references that they find on their own.

20 Q. And sometimes an examiner may look at the title of a
21 reference, decide it's not relevant, initial it and move on,
22 right?

23 A. It can happen.

24 Q. And, in fact, the examiner's initials don't tell you
25 to what degree the examiner considered the reference, right?

CROSS-EXAMINATION - ROBERT STOLL

1 A. I think that's true, it doesn't tell you how in-depth
2 she went into it.

3 Q. And you've testified to that effect before, right?

4 A. I probably have.

5 Q. Do you remember if you've testified to that effect
6 before?

7 A. Not specifically, but I believe that, so it's very
8 possible that I testified to that before.

9 Q. Okay. Now, during your direct, you mentioned that
10 the notice of allowance -- strike that.

11 In your expert report, you mentioned the notice
12 of allowance for the '079 patent, right?

13 A. I don't --

14 Q. You don't remember --

15 A. -- I was only focusing on this one.

16 MR. ZUBICK: Can we put up JTX12, pages 230 to
17 231.

18 BY MR. ZUBICK:

19 Q. This is the reasons for allowance for the '782
20 patent, right?

21 A. Yes, there is a reason for allowance section here.

22 Q. There's no mention of any Avadel patent on the
23 reasons for allowance, right?

24 A. It's rare to mention. It happens, but they don't
25 need to --

REDIRECT EXAMINATION - ROBERT STOLL

1 Q. Okay.

2 A. -- explain the reasoning for allowing the
3 application.

4 Q. Right. There is mention, though, of an Allphin
5 patent, you see that?

6 A. I do.

7 Q. No mention of an Avadel patent, right?

8 A. I don't see any.

9 Q. Okay.

10 MR. ZUBICK: Pass the witness, thank you,
11 Mr. Stoll.

12 THE COURT: Okay. Redirect.

13 MR. NIMROD: Can you please put up the first
14 demonstrative you used. Thank you. Thank you very much.

15 REDIRECT EXAMINATION

16 BY MR. NIMROD:

17 Q. Do you recall you were asked about these claims?

18 A. Yes.

19 Q. And the claims that are highlighted here with
20 similarities are Claims 1, 2, and 3 on the right for Jazz's?

21 A. Yes.

22 Q. Okay. And do you recall --

23 MR. NIMROD: You can take that down, please,
24 thank you. Mr. Lewis, can we please put up JTX6. If we go
25 to the last page, it's 0.19, thank you.

REDIRECT EXAMINATION - ROBERT STOLL

1 The first three claims, if you can just bring
2 those up for a second.

3 BY MR. NIMROD:

4 Q. Those are the claims that were on the slide you were
5 shown?

6 A. Yes.

7 Q. Okay. Do you understand that the claim at issue
8 here --

9 MR. NIMROD: If we can go down to Claim 24, Mr.
10 Lewis. Thank you, call that out, please, Claim 24.

11 BY MR. NIMROD:

12 Q. Claim 24 is a claim at issue before the jury, right?

13 A. I believe so.

14 Q. Okay. And did Mr. Matal give any opinions as to
15 whether there were copying the effective Claim 24?

16 A. I didn't hear you.

17 Q. Did Mr. Matal provide any opinions as to whether
18 there was copying for Claim 24?

19 A. No, he did not.

20 MR. NIMROD: Thank you, no further questions.

21 THE COURT: All right.

22 All right. Mr. Stoll, you may step down.

23 All right. Jazz, you may call your next
24 witness.

25 MR. CALVOSA: Your Honor, at this time Jazz

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1 calls Dr. R. Christian Moreton.

2 Richard Christian Moreton, having been called on
3 the part and behalf of the State as a witness, having first
4 affirmed to tell the truth, testified as follows:

5 THE COURT: Dr. Moreton, you may take the stand.

6 MR. CERRITO: Your Honor, may I approach?

7 THE COURT: Yes.

8 DIRECT EXAMINATION

9 BY MR. CALVOSA:

10 Q. Good morning, Dr. Moreton. Can you please introduce
11 yourself to the jury.

12 A. Yes, my name is Richard Christian Moreton.

13 Q. And can you please tell a little bit about your
14 educational background.

15 A. Yes, I have a degree in pharmacy -- an undergraduate
16 degree in pharmacy, a master's in pharmaceutical analysis
17 and a PhD in pharmaceuticals.

18 Q. How many years have you worked in the pharmaceutical
19 field?

20 A. About 45, maybe 46 years.

21 Q. And what type of work have you done?

22 A. I have worked mostly as a formulation scientist, so
23 taking the medicine -- the active drugs and making it into
24 medicine so a patient can take them.

25 Q. And what type of dosage forms have you worked on?

DIRECT EXAMINATION - R. CHRISTIAN MORETON

1 A. I have worked on tablets, hard capsules, soft
2 capsules, suppositories, creams, ointments, oral
3 suspensions, oral solutions and parenteral solutions.

4 Q. Have you held any roles in any professional
5 organizations in your field?

6 A. Yes, I held roles in the American Association of
7 Pharmaceutical Sciences and also at the United States
8 Pharmacopeia.

9 Q. Is that called the "USP" for short?

10 A. Yes.

11 Q. Have you won any awards at the USP?

12 A. Yes. In 2018, I was awarded the Jacob Bigelow Award,
13 which is awarded annually to an expert volunteer who makes
14 what they call a substantial contribution to the
15 standards-setting process.

16 Q. Has any of your work in your field related to the
17 sustained release and the enteric polymers that we have been
18 talking about?

19 A. Yes, I have experience working in that field.

20 Q. Do you have any publications or speaking engagements
21 related to your work?

22 A. Yes, I have, I authored or co-authored book chapters
23 on modified release which includes controlled-release and
24 enteric release.

25 I have given presentations on enteric release

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1 and controlled-release and I have worked with different
2 colleagues on training courses, mainly covering excipient
3 sound, immediate release and other kinds of modified-release
4 formulations.

5 MR. CALVOSA: Your Honor, at this time
6 Plaintiffs move to call Dr. R. Christian Moreton as an
7 expert witness in the field of pharmaceutical sciences
8 including drug formulation and drug delivery and
9 technologies.

10 MR. BRAUSA: No objection.

11 THE COURT: All right. Dr. Moreton may testify
12 in those areas.

13 BY MR. CALVOSA:

14 Q. Dr. Moreton, why are you here today?

15 A. I'm here to give opinions on the validity of the
16 Claim 7 and 11 of the '488 patent.

17 Q. And is there anyone in particular that you're
18 responding to?

19 A. Yes, Dr. Charman.

20 Q. Were you here in court to hear Dr. Charman's opinions
21 yesterday on written description, enablement and improper
22 inventorship/derivation?

23 A. Yes, I was.

24 Q. Do you agree with Dr. Charman's opinions?

25 A. No, I do not.

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1 Q. Let's start with written description, and I want to
2 start with Dr. Charman's opinion that the '488 patent
3 specification lacks any description of a sustained-release
4 formulation possessing a functional coating containing that
5 MAMM polymer.

6 And I think we heard someone say "no MAMM"
7 yesterday, which we all were waiting for, but do you agree
8 with that opinion?

9 A. No, I do not.

10 Q. Why not?

11 A. The '488 patent clearly describes to a POSA, in my
12 opinion, that the MAMM co-polymers can be used as pore
13 formers in a controlled-release -- a sustained-release
14 formulation and the patent goes on to describe how you use
15 them and what kind of results you can expect.

16 MR. CALVOSA: And Mr. Lewis, can you please pull
17 up JTX003 at page 25, column 18, lines 53 through 67, which
18 is already in evidence.

19 BY MR. CALVOSA:

20 Q. And, Dr. Moreton, can you please explain to the jury
21 what the patent is talking about here.

22 A. Excuse me, let me put my glasses on.

23 This is the excerpt of the patent that explains
24 how you can have a controlled-release formulation which
25 exhibits start-up time and that the sustained release starts

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1 after the delivery of the drug from the immediate-release
2 component.

3 And they say where a start-up lag time is
4 desired, an enteric coating may be applied over the
5 controlled release coating or a start-up lag time can be --
6 hold on. I'm forgetting the word. A start-up lag time can
7 be achieved by use of enteric pore formers.

8 Q. And does the '488 patent provide any guidance to a
9 person of ordinary skill in the art about which pore formers
10 to use?

11 A. Yes, it does. You can apply soluble pore formers or
12 enteric pore formers --

13 (Reporter clarification.)

14 -- and/ or enteric pore formers.

15 BY MR. CALVOSA:

16 Q. And does the '488 patent provide any guidance to a
17 person of ordinary skill in the art regarding what
18 percentage of those enteric pore formers to use in a
19 standard formulation?

20 A. Yes, it does.

21 Q. And what percentage were those?

22 A. Those mentioned --

23 (Reporter clarification.)

24 Cellulose acetate phthalate and methacrylic
25 acid-methyl methacrylate copolymers, the MAMM copolymers

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1 that have been referred to and also poly -- polyvinyl
2 acetate phthalate, as said, folate.

3 Q. Does the '488 patent provide any guidance to a person
4 of ordinary skill in the art regarding what percentage of
5 those enteric pore formers to use in the sustained-release
6 formulations?

7 A. Yes, it does.

8 Q. And what percentage is that?

9 A. The percentage that's in the patent specification is
10 20 to 50 percent of the controlled-release coating.

11 MR. CALVOSA: And, Mr. Lewis, if you can please
12 pull up JTX003 page 23, column 13:26-41, lines 26 through
13 41, please, Mr. Lewis.

14 BY MR. CALVOSA:

15 Q. Is this the portion of the specification that you're
16 referring to with the enteric pore formers and the
17 percentage?

18 A. Yes, it is.

19 Q. I want to focus on a portion that Dr. Charman
20 mentioned yesterday. The last sentence in the first
21 paragraph there about "incorporating enteric components in
22 the film may result in delivery characteristics that exhibit
23 some level of sensitivity to gastric and intestinal transit
24 times."

25 Do you see that?

DIRECT EXAMINATION - R. CHRISTIAN MORETON

1 A. Yes, I do.

2 Q. And did you hear Dr. Charman say that that would
3 cause some concern for a POSA?

4 A. Yes, I did.

5 Q. Do you agree with that?

6 A. No, I do not.

7 Q. Why not?

8 A. The enteric pore form -- enteric polymers have been
9 known for many, many years. They -- it's well understood
10 that the properties of these pore formers are certainly pH
11 dependent in certain circumstances, and a POSA, a person of
12 skill in the art, would understand that and use that to
13 their advantage. That's why they use them.

14 Q. And we keep referencing the person of ordinary skill.
15 Which person of ordinary skill did you use in your analysis?

16 A. I think there's an agreed definition that Dr. Charman
17 mentioned, and I don't have any problem with that, using
18 that definition as well.

19 Q. So the same definition as Dr. Charman?

20 A. Yes.

21 Q. Now, the -- Dr. Charman also testified that the '488
22 patent specification does not show that the inventors were
23 in possession of that MAMM pore former formulation with the
24 claimed deionized water dissolution profile. Did you hear
25 him say that?

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1 A. Yes, I did.

2 Q. And do you agree with that?

3 A. No, I do not.

4 Q. Why not?

5 A. Well, the MAMM copolymers are specifically mentioned,
6 called out in the patent specification, and the patent
7 specification clearly describes that if you want a lag time,
8 this is one way to do it, and that if you have a lag time,
9 you can expect that the release, the controlled-release
10 portion of the medication would not start to release
11 immediately, but there would be a delay of maybe one to
12 two hours before the sustained release starts, and then you
13 would get a conventional, what we call an S-shaped curve for
14 the shape of the dissolution profile after the lag time.

15 Q. Now, Dr. Moreton, does the '488 patent specification
16 include examples of using that MAMM pore former in a
17 dissolution profile?

18 A. The examples do not use MAMM in the -- in the patent.

19 Q. Did you prepare a demonstrative showing the
20 difference between the enteric pore formers and the
21 nonenteric pore formers that you just discussed with the
22 jury?

23 A. Yes, I did.

24 MR. CALVOSA: Mr. Lewis, can you please pull up
25 PDX7.7. And could we go to 7.8 perhaps. There we go.

DIRECT EXAMINATION - R. CHRISTIAN MORETON

1 BY MR. CALVOSA:

2 Q. The figure 1 on the left, which pore former is being
3 used in figure 1 of the '488 patent?

4 A. The one on the left or the one on the right?

5 Q. The one on the right.

6 A. The pore former used in the figure on the right,
7 figure 1, is hydroxypropyl cellulose, which is a nonenteric
8 pore former.

9 Q. And if we move that figure over onto the one from the
10 left, the one from the left is using which pore former?

11 A. The one on the left is using the MAMM copolymer pore
12 former.

13 Q. And as we look at it now -- and that's from
14 Mr. Allphin's laboratory notebook that he used earlier this
15 week?

16 A. Yes, the blue line is the deionized water or purified
17 water dissolution medium. The other one is a more complex
18 medium that is sometimes used.

19 Q. And we see that those two dissolution profiles don't
20 match up?

21 A. They don't match up specifically, but they're very
22 similar in shape. They both would be S-shaped curves. The
23 one in -- the curve from figure 1, they didn't analyze the
24 earlier time points before one hour. If they did that, we
25 would see an S-shaped curve.

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1 Q. Now, if you move that over one hour for the lag time,
2 what do we see here?

3 A. What we see here is that if we had -- if this is --
4 if we had used the MAMM copolymers in that experiment, we
5 would have shifted the start of the controlled-release
6 portion by about one hour. That's the lag time. And -- but
7 then after the lag time, the release occurs in a
8 conventional manner, and you have this S-shaped curve that
9 we talked about.

10 Q. And those match up pretty good, don't they?

11 A. They match up pretty close, yeah.

12 Q. Now, the testing that was done in figure 1 of the
13 '488 patent, what USP apparatus did that use?

14 A. That used USP 2 apparatus.

15 Q. And which USP apparatus did Mr. Allphin use?

16 A. He -- in the --

17 Q. In the figure we're looking at.

18 A. In the other figure? That was USP 7.

19 Q. And how did those USP 2 and USP 7 apparatuses match
20 up?

21 A. So as you can see, there is a very close comparison,
22 very similar dissolution profile between the two dissolution
23 apparatuses.

24 MR. CALVOSA: And, Mr. Lewis, can we go to
25 JTX003, page 20, lines -- column 7, line 64, through column

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1 8, line 4. 7, line 64, through column 8:4.

2 BY MR. CALVOSA:

3 Q. Can you tell the jury what we're seeing here in the
4 '488 patent?

5 A. Yes, this is describing the very -- the standard USP
6 type of dissolution conditions, and it says you can use USP
7 Type 2 or USP Type 7 dissolution apparatus set at
8 37 degrees C, which is normal dissolution temperature, it
9 reflects body temperature, and then it provides for a
10 different media. One of the media is purified water, which
11 is the same as deionized water, and that's the one that
12 Mr. Allphin used in his experiments.

13 Q. You've mentioned that "lag time" phrase before when
14 discussing the graphs. Does the '488 patent provide a
15 reason that a person of ordinary skill in the art would want
16 a lag time?

17 A. The '488 patent only says that if you want a lag
18 time, this is the way to do it. The person of skill in the
19 art would rely on other members of their team, the clinical
20 people and the pharmacokineticists, to determine that -- if
21 a lag time is needed, and then the formulation scientists
22 would understand how to develop that lag time.

23 Q. And would there be anything advantageous about using
24 a lag time?

25 A. It could be. I mean, it would depend on the

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1 pharmacokinetics of the particular drug and the dosage form,
2 but there could be advantages in avoiding super high blood
3 levels and side effects. That could be a -- it could be a
4 means of extending the dosing interval, which would be
5 beneficial to patients too.

6 Q. And that formulator relying on the
7 pharmacokineticists or other pharmaco development team, is
8 that consistent with Mr. Allphin's testimony about him
9 relying on his co-inventor to set the profile for his
10 formulation?

11 A. Yes, it is.

12 Q. Okay. I'd like to move on now to Dr. Charman's
13 testimony about whether the inventors of the '488 patent
14 were in possession of microparticles or just tablets. Did
15 you hear that?

16 A. Yes, I did.

17 Q. Did you agree with him that the inventors were not in
18 possession of microparticles?

19 A. I do not agree with him.

20 Q. Why not?

21 A. Because. Excuse me. I need to put some gloves on my
22 hand again.

23 Q. Sure, take your time.

24 A. There's a passage in the patent specification which
25 refers to a specific coating process, and that coating

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1 process is used mainly, in my experience, for coating
2 microparticles.

3 Q. And what is that coating process called?

4 A. It's called a Wurster film coating process.

5 MR. CALVOSA: And, Mr. Lewis, if you could pull
6 up page 23 of JTX003 at column 14, line 63-65.

7 BY MR. CALVOSA:

8 Q. Is this the portion of the '488 patent you were
9 referring to?

10 A. Yes, it is.

11 Q. Have you seen in other documents you reviewed in this
12 case that Wurster fluid bed coating process being used?

13 A. Yes, I have.

14 Q. And where have you seen that?

15 A. It's actually in the Avadel NDA application where
16 they describe their process for manufacturing their -- their
17 product.

18 Q. Did you rely on Avadel's NDA, though, to form your
19 written description opinions?

20 A. No, I just used it as an example of a coating of
21 microparticles using a Wurster fluid bed coating process.

22 Q. Were you in court yesterday when Dr. Charman was
23 testifying about whether powders are microparticles?

24 A. Yes, I was.

25 MR. CALVOSA: And can we pull up that portion of

DIRECT EXAMINATION - R. CHRISTIAN MORETON

1 the specification, please Mr. Lewis. It's page 18 of
2 JTX003, column 4, lines 10-23.

3 BY MR. CALVOSA:

4 Q. Do you agree with Dr. Charman that powders are not
5 microparticles?

6 A. Powders can be microparticles, so I disagree with
7 him.

8 Q. And were you here yesterday when we saw the example
9 of Lumryz being a powder?

10 A. Yes, I was.

11 Q. And is Lumryz a microparticle?

12 A. Yes, it is.

13 Q. Now, here it says that the IR component can be in a
14 powder formulation. How does that relate to the other
15 sustained-release or controlled-release component being in a
16 powder formulation?

17 A. See, if you administer them separately, they don't
18 have to be, but that's not a very convenient way for a
19 patient to take their medicine. And so if you have -- want
20 to have what they call an integrated dosage form, you have
21 to match up the immediate-release and the controlled-release
22 components to be able to allow the patient to take them at
23 the same time, and it simplifies their dosing regimen and
24 it's less confusing, particularly for certain people, for
25 certain patients.

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1 Q. Did you hear Dr. Charman testify that tablet
2 formulations are not easily transferable to microparticle
3 formulations?

4 A. Yes, I did.

5 Q. Do you agree with that?

6 A. No I do not.

7 Q. Why not?

8 A. We have known how to make tablets. We have known how
9 to make microparticles for decades, and if we have a
10 controlled-release target specification, we can use the
11 standard technologies, the standard ways of making these
12 particles, the standard testing that we do on these such
13 formulations to develop either a microparticle or a tablet
14 formulation and achieve the same in vitro dissolution.

15 Q. Are there calculations that a POSA could do to
16 transfer different sizes and shapes of dosage forms?

17 A. Yes, there are.

18 Q. And did you prepare a demonstrative for the jury
19 showing that?

20 A. Yes, I did.

21 MR. CALVOSA: And, Mr. Lewis, can you please
22 pull up PDX 7.5.

23 BY MR. CALVOSA:

24 Q. Can you explain to the jury what we're seeing here on
25 this slide?

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1 A. This is just a very schematic representation, so we
2 have a 1-inch cube. So each surface of the cube -- there
3 are 6 surfaces -- each surface of the cube is 1 square inch,
4 and so the total surface of that cube is 6 square inches,
5 and that's what you have to coat.

6 Now, if we split that cube -- that's the
7 coating, by the way. If we split that cube into eight
8 regular, you know, equal-sized portions so we have eight
9 cubes now, and each of them would have --

10 Could we move on to the next slide, please.

11 Yeah, thank you.

12 Each would have -- each side is -- half an inch,
13 and so each side has a surface area of a quarter square
14 inch. But there's 6 faces to the cube, so the total surface
15 area of those smaller cubes would be 1.5 square inches. And
16 now we have 8 of them, so we have 12 square inches in total.
17 So by splitting it in 8, we have doubled the amount of
18 surface that we need to coat and we would need to compensate
19 the amount of paint in this case, which would be double that
20 required to coat the other -- the larger particle.

21 And there are similar equations that we can use
22 for coating other shapes like particles that are spherical
23 and other shapes as well. And this is something that we've
24 known about for a long, long time. This is very
25 straightforward geometry and arithmetic.

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1 Q. Have you, yourself, done work that relates to coating
2 different shapes and sizes of dosage forms?

3 A. Yes, I have.

4 Q. I'd like to move on now to Dr. Charman's inventorship
5 opinions. Besides from Dr. Charman's testimony, were you in
6 the courtroom earlier this week for Clark Allphin's
7 testimony?

8 A. Yes, I was.

9 Q. Did you hear his testimony regarding his work on
10 sustained-release oxybate formulations with MAMM pore
11 formers?

12 A. Yes, I did.

13 Q. And did you see his deionized water dissolution
14 testing?

15 A. Yes, I did.

16 Q. And as part of your work in this case before we came
17 to court this week, did you review the documents that
18 Mr. Allphin talked about here?

19 A. Yes, I did.

20 Q. And what conclusions, if any, did you draw from your
21 review of those documents and listening to Mr. Allphin's
22 testimony?

23 A. Well, Mr. Allphin and Mr. Pfeiffer, obviously they
24 spent -- they had an extensive amount of work on the
25 project. They really nailed down the technology. They

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1 understood how to modify the delay of the lag time. They
2 really had a good, good understanding of the technology and
3 were able to use it to develop formulations which met the
4 specifications and claims in the patent.

5 Q. And then what's your conclusion with respect to
6 Dr. Charman's allegation that the '488 patent Claims 7 and
7 11 are invalid for improper inventorship and derivation?

8 A. I disagree. I believe in my opinion Mr. Allphin and
9 Mr. Pfeiffer properly invented the -- the claim -- the
10 claims of the '488 patent.

11 Q. Okay. Last topic, enablement.

12 MR. CALVOSA: And we can pull up Dr. Charman's
13 slide from yesterday, please, DDX90.

14 BY MR. CALVOSA:

15 Q. And he went through these quickly yesterday largely
16 repeating the written description analysis, but let's go
17 through them together. Can you tell me what these factors
18 on the slides are?

19 A. These are *Wands* factors, which are some of the
20 factors that are used in evaluation of enablement. This is
21 a legal term. I'm not a lawyer. This is what I have been
22 told over the years. And so these are five of the *Wands*
23 factors that Dr. Charman mentioned yesterday.

24 Q. And remember Dr. Charman yesterday said the class of
25 potential dosage form was so large and the scope of the

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1 claims was so big. Do you agree with that?

2 A. No, I don't.

3 Q. Why not?

4 A. We have to remember that this is -- this technology
5 is essentially about coating technology. And coating
6 technology can be applied to tablets, capsules,
7 microparticles. What it is applied to is irrelevant. What
8 you have to achieve is the dissolution characteristics of --
9 that are cited in the patent.

10 Q. And does the '488 patent tell a person of ordinary
11 skill in the art that any particular excipient or inactive
12 ingredient that Dr. Charman lists on the slide is
13 incompatible with the GHB formulations?

14 A. No, it doesn't.

15 Q. And did you hear Dr. Charman testify that any
16 ingredient would be incompatible?

17 A. No, I did not.

18 Q. Now, the next one, the nature of the invention. Do
19 you agree that using GHB in the dosage form would add to the
20 unpredictability?

21 A. No, I do not.

22 Q. Why not?

23 A. GHB is just another drug in the formulation, a
24 formulator's understanding. This is -- formulation
25 scientists will take any drug, and they will formulate it.

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1 If they don't have the information on the properties, they
2 will investigate it, they will use that information in
3 combination with their knowledge of excipient materials and
4 processing in order to develop the right formulation. This
5 is something that is done many, many times and has been done
6 many, many times over the years. I have done it myself.
7 Every drug -- new drug is different, but this one, it's, in
8 many respects, just another drug.

9 Q. And what about the next factor, the level of skill in
10 the art and the state of the art, do you agree with
11 Dr. Charman that the challenges of working with GHB would
12 cause a person of ordinary skill in the art to question
13 whether the '488 patent discloses how to make and use the
14 claim formulations?

15 A. I do not agree.

16 Q. Why not?

17 A. The '488 patent describes how the inventors developed
18 their formulations, how they overcame the properties of the
19 drug which could be challenging, that they were able to make
20 the formulations that gave the dissolution profiles that
21 they needed, and this is something that I would have
22 expected a POSA to do dealing with any drug.

23 Q. And the next one, the teachings in the patent, would
24 your opinions be the same?

25 A. Yes, they would.

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1 Q. And lastly, the quantity of experimentation.

2 Dr. Charman used the word "extensive experimentation." Do
3 you agree with Dr. Charman that a person of ordinary skill
4 in the art would not be able to make and use the claimed
5 inventions of Claims 7 and 11 of the '488 patent without
6 extensive experimentation?

7 A. No, I do not. There would be some experimentation.
8 That is what we do. Sometimes you hit it straight off, but
9 very often you have to do a certain amount of
10 experimentation, but it's not extensive. This is normally
11 done. This is the normal way that formulation science
12 works, and this is done many times all over the globe.

13 Q. And so I get the correct legal standard, would your
14 opinion be the same if it was "undue experimentation"
15 instead of "extensive experimentation" in my question?

16 A. It's not undue experimentation.

17 Q. No, I asked a different question this time.

18 And then just one last question. Is dissolution
19 test itself routine experimentation?

20 A. Dissolution testing is routine experimentation. It's
21 required -- in terms of soluble dosage forms, the FDA and
22 other regulatory authorities around the world expect and
23 demand that the formulation is tested, and dissolution is
24 one of those mandatory tests.

25 MR. CALVOSA: Okay. Pass the witness.

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1 THE COURT: All right. Cross-examination.

2 MR. BRAUSA: Permission to approach with
3 binders, Your Honor.

4 THE COURT: Yes.

5 CROSS-EXAMINATION

6 BY MR. BRAUSA:

7 Q. Good morning, Dr. Moreton. I don't think we've met
8 before. My name's Adam Brausa. I'm one of the attorneys
9 representing Avadel.

10 A. Good morning.

11 Q. If I heard your testimony correctly, it's your view
12 that every new drug has some challenges, but GHB, sodium
13 oxybate, it's just another drug?

14 A. Correct.

15 Q. Now, sodium oxybate's not a new drug, to be clear,
16 right?

17 A. That's my understanding, yes.

18 Q. You've never actually worked with sodium oxybate in
19 your career?

20 A. No, I have not.

21 Q. You don't know how hard it is to formulate
22 controlled-release sodium oxybate, correct?

23 A. From the teachings of the '488 patent, the
24 formulation of sodium oxybate is not unduly difficult.

25 Q. You don't know how hard it is to actually develop a

CROSS-EXAMINATION - CHRISTIAN MORETON

1 controlled-release form of sodium oxybate; you've never done
2 it, have you, Dr. Moreton?

3 A. I have not done it personally, no.

4 Q. And when you formed your opinions in this case, you
5 didn't do anything to check out the properties of sodium
6 oxybate beyond reading the patent, right?

7 A. No, I did not.

8 Q. It's highly soluble?

9 A. Yes.

10 Q. It requires a high dosage?

11 A. Yes.

12 Q. It deliquesces?

13 A. Yes.

14 Q. It's hygroscopic?

15 A. Yes.

16 Q. These are all challenges associated with formulating
17 sodium oxybate, right?

18 A. Yes, but there are other --

19 Q. Dr. Moreton, I've got limited time.

20 These are all challenges associated with
21 formulating sodium oxybate, right?

22 A. These are all challenges associated with many drugs.

23 Q. And in your long career, you've never developed a
24 formula with sodium oxybate in it, correct?

25 A. Correct.

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1 Q. We talked a bit about microparticles just now, and in
2 your entire career, you've only been involved in developing
3 controlled-release microparticle formulation once, right?

4 A. Once, yeah -- it was more than that, but some of the
5 others didn't go very far, so it didn't get to the full
6 development.

7 Q. Okay. And when we took your deposition in this case,
8 you only referred to one time in your career that you were
9 involved in developing a controlled-release microparticle
10 formulation, right?

11 A. Yes.

12 Q. And that wasn't for sodium oxybate, right?

13 A. No, it wasn't.

14 Q. It was many years ago?

15 A. A good few, yes.

16 Q. And you were an adviser on that project, right?

17 A. I believe so, yes.

18 Q. You just made suggestions about what ingredients
19 should be included, what shouldn't?

20 A. A little bit more than that.

21 Q. Okay. You don't recall the drug that was being
22 formulated, do you?

23 A. I don't recall the number. I don't think it had been
24 given a name yet.

25 Q. Okay. And you don't remember at the time -- or you

CROSS-EXAMINATION - CHRISTIAN MORETON

1 didn't remember at the time of your deposition whether that
2 drug was soluble in water?

3 A. That, I don't recall.

4 Q. You don't recall whether it was hygroscopic?

5 A. I don't recall.

6 Q. And you don't recall whether it required a high
7 dosage, do you?

8 A. I think it was medium dosage, but it wasn't low dose.

9 Q. Okay. So not a high dosage like sodium oxybate?

10 A. I don't believe so.

11 Q. Okay. And you don't know whether that project was
12 ultimately even successful, correct?

13 A. No, I don't.

14 Q. Other than that one-off consultation, at the time of
15 your deposition, you weren't able to identify any other time
16 in your control -- in your career that you were involved in
17 working with controlled-release drugs as microparticles,
18 correct?

19 A. If that's what I said at deposition, that would be
20 true.

21 Q. Okay. And most of your work these days is with drugs
22 that don't easily dissolve in water, meaning they're
23 water-insoluble, right?

24 A. That appears to be the trend these days, yes.

25 Q. Okay. And your work actually focuses on making them

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1 immediate-release drugs, right?

2 A. My work focuses on early stage, and in early-stage
3 work, we're looking to get therapeutic levels or at least
4 blood levels in human patients ultimately. And so I am
5 looking to immediate release.

6 Q. And that's a different technology, correct?

7 A. It can be, yes.

8 Q. Well, at your deposition, you said that was a
9 different technology, correct?

10 A. Yes, okay.

11 Q. And you've not worked on any projects where the goal
12 of the project was to take a drug tablet and reformulate it
13 as microparticles, correct?

14 A. I don't believe so.

15 Q. I want to talk to you a little bit about some
16 portions of the patents, and some will look familiar because
17 we talked about them during your questioning by Jazz's
18 counsel. But I want to focus on slightly different portions
19 that weren't highlighted, and I'm going to try and take this
20 fairly slow.

21 MR. BRAUSA: And I'll note for the jury, if you
22 want to follow along, this is in your binder. It's JTX003,
23 and I'll try and call out the page numbers, the column
24 numbers, and the line numbers as we go.

25 BY MR. BRAUSA:

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1 Q. So I want to start out with JTX003, the '488 patent,
2 at page 26. And here, Dr. Moreton, is where the examples of
3 the patent that we've heard so much about start out, right?
4 We see example 1 on page 26, column 19, right?

5 A. Yes.

6 Q. Okay. And the columns are at the top of the patent,
7 19 and 20, and then the line numbers go right down the
8 middle, correct?

9 A. Yes.

10 Q. Okay. And these examples, they start on page 26, but
11 there are 13 of them, and they go through page 27, 28, 29,
12 and all the way to 30 before we get to the claims of the
13 patent, right?

14 A. Yes.

15 Q. And all 13 of these examples describe tablet
16 formulations, right?

17 A. I believe so, yes.

18 Q. The patent doesn't identify any problems with these
19 tablet formulations, does it?

20 A. Not as far as I recall.

21 Q. And just to be clear, none of these examples involve
22 microparticle formulations, right?

23 A. Correct.

24 Q. None of these examples explain how you make
25 microparticle formulations, do they?

CROSS-EXAMINATION - CHRISTIAN MORETON

1 A. No, they don't, but that's what a POSA would
2 understand --

3 Q. Dr. Moreton, again, I've got limited time.

4 None of these examples describe microparticle
5 formulations or how to make them, correct?

6 A. Well, while they don't explain that, that's what a
7 POSA would bring to the table.

8 Q. Right. They don't need to look at Jazz's patent to
9 know that. That's your opinion?

10 A. They would understand how to make particles.

11 Q. Without looking at Jazz's patents?

12 A. That technology has been known for years.

13 Q. Okay. I think you testified that that the patent
14 references a powder and that that can be a microparticle,
15 right?

16 A. Yes.

17 Q. So it can be something else, right?

18 A. It can be a powder as well.

19 Q. Right?

20 A. A simple powder or it can be a complex powder.

21 Q. So microparticles is one type of powder; it's not the
22 only?

23 A. Correct.

24 Q. And the portion of the patent that you were talking
25 about is at page 18, column 4:10-22 and I have highlighted a

CROSS-EXAMINATION - CHRISTIAN MORETON

1 portion at lines 14 to 17, you see that?

2 A. Yes.

3 Q. And this portion of the patent where powder is
4 referenced is talking about the immediate-release component,
5 right?

6 A. Yes.

7 Q. And just because it lists forms that the
8 immediate-release component can take there sentence in the
9 patent doesn't tell you anything about how the controlled
10 release formulation can be formulated, it's separate, right?

11 A. That's what it say, yes.

12 Q. For example, liquid is listed as a form the IR
13 component can take, but that doesn't mean you can have a
14 controlled release liquid, does it?

15 A. There are controlled-release liquid suspension.

16 Q. Your testimony is you can have a controlled-release
17 liquid?

18 A. My testimony is that you can have a controlled
19 release liquid suspension.

20 Q. Okay. Dr. Moreton, we talked at your deposition.
21 You were deposed in this case, right?

22 A. Yes.

23 Q. At line -- or at page, rather, 23, lines 20-25, at
24 your deposition, you were asked, "Why is it that a
25 controlled-release formulation could not be a solution?"

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1 And you answered, "Because the controlled-release
2 formulation, everything has to be soluble in a solution, and
3 how would you get a controlled release?"

4 I read that correctly, right?

5 MR. CALVOSA: Objection, Your Honor. That's not
6 improper -- that's improper impeachment. His previous
7 question referred to liquid; now he's changing it to a
8 solution. Those are two different things.

9 THE COURT: Well, Dr. Moreton can answer the
10 question. You can explain.

11 THE WITNESS: He just referred to solutions. I
12 referred to suspensions.

13 BY MR. BRAUSA:

14 Q. Okay. So let me clear it up. Let me clear it up.

15 Liquid solution is listed as an
16 immediate-release component, right?

17 A. Yes.

18 Q. And just because liquid solution is listed as an
19 immediate-release component does not mean that the
20 controlled-release component can be a liquid solution,
21 correct?

22 A. That's what I said at deposition.

23 Q. Because you can't have a controlled-release liquid
24 solution, correct?

25 A. Correct.

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1 Q. Now, the patent doesn't actually include any
2 description of a controlled-release component that is a
3 powder, right?

4 A. In the specification, no.

5 Q. Right. But I think on direct exam, you said that you
6 read this next sentence of the patent to mean that if the IR
7 component's a powder, the CR component, the
8 controlled-release component, would also be a powder. Did I
9 understand your testimony correctly?

10 A. What I said was if you wanted to integrate the two,
11 you would combine them as both as forms of powder.

12 Q. Okay. And in this portion of the patent, it doesn't
13 say integrate a powdered IR component, or immediate-release
14 component, with a powdered controlled-release component,
15 does it?

16 A. Not in this part of the patent.

17 Q. Okay.

18 A. But if you look --

19 Q. And, in fact, in the next sentence is --

20 THE COURT: Let him -- he wasn't finished with
21 his answer.

22 MR. BRAUSA: Oh, excuse me. Go ahead.

23 THE WITNESS: Not in this part of this patent,
24 but it does mention an integrated dosage form in another
25 part of the patent.

CROSS-EXAMINATION - CHRISTIAN MORETON

1 BY MR. BRAUSA:

2 Q. Okay. And in that other part of the patent, it
3 doesn't refer to a powdered immediate-release component and
4 a powdered controlled-release component, does it?

5 A. I'd have to look at the other part of the patent.

6 Q. Okay. You don't know, sitting here right now?

7 A. I can't recall.

8 Q. In the next sentence after the section that Jazz
9 counsel pointed you to, it says: In such an embodiment, the
10 formulation is provided in the form of a coated tablet or
11 capsule, right?

12 A. It says the pharmaceutical formulation may be
13 provided in the form of a coated tablet or capsule.

14 Q. Right. And your emphasis on "may," I want to get
15 back to in just a moment.

16 But I want to confirm what the words in the
17 patent actually are, and it doesn't refer to a
18 microparticle, does it?

19 A. No, it does not.

20 Q. It doesn't refer to a sachet?

21 A. No, it does not.

22 Q. But you put the emphasis on "may" in this sentence
23 because it's your opinion that it could be in any form,
24 right?

25 A. It could be in many forms.

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1 Q. Okay. And so we should just cross out "tablet or
2 capsule" and say "many forms," right?

3 A. The whole point is that these controlled-release
4 technologies can be used in many types of different
5 formulation.

6 Q. Okay. But that's not what the patent says, correct?

7 A. That's not what this sentence says, yes.

8 Q. Okay. Now, the sustained-release portion that we've
9 been talking about, it has to include a core, and then that
10 core has a functional coating wrapped around it, right?

11 A. Yes.

12 Q. Okay. Let's talk a little bit about what the patent
13 says about the core. Just in terms of getting my wording
14 correctly, the patent talks about a "CR core" at times.

15 A. Yes.

16 Q. And that stands for controlled-release core?

17 A. Yes.

18 Q. It's actually the core of the controlled-release
19 table, though, correct?

20 A. Controlled-release core can be the core of a
21 controlled-release tablet. It can be the core of a
22 controlled-release microparticle.

23 Q. Okay. But what the patent actually is talking about,
24 they call it the controlled-release core, but it's actually
25 the core of the controlled-release tablet, correct?

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1 A. Yes.

2 Q. And that makes sense because when we see the section
3 at page 21, column 9, lines 45-50, talking about the
4 controlled-release component, it starts off and talks about
5 these formulations and it refers explicitly to a coated
6 tablet, right?

7 A. Yes it does.

8 Q. Okay. And then it again says that these tablets can
9 be made using known techniques. That's at page 22, line
10 11 -- I'm sorry, column 11, lines 45-52. And again, when
11 it's talking about these manufacturing techniques that are
12 known, it's talking tablets, right?

13 A. Yes.

14 Q. Okay. And you agree that these techniques were known
15 at the time?

16 A. Oh, yes.

17 Q. Okay. A person of ordinary skill wouldn't need
18 Jazz's patent?

19 A. Those techniques, those types of processing have been
20 known for many years.

21 Q. Okay. Now, in the claims of the patent, if we look
22 at page 30, column 27, and this is -- highlighted portion is
23 at line 38, this is from Claim 1, but you understand that's
24 part of Claims 7 and 11 that you considered. It refers to a
25 range of drug in the core -- a range of drug, rather, in the

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1 sustained-release portion of about 500 milligrams to
2 12 grams of the pharmaceutically active ingredient, right?

3 A. Yes.

4 Q. And this is the amount of sodium oxybate in the
5 formula?

6 A. Yes.

7 Q. Okay. I want to go back to what the patent says
8 about these numbers, which we see on page 21, column 9, and
9 it's at lines 59 and 60. And here you see it referring to
10 sodium oxybate in that same range, right, 500 milligrams to
11 12 grams?

12 A. Yes, that's correct.

13 Q. And when it does so, it's talking tablets, right?

14 A. Yes.

15 Q. This is the only part of the patent, the only other
16 portion of the patent outside of the claims that refers to
17 500 milligrams to 12 grams of drug, right?

18 A. I think so, yes.

19 Q. Okay. Now, we've been talking about the core, but
20 there's also a separate section of the patent that talks
21 about the functional coating composition for the
22 sustained-release portion, right?

23 A. Yes.

24 Q. And, again, there's a separate section, it's Roman
25 Numeral II, "Functional Coating." This is at page 22,

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1 column 11, lines 54-56. And when it describes the
2 "Functional Coating Composition," we're still talking
3 tablets, right, Dr. Moreton?

4 A. Yes, that's what it says.

5 Q. But, again, your opinion is that we should just cross
6 out "tablet" because it can be any coated composition in
7 your view?

8 A. What I said was that this coating technology can be
9 applied to tablets, capsules, microparticles.

10 Q. That's not what they said here, is it, Dr. Moreton?

11 A. That's what they're claiming.

12 Q. I understand, but you understand that written
13 description looks at the specification of the patent and
14 what is said in the specification of the patent, right?

15 A. Yes.

16 Q. And what they say in the specification of the patent
17 under this heading of "Functional Coating Composition"
18 refers to coated tablets, correct?

19 A. That's what it says, yes.

20 Q. It doesn't mention microparticles here.

21 A. It doesn't mention microparticles.

22 Q. Now, the patent also talks about the amount of
23 functional -- or amount of functional coating that you can
24 use to coat the drug substance, right?

25 A. Yes.

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1 Q. And that's in the next page at page 23, column 14,
2 and I have highlighted lines 8-10 and 12-15. And here we
3 see that the functional coating can be applied at a weight
4 of about 10 to about 100 milligrams, and then in the next
5 section, it provides more specific ranges for the amount of
6 functional coating you can put on the drug substance, right?

7 A. Yes.

8 Q. Now, a scientist would know without anything more
9 that these ranges wouldn't be applicable to microparticles,
10 right?

11 A. That's correct.

12 Q. This is way too much coating for a microparticle,
13 right?

14 A. That's correct.

15 Q. But a scientist wouldn't need to wonder, because if
16 we go to the next portion right after those range, it says
17 these are useful for tablets of a certain size, and then
18 gives alternative for tablets of different sizes and tells
19 you how much functional coating you want for tablets like
20 that, correct?

21 A. Yes, and that can be extrapolated.

22 Q. Right, we'll get to that. But this is the paintbrush
23 cartoon you're referring to?

24 A. Yes.

25 Q. Okay. The patent, though, it doesn't tell you how to

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1 take any of these numbers and scale them for microparticle
2 formulations, though, right?

3 A. The patent says that you have to go -- you need to
4 change the weight of the coating depending on -- essentially
5 on the size of the tablet, so you change the weight of the
6 coating depending on the surface area of the tablet, and if
7 you understand what the weight of the batch is, you can make
8 the calculations.

9 Q. Right. And just to be clear, though, the patent
10 tells you how to adjust the weights of the coating for
11 tablets of different sizes, correct?

12 A. Yes.

13 Q. It doesn't include any instructions how to change the
14 weight of the coating for a completely different form of
15 drug substance, does it?

16 A. That is something that the POSA brings to the
17 equation.

18 Q. Right. And, again, I want to make sure I understand,
19 though, that is not in the specification of Jazz's patents,
20 correct?

21 A. Correct.

22 Q. Now, in the patent it also talks about the techniques
23 you can use to apply this functional coating to coat the
24 stuff, right?

25 A. Yes.

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1 Q. And, again, it says, at column 14 on page 23, that
2 conventional coating methods and techniques are used; is
3 that fair?

4 A. Correct.

5 Q. And I think I heard you refer to one in your
6 discussion with Jazz counsel called a Wurster coating bed,
7 right?

8 A. Yes.

9 Q. And we see that referenced right here. This is the
10 Wurster fluid bed film coating process that you were asked
11 about?

12 A. Yes.

13 Q. And that's named for its inventor, Mr. Wurster,
14 right?

15 A. It's Professor Wurster.

16 Q. Professor Wurster. Excuse me.

17 And it was a known technique when Jazz filed its
18 patents, right?

19 A. Yes.

20 Q. It's been around for many years?

21 A. Correct.

22 Q. And you can use a Wurster bed film coating process to
23 coat tablets, right?

24 A. Generally it isn't used to coat tablets because it's
25 a very, what do I say, it adds -- it generates a lot of

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1 agitation and particularly large tablets very often get
2 damaged in the Wurster process. So for tablets, we tend to
3 use -- in my experience, we tend to use a pan coater, which
4 is a much more gentle action. Wurster coating is used for,
5 in my experience, for coating microparticles, not for
6 coating large tablets.

7 Q. Okay. And just to be clear, you've never worked with
8 any microparticles of sodium oxybate, right?

9 A. That's correct.

10 Q. Okay. And my question was actually: Wurster fluid
11 bed can be used to coat tablets, right?

12 A. It has been, but as I said, it causes a lot of damage
13 to particularly large tablets --

14 Q. Okay.

15 A. -- because of the agitation in the fluid bed.

16 Q. Understood. So it's your opinion it's not preferred,
17 right, for tablets?

18 A. Correct.

19 Q. The specification in Jazz's patents doesn't say don't
20 use a Wurster bed apparatus with tablets, does it?

21 A. Well, the specification doesn't tell it, but a POSA
22 would know.

23 Q. Okay. And, in fact, in the specification, when it
24 talks about the Wurster fluid bed, that's in the same
25 column, column 14 on page 23, just after we heard about the

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1 tablet coating weights that can be applied, right?

2 A. Sorry, I can't read this. It's very blurred. What
3 column --

4 Q. Sure, we're at JTX003.23 at column 14.

5 A. Okay, thank you.

6 Q. And it's the three passages we just walked through.

7 A. Okay, sorry. Repeat your question, please, sir.

8 Q. Sure, I just wanted to confirm, when the patent talks
9 about the Wurster fluid bed, it does so just after giving
10 weights that applicable only for tablets, right?

11 A. Yes, it's down in different paragraphs, but yes.

12 Q. Okay. And nothing in this column that we see here
13 refers to coating microparticles, does it?

14 A. Only the Wurster coating process at the bottom.

15 Q. And the cartoon you referenced where there was a cube
16 and then it split in part and the paintbrush was painting
17 different surface areas, those types of calculations aren't
18 set forth anywhere in the specification of Jazz's patent,
19 are they?

20 A. They don't need to be. This is simple geometry and
21 arithmetic.

22 Q. Okay. It's your testimony that it's simple geometry
23 and arithmetic to scale a tablet formulation down to a
24 microparticle formulation?

25 A. That wasn't what I said. Calculating the surface

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1 area required is simple geometry and arithmetic.

2 Q. Okay. And the actual process of taking a tablet
3 formulation and converting it into a microparticle
4 formulation, that's not something you've ever done, correct?

5 A. That's not something I have ever done, but it's
6 reported in the literature.

7 Q. Okay. But you've never done it in your career,
8 correct, Dr. Moreton?

9 A. I have never done it, right.

10 Q. And tablets and microparticles, you would agree, they
11 have different characteristics, right?

12 A. Different sizes, yes.

13 Q. And they have different characteristics in other
14 regards, too?

15 A. Probably, yes.

16 Q. Okay. The same ratio of ingredients formulated as a
17 tablet and formulated as a microparticles might lead to
18 different dissolution curves like the one you showed with
19 Jazz counsel, correct?

20 A. Which -- sorry. Say that again, please.

21 Q. Well, let me just back up. The same ratio of
22 ingredients formulated as a tablet and formulated as a
23 microparticle might lead to different dissolution profiles,
24 right?

25 A. The same ratio of ingredients -- which ingredients?

CROSS-EXAMINATION - CHRISTIAN MORETON

1 Q. The ingredients in the formulation.

2 A. If we take the whole of all of the ingredients,
3 possibly, but if you focus on the core or the coating, it's
4 much more, what do I say, much more straightforward.

5 Q. Okay. Well, I want to focus on the overall
6 formulation. The same ratio of ingredients formulated as a
7 tablet and formulated as a microparticle might lead to
8 different dissolution profiles, fair?

9 A. Possibly.

10 Q. Now, when you initially offered your opinion in this
11 case, you said that the patent itself teaches a POSA how to
12 adjust the weight of coating of a tablet and scale it down
13 to a microparticle size, right?

14 A. Yes.

15 Q. But that wasn't correct, right?

16 A. It gives an indication and we looked at that in -- in
17 the top of this -- whatever, is called out. It gives an
18 indication that you have to change the weight of the coating
19 on an individual particle, tablet to reflect the changed
20 surface area. And what I have said is that if you know the
21 surface area you have to coat, you can calculate how much
22 coating to apply on a batch basis. I mean, we don't talk
23 about coating individual tablets or individual
24 microparticles; we talk about coating batches. And for a
25 given weight of tablets or a given weight of microparticles,

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1 we can do the necessary calculations.

2 Q. Dr. Moreton, my question is a little different. I
3 just want to make sure I confirm.

4 When you initially offered your opinions in this
5 case, it was your opinion that the specification provides
6 information teaching a POSA how to adjust coating
7 composition and amounts to account for any differences in
8 surface area between a tablet and microparticle, right?

9 A. Yes.

10 Q. That was incorrect, right? The patent doesn't teach
11 that.

12 A. The patent teaches that you have to take the size of
13 the tablet and therefore the surface area into account.

14 Q. Okay. But the patent doesn't actually teach how to
15 do it?

16 A. Well, the patent doesn't teach how to do it. That's
17 something a POSA would know.

18 Q. Okay. At your deposition, you were asked to point to
19 anything that taught you how to adjust coating composition
20 and amounts to account for differences between tablets and
21 microparticles, and you couldn't do it, correct?

22 A. It's not in the patent, no.

23 Q. Okay. Now, we heard some testimony from your -- from
24 you on examination by Jazz's counsel about your review of
25 some of Mr. Allphin's work.

CROSS-EXAMINATION - CHRISTIAN MORETON

1 A. Yes.

2 Q. Okay. How did you obtain materials about
3 Mr. Allphin's work? Was that provided to you by counsel?

4 A. Yes, it was.

5 Q. Do you know whether you received a complete set of
6 documents from counsel about Mr. Allphin's work?

7 A. I received what I received.

8 Q. Okay. And did you ask for anything more about
9 Mr. Allphin's work?

10 A. I didn't need to.

11 Q. Why is that?

12 A. I felt that what I saw was good, showed good,
13 extensive review of the technology.

14 Q. Okay. Can you turn in your binder to DTX1321?

15 A. Yes.

16 Q. Was this document provided to you by counsel?

17 A. I don't recall the exact document.

18 Q. Okay. And this is a technical memo, correct?

19 A. That's what it says, yes.

20 Q. And --

21 MR. CALVOSA: Excuse me, Your Honor, I don't
22 believe I have the second binder.

23 MR. BRAUSA: I think it should be in your
24 binder. It's DTX1321.

25 MR. CALVOSA: Oh, that's why.

CROSS-EXAMINATION - CHRISTIAN MORETON

1 (Discussion held between counsel off the
2 record.)

3 BY MR. BRAUSA:

4 Q. All right. So you weren't aware that this was a 2016
5 technical memo from Clark Allphin's files?

6 A. It's dated 2016, but...

7 Q. But you don't know where it came from?

8 A. It came -- it says it came from Jazz. That's all I
9 know.

10 Q. Okay. Can you turn to 1321.10, and it's in the lower
11 right-hand corner.

12 A. Yes, okay.

13 Q. And there's a section on that page called nonenteric
14 approach?

15 A. Correct.

16 Q. And so you weren't aware that in Jazz's technical
17 memo there was a reference to nonenteric means for achieving
18 delayed release in tablets?

19 A. Like I said, I'm not sure I reviewed this. I think I
20 did, but...

21 Q. Okay. You think you did review this?

22 A. I'm not sure.

23 Q. Okay. Well, in the second sentence, it refers to
24 applying these techniques to pellets, right?

25 A. Yes.

CROSS-EXAMINATION - CHRISTIAN MORETON

1 Q. And it says applying the techniques for tablets to
2 pellets is considerably more challenging, right?

3 A. Yes.

4 Q. Were you aware of that statement when you formed your
5 opinions in this case, Dr. Moreton?

6 A. I may have been.

7 Q. Okay.

8 MR. BRAUSA: Your Honor, we move to admit
9 DTX1321 into evidence.

10 MR. CALVOSA: No objection, Your Honor.

11 THE COURT: DTX1321 is admitted.

12 (Exhibit admitted.)

13 MR. BRAUSA: Okay. And, Mr. Jarrett, if we can
14 pull DTX1321.10 onto the screen. DTX, Mr. Jarrett. There
15 we go. And if we can turn to the tenth page, .10.

16 BY MR. BRAUSA:

17 Q. So here we see at the top, Dr. Moreton the, portion
18 of the document I was referring to under the "Nonenteric
19 Approach" heading?

20 A. Yes.

21 Q. And it's that second sentence where Jazz says,
22 "applying these techniques to pellets is considerably more
23 challenging" in a technical memo from 2016, right?

24 A. Yes.

25 MR. BRAUSA: Can we pull up the second paragraph

CROSS-EXAMINATION - CHRISTIAN MORETON

1 under the graph on this page. The text under the graph,
2 please, Mr. Jarrett.

3 BY MR. BRAUSA:

4 Q. And we see in the first sentence of this paragraph
5 that Jazz says, "Although the behavior with tablets looks
6 promising, the required film formulation for use in a pellet
7 will be substantially different," correct, Dr. Moreton?

8 A. Yes.

9 Q. Did you consider this statement when you rendered
10 your opinion in this case?

11 A. Yeah, if I read it, I did. If I didn't read it, I
12 didn't.

13 Q. Okay. And the patent, turning back to Jazz's
14 specification, it doesn't tell a scientist what parts of the
15 formulation need to be changed to move from a tablet to a
16 microparticle, does it?

17 A. That's correct.

18 Q. Okay. Were you aware that as of February 2015,
19 Mr. Allphin reported that his attempts to make even
20 immediate-release beads were unsuccessful?

21 A. I may have been aware of that.

22 Q. Okay. Can you turn to PTX1167 in evidence.

23 MR. BRAUSA: Mr. Jarrett, if we can go back to
24 21.

25 BY MR. BRAUSA:

CROSS-EXAMINATION - CHRISTIAN MORETON

1 Q. So this is an e-mail from Mr. Allphin dated February
2 of 2015 where he says his work has been focused on making IR
3 beads in his lab; unfortunately, all attempts were
4 unsuccessful, correct?

5 A. Yes that's what it says.

6 Q. You didn't conduct any investigation into why
7 Mr. Allphin's attempts were unsuccessful?

8 A. Not that I recall.

9 Q. Okay. I want to turn a little bit to your discussion
10 with Jazz's counsel about MAMM, this copolymer that we've
11 heard so much about over the past few days.

12 None of the functional coating -- excuse me.
13 The claims of the patent required MAMM to be in the
14 functional coating in amount of 20-50 percent by weight,
15 right?

16 A. Yes.

17 Q. Beyond that, the claims of Jazz's patent don't
18 require any specific ingredients to be in the functional
19 coating, right?

20 A. They are not specified, no.

21 Q. Right. So if I have a functional coating with
22 20 percent MAMM, the other 80 percent can be any of the
23 ingredients listed in Jazz's patents, right?

24 A. Not any of them.

25 Q. Okay.

CROSS-EXAMINATION - CHRISTIAN MORETON

1 A. Only the ones that's listed in the coating polymers
2 sure.

3 Q. Sure. And so in that section we saw for the
4 functional coating component, it lists various ingredients,
5 right?

6 A. Yes.

7 Q. And Jazz's patent doesn't state any preference for
8 those ingredients one over the other, correct?

9 A. No, it does not.

10 Q. And different combinations of those ingredients would
11 result in a functional coating with different properties,
12 right?

13 A. I'll have to refresh my memory on what's listed
14 there.

15 Q. Okay. We may do that another time.

16 But as we saw -- and we can turn back to some of
17 this and we'll go through some of this, but it's a lengthy
18 section. If we go to page 22, this is the section you were
19 referring to, right, Dr. Moreton?

20 A. "Functional Coating Composition," yes.

21 Q. Right. And it's the ingredients in this section from
22 column 11 to column 13 that provide those ingredients?

23 A. Yes, I believe so.

24 Q. And the ingredients that are listed here and the ways
25 they can be used, these were all known before Jazz filed its

CROSS-EXAMINATION - CHRISTIAN MORETON

1 patents, right?

2 A. Yes, the ingredients that are listed, yeah.

3 Q. And how the functional coating works, if it works,
4 will depend on the contents of the functional coating,
5 right?

6 A. Yes.

7 Q. The patent says the coating can "include one or more
8 base polymers and at least one pore former," right? This is
9 at page 22, column 12, lines 40-42.

10 A. Yes, that's correct.

11 Q. And here we, again, see the word "may," right?

12 A. Yes.

13 Q. So these are both optional ingredients in the
14 functional coating as it's described in the specification?

15 A. It says, "may include one or more," but I believe it
16 means at least one.

17 Q. Okay. So your testimony is that that means -- "may
18 include" here requires one base polymer and requires one
19 pore former?

20 A. That's my reading of the -- of the wording.

21 Q. Okay. Polymers can be water-soluble or
22 water-insoluble, agreed?

23 A. Correct.

24 Q. Water-soluble polymers function differently than
25 water-insoluble polymers?

CROSS-EXAMINATION - CHRISTIAN MORETON

1 A. Correct.

2 Q. There are more than a dozen different polymers you
3 can use, right?

4 A. Which type?

5 Q. Both.

6 A. There are many. There are many water-soluble and
7 water -- there are many polymers, some of which are
8 water-soluble, some of which are water-insoluble.

9 Q. When you say "many," how many is that, Dr. Moreton?

10 A. Let's think. So water-soluble, there's probably
11 between 12 and 20 if we include the natural polymers.

12 Q. Okay.

13 A. For water-insoluble polymers, maybe 5 or 6.

14 Q. So my estimate was a little more. It's more like
15 20 different water-soluble polymers you can use.

16 A. You could use 20 different polymers, but you only
17 want to use 2 insoluble polymers.

18 Q. Okay. Now, the patent doesn't express any preference
19 for any particular polymer or combo of polymer, does it?

20 A. No, I don't believe so.

21 Q. And we see here pore formers are another functional
22 ingredient you can put in the polymers?

23 A. That's correct.

24 Q. And the patent describes the inclusion of pore former
25 in the functional coating as an optional ingredient?

CROSS-EXAMINATION - CHRISTIAN MORETON

1 A. Well, this refers to the base polymer -- the pore
2 formers, that's a different part of the specification.

3 Q. At line 41 and 42, it refers to the pore former,
4 right, Dr. Moreton?

5 A. Oh, sorry. It does, yes, apologize.

6 Q. And so these are another optional ingredient that you
7 can use in the functional coating?

8 A. Yes, they would -- they would include at least one --

9 Q. Okay.

10 A. -- I believe.

11 Q. Your testimony is that the specification requires the
12 functional coating to include one pore former?

13 A. If you don't have the pore former, you may not get
14 the functional coating.

15 Q. I'm just asking what the specification says.

16 A. The specification says "may," but a POSA reading it
17 would understand that you would need at least one pore
18 former.

19 Q. Okay. So the POSA would just cross out that "may"
20 and understand that it's required; that's your testimony?

21 A. POSA would understand that in order to get the
22 functional coating, you would need something that allows you
23 get the functional coating.

24 Q. Well, you could have a base polymer, correct?

25 A. Some base polymers may, but many may not.

CROSS-EXAMINATION - CHRISTIAN MORETON

1 Q. Okay. Now, there are different types of
2 functional -- or different types of pore formers referred
3 to, correct?

4 A. Yes.

5 Q. And we see you can have polymeric pore formers at
6 column 12, you can have small-molecule pore formers on page
7 22 and 23, you can have pore formers that comprise a polymer
8 that expands in the presence of a drug, right?

9 A. Yes.

10 Q. And then the patent says it's possible to use an
11 enteric component as all or part of one of the pore formers
12 in the coating, right?

13 A. Correct.

14 Q. It doesn't say it's a good idea?

15 A. It doesn't say it's a bad idea either.

16 Q. Okay. Right.

17 And after it introduces this concept of enteric
18 pore formers, it says, "However, incorporating enteric
19 components in the film may result in" certain delivery
20 characteristics, right?

21 A. Yes.

22 Q. When counsel showed you this section, he didn't
23 highlight the word "however," correct?

24 A. I can't recall.

25 Q. Okay. "However" would suggest that there's something

CROSS-EXAMINATION - CHRISTIAN MORETON

1 dis- -- there's a disadvantage to using an enteric pore
2 former?

3 A. No, it does not.

4 Q. Okay. You don't take anything from the word
5 "however" in this sentence?

6 A. It's reminding the reader of the patent that enteric
7 pore formers have certain properties --

8 Q. Okay.

9 A. -- and that they should remain aware of them.

10 Q. Okay. And in the middle of this paragraph, we see
11 the reference to MAMM, right?

12 A. Correct.

13 Q. It's one of three different examples of an enteric
14 pore former listed in the patent?

15 A. Correct.

16 Q. And nothing in this section provides guidance that
17 MAMM specifically should be used, right?

18 A. It doesn't make a distinction.

19 Q. Okay. MAMM is what's a type of compound called a
20 polymethacrylate, right?

21 A. It's polymethacrylic acid-polymethyl methacrylate
22 copolymer.

23 Q. And that's a member of a broader class of polymers
24 commonly referred to as polymethacrylates?

25 A. Correct.

CROSS-EXAMINATION - CHRISTIAN MORETON

1 Q. There are other polymethacrylates that are
2 nonenteric, right?

3 A. Yes.

4 Q. And, in fact, Plexiglass is a type of
5 polymethacrylate, right?

6 A. Plexiglass is a type of acrylate. It may be even a
7 methacrylate, but it's not a copolymer.

8 Q. Okay. Now, we can agree, I think, that MAMM, because
9 it's enteric, it's a pH-dependent polymer, correct?

10 A. It has a pH-dependent solubility, yes.

11 Q. Okay. And there are also polymers and ingredients
12 you can use in the functional coating that are nonpH
13 dependent, right?

14 A. That's the nonenteric pore formers, yes.

15 Q. And you testified on your direct examination that if
16 you wanted a lag time, you'd use an enteric pore former,
17 correct?

18 A. That's what I testified to, yes.

19 Q. Okay, but in the specification of the patent, it
20 doesn't give you any reason that you'd want a lag time?

21 A. Like I said on direct examination, the lag time or
22 lack -- or if they wanted a lag time, that would be decided
23 in consultation with the clinical and pharmacokinetics
24 members of the team. The formulation scientists would take
25 their advice as to whether lag time was needed.

CROSS-EXAMINATION - CHRISTIAN MORETON

1 Q. So just to be clear, Jazz's patent doesn't give you
2 any reason you'd want a lag time, correct?

3 A. Well, it doesn't give you any reason why you'd want a
4 lag time. It says if you do want a lag time, this is a way
5 to do it.

6 Q. Okay. And there are other ways to get a lag time
7 besides using an enteric pore former, correct?

8 A. Yes.

9 Q. And in general terms, a formula that includes a
10 pH-independent polymer will not behave the same way as a
11 formula with a pH-dependent polymer, right?

12 A. Sorry. Would you say that again, please.

13 Q. Sure. A formula with an enteric pore former will not
14 be expected to perform in the same way as a formulation with
15 a nonenteric pore former?

16 A. That would be a difference, yes.

17 Q. Okay. And pore formers can interact with other
18 components in the functional coating, right?

19 A. Possibly.

20 Q. And you don't actually know whether all pore formers
21 work in the same way at the same concentration?

22 A. No, I do not.

23 Q. Jazz's patent doesn't refer to vegetable oil as a
24 potential ingredient in the functional coating in that
25 section of the patent, does it?

CROSS-EXAMINATION - CHRISTIAN MORETON

1 A. It refers to the fact that you can have fillers in
2 the coating and those are fatty hydrophobic materials.

3 Q. Okay. But it never uses the words "hydrogenated
4 vegetable oil" in the section of the patent describing the
5 functional coating?

6 A. Correct.

7 Q. In the cartoon that you put up with the curves, one
8 from the patent, one from Mr. Allphin's notebook -- do you
9 recall that?

10 A. Yes.

11 Q. The data from Mr. Allphin's notebook, that's not in
12 the patent, right?

13 A. That's correct.

14 Q. Do you know why Mr. Allphin didn't provide that data
15 to the Patent Office?

16 A. I have no -- I have no idea. You'd have to ask
17 Mr. Allphin.

18 Q. Thank you.

19 THE COURT: All right. I'm going to give the
20 jury the morning break at this time.

21 All right. Let's come back at noon.

22 Dr. Moreton, you're still under oath. You can't
23 talk to counsel.

24 THE WITNESS: Thank you, Your Honor.

25 (Break taken.)

DIRECT EXAMINATION - CHRISTIAN MORETON

1 THE COURT: All right. You may be seated until
2 the jury comes.

3 MR. CALVOSA: May I proceed, Your Honor.

4 THE COURT: Yes.

5 BY MR. CALVOSA:

6 Q. Dr. Moreton, I just have a couple follow-up questions
7 for you.

8 The first is, do you remember Avadel's counsel
9 asked you about a document that talked about a nonenteric
10 approach?

11 A. Yes.

12 Q. Is MAMM a nonenteric polymer?

13 A. No, it is not.

14 Q. Do you remember counsel for Avadel asked you about
15 why Dr. Allphin's IR beads were unsuccessful, and then you
16 said you'd have to ask Dr. Allphin?

17 A. Yes.

18 Q. I didn't hear it, did you hear Avadel's counsel ask
19 Mr. Allphin about that e-mail?

20 A. I didn't hear it, no.

21 Q. Okay. And it could have been for a reason unrelated
22 to the technology in this '488 patent, correct?

23 A. Correct.

24 Q. We just don't know?

25 A. No, we...

DIRECT EXAMINATION - CHRISTIAN MORETON

1 Q. You mentioned, sir, knowledge of a POSA. Does a
2 POSA, in your opinion, just walk up to a patent with none of
3 their prior knowledge?

4 A. No, they do not. They --

5 Q. They --

6 A. They wouldn't be a POSA if they didn't have prior
7 knowledge.

8 Q. And Avadel's counsel kept insinuating that Jazz's
9 patent wasn't adding anything because certain information
10 was already known in the art, did you hear that?

11 A. Yes.

12 Q. Avadel's put a bunch of experts on the stand this
13 week. Did you hear any experts saying that combining the
14 enteric pore formers that are disclosed in Jazz's patents,
15 such as MAMM, with gamma-hydroxybutyrate, was known in the
16 art?

17 A. No, I did not.

18 Q. You had mentioned that a POSA would know how to go
19 from tablets to microparticles based on the literature that
20 existed before the '488 patent?

21 A. Yes.

22 Q. Can you turn to JTX101 in your binder?

23 A. Yes, okay.

24 Q. Do you recognize JTX101?

25 A. Yes, I do.

DIRECT EXAMINATION - CHRISTIAN MORETON

1 Q. What is it?

2 A. This is a U.S. Patent Number 6,514,531, it's dated
3 February the 4th, 2003, and the inventors are Gérard Alaux,
4 Gareth Lewis, and Frédéric Andre.

5 MR. CALVOSA: Your Honor, at this time we move
6 for admission of JTX101 into evidence.

7 MR. BRAUSA: No objection.

8 THE COURT: JTX101 is admitted.

9 (Exhibit admitted.)

10 BY MR. CALVOSA:

11 Q. And I'm just going to call it JTX101, because I can't
12 pronounce Alaux as well as you.

13 Can you turn to page 15 of JTX101, column 6,
14 lines 4-10. And it's up on the screen in front of you as
15 well.

16 A. Okay.

17 Q. Can you explain to the jury what's being taught by
18 this patent?

19 A. This is the -- this patent is explaining that
20 prolonged-release pellets are prepared by coating
21 immediate-release pellets in the same way as described for
22 tablets. And the coating may be carried out, for example,
23 in coating. And the amount and composition of the coating
24 is adjusted for that use in tablet manufacturing of coating
25 to reduce permeability of the coating in order to take into

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1 account the far greater surface area for diffusion of the
2 pellets.

3 Q. And how does that relate to your opinions regarding
4 transferring from tablets to microparticles?

5 A. This is explaining how these inventors transitioned
6 from the tablet to microparticles and how they adjusted the
7 surface -- or the coating composition to take into account
8 the change.

9 Q. So would this be something a POSA would have been
10 aware of as of the '488's March 24, 2011, priority date?

11 A. Yes, they should have been. Yes.

12 Q. Let's go back to the '488 patent, JTX003.23, and I
13 want to look at column 4, lines 10-22. And I want to focus
14 on the last sentence that opposing counsel focused on.

15 That capsule there, how would a POSA go about
16 formulating a controlled-release capsule?

17 A. In my experience working both in formulation and as a
18 practicing pharmacist, formally, sustained-release capsules
19 have, in my experience, the ones I have encountered, all
20 contain coated microparticles.

21 Q. I'd like to go to page 23, beginning column 13, line
22 59, and continuing on to column 14, line 4. You had
23 mentioned during opposing counsel's questions about certain
24 fillers and anti-tack agents in the '488 patent when he
25 asked you about hydrogenated vegetable oil.

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1 How did that inform your opinion regarding
2 hydrogenated vegetable oil being used in the functional
3 coating?

4 A. Well, it listed here two, what they call anti-tack
5 agents, glyceryl monostearate and -- magnesium stearate, as
6 I mentioned earlier. These are hydrophobic materials which
7 can be used as -- also as fillers, and that's explained in
8 the -- further down, the fatty hydrophobic materials, which
9 can be used, and hydrogenated vegetable oil type 1 is a
10 fatty hydrophobic material that can be used in the same way,
11 has very similar properties to glyceryl monostearate.

12 MR. CALVOSA: You can take this down, Mr. Lewis.

13 BY MR. CALVOSA:

14 Q. A couple of questions, I promise. Opposing counsel
15 asked you about your experience with GHB, the molecule at
16 issue here?

17 A. Yes.

18 Q. And while you testified you have no experience with
19 GHB, you testified you have experience with compounds
20 related to GHB, right?

21 A. What?

22 Q. I'm sorry?

23 A. Sorry. I have experience with compounds that -- not
24 chemically related to GHB, but have been used in what you
25 might call neurological conditions and things like that.

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1 Q. So similar properties?

2 A. Some property, maybe, yes.

3 Q. Did you hear Dr. Charman testify that in Claim 24 he
4 has no experience with GHB?

5 A. Yes, he did.

6 Q. And Dr. Charman didn't testify that he had experience
7 with any compounds either related or similar to GHB?

8 A. That's correct.

9 Q. And did you hear Dr. Charman testify yesterday that
10 the level of proof for invalidity is that clear and
11 convincing evidence standard all the way up here?

12 A. Yes.

13 Q. Who has the burden on for the clear and convincing
14 evidence standard, is it on --

15 MR. BRAUSA: Objection.

16 THE COURT: Sustained.

17 BY MR. CALVOSA:

18 Q. Dr. Moreton, based on the '488 patent disclosures, if
19 a POSA wanted to use lag time, which type of pore former
20 would they use?

21 A. They'd use an enteric pore former.

22 Q. And how many enteric pore formers does the '488
23 patent disclose?

24 A. Three.

25 MR. CALVOSA: No further questions.

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1 THE COURT: All right. Dr. Moreton, you may
2 step down, thank you, sir.

3 THE COURT: Thank you, Your Honor.

4 MR. CERRITO: Plaintiffs call Dr. Steven Little.

5 THE COURT: Dr. Little, please take the stand.

6 (Dr. Steven Little, having been previously
7 sworn, testified as follows:)

8 THE COURT: Dr. Little, you're still under oath.

9 THE WITNESS: Yes, sir.

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11 BY MR. CERRITO:

12 Q. Welcome back, Dr. Little.

13 Would you reintroduce yourself to the jury?

14 A. Sure, nice to see you all again, my name is Steve
15 Little. If any of you have a space heater you can lend me,
16 that would be great.

17 Q. I did walk by the stenographer's desk, there seems to
18 be heat coming from there.

19 Why are you back to testify today?

20 A. Yeah, so Defendants offered testimony on the '782
21 patent, which is one of the patents that you heard
22 Dr. Charman talk about. There were arguments. I was asked
23 to evaluate any arguments and offer opinions in that
24 response.

25 Q. Can you remind me what Claim 24 requires?

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1 MR. CERRITO: Can I have JTX6.19, please.

2 THE WITNESS: Okay. So what's being shown here
3 is Claim 24, it depends on Claim 14, which is right above
4 it. And you can see this is the one here that's got the
5 viscosity-enhancing agent and acids and the
6 viscosity-enhancing agents and acid are separate from the
7 GHB-containing pieces, the particles.

8 And then there's also the addition that the unit
9 dose is in a agent.

10 BY MR. CERRITO:

11 Q. I assume you were in the courtroom for Dr. Charman's
12 testimony?

13 A. I was.

14 Q. Do you agree with Dr. Charman's invalidity opinions?

15 A. There are opinions he gave I disagree with.

16 Q. Why don't we go over what these are.

17 MR. CERRITO: Charman's slide DDX60, please.

18 Thank you.

19 BY MR. CERRITO:

20 Q. Let me ask you, what was your approach for responding
21 to these issues with Dr. Charman?

22 A. Sure, the issues that are on the screen here that I'm
23 going to be replying to here today, these involve the '782
24 patent, Dr. Charman talked about a couple of different
25 patents. I'm going to be talking about these different

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1 critiques on the '782, and these are what's called written
2 description.

3 So there is a legal standard that I was asked to
4 use, I'm not going to go through that, I understand the
5 judge is going to instruct you on what the legal standard is
6 and how to apply that. I'm just going to try to describe
7 that in the simplest way I can.

8 So I'm responding to Dr. Charman on these
9 issues, and what my understanding is he needs to provide
10 evidence that is clear and convincing evidence that is '782
11 patent claim, 24, that we just saw, and claim 14, which it
12 depends from, is not described in the specification of the
13 application for the '782 patent, which was in 2016.

14 So what I was asked to do is step into the shoes
15 of the person of ordinary skill here, which, again, is the
16 person that the specification here was written to so that
17 they could understand.

18 And if you remember -- I'm not going to go
19 through it again, you've seen it a lot. But if you remember
20 that individual had a number of different degrees and a
21 number of different years of hands-on experience. So if you
22 add them up, it's somewhere around approaching 15 years of
23 education and experience being a formulator.

24 So I'm stepping into that individual's shoes,
25 with that amount of education, with that amount of hands-on

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1 experience. And through their eyes, I'm looking at the 2016
2 application for the '782 patent and I'm saying, can that
3 individual see description of these things that are listed
4 here?

5 And I did that, and I did find description, and
6 I'm going to show you where that description is. In
7 addition to that, the examiner looked at it and the examiner
8 found description for it, and I'll show you that.

9 So in my opinion, Dr. Charman has not provided
10 any standard let alone clear that this does not have
11 description.

12 Q. Why did you analyze the written description from the
13 perspective of a POSA in 2016?

14 A. That was when the application for the particular
15 patent was given and when the examiner found written
16 description for these individual pieces.

17 Q. And just so we can talk about the application, what
18 is the application?

19 A. It is the '586 application, I believe were the last
20 three numbers, and it was in 2016, that's the priority date
21 to the '782 application.

22 A. Yes.

23 Q. Let's go to Dr. Charman's example in the '782 patent.
24 Does it describe nonresinate microparticles?

25 A. Absolutely not. There is description that I found in

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1 and both the examiner found for that claim element.

2 Q. Did you hear Dr. Charman say whether or not the
3 Patent Office examiner did a written description analysis
4 during the prosecution of the '782 patent?

5 A. What I heard was he did not see or was not aware that
6 the examiner did that.

7 Q. Do you know whether the examiner looked to see
8 whether the modified-release particle limitation of Jazz's
9 '782 patent claims had written description support in the
10 '586 patent application?

11 A. Yes, I found the examiner did do that analysis and
12 did find description.

13 MR. CERRITO: Mr. Lewis, could we pull up JTX12
14 at 0.123.

15 BY MR. CERRITO:

16 Q. And, Dr. Little, can you explain what this is?

17 A. Sure, this is the portion of the back-and-forth where
18 the examiner found description for the element that
19 Dr. Charman says missing. It says here in highlights
20 there's immediate-release, and then you see modified-release
21 portion.

22 And then it says "comprising
23 gamma-hydroxybutyrate," and then it lists the location where
24 the examiner found the description for it.

25 Q. So, Dr. Little, do you agree with the examiner that

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1 the '586 application discloses nonresinate particles?

2 A. I do. It's here and also it's in a number of places
3 that I'll show you now.

4 MR. CERRITO: Mr. Lewis, can you now go to
5 PTX700.11.

6 BY MR. CERRITO:

7 Q. Dr. Little, what does that paragraph show?

8 A. This, again, is '586, paragraph 10. It says, "One
9 embodiment of the invention is a GHB formulation comprising
10 polymeric beads and pharmaceuticals, it's pharmaceutically
11 acceptable excipients."

12 So polymeric beads are what we have been talking
13 about in the different patents, those do not need to be
14 resinate, that's a more general term.

15 Q. So in your opinion, it supports your view it's not
16 limited to resinates?

17 A. It does, yes.

18 MR. CERRITO: Mr. Lewis, PTX700.10, please.

19 BY MR. CERRITO:

20 Q. Dr. Little, what is the jury seeing here?

21 A. Yeah, this is in the summary of inventions. This is
22 paragraph 4. It says, "One embodiment of the invention is a
23 GHB formulation comprising polymeric beads and
24 pharmaceutically acceptable excipients."

25 This is another example of it being general.

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1 Q. Any other disclosures that we already went over that
2 supports an opinion of the POSA understanding the '782
3 specification is not limited to resinates?

4 A. Yes, there's also the specification of the '488
5 patent, which is incorporated by reference into the '782
6 patent specification.

7 Q. How does the '488 support your opinion?

8 A. Well, the '488 is only about nonresinate
9 formulations, so it's going through the technology that
10 we've been hearing about, it's not resinates. I think
11 Dr. Charman called them conventional formulations, right.
12 And there's descriptions that refer to those formulations in
13 the '488.

14 Q. You mentioned "incorporation by reference," we've
15 heard that all, incorporation by reference a number of
16 times, can you just remind the jury what that means?

17 A. When we write patents, one of the things I understand
18 we're allowed to do is incorporate by reference, and one of
19 the ways we can keep the specifications manageable and short
20 so you can -- it's like referring to another document but
21 this is such -- you're saying, I am referring to this other
22 document such that its specification is actually in my
23 specification.

24 Q. Thank you. Were you in the courtroom when
25 Dr. Charman testified that the powder formulations disclosed

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1 in the '488 patent would not include microparticles?

2 A. I was.

3 Q. Do you agree?

4 A. I don't.

5 Q. Why not?

6 A. Well, first of all, microparticles are certainly
7 powders, we make microparticles all the time and we call
8 them powders. It's one of the subset that we call powders.
9 In addition to that, this patent -- patents that we're
10 talking about here refer to them as powders, and even
11 Avadel's patent, the '062, refers to particles they are
12 talking about as powder.

13 Q. Did you hear Mr. Charman testify about the '782
14 patent specification criticizing conventional approaches for
15 modified release saying they were difficult to use with
16 oxybate, do you have an opinion on whether a POSA would
17 agree with Dr. Charman?

18 A. I did hear that, and I -- I've reviewed the portion
19 of the specification that he's referring to, it's just I
20 don't read it in the same way that Dr. Charman does.

21 Q. Okay. Let's look at the section of the specification
22 Dr. Charman relies on.

23 MR. CERRITO: Mr. Lewis, could you please pull
24 up DDX61, please.

25 BY MR. CERRITO:

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1 Q. Dr. Little, what's your opinion how a POSA would
2 understand this section of the '782 patent?

3 A. Okay. This is the portion that Dr. Charman says
4 disparages conventional formulations, it's part of a greater
5 section. You can see up at the top, it's kind of
6 grayed-out, it says, "Unusually mobile in solution" --
7 that's referring to the drug and leads into what we're going
8 to be talking about.

9 Dr. Charman used an analogy -- and he's from
10 Australia, so maybe that's a good analogy. I instead will
11 use the analogy of a bird.

12 If you have a very small bird, that would be
13 something that would be highly soluble and mobile in
14 solution. So what you're trying to do is -- how you can
15 keep it from flying out of the cage too fast, okay.

16 So I'll just read this. It says, "These factors
17 complicated, and, in many case, limit conventional
18 approaches." It doesn't say it's going to eliminate all
19 conventional approaches, it says limit.

20 Then it says for modified release, such as
21 core-shell, or matrix formulation, as the high solubility
22 and mobility of GHB -- again, a small bird -- would tend to
23 significantly reduce the number of viable approaches, so
24 they are reduced but they are not eliminated. It's not like
25 there are zero approaches using such conventional soluble

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1 and diffusivity control technologies that I would refer to
2 in a simple analogy as a bird cage.

3 Q. Doctor, how would a POSA hold that small bird in a
4 cage, as you described it?

5 A. Yeah, in the case of a bird cage, we can come up with
6 some things that we might do to keep it in, if you think
7 about it for a second. So one thing we could do would be to
8 use maybe thicker bars, that would help to keep the bird in.
9 Another thing, if you think for a second what we could do,
10 is maybe add more bars. So you can use the same bar but you
11 would put more of them in.

12 So in the context of the '782 patent
13 specification and the '488 patent, that's incorporated by
14 reference, it talks about things like pore formers which are
15 the spaces between cages, or the thickness of coating is
16 another example of this. And those are analogous to the
17 thickness of the bars or the spacing of the bars for the
18 pores.

19 And if you do those things, although you
20 wouldn't be able to use perhaps what you would call standard
21 potential, like a bird cage, you could come up with a bird
22 cage design that fits this criteria. Solve the problem with
23 GHB. Yes.

24 Q. With a POSA eye and experience and education, they
25 could -- Dr. Charman said a POSA would need to see data

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1 demonstrating the nonimmediate release of oxybate from the
2 particles in order to show written description, do you agree
3 with that?

4 A. I don't in this instance, no.

5 Q. Why not?

6 A. Well, so, first of all, let me just establish that I
7 look at a lot of patents, I write my own, and you do not
8 have examples for every single permutation of something that
9 you would have an embodiment for a particular invention.

10 MR. SCHULER: Objection, Your Honor, Rule 26.

11 THE COURT: Okay. Let's come to sidebar.

12 (Whereupon, a discussion was held at sidebar as
13 follows:)

14 MR. SCHULER: I don't --

15 MR. CERRITO: This is the deposition transcript
16 of 11/16 at 189 to 190.

17 MR. SCHULER: He appears to be testifying and
18 seems to implying what the legal standards are for a patent.

19 MR. CERRITO: I'm asking what a POSA would need
20 to see and he's testifying as a POSA, does he need to see
21 data, no a POSA needs to see it.

22 MR. SCHULER: They are admitting something not
23 in his report.

24 MR. CERRITO: I have given a citation, he
25 testified about it, Your Honor. They know it, it's no

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1 surprise.

2 THE COURT: What a POSA needs to see, so...

3 what's...

4 MR. SCHULER: I don't see it in his report.

5 MR. CERRITO: Again, you asked him questions at
6 his deposition.

7 THE COURT: Okay. So you're saying it's not in
8 his report, you're saying he answered these questions at
9 deposition.

10 MR. CERRITO: They were put on notice, it's not
11 a surprise.

12 MR. SCHULER: I don't have the transcript, I can
13 check, but...

14 MR. CERRITO: It's one question. I'm not going
15 to spend a ton of time. I want to make sure I'm not telling
16 you false -- you can't see my questions. I'm sorry. I
17 apologize.

18 (Whereupon, the discussion held at sidebar
19 concluded.)

20 BY MR. CERRITO:

21 Q. So let's regroup real quick, Doctor. Dr. Charman
22 testified that a POSA would need to see data, you remember
23 we talked about that, and you said you didn't agree,
24 correct?

25 A. Yes.

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1 Q. And I asked you why, why wouldn't you agree?

2 A. Well, so the first thing I was going to just
3 establish is that I have seen a lot of patents, I write them
4 myself -- I work with lawyers to write them myself, probably
5 more involved than they'd like me to do, but I enjoy it.
6 And when we do that, we have to look at all these other ones
7 to compare it to as well.

8 In the pharmaceutical formulation patent world,
9 if you put an example of every permutation, the patent would
10 be so big you wouldn't be able to use it. So what I think
11 you have to understand is a person of ordinary skill in the
12 art comes to the table with a specific set of experience,
13 expertise, education.

14 And what they do, they see the teachings and
15 they think back to all the teachings that they have, so any
16 particular example of something, depending on the
17 circumstances, may allow you to apply it across things in
18 order to get specific release profiles, for instance.

19 Q. So let me see if I can just clarify that a bit. Why
20 wouldn't a POSA need to see data for the actual formulation
21 that the inventors claimed?

22 MR. SCHULER: Objection, asked and answered.

23 MR. CERRITO: I think I asked a slightly
24 different question.

25 THE COURT: You can ask it one last time, go

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1 ahead.

2 THE WITNESS: I'll give an example here. In
3 this particular case, you have in the '488 patent a
4 demonstration that you can actually get the bird to stay in
5 the cage, okay. So now that a person of ordinary skill in
6 the art sees that, and they know of the kind of formulations
7 and the techniques that can be used, you can actually use
8 things to tune those so you -- again, you could use
9 different sized bars, you can space the bars differently,
10 you can do a number of other things that a person of
11 ordinary skill in the art has in their tool box that they
12 bring to the table.

13 So what that would mean is you wouldn't need to
14 see release profile after release profile for every single
15 permutation. As you can imagine, it wouldn't need to be
16 taught to you that way because you have already had that
17 teaching.

18 BY MR. CERRITO:

19 Q. Is there any data disclosed in the '782 patent
20 showing examples of modified release?

21 A. There -- there is, there is example in the '488
22 patent.

23 Q. Where is that data in the '488 patent?

24 A. It's in the examples and then it's described. And I
25 think that --

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1 MR. SCHULER: Objection.

2 BY MR. CERRITO:

3 Q. I meant the '488 patent, sorry, Steve.

4 A. Right, it's incorporated by reference into the '782.
5 So in the '488 you have the figure that shows the data that
6 you can keep the bird in the cage.

7 MR. CERRITO: Can we get back to Charman slides
8 DDX60, please. And let's turn to the second part.

9 BY MR. CERRITO:

10 Q. Dr. Little, it's Dr. Charman's slide here. That the
11 claims do not describe modified resinate particles. What do
12 you understand Dr. Charman's opinion to be there?

13 A. My understanding of Dr. Charman's opinion here is
14 that the patent specification talks about loading the
15 resinate, there's examples of loading it. But loading it
16 doesn't mean that it can lead to a modified release.

17 Again, in this case, immediate release is quick,
18 right, and modified release is not that. So what
19 Dr. Charman's opinion is that because you load doesn't mean
20 that you wouldn't always get immediate release. It doesn't
21 say that you could get modified release.

22 Q. Unlike Dr. Charman, do you have any actual hands-on
23 experience in this area?

24 A. I do, we use resinate-based formulations and the
25 mechanisms all the time to release things.

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1 Q. And do you agree with Dr. Charman that resinate
2 formulations disclosed in the '782 patent would not control
3 the release of GHB?

4 A. I disagree with that strongly.

5 Q. Do you remember when -- Dr. Charman's graphics when
6 he put up how a resinate particle works, it was that pink
7 ball, squares came in, do you recall that?

8 A. It looked like a big porous ball.

9 Q. Yeah.

10 MR. CERRITO: Mr. Lewis, Charman demonstrative
11 WC 66 and 67, please.

12 THE WITNESS: These it.

13 BY MR. CERRITO:

14 Q. Is that it? Yup, that's the one.

15 Dr. Little, how is this -- how do resinates
16 work, does it all release as quickly as shown in what
17 Dr. Charman showed?

18 A. Here's what I'll say. I think the mechanism that he
19 discussed is right, I agree with that particular
20 characterization of how it works. There is a charge on
21 these beads and the drug has the opposite charge, so they
22 are sticky in that way and it makes these stick.

23 The issue was, and I think my feeling is that,
24 you know, if you blink, that's all gone, that's not the way
25 it works.

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1 So what would be more accurate is that those
2 blue guys that just all flew in made everything dissolve
3 immediately, that's not how that is. Those are sort of
4 everywhere.

5 And what happens is one of those blue guys will
6 come in and you'll see, like, an exchange happen, and that
7 exchange takes a period of time. And then once that
8 happens, this guy can go away. But then the other one over
9 here, it doesn't just go away like that, there's a period of
10 time where this exchange occurs, it's not immediate like
11 this.

12 In my personal experience, we actually have a
13 harder time getting them to release sooner than we do
14 getting them to release longer.

15 Q. Does the patent specification, the '586 patent
16 application specification talk -- address this issue?

17 A. It does. In fact, it says specifically for this
18 instance a person of ordinary skill in the art would
19 understand it teaches you it would have the opposite
20 problem. It potentially always be modified release,
21 according to the way the patent talks about it.

22 MR. CERRITO: Mr. Lewis, could we get paragraph
23 62, that's PTX700.31, please.

24 BY MR. CERRITO:

25 Q. Dr. Little, what is the jury seeing here?

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1 A. Yeah, this is in paragraph 62 of the '586
2 application. And what it says is because of the
3 circumstance here with the drug, you have an unusually large
4 molar amount. What that means is there's lots and lots and
5 lots of these molecules that are taking up these sites.

6 In order to exchange for that site, you need a
7 lot of counterions. So what it says here is that, for
8 example, when the resinate beads are retained in the
9 stomach, the release of GHB from the resinate beads provided
10 by ion exchange with gastric ions, so that's like a chloride
11 ion in your gastric conditions in your stomach, that can be
12 limited by rate of stomach acid secretion. So it isn't like
13 it flies off, it's like there's not enough of those ions to
14 be able to make the exchange.

15 If you keep reading, it actually says as the
16 resinate beads transition to -- that funny word is the
17 duodenum, that's the stomach and small intestine. So now
18 we're talking about hours after you take it, not right away,
19 where there is still the chance of this secreting.

20 If you see -- just right underneath of it, local
21 and ion capacity, what the specification, you're going to
22 have too long of a limit not too short of a release so
23 you're not going to be concerned about having release for
24 these.

25 Q. Dr. Little, let's turn to third basis of

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1 Dr. Charman's opinion, DDX60.

2 What did you understand Dr. Charman's opinion on
3 cross-examination to be?

4 A. Okay. So this has to do with the viscosity enhancing
5 and the acid being separate. What I understand his opinion
6 is the patent doesn't explicitly tell you to keep them
7 separate. But then asked on cross-examination, what I heard
8 in the deposition, he said it would be trying to remember
9 the word for it, it was -- it was rare or something like
10 that. That's probably not correct. But it was not the case
11 that you would expect it to be inside of the particles very
12 often. And that's absolutely not the case here.

13 I can't think of a reason why in this case you
14 would want to put it inside. It would overcomplicate things
15 and things wouldn't be readily available right away in order
16 to do the jobs that the specification says they need to do.

17 Q. Doctor --

18 MR. CERRITO: Mr. Lewis, can you pull up PTX700
19 at paragraph 54, that's 700.29, please.

20 BY MR. CERRITO:

21 Q. Dr. Little, what are we seeing here?

22 A. This is paragraph 54 of the '586, and this is the
23 portion of the specification that talks about adding things
24 to the suspensions. And if you go down on this list, one is
25 a thickener which is, again, the viscosity-enhancing agent.

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1 And then you have a particular list of some examples of
2 viscosity-enhancing agent.

3 Q. Let's move on to the other, the second component, the
4 acid. What's your opinion regarding what the '782 patent
5 teaches a POSA about using an acid?

6 A. So what's discussed in regard to using an acid, I
7 think we might have seen this already, if I remember, but
8 you're talking about having components in this dosage form
9 that respond when things get too basic. So if it's designed
10 to function in an acidic condition and things get too basic,
11 you're messing up the function. So there's a portion of the
12 specification that talks about that.

13 Q. Okay.

14 MR. CERRITO: Excuse me, could we get
15 Dr. Charman's slide back up, please. Sorry, sorry,
16 Mr. Lewis, can you turn -- let's go to -- pull up the '586
17 application, paragraph 21, that's PTX700 at 16.

18 BY MR. CERRITO:

19 Q. Dr. Little, what are we looking at here?

20 A. Yup, there is the portion of the specification that
21 discusses this and what's needed. So it says here, "Due to
22 the buffering effect of oxybate," and then there's a phrase
23 there that has to do with how the drug is going to impact
24 the pH of the solution, it's called a PKA. It says, "The
25 immediate-release portion of the dose would cause the

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1 gastric pH to increase."

2 So you are at a pH where everything is
3 functioning the way you want, but then you have the
4 immediate release of the GHB, that GHB then is going to take
5 the pH and it's going to shift it, right. But it's going to
6 get close to that 6 where something is not going to work.
7 So more basic is bad for the components, more acidic puts it
8 back into the range of what you want it to for these
9 components.

10 So it says the concomitant rise of gastric pH
11 could result in at least partial dissolution of the enteric
12 coating, which is what I was talking about earlier.

13 Q. Based on the teaching of the '782 patent and the
14 prior application, would a POSA have an understanding where
15 viscosity-enhancing agent and an acid are in the
16 formulation?

17 A. Yeah, for them to do these jobs, you would just put
18 them outside of the immediate-release and the
19 modified-release particles, they would be readily available
20 to dissolve and then serve these functions.

21 MR. CERRITO: Mr. Lewis, could we call up
22 Dr. Charman's 90, DDX90, please.

23 BY MR. CERRITO:

24 Q. Did you address the Wand factors and whether Claim 24
25 was enabled as part of your analysis in this case?

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1 A. Yes, I did.

2 Q. And first, what did you understand your task to be
3 with respect to assessing enablement?

4 A. So like written description, there's a legal
5 framework that I was asked to do this. And, again, the
6 Judge is going to instruct you on that.

7 Very briefly, the idea, again, is to put
8 yourself in the shoes of a person of ordinary skill through
9 their eyes, their hands-on experimentation, their amount of
10 education. And what you're doing is looking at the
11 specification and saying, with those things that are here,
12 can I make that and can I use it?

13 And I'm responding to Dr. Charman's critiques on
14 these because I understand he has to demonstrate by clear
15 and convincing evidence that a person of ordinary skill in
16 the art couldn't do that. I used that standard, I looked,
17 and I believe that a person of ordinary skill in the art can
18 make and use it. And the examiner looked at it and believed
19 that a person of ordinary skill in the art can make and use
20 it.

21 Q. Can make and use it without undue experimentation?

22 A. That's correct.

23 Q. In your opinion, would undue experimentation be
24 required to practice Claim 24 in view of the disclosures in
25 the specification?

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1 A. No, absolutely not.

2 Q. Okay. Dr. Charman mentioned, I think he used the
3 word "extensive experimentation," that was his testimony he
4 didn't say undue, he said "extensive." Is it -- is that
5 different in your understanding from undue experimentation?

6 A. Yes, it is. So I would say that what we do in the
7 art is usually extensive. In fact, right now my students
8 are working in the lab, I'd be pretty surprised if they are
9 not doing extensive experimentation. I might hear about it
10 later. They are doing extensive experimentation, that's
11 what's required to do this.

12 What we're talking about when we're talking
13 about undue, you're just overwhelmed by the amount of
14 experience, you don't even know which direction to go. So
15 extensive experience is completely different and very normal
16 in the art, undue is something completely different.

17 Q. In your opinion, are there any general qualities
18 running through the formulation that fall within the scope
19 of Claim 24 that allow those formulations to modify the
20 release of GHB?

21 A. Yes, there is, there is the more conventional
22 formulations, coatings, and pore formers that are described
23 in the '488 as particulates in the context of the '782. And
24 then in the '782 there's also the resinate particulate
25 formulation.

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1 Q. Could -- did you hear Dr. Charman testify the
2 resinate formulations encompassed in the '782 patent are
3 inoperable based upon some formulation work done by a
4 company called Tris Pharma, we saw some documents?

5 A. I did hear that, yes.

6 Q. Did you -- did Dr. Charman offer any opinion that the
7 Tris formulations actually fell within the scope of the '782
8 patent?

9 A. Not that I heard, no.

10 Q. Did he tell you what the formulation was at all?

11 A. I don't know, he didn't describe the formulation.

12 Q. No, he didn't.

13 Did Dr. Charman offer any opinion that the Tris
14 Pharma formulations made any use of the formulation that had
15 an acid separate from the microparticles?

16 A. No.

17 Q. Did you hear Dr. Charman testify that if Claim 24 of
18 the '782 patent was adequately described then he had no
19 inventorship opinion?

20 A. Yes.

21 Q. So if it's adequately described, he walks away from
22 inventorship, right?

23 A. Well, I don't know what you mean by "walks away"
24 but --

25 Q. Fair enough.

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1 A. -- I think that his inventorship opinion is
2 contingent upon the written description.

3 Q. Have you been in the courtroom this whole trial?

4 A. Sometimes stepping out from time to time, but for
5 most of it, yes.

6 Q. Did you hear Mr. Allphin testify?

7 A. I did.

8 Q. Did you hear Dr. Guillard testify?

9 A. Yes.

10 Q. Did you hear Dr. Mégret testify?

11 A. I did.

12 Q. Did you hear when Mr. Allphin filed this patent
13 application for the '782 patent?

14 A. Yeah, it was February 2016.

15 Q. And when did Dr. Guillard and Mégret file their
16 application?

17 A. It was July later that year, 2016.

18 Q. Five months later?

19 A. Yes.

20 MR. CERRITO: Pass the witness.

21 THE COURT: All right. Cross-examination.

22 MR. SCHULER: Yeah, may we approach the witness
23 on the bench?

24 THE COURT: Yes.

25 MR. SCHULER: May I proceed, Your Honor?

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1 THE COURT: Yes.

2 CROSS-EXAMINATION

3 BY MR. SCHULER:

4 Q. Good afternoon, Dr. Little. If you need to rub your
5 hands together for a break, let me know, I'm --

6 A. It looks like you put a space heater in here.

7 Q. I at least move around a little bit. I apologize for
8 you.

9 Now, Doctor, one of the factors that you
10 analyzed with regard to enablement is the nature of the
11 invention and the predictability of the art, correct?

12 A. Yes.

13 Q. And here, the field is formulation science, right?

14 A. Yes.

15 Q. And we can agree that formulation science is complex?

16 A. I'd say that's fair, yeah.

17 Q. And in addition, we can agree that formulation
18 science is often unpredictable?

19 A. I think it can be, yes.

20 Q. And the difficulties of working with oxybate only
21 increase the complexities associated with formulating
22 oxybate into a finished dosage form, true?

23 A. Yes, as I described.

24 Q. And formulation science can also be unpredictable
25 because a formulator often has to -- I'm sorry, let me

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1 rephrase.

2 Formulation science can also be unpredictable
3 because ingredients can interact with the active ingredient
4 in unexpected ways, correct?

5 A. Yeah, that's possible.

6 Q. Now, the claim at issue provides a particular design
7 constraint called modified release, right?

8 A. Yes.

9 Q. And that constraint itself increases the complexity
10 of the formulation work?

11 A. It would, yes.

12 Q. And Claim 24 recites a unit dose, correct?

13 A. It does.

14 Q. Now, we can agree that the various challenges that
15 are associated with formulating GHB are magnified in the
16 context of formulating a unit dosage form providing
17 controlled release of GHB?

18 A. Yeah. But, again, that's what I described to the
19 jury. That section is -- is what you just summarized, yes.

20 Q. Right. So we can agree that the challenges we just
21 talked about are magnified because now we're trying to make
22 a unit dose of a controlled-release formulation?

23 A. I don't know what you mean, I'm sorry, could you
24 please --

25 Q. Let's look at -- you recall the Allphin 2012

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1 reference that you mentioned several times?

2 A. Sure, yeah.

3 Q. If we put that up at 892.13. And the very first
4 sentence says, "Formulating GHB into a unit dosage form
5 presents various challenges," right; you agree with that?

6 A. Okay. Sure.

7 Q. And then "such challenges are magnified in the
8 context of formulating a unit dosage form providing
9 controlled release of GHB," correct?

10 A. Again, that's what I was describing a little bit
11 earlier to the jury.

12 Q. Okay. Now, I want to talk about the subject matter
13 that falls within the scope of Claim 24.

14 MR. SCHULER: So if we can put that up, it's
15 JTX6 at Claim 24 -- not at 24, Claim 24.

16 All right. So the last claim on the next page.
17 Okay.

18 BY MR. SCHULER:

19 Q. Claim 24 is the unit dose of Claim 14 wherein the
20 unit dose is a sachet, correct?

21 A. Yes.

22 Q. And what is the purpose of a unit dose?

23 A. The purpose of a unit dose is that, you know, for --
24 let's say a sachet has a particular amount of drug that you
25 want to administer to a patient, that's a unit, right.

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1 That's got to be all packaged together such that whenever --
2 whenever you have it, the patient can be able to, you know,
3 open the package, pour it out, and take it.

4 Q. So it's for administration to a patient, right?

5 A. A unit dose is designed for administration to a
6 patient, yes.

7 Q. Okay. And were you -- you were here for
8 Mr. Allphin's testimony, right?

9 A. I was.

10 Q. And did you hear him refer to this invention as one
11 involving improved administrability of a formulation?

12 A. I did hear that, yes.

13 Q. Okay. And in your expert report, you also said that
14 you see this patent as involving improved administrability
15 of a GHB formulation, correct?

16 A. Yes.

17 Q. Now, compared -- more administrable compared to what?

18 A. Yeah, so the way that I would describe this is
19 this -- and if you recall, we were talking -- this was,
20 what, two days ago when I testified, about how if you have a
21 tablet, it's big and it's hard to swallow.

22 So if you go to particles, you could swallow
23 that, but what happens is that it now makes it so that you
24 have several other design challenges, because if you've got
25 a lot of particles, for instance, you have to keep them from

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1 settling to the bottom of the glass. So you have got to
2 build in something to do that.

3 If you have a lot of particles, you have a lot
4 of surface area. So under that circumstance, you know, you
5 might have a situation where you have lots of this drug
6 that's released, like we were just describing, it could
7 influence the pH. And now all of a sudden you have got to
8 build something else in too.

9 So to make that thing administrable and
10 functional, there's additional challenges that are described
11 in the '782.

12 Q. Okay. Now, what patient population was taking
13 tablets containing oxybate as of 2016?

14 A. Patient population?

15 Q. Yeah. You said we were talking about problems with
16 tablets; who was taking tablets in 2016 with oxybate?

17 A. I don't know.

18 Q. Okay. The formulation that was taken by patients at
19 the time of that was called Xyrem, right?

20 A. Sure.

21 Q. And Xyrem is an immediate-release oral solution,
22 right?

23 A. Sure, yes.

24 Q. And there's no discussion in the specification of the
25 '782 patent stating that the Xyrem immediate-release product

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1 was a problem from administrability perspective, correct?

2 A. Well, no, the -- what I'm trying to describe is if
3 you're going to turn it into a controlled-release dosage
4 form, then you have got to have, you know, excipients in
5 there, you've got to make it -- portions of it has got to be
6 nonsoluble, it can't all be dissolved in order for it to be
7 a modified-release system. So it's a different system.

8 Q. Okay.

9 MR. SCHULER: So if we could put up JTX6 at the
10 bottom of column 5. No. Actually, go in and bring out the
11 bottom of column 5.

12 BY MR. SCHULER:

13 Q. All right. The specification says, "While
14 extended-release oxybate dosage forms are known, such
15 extended-release dosage forms are provided as solids, as
16 tablets. Because the required dose of oxybate is high, such
17 tablets can be quite large and/or require the administration
18 of multiple tablets."

19 Do you see that?

20 A. Yes.

21 Q. And you don't know what that's referring to, is that
22 your testimony?

23 A. No, no, that's not my testimony at all.

24 Q. Okay.

25 A. I'm just saying that if you were going to do an

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1 extended-release system, now you've got to take into account
2 a number of other things, like we were discussing.

3 Q. And this one says that the -- the ones that are known
4 are in the form of tablets. Do you know what prior art
5 reference taught tablets?

6 A. I'm sorry, I don't understand your question.

7 Q. It says that release -- extended-release oxybate
8 dosage forms are known in the art, right?

9 A. Sure.

10 Q. Which prior art taught tablets of GHB?

11 A. Well, it's at least -- it's in the discussion we were
12 talking about with the '488 patent.

13 Q. Oh, okay, so the '488 patent involves tablets?

14 A. It does. The technology was originally demonstrated
15 in the '488 as tablets, but the '488 talks about other
16 things as well.

17 Q. Okay.

18 A. But here's the different, the difference is --

19 Q. I --

20 A. -- if you were going to --

21 Q. All I need is --

22 THE COURT: It's cross-examination. Your
23 counsel will give you a chance to explain.

24 MR. SCHULER: So let's put up PTX423.

25 BY MR. SCHULER:

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1 Q. And this is an e-mail from Mr. Allphin to colleagues
2 in August of 2014, do you see that?

3 A. Yes.

4 Q. And the second paragraph says U.S. 20120076865 is the
5 US application we filed for sustained-release film-coated
6 tablets, do you see that?

7 A. I see it there, yes.

8 Q. So that's the Allphin 2012 reference, correct?

9 A. '865. It -- I'd have to check the number, it might
10 be. I don't remember the number.

11 Q. Okay. Look in your binder at DTX892.

12 A. '865 is the number, yes.

13 Q. Okay. So the problem that's defined and identified
14 by the '782 patent is a problem that was created by the
15 Allphin 2012 patent, correct?

16 A. That's not an accurate characterization. If you'd
17 like me to finish, I can explain, if you'd like, or would
18 you like me to wait until direct examination?

19 Q. I'll go step-by-step.

20 The reference in the '782 patent to an
21 extended-release formulations that are in the form of a
22 tablet is a reference to the Allphin 2012 application,
23 correct?

24 A. That part is correct, yes.

25 Q. Okay. That problem was created then by the Allphin

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1 2012 application, correct?

2 A. That's the part that's a mischaracterization.

3 Q. All right. Now, sir, the '782 patent specification
4 includes a description of the difficulties of formulating
5 GHB?

6 A. Yes.

7 Q. Okay.

8 MR. SCHULER: And let's put that up at JTX6.9.

9 BY MR. SCHULER:

10 Q. And it says, "Those skilled in the art will
11 appreciate that these factors complicate and in many cases
12 limit conventional approaches for modified release, such as
13 core-shell or matrix formulations, as the high solubility
14 and mobility of GHB would tend to significantly reduce the
15 number of viable approaches using such conventional
16 solubility and diffusivity control technologies," correct?

17 A. Yes.

18 Q. Now, I thought I heard you said on direct that, well,
19 that just means that you'd have to change some things
20 around, put some more bars on; is that right?

21 A. I did say you would have to use one of the number of
22 approaches that's described here that would be more limited
23 so that it wouldn't be your standard bird cage.

24 Q. Okay. But in reality, sir, in the context of the
25 sentence we are looking at, the reference to significantly

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1 reduced tells a person of skill that one would not be able
2 to use every formulation strategy, correct?

3 A. Mm. It depends on what you mean by "formulation
4 strategy," because you're still utilizing this formulation
5 strategy, you just have to be able to adapt for the size of
6 the bird.

7 Q. All right. You had your deposition taken in this
8 case, correct?

9 A. Yes.

10 Q. And if you -- your deposition transcript is in your
11 binder, your second binder, and you can follow along.

12 MR. SCHULER: But if we could play the video,
13 page 71, 17-21.

14 MR. CERRITO: We wouldn't go to the video, I
15 mean, this is improper impeachment, and before he publishes
16 it.

17 MR. SCHULER: I --

18 THE COURT: Tell me what you're establishing.

19 MR. SCHULER: He just gave an inconsistent
20 answer.

21 THE COURT: Okay. He's saying he gave an
22 inconsistent answer. He can play it.

23 (Video deposition was played for the jury as
24 follows:)

25 Q. In the context of the sentence that we just read,

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1 what does significantly reduce mean to you as a person of
2 skill in this context?

3 A. That it would not allow you to use every formulation
4 strategy.

5 (End of video deposition.)

6 MR. CERRITO: That's not inconsistent with his
7 answer, Your Honor.

8 MR. SCHULER: It's -- I'm not going to argue.

9 BY MR. SCHULER:

10 Q. The specification, sir, of the '782 patent does not
11 identify which conventional solubility and diffusivity
12 technologies do not work with GHB, agreed?

13 A. I don't think there's an explicit reference to it but
14 I don't think a person of ordinary skill in the art would
15 need every explicit reference for that.

16 Q. My simple question is: There's no description in the
17 '782 specification telling a person of skill which of the
18 conventional solubility and diffusivity technologies do not
19 work with GHB?

20 A. That's right, but I --

21 Q. Okay.

22 A. I --

23 MR. SCHULER: Your Honor, can I just get a yes
24 or no.

25 THE WITNESS: -- everything that doesn't work.

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1 THE COURT: Dr. Little, you're on
2 cross-examination. If he asks you a yes-or-no answer,
3 please just answer his question yes or no. Again, your
4 attorney will get a chance to redirect, you'll have an
5 opportunity to explain.

6 BY MR. SCHULER:

7 Q. Okay. So just so the record is clear, the
8 specification of the '782 patent does not identify which
9 conventional solubility and diffusivity techniques do not
10 work with GHB, right?

11 A. They don't go through every one that doesn't work,
12 no.

13 Q. Okay. Now, let's turn to DTX892.13. And were you
14 here during Dr. -- it sounds like you were here during
15 Dr. Charman's testimony yesterday --

16 A. Yes.

17 Q. -- cross-examination?

18 Do you recall Mr. Calvosa pointing to the last
19 sentence here stating, "Despite the challenges noted,
20 formulations and unit dosage forms providing controlled
21 release of GHB are described herein, correct?"

22 A. Yes.

23 Q. Now, let's look at the last sentence of paragraph 29,
24 right above. Paragraph 29. The last sentence there says,
25 "Even further, high water solubility increases drug mobility

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1 and may preclude the use of some approaches utilized to
2 achieved a controlled-release dosage form."

3 Now, GHB is such a compound with drug mobility
4 issues, right?

5 A. I don't know if I'd call it drug mobility issues but
6 it's one of the physiochemical characteristics that you need
7 to consider when you're using GHB.

8 Q. Okay. And it has high water solubility, correct?

9 A. It does.

10 Q. All right. And Allphin 2012 doesn't describe which
11 approaches may be precluded, correct?

12 A. Again, no, it doesn't go through everything that
13 wouldn't work.

14 Q. Now, I think you said you were in court for
15 Mr. Allphin's testimony, right?

16 A. Yes.

17 Q. And do you recall that he said that the technique
18 used for the '488 patent is called a core-shell?

19 A. Okay, yes, I think I remember hearing him say that.

20 Q. Okay. And in this submission, this patent
21 submission, Jazz characterized core-shell as allegedly
22 providing controlled release of GHB, correct?

23 A. Could you repeat your question again, I'm sorry.

24 Q. Yeah. If we go down to paragraph 30, the sentence
25 that counsel read during Dr. Charman's cross-examination,

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1 this Jazz reference -- patent represents that despite the
2 challenges noted, formulations and unit dosage forms
3 providing controlled release of GHB are described using a
4 core-shell technology, right?

5 A. Yes.

6 Q. Okay. Now, five years later, the '782 patent makes
7 another comment about core-shell technique, doesn't it?

8 A. It makes a comment about some types of core-shell
9 techniques, yes.

10 Q. Let's look at that together.

11 MR. SCHULER: Let's put up JTX6 at column 5,
12 starting at line 55.

13 BY MR. SCHULER:

14 Q. And it says, "Those skilled in the art will
15 appreciate the fact these factors complicate, and in many
16 cases limit, conventional approaches for modified release,
17 such as core-shell," right?

18 A. That's what we read before, yes.

19 Q. Okay. In fact, Mr. Allphin himself characterized the
20 tablet project utilizing the core-shell technique as
21 unsuccessful, do you recall that?

22 A. There might have been a portion where he said that
23 one of the attempts that he made was unsuccessful, yes.

24 Q. Okay. Let's look at DTX692, this is in evidence.
25 This is an e-mail from Mr. Allphin to colleagues on

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1 December 23, 2014, right?

2 A. Okay.

3 Q. And that's three years after the filing date you
4 identified for the '488 patent, correct?

5 A. Three years after the filing date?

6 Q. You were discussing on direct examination that the
7 '488 patent was filed in 2011, do you recall that testimony?

8 A. I don't remember saying that. 2016 was the reference
9 point that I was talking about.

10 Q. All right. It's talking about background materials
11 on a PLE-2 legacy program for oxybate sustained release, do
12 you see that?

13 A. Okay.

14 Q. And then in the second sentence, Mr. Allphin says,
15 "You requested some background on our previous unsuccessful
16 attempt at oxybate sustained release," did I read those
17 words correctly?

18 A. It sounds like in 2014, yes.

19 Q. And then he provides a Live Link folder for PLE-2
20 program.

21 Do you see that?

22 A. Yes.

23 Q. Now, turning to page 2, there's a few bullet points
24 at the top of the page. And the second one says, "Drug
25 overcoating sodium oxybate onto a sodium oxybate tablet is

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1 very difficult."

2 Do you see that, sir?

3 A. Okay, yes.

4 Q. All right. Now, let's turn to another subject. As I
5 understand it, your view of the specification of the '782
6 patent is that it encompasses various techniques for
7 modified release, right?

8 A. The whole patent? It does discuss various
9 techniques, yes.

10 Q. Okay. And it includes modified release by resinate
11 technology?

12 A. Yes.

13 Q. It includes modified release by enteric coatings?

14 A. Yes.

15 Q. And it includes modified release by nonenteric
16 coatings?

17 A. Yes.

18 Q. All right. And in your view, I think I understood
19 you to say this, that Allphin 2012 teaches a
20 multiparticulate formulation for modifying release; isn't
21 that your testimony?

22 A. It does.

23 Q. All right. But we can agree that using a
24 modified-release technique with pellets is considerably more
25 challenging when it's applied to tablets, right?

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1 A. It can be more challenging, yes.

2 Q. And can we agree that the Jazz scientists concluded
3 that a nonenteric delayed approach was almost impossible for
4 pellets?

5 A. I don't remember that. It's possible.

6 Q. Okay. You were --

7 A. I don't remember.

8 Q. You were not made aware of that in the course of your
9 review of the materials?

10 A. Maybe. It's just I don't remember, yeah, sitting
11 here.

12 Q. Okay.

13 MR. SCHULER: Let's put up DTX262.2.

14 BY MR. SCHULER:

15 Q. And do you see that this is a assessment of delayed
16 release option for once-nightly oxybate?

17 A. Okay.

18 Q. And on the bottom right, you see it was printed on
19 March 18, 2016?

20 A. Yes.

21 Q. Okay. And so that's right about the time the '782
22 patent was filed for?

23 A. A little bit after, yes.

24 Q. Okay. And if we go to DTX262.11, there's something
25 called nonenteric approach in the top paragraph, do you see

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1 that?

2 A. Yes.

3 Q. And the first couple of sentences say, "There are
4 nonenteric means of achieving delayed pulse tile release in
5 tablets; however, applying these techniques to pellets is
6 considerably more challenging. The high water solubility of
7 oxybate salts combined with the high dose almost precludes
8 the use of non-pH-triggered dissolvable delay layers."

9 Did I read that correctly?

10 A. Yes.

11 Q. Now, how did you go about determining which documents
12 involving the Jazz scientific work that you were going to
13 evaluate for purposes of your validity opinions?

14 A. Oh, wow. I mean, I -- I reviewed so many documents.
15 I mean, I just remember, you know, when I went through the
16 patent, there were all the references to the documents that
17 were in here, there was the prosecution history. I followed
18 trails that way. I had discussions with counsel about
19 seeing things, that was my process.

20 Q. So I assume that you requested some materials, you
21 got some materials?

22 A. Yes.

23 Q. Okay. And were you provided with DTX262?

24 A. Again, sitting right here, I can't remember
25 whether -- whether I have seen this or not, but this is

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1 similar to what the specification says, so...

2 Q. Okay. Now, Doctor, we can agree that because
3 formulation science is complex, it's not something that can
4 be determined theoretically, right?

5 A. Agreed.

6 Q. And put another way, formulation science is
7 empirical?

8 A. It is.

9 Q. And you agree with Dr. Charman that, as a general
10 matter, experimentation is necessary to develop a
11 pharmaceutical dosage form?

12 A. Experimentation is necessary, yes.

13 Q. And you specifically agree that formulation work is
14 required to develop a pharmaceutical dosage form?

15 A. I don't understand the difference between your last
16 question, but I still agree, correct.

17 Q. And, Doctor, in your view, the specification -- we
18 just talk about this -- of the '782 patent encompasses
19 modified release using enteric coatings?

20 A. Yes.

21 Q. Empirically, Jazz scientists found that sodium
22 oxybate presents unique challenges for enteric coatings; you
23 agree with that, right?

24 A. You're going to have to repeat your question again, I
25 didn't hear it.

CROSS-EXAMINATION - STEVEN LITTLE

1 Q. Empirically, the Jazz scientists encountered
2 difficulties trying to formulate sodium oxybate using
3 enteric approaches?

4 A. I mean, I think -- I think you could characterize,
5 you know, the formulation process as encountering
6 difficulties, yes.

7 Q. And so let's look at JTX -- well, in your binder, if
8 you would look at JTX253. In your binder.

9 A. I'm sorry, what?

10 Q. You need to look in your binder.

11 A. For what?

12 Q. JTX253.

13 A. Okay.

14 Q. And do you see that it's a presentation entitled
15 "Oxybate SR/DR?"

16 A. Yes.

17 MR. SCHULER: Your Honor, we'd move for
18 admission of JTX253.

19 MR. CERRITO: No objection.

20 THE COURT: JTX253 is admitted.

21 MR. SCHULER: All right. Let's publish that.

22 BY MR. SCHULER:

23 Q. You see there's a technical review from May of 2015?

24 A. Yes.

25 MR. SCHULER: And if we could turn to slide 44.

CROSS-EXAMINATION - STEVEN LITTLE

1 BY MR. SCHULER:

2 Q. The second bullet point says, high soluble, high --

3 (Reporter clarification.)

4 -- high solubility, high hygroscopicity, basic
5 properties of sodium oxybate are challenges for enteric
6 coatings?

7 Do you see that?

8 A. Yes.

9 Q. And several companies affiliated with Jazz tried to
10 obtain bead formulations of sodium oxybate over the years,
11 do you recall that?

12 A. I do.

13 Q. And the first one that did so was called Orphan, and
14 that was the company that actually brought Xyrem to the
15 market, correct?

16 A. I think the name is right, yes.

17 Q. Okay.

18 MR. SCHULER: And if we can put up DTX1367.

19 BY MR. SCHULER:

20 Q. This is an e-mail from Mr. Allphin to his colleagues
21 on July 2, 2015, right?

22 A. It appears to be, yes.

23 MR. SCHULER: And if we put up slide 1 of the
24 PowerPoint.

25 BY MR. SCHULER:

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1 Q. This was an oxybate LCM backgrounder, do you see
2 that?

3 A. I see it.

4 Q. And if we could turn to DTX1367.7. It says, "Orphan
5 considered beads and a sachet, ultimately chose liquid form.
6 Hard to make beads with sodium oxybate deliquescent."

7 What does deliquescent mean?

8 A. Yeah, deliquescence is the concept of a chemical
9 compound liquifying. So typically what you're doing -- most
10 often what you're talking about is when you have a solid and
11 there's water in the air, it can get in. And then what
12 happens is, is that it forms this structure so that,
13 although the thing didn't melt, it looks like it melted, so
14 it liquifies.

15 Q. And so you can't process it to make a dosage form
16 effectively?

17 A. It depends on what you're trying to do.

18 Q. Okay. Now, Doctor, during your direct examination, I
19 think you testified that you heard Dr. Charman use the word
20 "extensive"?

21 A. I did.

22 Q. Okay. Let's look at the trial transcript from
23 yesterday at page 816.

24 We'll come back to that in a second.

25 THE COURT: Mr. Schuler, do you have more than

CROSS-EXAMINATION - STEVEN LITTLE

1 five minutes?

2 MR. SCHULER: Yeah, I do, Your Honor.

3 THE COURT: All right. Let's break for the
4 lunch break.

5 All right.

6 (Whereupon, the jury exited the room.)

7 THE COURT: All right. Dr. Little, you're still
8 under oath, you can't talk to counsel. Come back at
9 2 o'clock.

10 (Break taken.)

11 THE COURT: All right. We can continue. You
12 may be seated. Get the jury.

13 (Whereupon, the jury entered the room.)

14 MR. SCHULER: Mr. Jarrett, if we would bring up
15 the trial transcript from yesterday at page 816, lines
16 10-16.

17 BY MR. SCHULER:

18 Q. Now, Dr. Little, during Dr. Charman's examination, I
19 asked, "What did you conclude about the quantity of
20 experimentation that would be required to practice the full
21 scope of the claims?"

22 His answer was, "It would be excessive. There's
23 a lot of experimentation that would have to be done in an
24 attempt to formulate a material such that it might meet that
25 is -- as is described in the claims."

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1 Now, when you were answering questions from your
2 counsel, I believe you answered questions about whether
3 extensive experimentation would be required.

4 A. Mm-hmm.

5 Q. Is that true?

6 A. Yes.

7 Q. Okay. Now, I think I heard you say that you would
8 consider the type of formulation work at issue to be
9 routine?

10 A. With the disclosures that you have in order to, for
11 instance, you know, do the things we were talking about, I
12 think once you have that, it would be routine, yes.

13 Q. Okay. And the scientists at Jazz who conduct such
14 work called it "laborious," isn't that true?

15 A. Yeah, they did.

16 Q. Let's look at that together, it's DTX1707. This is
17 an e-mail from Mr. Allphin to colleagues in 2016. This is
18 after he had filed for the patent at issue, correct?

19 A. Yes.

20 Q. And this is preliminary results of enteric assessment
21 for "JZP 324." Do you see that? That's the subject line?

22 A. Yes.

23 Q. And Mr. Allphin says he only tested 100 tablets by
24 way of dissolution testing.

25 Do you see that?

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1 A. Yes.

2 Q. And he did six sets representing different
3 combinations of subcoat weight and enteric film weight in
4 that order, correct?

5 A. Yes.

6 Q. All right. And if we go to the next, Mr. Allphin
7 said, "The main limitation was dissolution testing, which
8 turned out to be far more laborious than I estimated."

9 Q. Did I read that correctly?

10 A. Yes.

11 Q. Doctor, did you do any experimentation yourself to
12 see if a person of skill could take the specification at
13 issue and succeed without undue experimentation to achieve
14 various embodiments of the claim?

15 A. If you're asking me if I did physical experiments on
16 this, no, I did not.

17 Q. Now, I think I understand, but I want to make sure I
18 understand. My understanding of Claim 24, in light of
19 Claim 14, is that there's a sachet from Claim 24, right?

20 A. Yes.

21 Q. You have the separate acid and separate
22 viscosity-enhancing agent, right?

23 A. Yes.

24 Q. And particulates?

25 A. Yes.

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1 Q. And is it my understanding that your view and -- your
2 view that that is a more administrable, an improved
3 administrable formulation of extended or modified-release
4 formulation?

5 A. Yeah. So it's administrable because the technology
6 allows it to be because of the various challenges of that
7 particular one, yes.

8 Q. Okay. And for a sachet, I assume we're talking about
9 a suspension of the particles?

10 A. Yes, the intent is that it would be poured into a
11 glass, it's like a sugar packet so you're pouring it into a
12 glass to suspend it.

13 Q. Okay. And for a suspension formulation, people
14 evaluating administrability look to the mouth feel of the
15 dosage form after it's been suspended, correct?

16 A. They might.

17 Q. And undue acidity could be another aspect of
18 administrability, correct?

19 A. It's possible.

20 Q. And whether a formulation is too basic or too chalky,
21 also might be an aspect of administrability, correct?

22 A. It could be.

23 Q. And swallowability certainly is an aspect of
24 administrability?

25 A. Yeah. It could be, yeah.

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1 Q. And taste as well, correct?

2 A. Yes.

3 Q. Doctor, there's no data in the specification that
4 addresses the taste associated with the particular
5 formulations that are described when given as a suspension;
6 agreed?

7 A. No, those weren't the problems it was solving.

8 Q. And can we agree that there was no data from any
9 administrability experiment in the specification?

10 A. I'm sorry. Can you say that again?

11 Q. Can we agree there is no data from any -- of any
12 experiment directed to administrability in the
13 specification?

14 A. Data? There's -- the things you're talking about
15 aren't quantified if that's what you're asking.

16 Q. Okay. Now, in fact, Doctor, the Jazz scientists
17 concluded that a liquid multiparticulate formulation was a
18 nondesirable dosage form in terms of administrability; isn't
19 that right?

20 A. You said "liquid is nondesirable"?

21 Q. A liquid multiparticulate formulation is -- they
22 concluded it was a nondesirable formulation?

23 A. You'd -- I don't remember that, you'd have to show
24 me.

25 Q. Okay. Let's look at JTX219. This is a PLE Tech

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1 transfer document dated September 16, 2009, correct?

2 A. Yes.

3 Q. And the authors are the two inventors of the '488
4 patent, right?

5 A. 2009, okay.

6 Q. Mr. Mr. Allphin and Mr. Pfeiffer?

7 A. Okay.

8 Q. And if we turn to dot 14, there is a -- beads or
9 pellets in a sachet and it says, "Less preferred for volume
10 of liquid needed. Physical conveyance from cup, chasing
11 down stray particles in mouth, possibly dealing with
12 aftertaste from IR components."

13 Did I read those words correctly?

14 A. Yes.

15 Q. And then it says, "Huge penalty on drug loading."

16 Do you see that?

17 A. Yes, I see it.

18 Q. What does that mean?

19 A. Well, it -- well, I could say what it could mean. It
20 could mean that when you have -- I presume that that means
21 protective layers down here at the bottom.

22 So a protective layer, if you were to implement
23 one, would add additional excipient.

24 Q. So you'd have less --

25 A. Let me explain what that is.

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1 Q. Oh.

2 A. Excipient is other materials that you put into a
3 formulation to help it with something, some property, some
4 quality, some -- it could be flow, it could be modified
5 release.

6 And if you have to add more of that, then now
7 your -- your mass load increases. So at some point, if you
8 kept doing it, let's say you did it more and more and more,
9 then there wouldn't be any room left for the drug because
10 it's all excipient.

11 Q. And "excipient," you could also use the word
12 "ingredient"?

13 A. An excipient can be an ingredient, yes.

14 Q. Now if we look at JTX690.

15 This is "Oxybate QD Approaches Part 2" from
16 January 2015. Do you see that?

17 A. Yes.

18 Q. And to put that in perspective, that's a few weeks
19 before the original provisional application was filed for
20 the '782 patent, correct?

21 A. Yes.

22 Q. Okay. And if we turn to page 690.7, under
23 "Multiparticulates," it says -- second bullet, "Less
24 convenient to administer, high product mass, ingestion of
25 more liquid or gel, mouth feel, particles are large enough

CROSS-EXAMINATION - STEVEN LITTLE

1 to be noticed/felt."

2 Did I read that correctly, doctor?

3 A. Huh, yeah, I see it.

4 Q. And then Claim 24 is to a unit dose of a sachet,
5 correct?

6 A. It is, yes.

7 Q. And down below, the unit doses that were being
8 considered by Jazz at the time were tablet, soft capsule,
9 hard capsule, correct?

10 A. It says "more options" there.

11 Q. Yeah, more options, unit doses, tablet, soft capsule,
12 hard capsule, correct?

13 A. Yes.

14 Q. All right. Now, I think I heard your testimony on
15 direct that a person of skill would recognize them, when you
16 have an acid of the type that you discern from the
17 specification, that would be separate from the GHB -- let me
18 rephrase.

19 I think I understood your testimony to be that
20 the person of skill, the formulator would want to put the
21 acid in separately from the oxybate-containing particles?

22 A. In this instance, yes, that would be apparent.

23 Q. And I think I heard you say, absolutely, it would be
24 outside or something along those lines?

25 A. Yeah.

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1 Q. Okay. But Mr. Allphin concluded that having a
2 separate acid was unacceptable; isn't that right?

3 A. I'd have to see the context of that.

4 Q. Okay. Let's put up PTX906.

5 And this is an e-mail from Mr. Allphin to a
6 colleague or a couple of colleagues, January 22, 2016?

7 A. Okay.

8 Q. And that's just a few weeks before the next
9 application was filed in this family, correct?

10 A. I think so, yes.

11 Q. All right. If we turn to the next page, Option 4,
12 "Acidify the stomach by including a solid acid, probably
13 citric acid, with the beads. Can't do it as a loose powder
14 in a sachet -- in a sachet because it would be unpalatable,
15 I did some taste tests."

16 Did I read those words correctly, Doctor?

17 A. I see that, yes.

18 MR. SCHULER: I pass the witness.

19 THE COURT: All right. Redirect?

20 REDIRECT EXAMINATION

21 BY MR. CERRITO:

22 Q. Doctor, just a few questions. It's a prime example,
23 there was a bunch of Jazz documents just shown to you,
24 right?

25 A. Yes.

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1 Q. You were here for Mr. Allphin?

2 A. Yes.

3 Q. Did they show them to him?

4 A. No, they didn't.

5 Q. He couldn't explain them, right, he wasn't given the
6 opportunity?

7 A. That's right.

8 Q. So he couldn't tell you what context any of those
9 statements were made in, correct?

10 A. Well, yeah, he wasn't shown the documents, that's
11 all --

12 Q. They decided to show you instead?

13 MR. SCHULER: Your Honor, I object, sidebar.

14 MR. CERRITO: Withdraw the last question.

15 THE COURT: Withdrawn.

16 Please disregard the question and answer.

17 BY MR. CERRITO:

18 Q. In your opinion, Doctor, are the disclosures of the
19 '488 patent specification or Allphin 2012 limited to tablet
20 formulations?

21 A. No.

22 Q. Okay. And Mr. Schuler suggested the problem that Mr.
23 Allphin attempted to solve in his '782 patent was created
24 by, I think he said his own work and he cut you off and you
25 were trying to explain.

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1 Can you finish your answer, please?

2 A. Yeah, so I think the implication that I was hearing,
3 he said it twice, so I think the implication was, is that in
4 the '782, you have particles now that can control the
5 release and that's the discussion; whereas, in the '488
6 patent, it's tablets.

7 I understand that that may be something --
8 that's somebody's opinion. It's not mine as I described to
9 you.

10 What I'm -- what happens in the '782 is that if
11 you take the dosage form of '488 and one of them, let's say,
12 is a particle, you start to realize if you're going to turn
13 those into a dosage form, now you have -- you have other
14 problems. So you've got a lot of surface area. You've got
15 one of them that dissolves and changes the pH. Because of
16 the particles you have to use, they'll settle down to the
17 bottom, so what the '488 is saying, okay, let's look at what
18 has to happen if we do pick a particle solution in this
19 particular instance, what are the issues and how do we solve
20 it?

21 So it's not like the '488 created some problem;
22 it's that the '782 solved the problem with one of the dosage
23 forms that's in the '488.

24 Q. Thank you, Doctor.

25 I think in my question I probably asked, it was

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1 my fault, I said, Dr. Charman talked about extensive or
2 excessive experimentation, are those words different to you
3 in your mind?

4 A. Well, no, I mean, I guess, he -- he said "excessive"
5 and then he said "a lot."

6 Here's the way I think about this: Undue is
7 like, you don't have a point of reference, okay, so
8 you're -- you don't know which way to go. If you have
9 excess of something, so excess or extensive, that's more
10 than normal. Normal is a lot, is what I'm trying to
11 describe to you.

12 So sometimes you realize that you have a lot
13 that you would need to do, but you still get there.

14 I think there was an example of that in
15 Dr. Charman's testimony where he was talking about how, you
16 know, it was very difficult to coat the pellets, but then
17 they were able to do it, that could be considered as
18 excessive, but you still get there.

19 "Undue" is like you don't have a point of
20 reference, that's different in my mind.

21 Q. Thank you.

22 So are those words interchangeable even
23 though --

24 A. I don't think so, no.

25 Q. Thank you.

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1 When looking at the '782 patent, would a POSA
2 have access to all these internal Jazz documents that they
3 didn't ask Mr. Allphin about?

4 A. No.

5 Q. Thank you.

6 MR. CERRITO: No more questions.

7 THE COURT: All right. Dr. Little, you may step
8 down, thank you, sir.

9 THE WITNESS: Thank you.

10 THE COURT: All right. Jazz, call your next
11 witness.

12 MR. CERRITO: With that, Your Honor, plaintiff
13 rests.

14 THE COURT: All right. Ladies and gentlemen of
15 the jury, that completes the presentation of the evidence.

16 So what I'm going to do for the rest of the
17 afternoon is let you leave early because there is some
18 matters that the Court needs to handle outside of your
19 presence and that's going to take a couple of hours, instead
20 of having you wait around and just getting an hour or less
21 of the closings done today, we'll start fresh tomorrow
22 morning so that you can hear the closings back to back and
23 then the Court will give you the instructions on the law and
24 then you will begin your jury deliberations.

25 What I would ask is instead of starting at 9:30

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1 tomorrow, could we start at 9:00 a.m., which would mean you
2 would have to get here between 8:45 and 8:50. Is that a
3 problem for anyone? All right.

4 So let's plan on that, starting at 9:00 a.m.,
5 meaning you'll be here between 8:45 and 8:50. And I'll
6 remind you all of the same instructions that I have given
7 you: Don't do any independent research on your own, don't
8 communicate with anyone about the case, don't start talking
9 about the case among yourselves, keep an open mind and don't
10 review any news or radio or other types of stories about the
11 case, if there should be any.

12 And leave your jury notebooks in the jury room
13 until you come back tomorrow.

14 We will see you in the morning.

15 (Whereupon, the jury entered the room.)

16 THE COURT: All right. Counsel, let's plan to
17 meet at 3:30 to -- for the charge conference.

18 MR. SILVER: Your Honor, before we conclude this
19 session, we have a motion to make.

20 THE COURT: Okay. And Ms. Sawyer, Audra Sawyer
21 is going to make that motion for Avadel.

22 Okay.

23 MS. SAWYER: Avadel renews it's prior JMOL
24 motion on infringement and damages. No reasonable jury
25 could find for Jazz on either issue. Jazz offered no

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1 further evidence on damages in its rebuttal case, so Avadel
2 moves on the same grounds as previously.

3 Jazz offered no evidence on infringement in its
4 rebuttal case so Avadel moves on the same grounds as
5 previously.

6 Avadel also moves for JMOL on invalidity because
7 no reasonable jury could find against Avadel on invalidity
8 given the evidence Avadel offered on invalidity and the
9 evidence that Jazz offered in response.

10 On noninfringement, Jazz has not shown that the
11 accused Lumryz product directly infringes any of the
12 asserted claims. Lumryz does not infringe the asserted
13 claims, for example, because it lacks a core comprising at
14 least one pharmaceutically active ingredient selected from
15 gamma-hydroxybutyrate and pharmaceutically acceptable salts
16 of gamma-hydroxybutyrate as required by the asserted Claims
17 7 and 11 of the '488 patent.

18 In particular, the evidence unequivocally
19 established that Lumryz comprises an enteric or neutral core
20 that does not contain GHB or any other drug.

21 Lumryz also does not infringe the asserted
22 claims because it does not exhibit a sustained-release
23 dissolution profile as required by the claims when tested in
24 a dissolution, Apparatus 2, in deionized water at a
25 temperature of 37 degrees and a paddle speed of 50 rpm.

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1 On damages, Jazz has not shown that the royalty
2 rate it has requested is reliable or based on credible
3 evidence. Jazz's damage's expert did not limit the royalty
4 to the incremental value provided by the asserted patents.

5 Jazz's damages expert also failed to properly
6 apportion damages between the patents-in-suit and unrelated
7 Jazz patents and between the patents-in-suit and Avadel's
8 contribution.

9 Jazz's judgment as a matter of law should be
10 denied because Avadel has offered evidence from which a
11 reasonable jury could find in Avadel's favor on the issue of
12 invalidity of the asserted patents, the patents and their
13 prosecution history alone, are clear and convincing evidence
14 that the asserted patents are invalid for lack of written
15 description and enablement.

16 The documents and testimony confirm that Jazz
17 was aware of and referred to Avadel's work and patent
18 application in filing the asserted patents which is clear
19 and convincing evidence of improper inventorship, derivation
20 and copying.

21 The '488 patent lacks written description
22 support for Claims 7 and 11 because the specification, as
23 drafted in 2011, lists many potential ingredients which can
24 be combined in many ways to make a large number of potential
25 formulations, but the specification lacks any blaze marks

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1 that would point to the narrow species ultimately claimed.

2 The '488 patent also lacks written description
3 support for the asserted claims because those claims
4 encompass microparticles, methacrylic acid-methyl
5 methacrylate copolymers and dissolution testing under
6 specific testing conditions yet none of the disclosures in
7 the patent encompass these claimed features.

8 This is further supported by Ms. Gray's
9 testimony that dissolution testing will be different
10 depending on the testing conditions and Dr. Charman's
11 testimony, that the specification of the '488 patent lacked
12 an indication that the dissolution testing was conducted
13 under the claim testing conditions and with the claimed
14 amount of methacrylic acid-methyl methacrylate.

15 The '488 patent also lacks written description
16 support because the asserted claims require a certain
17 release profile for gamma-hydroxybutyrate under certain
18 testing, but the specification does not disclose a
19 representative number of species within the claimed subgenus
20 of formulations that provide the desired release profile,
21 nor does it disclose structural features commended of the
22 claimed subgenus formulations.

23 The '782 patent also lacks written description
24 support, for example, because the claims encompass
25 nonresinate dosage forms and the evidence at trial establish

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1 conclusively that the specifications disclosure is limited
2 only to resinates, Mr. Allphin and Dr. Charman testified
3 about the lack of data or examples showing nonresinate
4 modified-release particles.

5 And even years later, Jazz was, itself, only
6 able to achieve immediate release with its resinate
7 technology, not the controlled release claimed.

8 Mr. Allphin, the purported inventor, remained
9 skeptical that resinate technology would work long after the
10 filing date of the patent application.

11 The '782 patent also lacks written description
12 because it fails to describe an acid or a
13 viscosity-enhancing agent that is separate from the
14 microparticles.

15 The specification of the '488 patent does not
16 enable a person of ordinary skill in the art to make and use
17 the full scope of Claim 7 and 11 of the '488 patent because
18 it does not enable a POSA to create microparticles meeting
19 the claim limitations. Jazz, itself, was not able to do so,
20 despite years of effort.

21 Avadel's expert, Dr. Charman, testified, among
22 other things to the unpredictability of orally administered
23 controlled drug release formulations and the lack of
24 guidance as to how to practice the asserted patents.

25 The specification of the '782 patent does not

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1 enable a person of skill in the art to make and use the full
2 scope of Claim 24, which is directed to formulations that
3 provide modified release of oxybate.

4 Jazz, itself, was unable to create such a
5 formulation despite years of effort and development both
6 in-house and with partners.

7 Written description is not a predicate for
8 improper -- for inventorship, let me rephrase.

9 Written description is not a predicate for
10 inventorship because inventorship focuses on whether the
11 true and correct inventors are named on the patent; while
12 written description focuses on disclosure.

13 The facts presented at trial conclusively show
14 that Drs. Hervé Guillard and/or Claire Mégret are the proper
15 inventors of the '488 and '782 patents because they first
16 conceived of the idea behind the patent's claims.

17 Jazz and its purported inventors did not
18 conceive of the claimed invention and instead, copied
19 Flamel's ideas once they became public via Avadel's patent
20 publications.

21 Avadel's Patent Office expert, Mr. Matal, opines
22 that claim copying calls into questioning the true inventors
23 of the patent, particularly where the inventors did not
24 inform the Patent Office of the copying.

25 Avadel moves for judgment as a matter of law,

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1 that Jazz and its purported inventors derived the invention
2 claimed in the '488 patent from Drs. Guillard and Mégret.

3 As just discussed, the evidence presented at
4 trial conclusively establishes that Drs. Guillard and Mégret
5 first conceived of the idea behind Jazz's '488 patent claims
6 and that this idea was communicated to Jazz's purported
7 inventors.

8 Thank you.

9 THE COURT: All right. Jazz?

10 MR. THOMPSON: Your Honor, Jazz opposes Avadel's
11 Rule 50(a) motion.

12 If I may borrow a phrase from the trial, I'd
13 like to incorporate by reference, Mr. Cerrito's arguments
14 from yesterday on Jazz's Rule 50(a) motion, I'm happy to go
15 through them today but if I may just incorporate them
16 because as you know, Jazz moved after Avadel had presented
17 its invalidity case.

18 So if that's okay with Your Honor, I'll just
19 note that in Jazz's rebuttal case, the Court, and the jury
20 heard testimony today from Mr. Stoll that there is support
21 for Section 112 and inventorship, that claim copying is
22 permissible under Patent Office rules and that the examiner
23 made a specific finding that there was full Section 112
24 support as of February 18th, 2016, prior to the date of
25 Avadel's patent.

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1 We heard Dr. Moreton testify at length that
2 there's full written description and enablement for the '488
3 patent as of March 24th, 2011.

4 And we heard Dr. Little testify that there's
5 written description and enablement support for the '782 back
6 to February 18, 2016, provided the testimony that Jazz was
7 the true inventor of the subject matter of Claim 24 of the
8 '782 patent.

9 This testimony provides further support, in
10 addition to the evidence that Mr. Cerrito described
11 yesterday for opposing Avadel's motion for judgment as a
12 matter of law.

13 In addition, Jazz would renew its Rule 50(a)
14 motion based not only on what Mr. Cerrito described
15 yesterday, but why the Court should grant judgment as a
16 matter of law in favor of Jazz on infringement, invalidity
17 and damages, but, also, now on the testimony that the Court
18 heard today from Mr. Stoll, Dr. Moreton and Dr. Little.

19 For that reason, judgment as a matter of law
20 should be granted in favor of Jazz and it should not be
21 granted in favor of Avadel, especially given that Avadel has
22 the higher burden of proof of clear and convincing evidence,
23 no reasonable juror could conclude that Avadel had met that
24 burden.

25 So unless Your Honor would like me to go through

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1 the points that Mr. Cerrito made yesterday, judgment as a
2 matter of law should be granted in favor of Jazz and
3 Avadel's motion should be denied.

4 THE COURT: All right. Are you done?

5 MR. THOMPSON: Yes, thank you, Your Honor.

6 THE COURT: All right.

7 MR. SILVER: Your Honor, very briefly, we will
8 oppose Jazz's renewed JMOL motion for the reasons stated by
9 Ms. Durie yesterday and I think, very clearly, stated by
10 Your Honor this morning.

11 I don't think the defendant's presentation of
12 the rebuttal case can remove the issues Your Honor
13 identified this morning in denying Jazz's motion in terms of
14 there being disputed factual issues that have to go to the
15 jury.

16 So unless Your Honor has any specific questions,
17 we'll note that opposition and we can take a break if that's
18 what Your Honor prefers.

19 THE COURT: All right.

20 MR. SILVER: Thank you.

21 THE COURT: All right. So the Court having
22 heard Avadel's motions for judgment as a matter of law under
23 Rule 50 on infringement/noninfringement, the Court finds
24 that there continues to be material issues of fact for the
25 jury to decide on those issues.

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1 Viewing the evidence in the light most favorable
2 to Jazz as the nonmoving party with respect to infringement
3 and Avadel as the nonmoving party on the other side of
4 noninfringement, the Court denies both Jazz's -- Avadel's
5 judgment -- motion for judgment as a matter of law and
6 Jazz's motion for judgment as a matter of law on the
7 infringement/noninfringement issue finding that there is
8 sufficient evidence of record to support a jury verdict in
9 favor of Jazz with respect to infringement and Avadel with
10 respect to noninfringement.

11 With respect to Avadel's motion for judgment as
12 a matter over law on damages, the Court, again, finds that
13 the issue of what is a reasonable royalty rate if the jury
14 finds infringement is an issue for the jury to determine.
15 There is sufficient evidence of record to support a
16 reasonable royalty award if that's what the jury concludes.

17 For those reasons, Avadel's motion for judgment
18 as a matter of law on damages is denied. The issue will go
19 to the jury.

20 With respect to Avadel's motion for judgment as
21 a matter of law under Rule 50 on invalidity, including lack
22 of written description, enablement, inventorship and
23 derivation, for all the reasons stated by the Court earlier,
24 that motion is denied.

25 There remain continuing issues of material fact

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1 for the jury to decide on those issues and there's
2 sufficient legal basis on the record for the jury to find in
3 favor of Jazz on those issues to support a jury verdict if
4 that's what the jury so finds.

5 With respect to Jazz's renewal of its Rule 50
6 motion on infringement, invalidity and damages, that motion
7 is denied for the same reasons that the Court denied it
8 earlier.

9 There remain genuine issues of material fact for
10 the jury to decide. There is sufficient evidence of record
11 to support a jury verdict in favor of Avadel on those
12 issues.

13 Viewing in the light most favorable to Avadel as
14 the nonmoving parties and giving Avadel the benefit of all
15 reasonable inferences, there's sufficient evidence of record
16 to support a jury verdict in Avadel's favor, thus, that
17 motion is denied.

18 So all the issues remain live except the one
19 JMOL motion granted this morning on the issue that the
20 parties stipulated to. The other issues will go to the jury
21 to decide.

22 All right. That deals with the JMOL motions, I
23 will meet with counsel for the parties at 3:40 p.m. to deal
24 with the final jury instructions and the verdict form.

25 (Recess taken.)

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1 THE COURT: All right. You may be seated.

2 All right. So we handed out redlined versions
3 of the proposed jury instructions and the verdict form.

4 So let's go through it. Starting with the
5 preliminary jury instructions -- with the final jury
6 instructions.

7 The first dispute was 1.6, that FDA approval
8 instruction, I agree with Jazz that this instruction would
9 be confusing in that the jury is not being asked to decide
10 any issue related to FDA approval or FDA law.

11 Moving on. 1.15, burdens of proof. There's a
12 dispute concerning the instruction for what clear and
13 convincing evidence means, and that sentence that Avadel
14 proposes is the sentence that I have used in several other
15 cases.

16 MR. SILVER: Your Honor, I apologize for
17 interrupting, just as a matter of procedure, I think we're
18 obligated to lodge objections on the record to instructions.

19 THE COURT: After I finish, you can lodge your
20 objections.

21 MR. SILVER: Thank you, Your Honor.

22 THE COURT: 2.2 is the next. In that second
23 paragraph, the first sentence, Jazz proposes to include the
24 phrase, which parties have referred to as the "core and
25 deionized water limitations" to inform what the two

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1 limitations at issue of the '488 patent are, and the Court
2 doesn't believe that that -- will include it, it believes
3 it's helpful and doesn't believe it hurts Avadel in any way.

4 Instruction 3.3, constructions of the law, that,
5 after the chart containing the claim constructions of the
6 Court, Jazz has proposed to include an additional two
7 sentences instructing about what the asserted claims -- what
8 the Court is determining the asserted claims do not require.

9 The Court doesn't believe that that's necessary
10 or helpful under the circumstances and agrees with Avadel on
11 this one, and is not going to include those two sentences.

12 Next is 4.2, direct infringement. So the
13 dispute is on page 32, so they're here, I didn't go with
14 either parties proposed language. The Court drafted a
15 hybrid to attempt to satisfy both parties' concerns
16 without -- in a more balanced fashion, thus, that last
17 paragraph will read:

18 "The existence of Avadel's patents is not
19 relevant to whether Avadel infringes Jazz's patent. The
20 patent grants only the right to exclude others. A patent
21 confers no right on its holder to make, use or sell a
22 product that infringes someone else's patent. The existence
23 of Avadel's patent is relevant to Avadel's defenses and its
24 theories of written description, enablement, improper
25 inventorship and derivation."

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1 In 5.1, invalidity, Jazz proposes additional
2 sentences in that second paragraph and the Court will
3 include those sentences.

4 On page 35, that addition proposed by Avadel on
5 balance, the Court thinks that could be misleading in this
6 case and I think it's addressed elsewhere in the
7 instructions.

8 Next is 5.3, written description. And the
9 dispute is on page 40, that paragraph that begins with, "the
10 hallmark of written description is disclosure," at the end
11 of that paragraph, Avadel proposes a sentence which the
12 Court will include.

13 All the remaining proposed insertions by both
14 sides in that instruction will not be included.

15 Enablement, 5.4, Avadel's list of the factors,
16 the Court is going to include, those are -- the Court has
17 previously used those factors in other cases with enablement
18 issues and supported by W.R. Grace -- well, W.R. Grace and
19 Company was an example where I adopted those factors.

20 On page 45, that paragraph that Jazz proposes to
21 include, the Court is going to accept, that comes from the
22 *United States vs. Gilead Scientific*. So in considering
23 Jazz's proposal and Avadel's proposal on that point, the
24 Court finds that Jazz's proposal is more balanced and
25 reasonable and was used by Judge Noreika in that *Gilead*

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1 case.

2 Going to 5.5, inventorship. The proposal Avadel
3 seeks at the end of paragraph 4, the Court is not going to
4 include. And the proposal that Jazz proposes to include as
5 paragraph 6, the Court is not going to include.

6 Moving to 5.6, derivation, that last sentence in
7 the first paragraph, that's a factual truth and the Court
8 will include it.

9 The third paragraph that Jazz proposes, the
10 Court is not going to include.

11 And those six paragraph proposals by Avadel and
12 Jazz neither is going to be included.

13 Moving to 6.1, damages. Avadel's proposal in
14 the first paragraph will be included.

15 Jazz's proposal in that second paragraph will be
16 included with the modification that it will read, "there's
17 no requirement that Jazz make, use or sell its patented
18 invention for damages to occur. If you find Avadel
19 infringed, the damages you award..." pick up with the
20 language that's there. Insert it if you find Avadel
21 infringed, comma.

22 On page 56, Avadel's proposal to include "if
23 any" in that second paragraph will be included.

24 Moving to 6.3, reasonable royalty, generally.
25 Avadel's proposal in that second paragraph will be included.

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1 6.5, the Court's going to go with Jazz's
2 proposal for that first dispute, so absence will be the
3 language included and Jazz's second proposal in that
4 instruction will not be included.

5 6.6, Avadel's proposal was most similar to the
6 Court's prior instructions on this issue. Thus, it is what
7 the Court will go with.

8 That's it.

9 All right. So both sides can lodge whatever
10 objections you want to lodge.

11 MR. SILVER: Thank you, Your Honor. Do you want
12 to go instruction by instruction or should one side or go
13 and then the other?

14 THE COURT: You should do them all. You should
15 go and do them all for the record.

16 MR. SILVER: Okay.

17 THE COURT: All right. So let's go with Jazz
18 first and then we'll go with Avadel.

19 MR. LoCASTRO: Thank you, Your Honor. Nicholas
20 LoCastro for Jazz.

21 If Your Honor will indulge me, I'd like to start
22 out of order, because there's one instruction here that I
23 feel has the potential to confuse the jury and working off
24 the redline, I'm on page 32 of section 4.2.

25 And the instruction that the Court wrote here

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1 is, "The existence of Avadel's patents is not relevant to
2 whether Avadel infringes Jazz's patents."

3 And my concern with that, Your Honor, is if
4 you'll recall, a good chunk of the evidence that Jazz put
5 forward for its infringement case was actually based on what
6 was put forth in Avadel's '062 patent.

7 The way that we'd initially put forth the
8 proposal is that the existence of an accused infringer's own
9 patent doesn't constitute a defense to infringement. So by
10 rewriting this to say, "the existence of the patent isn't
11 relevant to infringement," I have a real concern that the
12 jury might think the Court's instructing it not to look at
13 the evidence that was presented of what's in Avadel's patent
14 and which they do admit that does correspond to Lumryz.

15 So I would really strongly object to that
16 instruction, just because I really don't want the jury to
17 get the wrong impression as to how they should look at the
18 evidence of Avadel's patent.

19 THE COURT: Okay. That's a valid point. I see
20 your point. I can -- the Court will change that first
21 sentence back to, "the existence of --" we'll use your first
22 sentence, "the existence of an infringer's -- the existence
23 of an accused infringer's own patent does not constitute a
24 defense to infringement of someone else's patent." And then
25 pick up from there with the language the Court wrote.

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1 And I think the last sentence explains what the
2 relevance of Avadel's patent is, the existence of Avadel's
3 patent is relevant to Avadel's defenses and its theories of
4 written description, enablement, improper inventorship and
5 derivation.

6 MR. LoCASTRO: Thank you very much, Your Honor,
7 for making that change.

8 If I -- okay. If I -- I guess then, Your Honor,
9 if we're -- if the first sentence of this particular passage
10 on 32 is no longer using the language of, "the existence of
11 Avadel's patents is not irrelevant, I would, then, I guess,
12 object to the final sentence there, because we're not
13 talking about relevance and relevance any more and given
14 that we're in the infringement section, we would still
15 object to the last sentence talking about relevance --

16 THE COURT: Your objection is noted but that
17 sentence is going to stay.

18 MR. LoCASTRO: Okay.

19 I'm going to turn back now to section 3.3. And
20 we would object to the Court, respectfully, of course,
21 object to the Court striking Jazz's proposal on page 27 in
22 the redline with regards to the Court's determination with
23 respect to the asserted claims and what they don't require.

24 If the Court will recall, Avadel previously
25 attempted to argue invalidity on the theory that the

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1 asserted claims lacked written description and enablement
2 support because they didn't have safety and efficacy
3 requirements.

4 Now, I don't think we've heard safety and
5 efficacy being touted as claim limitations in this case, but
6 the jury has heard a lot about pharmacokinetics, they have
7 heard a lot about properties of finished drug products, and,
8 you know, if Avadel and its lawyers were in a position
9 earlier in the case where they legitimately thought that
10 these claims had safety and efficacy limitations, you know,
11 it's our position that in view of a lot of the
12 pharmacokinetics evidence that came in, you know, especially
13 through Dr. Mégrét's testimony, the jurors might be
14 wondering, too, do these claims have safety and efficacy
15 limitations?

16 And --

17 THE COURT: The Court has ruled on those. The
18 Court isn't saying Jazz, you can't in your closing, you
19 know, point out that these claims don't have safety and
20 efficacy requirements. The Court is just saying, it's not
21 going to include it in its instruction.

22 MR. LoCASTRO: I understand that, Your Honor,
23 the basis of the objection is that, though, in Jazz's view,
24 the Court's determination as to what the claims don't
25 require was essentially an extension of its previous *Markman*

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1 opinion.

2 The Court issued its *Markman* about what
3 sustained-release portion meant and then the parties
4 continued to fight about it and then it culminated in the
5 pretrial rulings and essentially, the Court clarified its
6 claim construction opinion and said, "definitively, these
7 claims do not require suitability for once-a-day dosing and
8 they don't require a separate limitation that helps a
9 patient stay asleep throughout the night."

10 So, you know, the way we see it is, on the first
11 page of 3.3, the Court is explaining what its *Markman*
12 decision was and our proposal was essentially that the Court
13 also tell the jury, not in these words, but, essentially,
14 and this is an extension of the *Markman* ruling.

15 THE COURT: The Court is not going to do that.

16 MR. LoCASTRO: Okay. Moving to section 5.5,
17 page 49 of the redline.

18 Jazz would respectfully object to the deletion
19 of the final sentence or two of this instruction.

20 Specifically, in Jazz's view, the jury should be
21 instructed that the '488 patent and the '782 patent, you
22 know, they're being adjudicated under two different laws,
23 the '488 is a pre-AIA patent, the '782 is a post-AIA patent.
24 I understood the basis of Avadel's objection to the
25 instruction to be, you know, Jazz can't seek an instruction

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1 that's telling the jury you can't have inventorship for a
2 post-AIA patent, but that wasn't what the instructions
3 sought, what the instructions sought was the inclusion of
4 the language that a post-AIA patent cannot be -- you can't
5 argue that a post-AIA patent is invalid for improper
6 inventorship on the basis of a later-filed patent
7 application.

8 So that instruction that we saw is grounded in
9 law and we feel, respectfully, that it should be given.

10 THE COURT: All right. The Court's ruling on
11 that doesn't change.

12 What's next?

13 MR. LoCASTRO: Section 5.6, Your Honor. Jazz
14 would respectfully object to the deletion of both of the
15 Jazz proposals in this section.

16 First, Jazz proposed that the Court give an
17 instruction that very closely, if not verbatim, tracks the
18 holding of the Federal Circuit in the *Kingsdown* case.

19 During the pretrial conference, Your Honor gave
20 an instruction to the parties that if there were unique
21 circumstances in this case that would warrant, you know, an
22 instruction, the Court would be inclined to consider it.
23 And I feel as though that this is quite a unique case where
24 the jury is hearing, you know, a lot of -- they are not
25 ordinary written description arguments being based on these

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1 allegations of claim copying, and for the jury to be
2 instructed, under the law, there is nothing improper,
3 illegal or unequitable in filing a patent application for
4 the purpose of obtaining a right to exclude a known product,
5 nor it is improper to amend or insert claims intended to
6 cover a competitor's product.

7 You know, that's the Federal Circuit saying
8 that, that is the law of the land and we feel that an
9 instruction telling the jury that is appropriate under the
10 circumstances in this case.

11 And because the instruction has a clear basis in
12 law, we respectfully submit that, that it should be given.

13 With respect to the deletion of the second Jazz
14 proposal in this same section, Your Honor, Avadel's
15 derivation claim, again, it's sort of a rather unique legal
16 theory. When derivation typically comes up, it's because
17 there has been prior conception and prior communication.

18 You know, we looked, Your Honor, and we weren't
19 able to find any case where the prior communication was
20 based on a public patent filing. These kinds of cases just
21 don't happen that often which is why we thought that this
22 instruction was warranted in the unique circumstances in
23 this case.

24 And what that instruction is trying to convey,
25 is that if the jury finds that Jazz's '488 patent had the

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1 earlier priority date, then Avadel's public patent filing in
2 2016 can't, as a matter of law, be the prior communication
3 that's necessary under the derivation test that the parties
4 have agreed upon and that the Court is going to give.

5 So the second Jazz proposal that was struck is
6 essentially telling the jury, this really is the question
7 for this specific legal issue.

8 THE COURT: Okay. The Court's ruling is going
9 to stand.

10 MR. LoCASTRO: I have two more, Your Honor, if
11 you'll indulge me.

12 Section 6.5, Jazz respectfully objects to the
13 deletion of the last sentence. Avadel has admitted here
14 that there are no noninfringing alternatives. They've said
15 that in their interrogatory responses and we actually cited
16 a letter in the footnote where Avadel didn't let Jazz take
17 discovery on this issue based on the representation that
18 Avadel does not contend there is a noninfringing
19 alternative. I'm paraphrasing but that's the gist of what
20 they told us.

21 The interrogatory, a direct quote is, "Avadel is
22 unaware of any alternative once-nightly oxybate products for
23 the treatment of narcolepsy, whether covered by claims of
24 the patents-in-suit or not."

25 So Avadel has admitted this and therefore, we

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1 feel the instruction should be given.

2 THE COURT: Okay. I mean, Jazz can advise the
3 jury of Avadel's admission, you know, in its closing. I
4 mean, the Court is not -- you know, it's not the Court's
5 role to emphasize some evidence over the other. That's not
6 my -- that's not the Court's job, so that's why I'm not
7 including that.

8 MR. LoCASTRO: I understand, Your Honor.

9 The last one is 6.6. And with respect -- and I
10 assume Your Honor is going to have the same reaction but
11 I'll make the objection just to preserve it.

12 The Jazz proposal and the Avadel proposal on the
13 6.6 are fairly similar. The difference is, Avadel's
14 proposal asked the jury to consider license agreements
15 entered into the parties shortly after the date of the
16 hypothetical negotiation.

17 There aren't any license agreements the parties
18 entered into shortly after the date of the hypothetical
19 negotiation, so it sort of invites the jury to consider
20 something that didn't happen, and so we would object on that
21 ground.

22 THE COURT: Okay. The Court's ruling is going
23 to stand.

24 MR. LoCASTRO: Thank you, Your Honor.

25 MR. DAVIS: Good afternoon, Your Honor. May I

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1 proceed?

2 THE COURT: Yes.

3 MS. DAVIS: Kira Davis for Avadel.

4 As I believe Mr. Silver may have previewed with
5 the Court, Avadel has a number of attorneys here to argue,
6 including several attorneys who will be making their first
7 argument. So we will be going through in order and with the
8 Court's indulgence, there will be some back and forth of
9 attorneys.

10 THE COURT: Okay.

11 MS. DAVIS: So to begin with, the first
12 instruction that Avadel will be presenting argument on is
13 instruction 1.6 and that will be Ms. Weires' argument.

14 MS. WEIRES: Good afternoon. Rebecca Weires for
15 Avadel.

16 The jury heard several times this week about
17 Avadel's use of the 505(b)(2) pathway for FDA approval of
18 its drug. That came up in Jazz's questioning of three
19 different witnesses this week.

20 THE COURT: Is the jury being asked to decide
21 anything with respect to FDA? Is there any questions with
22 respect to FDA?

23 There's no questions with respect to the FDA,
24 even in the proposed verdict forms that the parties
25 submitted, right?

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1 MS. WEIRES: We agree that it's not and the
2 concern is more that because this issue has come up in the
3 testimony of several witnesses, that that could be confusing
4 and prejudicial without appropriate context of, you know,
5 what the law has to say about that.

6 The implication of certain testimony being that
7 Avadel was, you know, exploiting some loophole by using the
8 505(b)(2) pathway, or that there would be a prejudicial
9 implication that they ought to have used the 505(b)(1)
10 pathway. And we believe that our proposed instruction would
11 be helpful to the jury to cure that prejudice by explaining
12 that the pathway Avadel took is an available, lawful route
13 that Avadel used as Congress intended. And so it should not
14 draw any negative implication against Avadel for its use of
15 that pathway.

16 THE COURT: Okay. Again, the Court's ruling
17 stands.

18 MR. SILVER: Your Honor, on that one, do I
19 understand -- just real quick, do I understand you intend to
20 charge the jury after closing statements?

21 THE COURT: Yes.

22 MR. SILVER: Okay. So if they raise the issue
23 of Avadel using the 505(b)(2) pathway and relying on Jazz's
24 data in that context, we may raise -- re-request the
25 insertion of that instruction for the reason Ms. Weires

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1 stated.

2 THE COURT: As I said, the Court's ruling
3 stands. All right.

4 MR. SILVER: Thank you, Your Honor.

5 MS. DAVIS: On the next instruction where Avadel
6 will be presenting its objection, Ms. Sawyer will be
7 arguing. This is 4.2.

8 THE COURT: Ms. Sawyer?

9 MS. SAWYER: Your Honor, on section 4.2, just on
10 the sentence that was added back in, I think the way that
11 sentence is framed is a bit confusing because invalidity is
12 a defense to infringement and Avadel's patent is a part of
13 our invalidity defense, so we would just propose a slight
14 modification to that sentence.

15 THE COURT: What's the modification you propose?

16 MS. SAWYER: The modification -- I'll just read
17 the full sentence: "Further, the existence of an accused
18 infringer's own patent on its own does not constitute a
19 defense."

20 THE COURT: It's redundant. The existence of an
21 accused infringer's own patent, on its own, that seems
22 redundant, right?

23 MS. SAWYER: I think, Your Honor, it just clears
24 up that the patent, just on its own, is not a defense, but
25 the existence of the patent in light of other arguments in

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1 this case could be a defense, that's the confusion that
2 we're trying to defend against.

3 THE COURT: Jazz, you have any objection to the
4 insertion of, "on its own..."

5 MR. LoCASTRO: I would agree with Your Honor's
6 inclination that that's a bit confusing. If Your Honor
7 would indulge me to propose another sentence, maybe it could
8 alleviate everyone's concern.

9 What if we said something along the lines of:
10 "The fact that an accused infringer has its own patent on
11 the accused product, does not, on its own, constitute a
12 defense to infringement of someone else's patent."

13 MS. SAWYER: I think we're okay with that, Your
14 Honor.

15 THE COURT: Okay. So read that to us again,
16 please.

17 MR. LoCASTRO: Your Honor, I hope that the court
18 reporter got it, because it was here and I said it and now
19 it's gone.

20 THE COURT: We have it.

21 MR. LoCASTRO: I hope it's there. Okay. Great.

22 THE COURT: All right. Hold on.

23 All right. Move on.

24 MS. WANG: Thank you, Your Honor. Good
25 afternoon, Sarah Wang for Defendant Avadel.

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1 So I will be discussing page 34 and 35 of the
2 redline version. And I will start with Jazz's proposal,
3 which Your Honor accepted, on invalidity generally. And
4 there are two reasons we object to the language that Jazz
5 proposed.

6 First, it does not provide necessary context;
7 and, two, it is confusing and misleading to the jury.

8 On the first point, it's true that the Patent
9 Office determinations are given weight, however, that weight
10 is tempered when the Patent Office does not have material
11 facts before it. And this context is important, for
12 example, to inventorship and whether, for example, copying
13 was disclosed as being material to inventorship.

14 And then the second reason is that the
15 instruction is confusing. On the last sentence of Jazz's
16 proposed instruction beginning with, "however, the fact that
17 a patent application is rejected or amended has no bearing
18 on its ultimate validity," suggests that the prosecution has
19 no bearing on validity and we think that that would be
20 confusing to the jury because in this case, inventorship is
21 at issue and in inventorship, the prosecution is important
22 and relevant, so telling the jury the opposite would be
23 confusing for them.

24 THE COURT: All right. The Court understands
25 those concerns. In order to attempt to balance this

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1 instruction out more evenly, the Court will include the
2 Avadel proposal on page 35, the sentence where the USPTO did
3 not previously have all the material facts before it,
4 Avadel's burden to prove invalidity by clear and convincing
5 evidence may be easier to sustain.

6 MS. WANG: Thank you, Your Honor.

7 MR. LoCASTRO: Your Honor, may I be heard on
8 that briefly?

9 THE COURT: Yes.

10 MR. LoCASTRO: Your Honor, if the Court is
11 inclined to put that instruction back in, then I would have
12 to object to it. I think -- and the reason why is because
13 it's frankly confusing to the jury. Easier how? It doesn't
14 really give them guidance as to what they should be looking
15 for, which is the reason why, you know, this instruction is
16 not commonly included in previous DDEL jury instructions.

17 THE COURT: I have included it before and Judge
18 Noreika has included it before. But, go ahead.

19 MR. LoCASTRO: Yeah, I mean, as the Federal
20 Circuit has said in the *Sciele Pharma vs. Lupin* case, 684
21 F.3d 1253, the ultimate burden of proof doesn't change.
22 And, again, the burden of proof is clear and convincing
23 evidence. So, telling the jury that it may be easier to
24 sustain suggests that the burden does somehow drop, that it
25 is no longer a clear and convincing evidence standard, and

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1 so we would, we would object on that basis.

2 THE COURT: Okay.

3 MS. WANG: May I briefly respond, Your Honor?

4 THE COURT: Yes.

5 MS. WANG: So the *Sciele Pharma* case actually
6 has the language in here that if the PTO did not have all
7 material facts before it, its considered judgment may lose
8 significant force, and the burden to persuade the finder of
9 fact by clear and convincing evidence may therefore be
10 easier to sustain.

11 THE COURT: All right. So as I said before, I'm
12 going to include Avadel's proposed language on page 35 to
13 more balance out the instruction, so I understand that both
14 sides may not be 100 percent happy with the instruction, but
15 that's what your objections are for.

16 The Court believes that as modified it's fair
17 and that's what it's going to -- that's the Court's ruling.
18 You can -- if you got a further comment, you can state it
19 for the record.

20 MR. LoCASTRO: The only further comment, Your
21 Honor, would be just that we would suggest the Court
22 consider, after the word "evidence," saying, "does not
23 change but..." so the sentence would read, "Avadel's burden
24 to prove invalidity by clear and convincing evidence does
25 not change, but maybe easier to sustain."

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1 THE COURT: No, because that language is, quote,
2 taken directly from those cases and I'm not going to change
3 the quote.

4 MR. LoCASTRO: I understand, thank you.

5 MS. WANG: Thank you, Your Honor.

6 MS. DAVIS: I will be addressing written
7 description instruction 5.3 and some other instructions
8 following it.

9 With respect to instruction 5.3, across pages 39
10 to 40 of the submitted proposed instructions, Avadel had
11 requested an instruction on genus claims and then had
12 requested a blaze marks instruction.

13 And Avadel submits that on the facts of this
14 case, those two instructions are appropriate.

15 The blaze marks, in particular, we are aware
16 that we do not have a proposed model instruction to cite
17 from for the blaze mark's instruction, but we believe the
18 law in the blaze mark's has been developing recently, which
19 is perhaps one of the reason that there are fewer
20 instructions being given on it, and then on the facts of
21 this case, the concept of explaining to the jury the forest
22 and trees concept, what the blaze mark's test is doing,
23 would be useful and would assist the jury in navigating some
24 of these concepts that may not be particularly easy to
25 understand.

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1 And the new design case, in particular, that we
2 cited in our proposed instructions, identifies one issue
3 that arises in the absence of a clear instruction on blaze
4 marks, which is that, we know, as a matter of law, it is
5 inappropriate to work backwards from the knowledge of the
6 claims, which is hindsight, the written description test
7 requires looking at the specification and seeing if there
8 are blaze marks to work forward. And so that issue in this
9 case is a particularly acute one and we would suggest that
10 the blaze marks instruction would get at that legal issue.

11 THE COURT: Okay. So what if I included Jazz's
12 proposal?

13 MS. DAVIS: We do not agree with Jazz's proposal
14 from the *Idenix* jury instructions, that case the jury
15 returned a verdict in favor of the patentee; and on appeal,
16 it was reversed and that patent was held to be
17 insufficiently described as a matter of law. And it was not
18 a jury instruction issue, to be clear, but in our view, the
19 *Idenix* instruction is likely to be -- seems like it's
20 confusing in that it suggests that the blaze marks -- that
21 the figures and words in the patent are necessarily blaze
22 marks when, in fact, they may not be. So we would object to
23 Jazz's blaze mark instruction.

24 THE COURT: Okay. So the Court's ruling is
25 going to stand. If the parties want to agree upon some

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1 language for blaze mark instruction, if it's agreed to by
2 the parties, the Court will include it, but unless there's
3 an agreement, it's not going to be included.

4 MS. DAVIS: Understood, Your Honor, the parties
5 will confer.

6 Within written description, we also had -- I'm
7 on page 42 of the redline, and it was page 41 of the
8 nonredline, Avadel had requested the sentence, "inventors
9 testimony cannot establish written description support --"

10 (Reporter clarification.)

11 MS. DAVIS: Avadel had requested the sentence,
12 "inventors testimony cannot establish written description
13 support where non exists in the four corners of the
14 specification."

15 And that sentence, we would maintain our request
16 that it be included in this case. Based on the facts of
17 this case, Mr. Allphin, the named inventor who testified in
18 this case, testified regarding the work that he did, that
19 very specifically, was not included in the patent, which may
20 be confusing for the jury.

21 The instruction is supported in the case law, it
22 is a correct statement of law. And, therefore, on the facts
23 of this case, we believe that it would be helpful to assist
24 the jury in understanding that the work that Jazz chose not
25 to include in the patent cannot fill a hole in the

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1 specification.

2 THE COURT: All right. The Court's ruling is
3 going to stand.

4 MS. DAVIS: Turning then to enablement,
5 instruction 5.4. Regarding the language added with respect
6 to -- it was 45 of the redline, it was page 42 of our
7 original proposed submission.

8 THE COURT: The Jazz proposal?

9 MS. DAVIS: Yes, the Jazz proposal, and in
10 particular, the language at the end that, "in addition, the
11 patent disclosure need not enable persons of ordinary skill
12 to make a commercially viable product or to otherwise meet
13 the standards for success in the commercial marketplace."

14 Avadel continues to maintain its objection to
15 that and to request its instruction on the same concept.
16 And here, the law that Jazz is relying on concerns a
17 situation in which an inventor succeeds, but the success
18 does not rise to the level of a commercially viable product.
19 In that situation, courts have said that you should not
20 consider that to be a failure. It is not a lack of
21 enablement. And that concept was also included in Avadel's
22 proposed instruction, we acknowledge that there is no
23 requirement to get to the level of commercial success.

24 The concept that is in Avadel's, that was
25 missing from Jazz's, is that there is very clear law that,

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1 in the case where the inventor does try, they don't have to
2 try, but where they do try to make a commercial embodiment
3 and they fail, that is highly probative of enablement. And
4 in particular, I would direct the Court's attention to the
5 *Ormco* case and that case reads:

6 "If an inventor attempts, but fails to enable
7 his invention in a commercial product that purports to be an
8 embodiment of the patented invention, that is strong
9 evidence that the patent specification lacks enablement.
10 Substantial doubt concerning the enablement of the invention
11 was cast by the inventors in this case."

12 And so we believe our instruction is fully
13 supported by the case law and more closely matches the facts
14 of this case in which the evidence that has been elicited
15 does demonstrate the failure by Jazz as opposed to the
16 situation covered by Jazz's instruction, which is the
17 success that does not go the full distance.

18 THE COURT: Let me hear from Jazz on that issue.

19 MR. LoCASTRO: Jazz's instruction, Your Honor,
20 was taken from another court in this district. Avadel's
21 instruction is essentially seeking to equate
22 commercialization with the safety and efficacy limitations
23 that Your Honor found are not actually limitations of any
24 asserted claim.

25 To emphasize to the jury these instructions

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1 about commercially viable products based upon the *Ormco*
2 case, it would imply to the jury that the fact that
3 Mr. Allphin and his co-inventors didn't arrive at something
4 that was claimed, somehow now becomes part of the enablement
5 inquiry.

6 And I just -- there's really no basis to give
7 that instruction, especially when Jazz, you know, has
8 already proposed that this aspect of the enablement inquiry
9 to the extent that it is going to be given at all, should
10 track what the instruction that Judge Noreika gave in the
11 *Gilead* case.

12 THE COURT: Okay. The Court's ruling is going
13 to stand.

14 MR. LoCASTRO: Thank you, Your Honor.

15 MR. KOWALSKI: Thank you, Your Honor. David
16 Kowalski Avadel. I'm going to briefly address instruction
17 6.1 on damages.

18 THE COURT: Okay.

19 MR. KOWALSKI: Avadel respectfully objects to
20 the last sentence of the proposed -- of the insert that Jazz
21 proposed and the Court has adopted in its redline. In
22 particular, Avadel objects to the inclusion of the language
23 about Jazz, "in any event, is entitled to no less than a
24 reasonable royalty."

25 The reason that Avadel objects, Your Honor, is

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1 this is only a reasonable royalty case. Jazz put on a
2 reasonable royalty case, this is not a situation where
3 there's some alternative form of damages such as lost
4 profits that the jury is potentially going to award in this
5 case. The jury is not going to be asked to decide any other
6 form of damages beyond a reasonable royalty.

7 And, for example, I believe this Court in the
8 *CirBA* case in the past, which also was a reasonable royalty
9 only case, in instruction 14.0 in the *CirBA* case, had the
10 language about adequate to compensate the patentee for
11 infringement but then did not include the language about,
12 "no less than a reasonable royalty," so Avadel objects on
13 those grounds.

14 THE COURT: Let me hear from Jazz on the
15 deletion of -- Jazz's entitled to no less than a reasonable
16 royalty.

17 MR. LoCASTRO: Your Honor, I'm going to quote
18 from 35 U.S.C. Section 284, which states that:

19 "Upon a finding for the claimant, the Court
20 shall award the claimant damages adequate to compensate for
21 the infringement but in no event less than a reasonable
22 royalty for the use made of the invention by the infringer."

23 So Jazz's instruction is directly quoting from
24 the damages statute and I think Your Honor recognized, in
25 placing this in here, is that to not instruct the jury on

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1 the exact words of the statute, you know, I -- would frankly
2 be error.

3 MR. KOWALSKI: May I very briefly respond, Your
4 Honor.

5 We don't dispute that those words appear in the
6 statute, however, this is a reasonable royalty only case and
7 as the Court has done in the past in *CiRBA*, we don't
8 believe -- it's not appropriate to discuss other forms of
9 potential damages to the jury, thank you.

10 THE COURT: Okay. So the Court is going to --
11 the Court's ruling is going to stand. It quotes directly
12 from the statute and, you know, Avadel is -- can make the
13 argument in its closing that, you know, the jury should
14 award no reasonable royalty, you know, that's --

15 MR. KOWALSKI: Thank you, Your Honor.

16 MS. DAVIS: Finally, Your Honor, for instruction
17 6.5, Ms. Pasvantis.

18 MS. PASVANTIS: Good afternoon, Your Honor.
19 Tannyr Pasvantis for Avadel.

20 I would like to direct your attention to page 64
21 of the redline and I'd like to speak to the party's
22 competing instructions and the first sentence of the
23 instructions.

24 Avadel's proposed instruction recites that the
25 jury may consider evidence concerning the availability or

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1 unavailability and cost of acceptable noninfringing
2 alternatives to using the patented invention.

3 This instruction is adapted from *First Quality*
4 *Tissue* and was given in 2022. And our dispute here is that
5 Jazz has not explained why Avadel's proposal is improper or
6 in this case, why Jazz's proposal is instead proper. They
7 merely cited the Federal Rules of Evidence; however, there's
8 nothing prejudicial, confusing or misleading about our
9 proposed instruction which is clearly supported in the law.
10 And Jazz has cited no evidence to the contrary and
11 furthermore, our instruction that they can consider the
12 availability or unavailability also includes Jazz's proposal
13 that they may consider the absence or unavailability.

14 And for those reasons, we believe that our
15 instruction should be given.

16 THE COURT: So on this, if I include Avadel's
17 availability or unavailability in cost, then I would include
18 Jazz's proposal that Avadel admitted that there were not and
19 are not any available noninfringing alternatives. So do you
20 want the admission in the instruction or would you rather
21 have Jazz's absence language?

22 MS. PASVANTIS: We would prefer Jazz's absence
23 language in that instance.

24 THE COURT: That's what I thought.

25 MS. PASVANTIS: Thank you, Your Honor.

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1 THE COURT: All right. So that concludes the
2 jury instructions.

3 All right. You have copies of the verdict form.
4 And the Court looked at both sides' proposed verdict forms
5 and formulated the verdict form using combinations of both
6 and what the Court has done in prior cases with these
7 issues.

8 MR. THOMPSON: Yes, Your Honor, may I be heard
9 briefly?

10 THE COURT: Yes.

11 MR. THOMPSON: I believe, if I'm reading this
12 correctly, that there is actually an error in the verdict
13 form.

14 On page number 11, it says to answer Question 9
15 only if you have found one or more of the asserted claims to
16 be infringed, yes to Question 1, invalid, no to each of the
17 Questions 2-8 for that asserted patent and/or claim.

18 Question 1, however, is addressed only to the
19 '488 patent because Avadel has admitted infringement of the
20 '782 patent and as Your Honor ruled in its judgment as a
21 matter of law ruling, Jazz is entitled to judgment as a
22 matter of law on that issue. And the only question for the
23 jury is whether the patent is valid.

24 And then if it's valid, the jury actually does
25 have to decide Question Number 9 for the '782 patent.

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1 So we had proposed in our verdict form,
2 including in the instruction, the language, "because, Avadel
3 admits infringement of the '782 patent, you, the jury, are
4 not being asked to determine Avadel's infringement for that
5 patent, you are, however, being asked to decide Avadel's
6 invalidity defenses with respect to the '782 patent and
7 damages for Avadel's infringement for the '782 patent."

8 So I think that should be included in the
9 instruction.

10 And then we'll have to fix the way the questions
11 go, because they have to answer Question 9 unless they
12 determine invalidity -- that both the '488 and the '782
13 patent are invalid and if they do not determine that the
14 '782 patent is invalid, they still have to determine damages
15 even if they haven't answered "yes" to Question 1.

16 We tried to account for this in our verdict form
17 proposal. I do think that the way we proposed our verdict
18 form is simpler, it's fewer questions for the jury to answer
19 and easier for them to follow as sort of a matter of logic.
20 So Jazz would propose that the Court adopt Jazz's verdict
21 form. If it doesn't, however, these changes need to be made
22 to the verdict form to account for the fact that the jury is
23 not deciding infringement of the '782 patent.

24 THE COURT: The jury is not deciding
25 infringement of the '782 patent, that's true. And there's

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1 no question asking them to decide infringement, that's why
2 there is no question asking them to decide infringement for
3 the '782 patent.

4 But they do have to decide whether Avadel has
5 proven invalidity of the '782 patent and that's included in
6 Questions Number 6, Question Number 7, and Question Number
7 8. And, thus, that's why the instruction reads that they
8 only have to answer Question 9. If Avadel has -- if they
9 find that both the -- with respect to the '488 patent, that
10 there's infringement and with both the '488 patent and the
11 '782 patent, that they're not invalid.

12 MR. THOMPSON: Yes, Your Honor --

13 THE COURT: And it has to be "no" to all of
14 those questions, 2-8.

15 MR. THOMPSON: The problem, Your Honor, is in
16 the first sentence of that instruction: "Answer Question 9
17 only if you have found one or more of the asserted claims to
18 be infringed ('yes' to Question 1)," that is inaccurate
19 because one, they do not have to find that the '782 patent
20 is infringed, that has been determined as a matter of law
21 that it is infringed; and, two, that "yes" to Question 1,
22 therefore, is wrong.

23 This makes it seem like they have to answer
24 "yes" to Question 1, which is only on the '488 patent. So
25 this needs to be modified --

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1 THE COURT: So it should be "and/or," so give me
2 some proposed language to present in that introductory
3 paragraph but we're not changing the orders of the
4 questions.

5 MR. THOMPSON: Understood, Your Honor. So what
6 I would propose is in the instructions on -- it's on page 2
7 of the verdict form, but the first page with text after the
8 caption page, is to add what Avadel had proposed to add to
9 the end of the instructions:

10 "Because Avadel admits infringement of the '782
11 patent, you, the jury, are not being asked to determine
12 Avadel's infringement for that patent. You are, however,
13 being asked to decide Avadel's invalidity defenses with
14 respect to the '782 patent and damages for Avadel's
15 infringement of the '782 patent."

16 And then I'm trying to figure out a way to make
17 the logic on page 11 work, I think that it would be...

18 MS. DAVIS: Avadel has a proposal.

19 THE COURT: Let me hear Avadel's proposal.

20 MS. DAVIS: And just briefly, so the record is
21 clear, Avadel would --

22 (Reporter clarification.)

23 MS. DAVIS: The proposal made by Jazz just now,
24 Avadel vehemently objects to, but in terms of the proposal
25 for the current verdict form, we would propose:

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1 "Answer Question 8 only if you have found one or
2 more of the asserted claims to be infringed," and then
3 remove the parenthetical that says, "yes to Question 1," the
4 sentence would then go on, "and that such claim is valid."

5 Does that work?

6 MR. THOMPSON: That --

7 THE COURT: That still doesn't deal with the
8 '782 patent, which I get Jazz's point regarding that. So,
9 yeah.

10 MR. THOMPSON: So I think it would be something
11 like:

12 "Answer Question 9 if you find, if you have not
13 found -- if you have not answered 'yes' to Question 6-8,"
14 which I think were the '782, and, "if you answered 'yes' to
15 Question 1..." I just think it's a little confusing which is
16 why we tried to avoid this in our verdict form, so...

17 THE COURT: But your verdict form was not
18 balanced.

19 MR. THOMPSON: Understood, Your Honor. I'm just
20 saying that it does get very confusing for the jury, so...

21 MR. SILVER: May I try, Your Honor, third time
22 is a charm?

23 THE COURT: Let's see what you have.

24 MR. SILVER: Okay. So for -- we could say -- at
25 the outset of Question 9, we could say:

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1 "The jury is not being asked to decide if
2 Claim 24 of the '782 patent is infringed."

3 And then we could say:

4 "Answer Question 9 only if you have -- only if
5 there is a claim of an asserted patent that is both
6 infringed and not invalid."

7 MR. THOMPSON: Your Honor, that's -- that would
8 be okay, but only if the Court adds the instruction from
9 Jazz that the '782 patent, they have admitted infringement,
10 because, otherwise, it's very confusing to the jury since
11 they didn't have to decide infringement of the '782 patent.

12 THE COURT: The jury is not being asked to
13 decide if Claim 24 of the '782 patent is infringed.
14 Infringement of Claim 24 of the '782 patent has been
15 stipulated to by the parties.

16 Then continue, Mr. Silver.

17 MR. SILVER: Like Mr. LoCastro, I hope the court
18 reporter got it, because I don't know if I can say it the
19 same way twice but I'll try.

20 So we would indicate that Claim 24 of the '782
21 patent is -- infringement of that is stipulated, and then we
22 would say:

23 "Answer Question 9 only if there is a claim that
24 is both infringed and not found invalid."

25 So there's --

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1 MR. THOMPSON: I think that's --

2 MR. SILVER: And there's one wrinkle there, Your
3 Honor, I'm not sure it's something we need to put to the
4 jury, we can deal with it depending on how the verdict form
5 comes out. But if they were to invalidate any claim on the
6 inventorship basis that we talked about, that would render
7 the entire patent invalid, but I think we could deal with
8 that --

9 THE COURT: Right.

10 MR. SILVER: -- with Your Honor post-verdict. I
11 just want to make sure for the record we're not waiving that
12 aspect of our inventorship defense.

13 THE COURT: Okay.

14 MR. THOMPSON: I think that's acceptable to
15 Jazz, the proposal relating to the language in Question
16 Number 9.

17 THE COURT: Okay.

18 MR. THOMPSON: Thank you.

19 THE COURT: Thank you.

20 So the instruction will read:

21 "The jury is not being asked to decide if
22 Claim 24 of the '782 patent is infringed. Infringement of
23 Claim 24 the '782 patent has been stipulated to by the
24 parties. Answer Question 9 only if there is a claim that is
25 both infringed and not found to be invalid."

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1 All right. So we'll make that change.

2 All right. That completes the verdict form.

3 Make sure the parties have met and conferred and have the
4 joint -- the copy of the exhibits that are to go back to the
5 jury ready for after -- once the Court gives the jury
6 instructions, for the jury to begin their deliberations.

7 All right. Anything else before we adjourn?

8 MS. DAVIS: Nothing, Your Honor.

9 MR. LoCASTRO: No, Your Honor, thank you.

10 THE COURT: All right. We're adjourned.

11 (Whereupon, the following proceeding concluded
12 at 4:55 p.m.)

13 I hereby certify the foregoing is a true
14 and accurate transcript from my stenographic notes in the
15 proceeding.

16 /s/ Michele L. Rolfe, RPR, CRR
17 U.S. District Court.
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