

UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD

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THERMALTAKE TECHNOLOGY CO., LTD.,
and THERMALTAKE, INC. (a.k.a.
THERMALTAKE USA,

Petitioners,

Volume 2

Vs. IPR2024-01230

U.S. Patent No. 10,690,336

LIAN LI INDUSTRIAL CO., LTD.,
and CHEN CIEN-HAO,

Patent Owners.

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FRIDAY, SEPTEMBER 26, 2025

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DEPOSITION OF ANDREW WOLFE, PH.D.

--000--

Reported By: CAROL S. NYGARD
California CSR No. 4018
Nevada CCR 915

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Patent Owners.

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BE IT REMEMBERED, that on Friday, September 26, 2025, at 3:00 p.m., at Pillsbury Winthrop Shaw Pittman, LLP, 2550 Hanover Street, Palo Alto, California 94304, before me, Carol S. Nygard, a Certified Shorthand Reporter of the State of California, there personally appeared,

ANDREW WOLFE, Ph.D.,
called as a witness by the Patent Owners, who, being by me first duly sworn, was thereupon examined and interrogated as hereinafter set forth:

MR. CHEN: Kyle Chen, counsel for patent owner.

MS. QU: Sue Ray Qu, Pillsbury Winthrop Shaw

1 Pittman, counsel for Petitioners.

2 THE REPORTER: My name is Carol Nygard,
3 California CSR Number 4018.

4 EXAMINATION

5 BY MR. CHEN:

6 Q. Dr. Wolfe, how are you doing?

7 A. I'm fine.

8 Q. Since you've been through this so many times,
9 I'm going to be brief on the initial instructions, so --
10 is there anything that would prevent you from testifying
11 truthfully and fully today?

12 A. No.

13 Q. May I know what those documents are?

14 A. Sure.

15 I have a copy of the 336 patent and a copy of
16 my Reply Declaration.

17 Q. Okay. Actually, I'm just -- actually, about
18 to give you the same thing.

19 But, anyway, so these are all premarked, so
20 this is actually the patent.

21 (Exhibit Number 1001 marked for
22 Identification.)

23 BY MR. CHEN:

24 Q. So the Exhibit I just gave you is Exhibit
25 1001; correct?

1 A. Yes.

2 Q. What is Exhibit 1001?

3 A. It appears to be U.S. Patent 10,69,0336.

4 Q. So --

5 Okay. So I'm going to give you Exhibit 1031.

6 (Exhibit Number 1031 marked for

7 Identification.)

8 BY MR. CHEN:

9 What is Exhibit 1031?

10 A. It appears to be a copy of my Reply

11 Declaration in this matter.

12 (Exhibit Number 1004 marked for

13 Identification.)

14 BY MR. CHEN:

15 Q. Okay. So I'm also going to give you Exhibit

16 1004.

17 So what is Exhibit 1004?

18 A. It appears to be my earlier Declaration in
19 this matter that was the subject of my prior deposition.

20 Q. Okay. Perfect.

21 So -- so please turn to Exhibit 1031, which is
22 your Reply Declaration.

23 Please proceed to paragraph 15, going from
24 pages -- going from page 5 to page 6.

25 A. Okay.

1 Q. So on page 6 do you see a figure in the middle
2 on page 6 which appears to be a fan with two colors?

3 A. Yes.

4 Q. Did you provide this same figure in your prior
5 Declaration, Exhibit 1004?

6 A. Not the --

7 Well, not this exact same figure, no. It's
8 consistent with my testimony, the prior exhibit, and my
9 testimony in my prior -- in the prior deposition, but I
10 had not illustrated it before. I had explained it.

11 Q. Okay. So just so that we have a clean record,
12 and this is a yes/no question -- in Exhibit 1031, which
13 is your Reply Declaration, under paragraph 15 there is a
14 figure showing a fan having two colors; correct?

15 A. Yes.

16 Q. You did not provide this exact figure in your
17 prior Declaration, Exhibit 1004; correct?

18 A. That's correct, I did not provide this exact
19 figure.

20 Q. Please go to paragraph 30.

21 Under paragraph 30 of Exhibit 1031, there are
22 two photos of illuminations fans; correct?

23 A. Yes.

24 Q. Did you provide these photos in your prior
25 Declaration, which is Exhibit 1004?

1 A. No, these are responsive to Dr. Tuckerman's
2 opinions that post-dated my prior Declaration.

3 Q. Just going to paragraph 55 of Exhibit 1031,
4 which is your Reply Declaration, under paragraph 55 do
5 you see two photos of illumination fans?

6 A. Yes, I believe those are the exact same photos
7 that I just testified about.

8 Q. Did you provide these photos in your prior
9 Declaration, Exhibit 1004?

10 A. I don't think they were in the Declaration.
11 I do think they were in the record, but,
12 again, this is responsive to Dr. Tuckerman's testimony.

13 Q. So under paragraph 61 and above paragraph 62
14 of Exhibit 1031, which is your Reply Declaration, do you
15 see a figure having two colors?

16 A. Yes.

17 Q. Did you provide this exact figure in your
18 prior Declaration, Exhibit 1004?

19 A. I don't think I provided it with the colors.
20 Again, it's responsive to Dr. Tuckerman's testimony.

21 Q. In paragraph 15 of Exhibit 1031, which is your
22 Reply Declaration, you cited a definition of the word
23 "side."

24 Do you see that?

25 A. I do.

1 Q. Is the definition of "side" given in paragraph
2 15 of Exhibit 1031, which is your Reply Declaration,
3 quote, "a place, space or a direction with respect to a
4 center or to a line of division, (as of an aisle, river,
5 or street)," end quote?

6 MS. QU: Objection. Vague.

7 THE WITNESS: I'm sorry. I don't understand
8 what the actual question is.

9 BY MR. CHEN:

10 Q. So you gave a definition of "side" in
11 paragraph 15; right?

12 A. I cited to a definition of "side" in paragraph
13 15 that is consistent with the plain meaning.

14 Q. Would you agree to that definition for "side"?

15 A. I think it is illustrative of the plain
16 meaning. I think in my prior deposition and in this
17 Declaration I've explained very clearly what I believe
18 the plain meaning of "side" to be.

19 Q. Did you apply this definition of "side" in
20 paragraph 15 in the entirety of Exhibit 1031, which is
21 your Reply Declaration?

22 A. I believe I considered both my understanding
23 of the plain meaning and also discussed some of
24 Dr. Tuckerman's comments about what a "side" would be,
25 and in some cases found both in the prior art, but I

1 think -- I think all of my opinions are consistent with
2 this definition of "side," as much as it includes a
3 direction with respect to a center or line of division.

4 Q. Yeah, I thank you for that, but my question is
5 much simpler.

6 So my question is simply, Dr. Wolfe, did you
7 apply the definition of "side" as quoted in paragraph 15
8 in the entirety of Exhibit 1031, which is your Reply
9 Declaration?

10 A. I applied the plain meaning of "side," but I
11 also discussed Dr. Tuckerman's representations about
12 what a "side" might be limited to.

13 Q. Dr. Wolfe, in paragraph 15 of your Reply
14 Declaration, which is Exhibit 1031, did you cite a
15 definition of the word, quote, "side," end quote, as,
16 quote, "a place, space or direction with respect to a
17 center or to a line of division (as of an aisle, river
18 or a street)," end quote?

19 A. I did, and then I further explained that that
20 was consistent with the plain and ordinary meaning as
21 used in the 336 specification and claims.

22 Q. Is it your position that this quoted
23 definition in paragraph 15 of your Reply Declaration,
24 which is Exhibit 1031, is the plain meaning of the word
25 "side" in the context of the 336 patent?

1 A. No, I think it's evidenced that the plain
2 meaning of "side" is broad enough to include a left and
3 a right side and is not limited to an outermost surface
4 the way Dr. Tuckerman has applied it at times.

5 Q. Dr. Wolfe, is it your position that this
6 quoted definition in paragraph 15 of your Reply
7 Declaration for the word "side" is not the plain meaning
8 of the word in the context of the 336 patent?

9 A. No, I think it's helpful in understanding the
10 scope of the plain meaning of the word.

11 I think I've been very clear in my testimony
12 and in the Declaration, the outermost edge is not the
13 plain meaning of "side," and in the context of the 336
14 claims, it would be inconsistent with the way the word
15 "side" is used twice in the claim.

16 So I believe that "side" has a plain meaning
17 that includes, as I testified several times before, a
18 left side and a right side, and I think that this
19 dictionary definition supports the idea that in plain
20 ordinary speech a left side and a right side or two
21 sides, two directions, with respect to a center line is
22 part of the plain meaning of the word "side."

23 Q. Dr. Wolfe, did you quote the definition of the
24 word "side" as shown in paragraph 15 of your Reply
25 Declaration, which is Exhibit 1031, in your prior

1 Declaration, which is your Declaration supporting the
2 Petition that is labeled as Exhibit 1004?

3 A. No, I used the consistent interpretation of
4 plain meaning, and I explained that in my previous
5 deposition.

6 I was not aware at that time that
7 Dr. Tuckerman would take a position that "side" means
8 something narrower than what's illustrated in the
9 preferred embodiment.

10 Q. Is it your position that "side" in the context
11 of a 336 patent simply means one half of an object?

12 A. No, but I think it's certainly one -- a left
13 side and a right side are within the scope of the plain
14 meaning of the word "side" as it's used in the 336
15 claims.

16 I have not --

17 The --

18 You know, Lian Li or his experts have not
19 offered any other definition or any other explanation of
20 plain meaning, and the way Dr. Tuckerman has analyzed it
21 is inconsistent with his own illustrations, as is shown
22 -- as is shown in page 5 of Exhibit 1031.

23 (Exhibit Number 2029 marked for
24 Identification.)

25 MR. CHEN: So this is also prelabeled, Exhibit

1 2029.

2 BY MR. CHEN:

3 Q. Dr. Wolfe, do you have Exhibit 2029?

4 A. Yes.

5 Q. What is Exhibit 2029?

6 A. Petitioner's Reply to Patent Owner's Response
7 to Petition.

8 Q. Would you please turn to -- page 25.

9 A. Okay.

10 Q. On page 25 of Exhibit 2029, which is
11 Petitioner's Reply to Patent Owner's Response to
12 Petition, do you see a figure colored in red, green and
13 yellow?

14 A. Yes.

15 Q. Did you provide this exact same figure in your
16 Reply Declaration, which is Exhibit 1031?

17 A. I don't recall.

18 Q. Did you provide this exact figure in your
19 original Declaration, which is Exhibit 1004?

20 A. No.

21 MR. CHEN: This is, again, prelabeled Exhibit
22 1032.

23 (Exhibit Number 1032 marked for
24 Identification.)

25 BY MR. CHEN:

1 Q. Dr. Wolfe, do you have Exhibit 1032?

2 A. I do.

3 Q. What is Exhibit 1032?

4 A. This is an excerpt of a dictionary I had in my
5 office.

6 Q. What dictionary?

7 A. The Merriam-Webster's Collegiate Dictionary,
8 the 11th Edition.

9 Q. Is this Exhibit 1032 where the quoted
10 definition in paragraph 15 of your Reply Declaration,
11 which is Exhibit 1031, came from?

12 A. Yes.

13 Q. So in Exhibit 1032 on page 4 of 4 do you see
14 the word "side" as being defined?

15 A. Yes.

16 Q. Would you please read the definition of "side"
17 on page 4 of Exhibit 1032 labeled as "3 b" as in boy?

18 A. "A line or surface forming a border or face of
19 an object, (a die has six sides), the back side of the
20 moon."

21 MR. CHEN: This is premarked Exhibit 2023.

22 (Exhibit Number 2023 marked for
23 Identification.)

24 BY MR. CHEN:

25 Q. Dr. Wolfe, do you have Exhibit 2023?

1 A. Yes.

2 Q. What is shown in Exhibit 2023?

3 A. It's a drawing that a person could potentially
4 interpret as being a die.

5 Q. Under that interpretation that the drawing in
6 Exhibit 2023 is a die, would you expect the die to have
7 six sides as defined in definition 3 b of "side" in
8 Exhibit 1032?

9 A. You would have to infer about the drawing, but
10 I would expect an ordinary die would have six surfaces,
11 and it would not be unusual to call those six surfaces
12 "sides" within the plain meaning, but, also, that
13 doesn't really inform the claim, because the claim's not
14 on a die, and it doesn't limit the meaning of the -- the
15 plain meaning of the word "side" to that particular
16 meaning.

17 Q. But for a die, as shown in Exhibit 2023, would
18 you expect the die as shown to have six sides as defined
19 in definition 3 b for "side" in Exhibit 1032?

20 MS. QU: Objection. Asked and answered.

21 THE WITNESS: I think I would, but that would
22 not inform my understanding of the claim.

23 MR. CHEN: This is also premarked 2024.

24 (Exhibit Number 2024 marked for
25 Identification.)

1 BY MR. CHEN:

2 Q. Do you have Exhibit 2024?

3 A. Yes.

4 Q. What is Exhibit 2024?

5 A. It appears to be a drawing somebody has
6 prepared of -- that reflects some aspects of the die.

7 Q. Is it fair to say that Exhibit 2024 is an
8 annotated version of Exhibit 2023 showing a die?

9 A. Depends what you mean by "annotated."
10 There is a hidden surface that's been drawn
11 in.

12 Q. Whatever that is added to Exhibit 2023 would
13 be referred to as "annotation" in my question, so let me
14 ask the question again.

15 Is it fair to say that the Exhibit 2024 is an
16 annotated version of Exhibit 2023 showing the die?

17 A. If we treat all added matter as annotations,
18 then that's fair.

19 Q. Does Exhibit 2024 show the die having a red
20 side labeled as "one side of the die"?

21 A. Are we using claim language here, "one side of
22 the die"?

23 Are you -- are you --

24 Are you expecting me to apply the claim
25 language about one side?

1 Q. No. I'm asking you to apply the language we
2 just read in the dictionary, actually.

3 Dr. Wolfe, did you recall that you testified
4 that in Exhibit 1032 the definition 3 b of "side" gave
5 an example of a die having six sides?

6 MS. QU: Objection to form.

7 THE WITNESS: I don't think that's quite what
8 I said, but if --

9 An ordinary die could -- could be described as
10 having six sides, yes.

11 BY MR. CHEN:

12 Q. Does Exhibit 2024 show an annotated die having
13 a red side labeled as "one side of the die"?

14 A. It does based on one interpretation of the
15 word "side."

16 Q. Does Exhibit 2024 show an annotated die having
17 a blue side labeled as "top of the die"?

18 A. It does consistent with one meaning of the
19 word "side."

20 Q. Does Exhibit 2024 show an annotated die having
21 a green side labeled as "another side of the die"?

22 A. It does, consistent with one meaning of the
23 word "side."

24 Q. And the meaning you keep referring to would be
25 the definition 3 b for "side" in Exhibit 1032; correct?

1 A. Yes, which, as I mentioned, is inconsistent
2 with the preferred embodiment in the claim.

3 MR. CHEN: This is prelabeled Exhibit 2025.
4 (Exhibit Number 2025 marked for
5 Identification.)

6 BY MR. CHEN:

7 Q. Dr. Wolfe, do you see Exhibit 2025?

8 A. Yes.

9 Q. What is Exhibit 2025 showing?

10 A. I don't know. This is just some drawings that
11 you made.

12 Q. Is it fair to say that on the left-hand side
13 of Exhibit 2025 shows an annotated die as shown in
14 Exhibit 2024?

15 A. Yes.

16 Q. Is it fair to say that on the right-hand side
17 of Exhibit 20 --

18 Strike that.

19 Is it fair to say that on the right-hand side
20 of Exhibit 2025 an annotated illumination fan as in
21 Figure 1 of Exhibit 1001 is shown?

22 A. It's annotated. I think the annotations are
23 quite misleading.

24 Q. Under the definition 3 b for "side" in Exhibit
25 1032 does the right-hand side of Exhibit 2025 show a

1 body having one side of the body colored in red?

2 A. See, now we're using claim language again.

3 We have to apply the entire claim or none of
4 the claim.

5 "Body" is a claim term. We're referring to a
6 preferred embodiment here.

7 I'm not going to apply a portion of the claim
8 inconsistently with other portions of the claim.

9 Q. So let's lay some foundation.

10 So we agree that on the right-hand side of
11 Exhibit 2025 there is an annotated illumination fan as
12 shown in Figure 1 of Exhibit 1001, which is the 336
13 patent; correct?

14 A. Yes, but one that's inconsistent or leaves out
15 portions of Dr. Tuckerman's testimony.

16 Q. So under the definition 3 b for "side" in
17 Exhibit 1032 the definition states that "side" in 3 b
18 means "a line or a surface forming a border or a face of
19 an object;" correct?

20 A. Yes.

21 Q. With respect to Exhibit 2025, on the
22 right-hand side would you agree that the body of the
23 illumination fan is an object?

24 A. I think we're playing games here.

25 Is this intended to be Figure 1 from the

1 patent or not?

2 Q. It is.

3 A. Okay. If it's intended to be Figure 1 from
4 the patent, then that interpretation of "side" is
5 inconsistent with the claims.

6 Q. That is not my question.

7 My question is that, using the definition 3 b
8 in Exhibit 1032 for "side," do you agree that the body
9 of the illumination fan as annotated in Figure 1 of the
10 336 patent in Exhibit 2025 is an object?

11 MS. QU: Objection to form, asked and
12 answered, improper hypothetical.

13 THE WITNESS: Pretty much anything is an
14 object that's physical, but, again, depending on how
15 it's interpreted in light of the claim, this figure can
16 show one object or it can show many objects.

17 BY MR. CHEN:

18 Q. So this is actually a simpler question than
19 your answer is responding to. This is a "yes" or "no"
20 question.

21 Dr. Wolfe, using the definition 3 b in Exhibit
22 1032 for "side," would you agree that the body of the
23 annotated illumination fan on the right-hand side of
24 Exhibit 2025 is an object

25 MS. QU: Objection. Same objections.

1 THE WITNESS: I think it's subject to
2 interpretation. It could be an object. It's also a
3 collection of objects.

4 BY MR. CHEN:

5 Q. Dr. Wolfe, using the definition 3 b in Exhibit
6 1032 for "side," would you agree that the body of the
7 illumination fan annotated on the right-hand side of
8 Exhibit 2025 could be an object?

9 MS. QU: Objection to form.

10 THE WITNESS: It could be considered to be an
11 object.

12 BY MR. CHEN:

13 Q. With the understanding that the body of the
14 illumination fan shown on the right-hand side of Exhibit
15 2025 is an object, do you agree that the red surface in
16 the annotated illumination fan on the right-hand side of
17 Exhibit 2025 is a "side" under definition 3 b of "side"
18 in Exhibit 1032?

19 MS. QU: Objection to form.

20 THE WITNESS: I think under that particular
21 definition it would be, but the plain meaning is not
22 limited to that one definition -- and, as I mentioned,
23 that definition is not consistent with other parts of
24 the claim.

25 BY MR. CHEN:

1 Q. With the understanding that the body of the
2 illumination fan on the right-hand side of Exhibit 2025
3 is an object, do you agree that the green surface as
4 labeled is another side of the body under definition 3 b
5 for a "side" in Exhibit 1032?

6 MS. QU: Objection to form.

7 THE WITNESS: Yes, with all the caveats from
8 my prior answer.

9 BY MR. CHEN:

10 Q. So, going back to Exhibit 1032, can you please
11 read definition 4 b for the word "side."

12 A. "An area next to something usually used in
13 combination, a poolside interview."

14 MR. CHEN: This is prelabeled Exhibit 2026.
15 (Exhibit Number 2026 marked for
16 Identification.)

17 BY MR. CHEN:

18 Q. Dr. Wolfe, do you have Exhibit 2026?

19 A. Yes.

20 Q. What does Exhibit 2026 appear to show?

21 A. I don't know.

22 Q. What is the label of the item shown in Exhibit
23 2026?

24 A. "Pool."

25 Q. Would you agree that one could look at Exhibit

1 2026 and understand that the item shown is actually a
2 circular pool?

3 A. I don't know.

4 Q. Can we assume that Exhibit 2026 shows a
5 circular pool?

6 A. If you would like me to assume that, I will
7 assume it for these questions.

8 MR. CHEN: So this is prelabeled 2027, Exhibit
9 2027.

10 (Exhibit Number 2027 marked for
11 Identification.)

12 BY MR. CHEN:

13 Q. What is Exhibit 2027 in your view, assuming
14 what is shown in Exhibit 2026 is a pool?

15 MS. QU: Objection to form.

16 THE WITNESS: It's a similar drawing with some
17 words written on it.

18 BY MR. CHEN:

19 Q. Do you see the locations in Exhibit 2026 that
20 are labeled as "poolside"?

21 A. No.

22 Q. Do you see the word "poolside" in Exhibit
23 2026?

24 A. No.

25 Q. What did you see in Exhibit 2026?

1 A. A picture.

2 Q. Does it have a label that says "poolside"?

3 A. No.

4 Q. Is it your position that Exhibit 2026 does not
5 have the word "poolside" included in the drawing?

6 A. Yes.

7 Q. Why?

8 A. That is my observation.

9 Q. You don't see the word "poolside,"
10 p-o-o-l-s-i-d-e, in Exhibit 2026?

11 A. I do not.

12 Q. What words do you see --

13 List out all of the words that you see in
14 Exhibit 2026.

15 A. "Pool."

16 Q. That is the only word you see in Exhibit 2026?

17 A. Yes.

18 Q. You don't see the word "poolside"?

19 A. I've answered that, no, I do not, not in
20 Exhibit 2026.

21 MS. QU: Counsel, the last exhibit you
22 introduced is 2027, not 2026.

23 MR. CHEN: Oh, okay. My apologies.

24 My apologies.

25 BY MR. CHEN:

1 Q. So we have to kind of go back.

2 So, Dr. Wolfe, what is Exhibit 2027 in your
3 view, assuming what is in Exhibit 2026 is a pool

4 MS. QU: Objection to form.

5 THE WITNESS: If I make that assumption, it's
6 a similar picture with some words added.

7 BY MR. CHEN:

8 Q. Do you see the locations in Exhibit 2027 that
9 are labeled as "poolside"?

10 A. Yes.

11 Q. Do you think --

12 Strike that.

13 Dr. Wolfe, do you agree that the labeled
14 locations as "poolside" in Exhibit 2027 reflect the
15 definition 4 b as in "boy" for a "side" in Exhibit 1032?

16 MS. QU: Objection to form.

17 THE WITNESS: With respect to pools, I think
18 it does -- although it's hard to tell.

19 Depends what you mean by the "labels."

20 I mean, clearly at some point it's no longer
21 poolside.

22 BY MR. CHEN:

23 Q. Under the definition 4 b for a "side" in
24 Exhibit 1032, is the location labeled as "poolside" in
25 Exhibit 2027 next to the item labeled as "pool"?

1 A. I guess subject to interpretation how close
2 you have to be to be next to something.

3 Again, I wouldn't use definitions related to
4 pools to understand the claims.

5 Q. Based on your review of Exhibit 2027 do you
6 believe the locations labeled as "poolside" are part of
7 the pool -- as labeled in the same exhibit?

8 A. Again, I don't know what you intended in the
9 drawing, but, as I look at it here, no, they don't seem
10 to be part of the pool.

11 I certainly don't --

12 Not what I would describe as the "side" of the
13 pool, which is different than using the word "poolside."

14 The "side" of a pool I would normally consider
15 to be its -- its vertical walls.

16 MR. CHEN: Okay. Exhibit 2028 prelabeled.

17 (Exhibit Number 2028 marked for
18 Identification.)

19 BY MR. CHEN:

20 Q. Dr. Wolf, do you see Exhibit 2028?

21 A. Yes.

22 Q. What is shown in Exhibit 2028?

23 A. The same drawing as 2027 along with a
24 partially annotated version of the fan from
25 Dr. Tuckerman's testimony.

1 Q. Would it be fair to say that on the right-hand
2 side of Exhibit 2028 an annotated illumination fan as in
3 Figure 1 of Exhibit 1001, which is the 336 patent, is
4 shown?

5 A. Well, that's partially what's shown, but it
6 also includes some annotations that reflect
7 Dr. Tuckerman's testimony.

8 Q. Do you see the darker blue locations labeled
9 as "two sides of fan" in Exhibit 2028?

10 A. Yes.

11 Q. Would you agree that those locations are next
12 to the fan in the center?

13 A. No.

14 Q. Well, why not?

15 A. Well, so let's -- let's look at this a couple
16 different ways.

17 One, because there are flat surfaces between
18 the fan and those things, so they are not next to it,
19 they are --

20 I mean, the -- the flat surface on -- facing
21 upward is next to the fan opening, and then these things
22 that Dr. Tuckerman identified as the illumination area 3
23 are farther away. They also aren't on the same surface.

24 And the language in the claim is not "fan
25 side," like "poolside."

1 The language of the claim is actually "the
2 side of the fan," and within the claim the most recent
3 recitation of "fan" before it refers to "side of the
4 fan" is the rotating portion in the middle.

5 So I don't think what's illustrated on Exhibit
6 2028 would be the two sides of the fan under the 4 b
7 definition, even if you tried to take that definition
8 and apply it to this kind of art.

9 Now, under the definition that I highlighted,
10 definition 2, then those could be on the left side of
11 the fan and the right side of the fan.

12 I also want to note that there's a second
13 border there that has been highlighted in dark blue. I
14 don't think Dr. Tuckerman intended to include that in
15 the illumination area.

16 Q. Are the areas labeled as "two sides of fan" in
17 Exhibit 2028 part of the rotating fan in the middle of
18 the illumination fan on the right-hand side of Exhibit
19 2028?

20 A. They are not.

21 Q. Would it be fair to say that the two sides of
22 the fans are not part of the rotating fan in the
23 annotated illumination fan in Exhibit 2028?

24 A. It would be fair to say that the portions you
25 have highlighted and labeled as "two sides" are not part

1 of the rotating fan blade.

2 Q. So in paragraph 16 of your Reply Declaration,
3 which is Exhibit 1031, your position is that the two
4 sides of the center fan are not part of the center fan;
5 correct?

6 A. I don't understand the question.

7 Q. So on page 7 of Exhibit 1031 at the top it
8 says that "In the preferred embodiment it is clearly not
9 part of fan 2."

10 So the word "it" there, it refers to
11 illumination area 3 in the previous sentence; right?

12 A. Correct, illumination area 3 is not part of
13 fan 2 in the preferred embodiment.

14 Q. Is it your position that the two sides of the
15 fan, the illumination area 3 is on -- are also not part
16 of the fan 2 in the embodiment of Figure 1 of the 336
17 patent?

18 MS. QU: Objection to form.

19 THE WITNESS: I don't understand the question.

20 BY MR. CHEN:

21 Q. Are the two sides of the center fan in --
22 Strike that.

23 Are the two sides of the center fan 2 in the
24 embodiment of Figure 1 of the 336 patent part of the
25 center fan 2?

1 A. Under the correct interpretation of the plain
2 meaning of "sides," yes, they would be, but, as I noted,
3 Dr. Tuckerman has used inconsistent and overly limiting
4 interpretations in his testimony without actually
5 explaining his understanding of the plain meaning of the
6 word "side" in the claims.

7 Q. Would you agree that the specification of the
8 336 patent discloses that in the embodiment as shown in
9 Figure 1 illumination area 3 on the two sides of the
10 center fan are not part of the fan?

11 A. In Figure 1 illumination area 3 is not part of
12 fan 2. It is to the left and to the right of fan 2.

13 Q. By "fan 2" you mean the rotating center fan of
14 Figure 1 of the 336 patent; right?

15 A. That's how "fan 2" is defined in the
16 specification, it is a fan disposed in the center of
17 body 1.

18 Q. And do you agree that illumination fan --
19 Strike that.

20 Dr. Wolfe, do you agree that illumination area
21 3 on the two sides of the center fan are not part of the
22 fan in Figure 1 of the 336 patent?

23 A. Illumination area 3 is not part of fan 2 in
24 Figure 1. It is illustrated as being to the left and to
25 the right of fan 2.

1 Q. Dr. Wolfe, do you agree that illumination
2 area 3 is on the two sides of the center fan 2 in the
3 embodiment as shown in Figure 1 of the 336 patent?

4 A. Yes, under a proper understanding of the plain
5 meaning of "side" as used in the claim.

6 Q. But the illumination area 3 is not part of the
7 center fan 2 in the embodiment as shown in Figure 1 of
8 the 336 patent?

9 A. Correct.

10 Q. And illumination area 3 is on the two sides of
11 the center fan 2 in the embodiment of Figure 1 of the
12 336 patent?

13 A. Under the appropriate understanding of the
14 plain meaning of the word "side" as used in the claims,
15 that is true.

16 Q. And is it your position that the two sides of
17 the center fan 2 are part of the center fan 2?

18 A. I don't think they need to be under the proper
19 understanding of the plain meaning of the word "side,"
20 but under your dictionary definition 3 b it would have
21 to be a surface or face of that object -- so clearly
22 "side" cannot be limited to that understanding.

23 Q. I'm not asking you about definition 3 b.

24 I'm asking you, in your understanding of the
25 336 patent is it your position that the two sides of the

1 center fan 2 are part of the center fan 2?

2 MS. QU: Objection. Asked and answered.

3 THE WITNESS: Again, I'm not quite sure what
4 you mean by "the two sides of center fan 2."

5 BY MR. CHEN:

6 Q. Well, the 336 patent discloses that the
7 illumination area 3 is on the two sides of the center
8 fan 2; correct?

9 A. It is a little ambiguous, but under a broad
10 plain meaning of "side" the way I've illustrated it on
11 page 6, that would be true.

12 Q. And the two sides of the center fan 2 are a
13 part of the center fan 2 in the embodiment shown in
14 Figure 1 of the 336 patent; correct?

15 A. What do you mean by "the two sides of center
16 fan 2"?

17 Q. Well, we just established that illumination
18 area 3 is on the two sides of the center fan 2; correct?

19 A. Well, as I said, it's ambiguous.

20 I know, you know, indefiniteness is not an
21 issue that's up in this current proceeding, but there
22 are two different potential antecedent bases for the
23 word "fan."

24 You know, I'm trying to read it in such a way
25 that -- that the claim is definite for purposes of this

1 proceeding, and --

2 Q. Okay.

3 A. -- under my understanding of the plain meaning
4 of "fan" -- of "side," where it could be to the left
5 side or the right side, two different directions from a
6 center line, under that definition, then, yes, the two
7 sides of the fan are -- are shown in Figure 1.

8 Q. So in Figure 1 the two sides of the center fan
9 2 are part of the center fan; correct?

10 A. Under the plain meaning of "side," as I've
11 explained it in my Declaration, that would be true.

12 Q. But, using that same meaning, is it your
13 position that illumination area 3 is on two sides of the
14 center fan 2 in the embodiment of the 336 patent as
15 shown in Figure 1?

16 A. Under my understanding of "side" as being to
17 the left or to the right it would be.

18 Q. So your position is that illumination area 3
19 is on two sides of the center fan 2, but the
20 illumination area 3 is not part of the center fan 2, yet
21 the two sides of center fan 2 are part of the center fan
22 2; correct?

23 MS. QU: Objection. Mischaracterizes prior
24 testimony and objection to form.

25 THE WITNESS: All the things you said could be

1 logically true if you apply the definition of "side,"
2 because the blades are also to the side; right?

3 I mean, just because one thing is to the side
4 doesn't mean other things aren't to the side.

5 That's the misconception throughout
6 Dr. Tuckerman's testimony, is because he shows this
7 surface in pink and says that is on one side of the
8 body, he incorrectly assumes that nothing else can be on
9 one side of the body.

10 BY MR. CHEN:

11 Q. Okay. Let's just go this one step at a time.

12 Dr. Wolfe, do you agree that in the embodiment
13 of Figure 1 in the 336 patent illumination area 3 are on
14 two sides of the fan 2?

15 A. Under what I believe is the plain meaning of
16 "side," I do.

17 Q. Are the two sides of a fan 2 part of the fan
18 2?

19 A. Yes.

20 Not everything on the two sides of the fan 2
21 is part of the fan 2, but elements that are on two sides
22 of fan 2 are part of fan 2.

23 Q. What part of the two sides of a fan 2 are not
24 part of the fan 2?

25 A. The illumination area 3, for example.

1 I'm sorry. Maybe I didn't understand the
2 question.

3 Let me hear the question again.

4 There are things that are on the side of the
5 fan under the correct plain meaning of "side" that are
6 not part of the fan, and there are things that are on
7 the side that are part of the fan.

8 And, if you look at my illustration on page 6
9 of my Reply Declaration, that's extremely clear.

10 There are parts of the fan -- fan 2 that I
11 have highlighted in blue, and there are things that are
12 not part of fan 2 that I have highlighted in blue.

13 Q. Well, so we're talking about two different
14 terms, one is "two sides of the fan," the other term is
15 "one side of the body;" right?

16 A. You had not asked me about one side of the
17 body, but you can.

18 Q. Well, okay.

19 So -- so if we look at --

20 Okay. Then let me --

21 I'll just ask you a question point blank then.

22 So on page 6 of your illustration in Exhibit
23 1031 you do have an embodiment of the illumination fan
24 in the 336 patent to have a red side and a blue side;
25 right?

1 A. I do.

2 Q. Both the red and the blue sides of the body
3 are part of the body; correct?

4 A. They are.

5 Q. Is there any part of the two sides of a body
6 that are not part of the body of the illumination fan?

7 A. Not in this example, no.

8 Q. Yet in your understanding when the word
9 "sides" is applied to the center fan 2 your testimony is
10 that the two sides of the fan 2 includes elements that
11 are not part of the center fan 2; correct?

12 MS. QU: Objection to form.

13 THE WITNESS: I didn't write the claim; right?
14 That's the only interpretation that's
15 consistent with the disclosure of the specification.

16 Otherwise, the illumination area has to be
17 literally on the side of the fan, and that's not
18 disclosed.

19 MS. QU: I don't mean to interrupt, but we've
20 been on record for almost 80 minutes, so may be time to
21 consider a break.

22 MR. CHEN: Yeah. Let me finish this line of
23 questioning.

24 MS. QU: Sure.

25 BY MR. CHEN:

1 Q. So that is not answering my question. That is
2 nonresponsive.

3 Okay. Let me ask it again.

4 Dr. Wolfe, in your understanding when the word
5 "sides" are in the phrase "two sides of the center fan,"
6 your testimony is that the two sides of the fan 2 as
7 shown in the embodiment include elements that are not
8 part of the center fan 2; correct?

9 A. The phrase you used is not in the claim.

10 Q. "Two sides of the fan" is not in the claim?

11 A. That wasn't the phrase you used.

12 Q. What is the phrase?

13 What is the correct phrase, and I'll use that
14 phrase?

15 A. You can read the claim.

16 MR. CHEN: Oh. I kind of messed up an
17 exhibit.

18 May I borrow a copy of the 336 claim?

19 Thank you.

20 BY MR. CHEN:

21 Q. So the phrase in the claim in column 4 of
22 Exhibit 1001 is "two sides of the fan;" correct?

23 A. The phrase "two sides of the fan" does appear
24 in Claim 1.

25 Q. "Two sides of a fan," and the -- the "two

1 sides of the fan," the fan there is reflected in the
2 embodiment in Figure 1 as the center fan 2; right?

3 A. I think that's the most reasonable
4 interpretation.

5 Q. Under that interpretation is it your
6 interpretation two sides of the fan 2 contain elements
7 that are not part of the center fan 2?

8 A. I think it must be that way, because there are
9 two possible ways that a person of ordinary skill in the
10 art could understand that phrase, either that the two
11 sides of the fan recited there are literally part of the
12 fan 2, in which case the patent does not disclose an
13 illumination area on at least two sides of the fan 2.

14 So in understanding this I have given the
15 patent owner the benefit of the doubt here, and it's my
16 understanding that that could refer to an illumination
17 area that is on the left side of the fan or on the right
18 side of the fan, depending on how you would orient it.

19 Q. Next to fan 2 as opposed to part of fan 2;
20 correct?

21 A. Yes.

22 Q. Okay. So on page 6 under paragraph 15 of your
23 Reply Declaration, Exhibit 1031, you divided the body of
24 the illumination fan into portions, the red portion and
25 the blue portion; correct?

1 A. In that paragraph, yes.

2 Elsewhere in my testimony I explain that you
3 also would have illumination areas in this embodiment on
4 both sides of -- of a -- of a center line.

5 Q. Yeah, I understand that, but I'm talking about
6 the body of the illumination fan in terms of the claim
7 word, the word as in claim "side," so let me ask you
8 again.

9 Dr. Wolfe, in the illustration on page 6 of
10 your Reply Declaration, Exhibit 1031, under paragraph
11 15, is there any element of a side of the body of the
12 illumination fan not part of the body?

13 A. Not in this example, no.

14 Q. Dr. Wolfe, is it your position that, when the
15 word is in the phrase "side of the body" in the 336
16 patent that "side" is part of the body?

17 MS. QU: Objection to form.

18 THE WITNESS: No, I've -- I've made it really
19 clear what my understanding of the word "side" is in the
20 claim.

21 It's a direction with respect to a center or
22 line of division.

23 BY MR. CHEN:

24 Q. So you believe that there are elements of a
25 side of the body of the illumination fan in the 336

1 patent that are not part of the body of the illumination
2 fan?

3 MS. QU: Objection to form.

4 BY MR. CHEN:

5 Q. Correct?

6 A. I don't understand the question.

7 There are --

8 I think that's within the scope of the claim,
9 but that's not what's illustrated in Figure 1.

10 Q. Can you give examples of the elements you're
11 talking about that are part of the side of the body of
12 the illumination fan --

13 Strike that.

14 Dr. Wolfe, can you give examples of the
15 elements you're talking about that are on a side of the
16 body of the illumination fan, yet are not part of the
17 body of the illumination fan?

18 A. What illumination fan?

19 Q. The illumination fan as shown in Figure 1 of
20 the 336 patent.

21 A. I already testified that that's not present in
22 that figure.

23 Q. Just hypothetically can you provide an example
24 of any elements that are on one side of the body of the
25 illumination fan that are not part of the body of the

1 illumination fan?

2 A. Not right now. I haven't considered that.

3 Q. So, Dr. Wolfe, sitting here today you cannot
4 think of the situation where an element that is on a
5 side of a body of an illumination fan as shown and
6 disclosed in the 336 patent, that element is not also a
7 part of the body of the illumination fan; correct?

8 MS. QU: Objection to form.

9 THE WITNESS: I haven't considered that. It
10 wasn't necessary for my opinions.

11 MR. CHEN: Okay. Yeah, sure. We can take a
12 break if you would like.

13 Ten minutes?

14 (Thereupon a recess was taken at 4:27 p.m.
15 and the deposition resumed at 4:41 p.m.)

16 BY MR. CHEN:

17 Q. So, Dr. Wolfe, can you please turn to
18 paragraph 90 in your Reply Declaration, which is Exhibit
19 1031.

20 A. Okay.

21 Q. So on --

22 Then on, you know, on the next page, still
23 like under paragraph 90, do you see a figure, annotated
24 figure, that you placed under paragraph 90 of your Reply
25 Declaration, which is 1031?

1 Sorry. I didn't hear.

2 A. I didn't hear a question.

3 Q. Oh. I said, did you see the illustration that
4 you placed on page 49 of your Declaration?

5 A. I do.

6 Q. Okay. So can you please go to Figure 2 of
7 Exhibit 1001, which is the patent.

8 So in Figure 2 of the 336 patent do you see an
9 illumination fan on the left-hand side of Figure 2?

10 A. Yes.

11 Q. And on the right-hand side of Figure 2 of the
12 336 patent do you see another illumination fan?

13 A. Yes.

14 Q. Do you agree that the illumination fan on the
15 right-hand side can receive power through its connector
16 2 labeled as 6 from the first connector, which is
17 labeled as 5, of the illumination fan on the left?

18 A. Under some circumstances.

19 Wait. No, no, no.

20 I'm sorry. I'm sorry. That's not right.

21 Oh, yes, it is.

22 Under some circumstances --

23 No, actually that's not disclosed. You asked
24 me if connector 6 can receive?

25 Q. Connector 6 of the fan on the right-hand side,

1 which is the second connector.

2 A. I don't think so.

3 Where would the power --

4 Well, where would the power come from?

5 Q. The power comes from the first connector of
6 the fan on the left side.

7 A. So not within -- not within -- not within the
8 four walls of --

9 Let's see.

10 Not within the four walls of this patent, no.

11 Q. What?

12 So Figure 2 --

13 A. Yes.

14 Q. Figure 2 on the left-hand side, there is a --
15 illumination fan; right?

16 A. Yes.

17 Q. On the right-hand side there is another
18 illumination fan; right?

19 A. Yes.

20 Q. Can the illumination fan on the right-hand
21 side receive power from the illumination fan on the
22 left-hand side?

23 A. Not without additional modifications.

24 The problem is that in order for connector 5
25 to supply power, it would have to get it from connector

1 4, and if connector 5 were connected to connector 6,
2 there's no access to connector 4.

3 Q. Oh, I see what you're getting at. Okay.

4 So you're saying that you don't know where the
5 power of the -- like the fan on the left-hand side comes
6 from?

7 A. Right.

8 There would have to be another undisclosed
9 power connector somewhere.

10 Q. Okay. So let's assume the illumination fan on
11 the left-hand side already receives power.

12 Let's assume that; okay?

13 A. Yes.

14 Q. And let's assume power socket 4 on the
15 illumination fan on the left side is receiving power
16 already.

17 Can the illumination fan on the right-hand
18 side receive power from its connector to 6, as labeled,
19 or it's second connector, through its connection with
20 the first connector of the fan on the left-hand side?

21 MS. QU: Objection to form.

22 THE WITNESS: Again, I don't understand how we
23 can assume that power -- that connector 4 is getting
24 power if it's covered and inaccessible.

25 There would have to be some other undisclosed

1 connector.

2 BY MR. CHEN:

3 Q. So in Claim 1 --

4 Let's go to Claim 1.

5 A. Yes.

6 Q. So Claim 1 talks about --

7 So we're not talking about, you know, Claim 6
8 or 7, or subsequent claim, we're just, you know, talking
9 about the original Claim 1; okay?

10 Claim 1 discloses -- or claims a -- an
11 illumination fan connected with another illumination
12 fan.

13 Do we agree on that?

14 A. That is not correct.

15 Q. Why not?

16 A. It claims an illumination fan that is
17 connectable with at least one other illumination fan,
18 but not one that is connected.

19 Q. Okay. Okay. That's fine.

20 If the illumination fan is connectable with
21 another illumination fan, would the embodiment in which
22 the illumination fan is connected with another
23 illumination fan be within the scope of Claim 1?

24 MS. QU: Objection to form.

25 THE WITNESS: It would depend.

1 It would depend on the details; right?

2 As I mentioned, there are issues with Claim 1.

3 You know, this is not a forum where we can
4 challenge written description of enablement, but there
5 are issues with Claim 1, and, you know, I -- I don't
6 want to start answering questions on topics that we're
7 not allowed to bring up in this forum.

8 BY MR. CHEN:

9 Q. Well, I'm not asking you to do that.

10 I'm asking you, assuming that there is an
11 illumination fan connected with another illumination
12 fan, you have a configuration with one illumination fan
13 that is connected with another illumination fan, would
14 you agree that one illumination fan is connectable with
15 the -- another illumination fan that's already connected
16 to the illumination fan?

17 A. Yes.

18 Q. Okay. So in that configuration, assuming the
19 illumination fan is already receiving power, can that
20 illumination fan give power to the -- another
21 illumination fan while connected to it?

22 MS. QU: Objection to form.

23 THE WITNESS: Separately from whether or not
24 it's within the scope of the claim?

25 MR. CHEN: Uh-huh.

1 THE WITNESS: Hypothetically such a device
2 could exist.

3 MR. CHEN: Okay. So I'm providing a
4 prelabeled Exhibit 2032.

5 (Exhibit Number 2032 marked for
6 Identification.)

7 BY MR. CHEN:

8 Q. Dr. Wolfe, do you have Exhibit 2032?

9 A. Yes.

10 Q. Okay. And so on page 2 of 3 of Exhibit 2032
11 what do you see?

12 A. There's a figure that's similar to Figure 2 of
13 the patent, and there's something written in Chinese
14 that I don't understand.

15 Q. Okay. But, you know, forget about the
16 Chinese, just the -- just the figure.

17 Do you see --

18 A. It's similar, but it is also different. It is
19 a different picture.

20 Q. It's a different picture; right?

21 A. Yes.

22 Q. Okay. So go to page 3 of 3 of Exhibit 2032.
23 What do you see?

24 A. I see a figure that is similar to Figure 3 in
25 the patent, but has at least one substantial difference,

1 and, again, some Chinese writing that I don't
2 understand.

3 Q. Yeah.

4 So what is the difference?

5 MS. QU: Objection to form.

6 THE WITNESS: On Exhibit 2032, page 2 of 3,
7 when I compare that to Figure 2 of the 336 patent,
8 there's an additional cable attached and labeled 4, and
9 the groove on the second fan is different to accommodate
10 that cable.

11 BY MR. CHEN:

12 Q. Okay. And what's the difference you see on
13 the next page?

14 A. Oh, and also element 8 has been deleted, and
15 -- or not --

16 Well, there are two element 8s in Figure 2 in
17 the 336. One of them has been eliminated.

18 Q. What is element 8?

19 A. I've got to remember this exactly.

20 The engaging block.

21 Q. Okay. Is an engaging block claimed in Claim 1
22 of the 336 patent?

23 A. It's not claimed in Claim 1, but it is present
24 in the embodiment in Figure 2.

25 Q. Okay. It is present, but not claimed in Claim

1 1 of the 336 patent; correct?

2 A. It's present in Figure 2. It is not claimed
3 in Claim 1 of the --

4 It's not a limitation of Claim 1. It is
5 within the scope of Claim 1 because it appears in the
6 dependent claims.

7 Q. Yeah.

8 Does Claim 1 require an engagement block 8 as
9 shown in Figure 2?

10 A. It does not, but the Figure 1, Figure 2,
11 Figure 3 embodiments all show the same engaging block
12 and the different engaging block as shown in Figure 4
13 and Figure 5 of the embodiments.

14 Q. That's fine, but let's just --

15 You know, Dr. Wolfe, you do agree that Claim 1
16 does not require an engagement block --

17 I'm sorry.

18 Dr. Wolfe, you do agree that Claim 1 does not
19 require an engagement block 8 as shown in the figures;
20 correct?

21 A. Claim 1 does not require engagement blocking.

22 Q. Okay. So, assuming that we removed that
23 engaging block in Figure 2 of the 336 patent with no
24 other changes, the only change we do there is to
25 eliminate that engaging block, would you agree that the

1 embodiment is still captured within said scope of Claim
2 1?

3 A. It would still be within the scope of Claim 1,
4 but no such embodiment is disclosed in the spec.

5 Q. I understand that, but --

6 A. Okay.

7 Q. -- is it within the scope of Claim 1?
8 It is; right?

9 A. It would be within the scope of Claim 1, yes.

10 Q. Okay.

11 A. Again, depending on the interpretation of
12 Claim 1, whether or not the embodiments are within the
13 scope at all.

14 Q. And in Exhibit 2032 you observed that the
15 engagement block 8 is removed as compared to Figure 2 of
16 the 336 patent; right?

17 A. No.

18 Q. That seemed to be what you testified earlier,
19 so why not?

20 A. One of two engaging block 8s has been removed
21 as one of the three changes, but there's still an
22 engaging block 8 that's present.

23 Q. Oh, yes, yes.

24 Okay. I apologize.

25 So okay.

1 So one of the two engagement -- one of the two
2 engaging blocks 8 -- there are two of them, one of them
3 is removed in the embodiment as shown in 2032; correct?

4 A. Well, I don't know -- I don't want to call it
5 "an embodiment." I don't know what it is it's an
6 embodiment of.

7 In that drawing one of the engaging block 8s
8 has been removed.

9 Q. And, with that removal, it allows the cable
10 that is labeled --

11 Strike that.

12 With that removal of one of the two engaging
13 blocks in Figure 2 of the 336 patent in Exhibit 2032, a
14 plug labeled as 4 connected with a cable extending out
15 is allowed; would agree with that?

16 A. No.

17 Q. Why not?

18 A. Because that's not sufficient to create space
19 for the cable. Additional modifications were required
20 as well.

21 Q. What modification?

22 A. Groove 7 had to be enlarged in two different
23 directions.

24 Q. Okay. So, with that also in mind, with the
25 removal --

1 Okay. Strike that.

2 Dr. Wolfe, with the removal of one of the two
3 engaging blocks 8 and the enlargement of one of the
4 grooves 7 in Figure 2 of the 336 patent, would you agree
5 that the plug 4 extending with a cable in Exhibit 2032
6 is allowed?

7 A. It's possible.

8 We would need more detail to understand
9 whether or not it actually works.

10 Q. And, with that, if the illumination fan on the
11 left-hand side of the Exhibit 2032 is connected with the
12 -- another illumination fan on the right-hand side of
13 Exhibit 2032, you get -- a configuration that's shown on
14 the next page, which is page 3 of 3 of Exhibit 2032;
15 correct?

16 MS. QU: Objection to form.

17 THE WITNESS: It's possible.

18 Again, we don't have enough detail just from
19 these pictures to know for sure.

20 BY MR. CHEN:

21 Q. With respect to the claim limitations in Claim
22 1 of the 336 patent, would you agree that the
23 illumination fans shown in the figures of Exhibit 2023
24 are within the scope of Claim 1 of the 336 patent?

25 A. Exhibit 2023?

1 Q. I'm sorry. 2032, the one you were looking at.
2 Let me -- let me restate the question so that
3 the record is clear.

4 With respect to the claim limitations in Claim
5 1 of the 336 patent, Dr. Wolfe, would you agree that the
6 illumination fans shown in the figures of Exhibit 2032
7 are within the scope of Claim 1 of the 336 patent?

8 A. I can't make that determination without more
9 information. We're making a lot of assumptions.

10 Q. Yes.

11 You are an expert, which is why you're
12 answering questions with assumptions.

13 We are going to establish that the difference
14 between the illumination fans in Exhibit 2032 are
15 different from the embodiment shown in Figure 1 of the
16 336 patent in two respects.

17 One respect is that one of the two engaging
18 blocks 8 was removed. The other respect is that one of
19 the grooves 7 are enlarged to accommodate the plug 4 and
20 the cable.

21 Do you agree with that?

22 A. Well, also plug 4 has been added. 4 was only
23 a connector before.

24 If we assume that there's a connector 4 behind
25 plug 4 and we assume that there are no other differences

1 between what's described in the 336 patent, and the
2 figure in Exhibit 2032, other than the three visible
3 ones that I testified about before, and the plain
4 meaning of "side" is as I believe it should be, then I
5 think that that would then be within the scope of Claim
6 1.

7 But, again, none of this is disclosed in the
8 spec.

9 Q. I understand that.

10 But this is a configuration as presented in
11 Exhibit 2032 that you agree is within the scope of Claim
12 1 as it is right now for the 336 patent; correct?

13 MS. QU: Objection to form, asked and
14 answered.

15 THE WITNESS: Under all the other assumptions
16 I specified before, I think that's true.

17 MR. CHEN: Okay. So here's another --
18 premarked exhibit, which is Exhibit 2042.

19 (Exhibit Number 2042 marked for
20 Identification.)

21 BY MR. CHEN:

22 Q. Dr. Wolfe, what is Exhibit 2042?

23 A. I don't know.

24 Q. With your review of Exhibit 2032, and using
25 the understanding you just had by reviewing Exhibit

1 2032, what do you see in Exhibit 2042?

2 A. I don't know where this drawing came from, so
3 I don't really know its context.

4 There are some drawings similar to the ones
5 that are into page 2 of Exhibit 2032 and what may be a
6 rotated version of page 3.

7 The Chinese notations have been removed, and
8 certain aspects of this have been highlighted in olive
9 green and yellow, and someone has added four labels.

10 Q. Okay. So in Exhibit 2042 do you see the plug
11 4 extending with a cable colored in yellow?

12 A. I guess. I mean, this is what it appears to
13 be, you know.

14 You know, I can't really tell you much about a
15 drawing that's not in the patent that I don't have any
16 text to describe.

17 Q. Yeah.

18 We'll lay out a foundation before you look at
19 it, you identify the differences between the fans here
20 and the embodiment in Figure 1 of the 336 patent.

21 So -- so I'm presenting an annotated version
22 of the illumination fans in Exhibit 2032, and I'm asking
23 questions about them, because you're an expert, so
24 that's -- that's what I'm doing.

25 So, again, you have confirmed that you saw

1 plug 4 extending with a cable, it's colored in yellow in
2 Exhibit 2042; correct?

3 A. That's what it appears to be.

4 I don't know what kind of connections are on
5 that cable.

6 Q. But that cable with the label "plug 4" would
7 be plugging into the equivalent power socket 4 in the
8 embodiment shown in Figure 1 of the 336 patent; correct?

9 A. It appears to be, but, again, I don't know
10 whether or not there are conductors in there or whether
11 it's just a cover.

12 If there are conductors, I don't know how many
13 conductors.

14 Q. Let's assume it has conductors and they are
15 compatible with the power socket in Figure 1 in the 336
16 patent; okay?

17 A. Okay. For each and every one in connector 4?

18 Q. Yes.

19 A. Okay.

20 Q. Okay. And then in the annotated version of
21 Exhibit 2042 you do see that yellow cable is connected
22 with additional notation to show a power supply;
23 correct?

24 A. That's what's written.

25 Q. Okay. So let's assume the power supply is

1 supplying power to that yellow cable, and, hence, the
2 plug.

3 Would you agree that equipment lead power
4 socket 4 of Figure 1 of the 336 patent would be
5 receiving power from that yellow cable?

6 A. I think you've asked me to assume that.

7 Q. Well, I'm asking you to assume the yellow
8 cable is connected to a power supply, but -- and then
9 having all the compatible wires and connectors --
10 conductors inside. That's the assumption.

11 Okay. Dr. Wolfe, assuming the yellow cable
12 and plug 4 are plugged into power socket 4 that is
13 equivalent to the power socket in the 336 patent's
14 embodiment as shown in Figure 2, would you agree that
15 the equivalent power socket 4 in Figure 1 of the 336
16 patent would be receiving power if configured as shown
17 in Exhibit 2042?

18 MS. QU: Objection to form.

19 THE WITNESS: I don't have enough information.

20 BY MR. CHEN:

21 Q. On --

22 Well, I'm laying out a foundation for you.

23 So we just said that the -- we are assuming
24 the plug 4 colored in yellow in 2042 is compatible with
25 the power socket 4 in Figure 1 and Figure 2 of the 336

1 patent, and we're also assuming that the conductors in
2 the yellow wire are compatible with each and every
3 connector in power socket 4 in Figure 1 and Figure 2 of
4 the 336 patent, and we're further assuming that the
5 yellow cable is connected to a power supply that is
6 giving power to that yellow cable.

7 So, with all those assumptions, Dr. Wolfe,
8 would you agree that the illumination fan connected with
9 the yellow cable and plug labeled as "4" in Exhibit 2042
10 is receiving power?

11 MS. QU: Objection to form.

12 THE WITNESS: With each and every one of those
13 assumptions, that would be true.

14 BY MR. CHEN:

15 Q. Okay. So, given that the illumination fan
16 that is actually labeled yellow as first illumination
17 fan in Exhibit 2042 is already receiving power, now can
18 you agree that the illumination fan that is labeled in
19 blue as a second illumination fan can actually receive
20 power from the first illumination fan in Exhibit 2042?

21 MS. QU: Objection to form.

22 THE WITNESS: I guess it could, but it would
23 make very little sense, since the third fan could not
24 receive power.

25 BY MR. CHEN:

1 Q. You mean the third fan that is not labeled in
2 Exhibit 2042?

3 A. Well, it's labeled with a "1."

4 Q. Well, it is a body 1, but it is not labeled as
5 an illumination fan, as the first or second one. It's
6 not labeled that way.

7 Are you saying that fan cannot receive power?

8 A. Not based on the patent disclosures.

9 Q. Well, okay. Let's -- let's play this out.
10 So on the --

11 In the first illumination fan as labeled in
12 Exhibit 2042, do you agree that the power socket is
13 electrically connected with a second connector of the
14 first illumination fan?

15 A. I can't tell from the drawings.

16 Q. Well, assuming it has the same configurations
17 as in the illumination fan in the 336 patent.

18 A. Then, yes, there would --

19 Well, --

20 Can I hear the question again?

21 Q. Well, I guess I was kind of chasing the
22 comments you mentioned about the third fan, but,
23 actually, that's not, you know, really pertinent yet
24 right now.

25 So let's just go back to the two that are

1 labeled, the two illumination fans that are labeled, the
2 first illumination fan, the second illumination fan
3 labeled as yellow and blue power supplies connected to
4 the yellow cable that extends into the space between the
5 first and second illumination fans with the yellow plug
6 4 connected or plugged into power socket 4.

7 Let's just stick with that.

8 So in this embodiment -- or let's not call it
9 "embodiment."

10 In the --

11 Strike that.

12 Dr. Wolfe, in the illumination fans as shown
13 in Exhibit 2042, with all the assumptions we mentioned
14 in terms of a conductor compatibility and the way -- the
15 correct construction of the word "side," do you agree
16 that Claim 1 reads on the fans as shown in Exhibit 2042

17 MS. QU: Objection to form.

18 THE WITNESS: I don't know. I haven't done an
19 analysis of this particular configuration with respect
20 to Claim 1.

21 BY MR. CHEN:

22 Q. Well, you already testified that the ones
23 shown in the previous exhibit, Exhibit 2032, that Claim
24 1 does cover them.

25 The only difference here in Exhibit 2042 is

1 that the power supply is added to be connected to the
2 yellow cable, which we also have established.

3 So my question to you is that, based on your
4 earlier analysis of Exhibit 2032, agreeing that it is
5 actually within the scope of Claim 1, do you agree that
6 adding the power supply as shown in Exhibit 2042 does
7 not change the fact that Claim 1 reads on the devices in
8 Exhibit 2042?

9 MS. QU: Objection to form, asked and
10 answered, mischaracterizes prior testimony.

11 THE WITNESS: Again, I think if we apply all
12 the assumptions you asked me to apply and I apply all of
13 the claims scoped the way I've applied it with respect
14 to the prior art, then I think that that would fall
15 within the scope of Claim 1.

16 BY MR. CHEN:

17 Q. Okay. Given that, Dr. Wolfe, that with all
18 the assumptions we talked about and under their correct
19 constructions the illumination fans in Exhibit 2042 are
20 within the scope of Claim 1 of the 336 patent, do you
21 agree that the second illumination fan as shown in
22 Exhibit 2042 can receive power from the first
23 illumination fan as labeled in Exhibit 2042?

24 A. If I apply all the assumptions you asked me to
25 assume and I apply the plain meaning in the same way

1 I've applied it to the prior art, then the thing that
2 you have labeled as "second illumination fan" could
3 receive power from the first illumination fan.

4 Q. Now let's talk about the third illumination
5 fans that are not labeled as an illumination fan as
6 either first or second illumination fans.

7 The third fan that is not covered --
8 Sorry.

9 The third fan that is not colored in the row
10 of three fans, that is the lower part of Exhibit 2042 --
11 Can we do that?

12 A. The question is with respect to the uncolored?

13 Q. Yeah, uncolored fan.

14 A. What's the question about it?

15 Q. Well, I'm laying a foundation --

16 A. Oh.

17 Q. -- only.

18 I'm just saying that you mentioned that there
19 is a third fan there; right?

20 A. There is.

21 Q. There is a third fan. Okay.

22 So assuming that fan has the same
23 configuration as the first illumination fan labeled as
24 yellow, that third fan, would you agree that we can also
25 connect the yellow cable to the power socket of that

1 third illumination fan in Exhibit 2042?

2 MS. QU: Objection to form.

3 THE WITNESS: Instead of where it's connected
4 in the drawings?

5 MR. CHEN: Correct.

6 THE WITNESS: Presumably you could.

7 BY MR. CHEN:

8 Q. Okay. So --

9 And then, in that case, can the third
10 illumination fan shown there supply power to the first
11 illumination fan?

12 A. Under all of the assumptions that I gave in my
13 previous answer, it could.

14 MR. CHEN: Let me introduce another Exhibit
15 labeled 2035.

16 (Exhibit Number 2035 marked for
17 Identification.)

18 BY MR. CHEN:

19 Q. So for the purpose of a clear identification,
20 Dr. Wolfe, can you please draw on Exhibit 2042 an arrow
21 with a label preceding the illumination fan like what's
22 shown in Exhibit 2035, but do that --

23 A. I don't even understand what we're talking
24 about here.

25 This isn't related to my opinions, and those

1 aren't claim terms, and, you know, I don't have an
2 opinion about preceding illumination fans.

3 Q. Yeah, that's fine, but that's just a label
4 because we use that "first," and "second," and then that
5 one is preceding the first, so --

6 A. Well, I don't want to alter something that
7 I've already testified about.

8 Q. Okay. That's fine. That's fair.

9 Okay. So then let's just look at Exhibit
10 2035.

11 Do you see that it similarly has a row of
12 three fans and similar to the row of three fans in
13 Exhibit 2042, having a third fan that is actually
14 labeled as "preceding illumination fan" in Exhibit 2035?

15 A. Well, there are lots of other differences in
16 the drawings.

17 Q. Yeah.

18 I'm just asking for like the relative position
19 of the third fan as shown in Exhibit 2042, the bottom
20 row of the three fans, the third fan that is not labeled
21 either "first illumination fan" or "second illumination
22 fan."

23 The question is, the third fan is in the
24 relative same position as the preceding illumination fan
25 as labeled in Exhibit 2035; correct?

1 MS. QU: Objection to form.

2 THE WITNESS: I'm still not sure I understand
3 the question.

4 Each drawing has three fans. The drawings are
5 of different fans, and each one has a left one, a right
6 one and a middle one.

7 BY MR. CHEN:

8 Q. Yes.

9 So I'm talking about the left one.

10 So in the bottom row of three fans, in Exhibit
11 2042, the left fan, unlabeled, is in the relatively same
12 position as the white fan in Exhibit 2035 labeled as
13 "preceding illumination fan;" correct?

14 A. To the extent that being the leftmost of three
15 fans is in the same position, they are.

16 Q. Yes. Okay.

17 So Exhibit 2035 is actually an annotated
18 version of Figure 3 of the 336 patent -- rotated;
19 correct?

20 A. If you count all the added materials
21 "annotations," that would be true.

22 Q. Okay. So assuming the preceding illumination
23 fan is already receiving power already, and under all
24 the prior claim construction that you view as correct,
25 do you agree that in Exhibit 2035 the preceding

1 illumination fan's connector can supply power to the
2 first illumination fan's second connector as shown in
3 Exhibit 2035?

4 MS. QU: Objection to form.

5 THE WITNESS: It's not a reasonable assumption
6 because the preceding illumination fan can't receive
7 power in this configuration based on the disclosure of
8 the specification of the 336 patent.

9 BY MR. CHEN:

10 Q. So let's go to paragraph 89 of your Reply
11 Declaration, which is Exhibit 1031.

12 So paragraph 89, I'm reading it, "To the
13 extent that the amended claim does not allow for
14 including power connections on the first and second
15 connectors, this is not supported in the
16 specifications."

17 Do you see your testimony there as read by me?

18 A. Yeah.

19 And we agree that this is testimony about a
20 claim that's been withdrawn and no longer in the case?

21 Q. I'm talking about the configuration.

22 So you're saying that if we want to
23 actually --

24 You know, I'm paraphrasing it, but I want to
25 make sure that I understand that sentence.

1 You're saying that the 336 specification does
2 not exclude the possibility of first and second
3 connectors having power connections; right?

4 MS. QU: Objection. Outside the scope of this
5 deposition.

6 You are asking questions about some amended
7 claims that Lian Li has withdrawn from this case.

8 MR. CHEN: What?

9 This is --

10 This is -- this part, that's in the Reply
11 Declaration, so I'm asking questions about --

12 I'm asking Dr. Wolfe to clarify that sentence
13 in paragraph 89.

14 BY MR. CHEN:

15 Q. It says "To the extent that the amended claim
16 does not allow for including power connections on the
17 first and second connectors, this is not supported in
18 the specifications."

19 The implication of that seems to be that the
20 specification does not exclude the possibility that the
21 first and second connectors include power connections.

22 MS. QU: Objection. Argumentative, and it's
23 outside the focus of this deposition.

24 BY MR. CHEN:

25 Q. Is that -- is that your position?

1 MS. QU: Sorry. I have to finish my
2 objection.

3 MR. CHEN: Okay.

4 MS. QU: This is outside the scope of this
5 deposition. This is not amended claims, and Lian Li has
6 already withdrawn this from this case.

7 THE WITNESS: So paragraph --

8 MR. CHEN: Amended claims that's already
9 withdrawn from this case?
10 What do you mean?

11 MS. QU: Well, Lian Li has represented to the
12 Board that he will be filing a revised motion to amend
13 and not based on the Amended Claims 6 and 7 in your
14 prior motion to amend, so you have withdrawn the amended
15 Claims 6 and 7 from the scope of this case.

16 MR. CHEN: No, we haven't. We're going to
17 file a revised motion to amend.

18 MS. QU: Yes, exactly, you're going to file a
19 revised motion to amend with newly amended claims that
20 we haven't seen yet.

21 MR. CHEN: You can take up with the Board on
22 excluding this portion. I'm asking my questions.

23 BY MR. CHEN:

24 Q. So, Dr. Wolfe, I just want to understand your
25 position, your testimony, in paragraph 89, the first

1 sentence, and let's assume -- let's assume, I mean, for
2 the sake of overcoming the objection -- let's assume we
3 are actually still talking about the same Claim 6 as a
4 substitute.

5 Do you agree that the 336 specification does
6 not exclude power connections on the first and second
7 connectors?

8 MS. QU: Objection to form.

9 THE WITNESS: The 336 specification does not
10 exclude having power connections on the first and second
11 connectors.

12 MR. CHEN: Thank you.

13 Here's a prelabeled Exhibit 2036.

14 (Exhibit Number 2036 marked for
15 Identification.)

16 BY MR. CHEN:

17 Q. So, Dr. Wolfe --

18 MS. QU: Can I have the exhibit?

19 MR. CHEN: I just gave it.

20 MS. QU: Oh. Sorry. Thank you.

21 BY MR. CHEN:

22 Q. Dr. Wolfe, what do you see in Exhibit 2036?

23 A. I don't know.

24 Q. Would you agree it's an annotated version of
25 Figure 1 of the 336 patent that in this particular

1 exhibit the fan is labeled as "preceding illumination
2 fan"?

3 A. To the extent that all the added matter is
4 considered to be an annotation, that would be okay.

5 Q. Okay. So do you see the second connector 6 in
6 this annotated version of Figure 1 of the 336 patent?

7 A. Yes.

8 Q. And given your testimony that the 336 patent
9 does not exclude the first and second connectors from
10 having power connections, do you agree that the added
11 power supply connected to the second connector in
12 Exhibit 2036 is allowed?

13 A. What do you mean, "allowed"?

14 Q. Is not excluded.

15 Okay. Let me actually rephrase that.

16 A. Not excluded from Claim 1?

17 Q. Not excluded from the 336 patent.

18 A. I don't know what it means to "be excluded
19 from a patent."

20 Q. Not excluded from the scope of the 336
21 disclosure.

22 A. I don't know what you mean by "excluded from
23 the scope of a disclosure."

24 I know what it means to "be excluded in the
25 scope of the claim."

1 Q. Okay. So, again, in --
2 Let's see.

3 So earlier you testified that the 336
4 specification does not exclude having power connections
5 on the first and second connectors.

6 Do you recall that?

7 A. Correct, it does not explicitly say in the
8 specification that you cannot have power connections on
9 the first and second connector.

10 Q. So, with that, do you agree that the
11 configuration as shown in Exhibit 2036 with a power
12 supply connected to the second connector of the labeled
13 preceding illumination fan is not excluded?

14 A. Certainly not disclosed, and it's not
15 compatible with the disclosed embodiments, but I guess
16 somebody could build this thing.

17 Q. Does the 336 patent disclose that the power
18 socket can be connected to a power supply?

19 A. Not explicitly, but it does disclose that
20 power socket 4 can be supplied with power.

21 Q. Does the 336 patent require the power socket
22 be supplied with power directly from the power supply?

23 A. That would be the reasonable understanding of
24 a POSITO of the disclosure. There's no other way of
25 receiving power that is discussed, and there's no other

1 reason to have a power socket 4 be part of the
2 disclosure.

3 I think that a person --

4 Oh, I'm sorry.

5 I was wrong before. It literally does say
6 that it can be supplied with power by connecting the
7 power socket to a power supply.

8 Q. Yes. Can you --

9 A. And, in fact, says -- describes that as part
10 of the motivation for the invention.

11 Q. Where is that?

12 A. That is in column 3, lines 29 through 39.

13 Q. Okay. So can you please read that sentence
14 again.

15 A. "As a result, once assembled two fans that
16 could be independently used can be joined together, and
17 power can be supplied by connecting the power socket of
18 one of the bodies with a power supply of a computer to
19 simultaneously drive the fans of the two bodies into
20 rotation and the illumination areas into illumination.
21 This solves the issue of insufficient power cables
22 provided by the power supply and eliminates cumbersome
23 routing due to a large number of wires. With the
24 combinational design of the present invention the
25 efficiency of heat dissipation at any location in the

1 computer can be greatly improved."

2 Q. Where does it require the power socket be
3 directly connected to the power supply?

4 A. The disclosure of this spec is very limited.
5 It talks about power cables being reduced, and
6 the power cables are the power cables provided by the
7 power supply.

8 That --

9 Q. Do you see the word "direct" or "directly"
10 there?

11 MS. QU: The witness hasn't finished his
12 answer.

13 MR. CHEN: Oh, I apologize. I apologize.

14 THE WITNESS: I think the only reasonable
15 understanding of this disclosure to a person of ordinary
16 skill of what is actually disclosed is that the power
17 cable from the power supply is plugged into the power
18 socket.

19 Anything else is -- is not disclosed and would
20 have to be filled in by an expert as an -- as an
21 alternative embodiment that is not actually in the spec.

22 BY MR. CHEN:

23 Q. Well, okay. That is fine.

24 But, Dr. Wolfe, do you see a requirement
25 anywhere in the spec or in the claims that requires the

1 power socket be connected to the power supply directly?

2 A. I think it's the only reasonable understanding
3 of the disclosure.

4 The disclosure talks about taking a cable from
5 the power supply and connecting it to the power socket.

6 If it were supposed to be done --

7 If the spec was trying to suggest some
8 indirect method or some other way of having the
9 connectors, it needed to disclose it. A person couldn't
10 just guess at those things.

11 And, if in fact, the power socket were not
12 there to be connected to the power supply cable, it has
13 no purpose.

14 There's only a single embodiment that's very
15 simply described here with respect to power, and -- it
16 involves having the power socket directly connected to
17 the power supply.

18 Q. Is it your position, Dr. Wolfe, that the
19 embodiment in the 336 patent limits the scope of the
20 claim as only the configurations shown in the
21 embodiment?

22 A. No, but it does inform the understanding in
23 the claim language, and the claim itself says that the
24 power socket on one side of the body is supplied with
25 power, and in the context of the embodiments and the

1 context of the text, that would mean that the power is
2 injected into the fan through the power socket.

3 Q. Does it say that the power socket is directly
4 connected to any power supply in Claim 1 of the 336
5 patent?

6 A. It's the natural understanding of the claim,
7 otherwise that's a useless limitation.

8 If the power socket is not the thing that's
9 connected to the power supply for inputting power, it
10 has no function in the claim.

11 If that were not true, I could cross out every
12 reference to the power socket in the claim and the claim
13 would have the same scope and meaning.

14 And it's generally a rule that one does not
15 interpret claim language to read limitations out of the
16 claim.

17 Q. Does the specification of the 336 patent
18 require that the claim power socket be connected to a
19 power supply directly?

20 A. I think a person of ordinary skill in the art
21 would understand that that is the only connection of
22 power that is disclosed in the spec.

23 Q. Do you see the word "directly" anywhere in the
24 336 patent regarding that connection between the power
25 supply and the power socket?

1 A. I do not.

2 Q. Maybe you can help me a little bit.

3 I do remember you said something about --

4 Give me one second. Let me just find it.

5 Give me one second.

6 MS. QU: We can have a break and find it

7 during the break. It's over an hour on record.

8 MR. CHEN: Oh, we have --

9 What time is it?

10 Let's do --

11 Let's take a break at 6:00.

12 Give me just one second. I know I have it.

13 BY MR. CHEN:

14 Q. Dr. Wolfe, it is your position that the
15 illumination fan in Claim 1 has the same configurations
16 as the -- another illumination fan in Claim 1 of the 336
17 patent?

18 A. Not necessarily.

19 Q. In the embodiment shown in Figures 2 and 3 is
20 it your understanding that the individual illumination
21 fans are identical to each other in their
22 configurations?

23 A. The same identifying numbers are used.

24 Generally in a patent drawing when the same
25 identifying number is used more than once it's referring

1 to the same thing.

2 Q. So in Figure 3 of the 336 patent do you see a
3 power socket --

4 Strike that.

5 MR. CHEN: Let me see.

6 Okay. Yeah, let's take a -- take a 10-minute
7 break.

8 (Thereupon a recess was taken at 5:56 p.m.
9 and the deposition resumed at 6:07 p.m.)

10 BY MR. CHEN:

11 Q. So, Dr. Wolfe, coming back to Exhibit 2036 --
12 so earlier you testified that the 336 specification does
13 not exclude having power connections on the first and
14 second connectors.

15 Do you recall that?

16 A. Yes, power connections, which is different
17 than connections to the power supply.

18 Q. Can power connections on the first and second
19 connectors be connected to a power supply?

20 A. That's not disclosed in the 336 spec, and it
21 would be somewhat inconsistent with the disclosure.

22 Q. Does the 336 --

23 Strike that.

24 Does the 336 --

25 Strike that.

1 Dr. Wolfe, does the 336 specification exclude
2 having power connections in the first and second
3 connectors connected to a power supply?

4 MS. QU: Objection to form.

5 THE WITNESS: It doesn't disclose that. It
6 discloses having the power supply connected to the power
7 socket.

8 A person of ordinary skill in the art would
9 not want to connect the second power supply without
10 having more information that's not disclosed, and a
11 person of ordinary skill would not understand any
12 disclosure in the 336 patent to suggest in any way that
13 the power supply should be directly connected to
14 anything other than power socket 4.

15 BY MR. CHEN:

16 Q. That is not my question. I'm not asking you
17 if it is disclosed.

18 I'm asking you -- starting a new question.

19 Dr. Wolfe, does the 336 specification exclude
20 having power connections in the first and second
21 connectors connected to a power supply?

22 A. A person of ordinary skill would find that to
23 be inconsistent with the disclosure of the 336 patent.

24 Q. That is not my question.

25 You have to answer my question.

1 This is a "yes" or "no" question.

2 Dr. Wolfe, does the 336 specification exclude
3 having power connections in the first and second
4 connectors connected to a power supply?

5 A. What do you mean by "exclude"?

6 Q. It means that it is disclaimed, it cannot
7 happen.

8 So let me ask you the question again.

9 Dr. Wolfe, does the 336 specification exclude
10 having power connections in the first and second
11 connectors connected to a power supply?

12 A. I think it informs a person of ordinary skill
13 in the art that that's not how the device works.

14 Q. That is not the question.

15 I'm asking you whether it is excluded, meaning
16 that it cannot happen.

17 Dr. Wolfe, when a person is skilled in the art
18 of reading the 336 patent, would the person understand
19 the 336 specification to exclude having power
20 connections in the first and second connectors connected
21 to a power supply?

22 MS. QU: Objection to form.

23 The witness is entitled to answer in his own
24 way to clarify.

25 MR. CHEN: No, the witness is not. That's

1 nonresponsive.

2 MS. QU: It is responsive.

3 MR. CHEN: The witness needs to answer my
4 question, which is a yes/no question about exclusion,
5 not disclosure.

6 MS. QU: This calls for more than a "yes" or
7 "no" answer, and the witness should be allowed to
8 clarify.

9 THE WITNESS: Given my understanding of what
10 you mean by "exclude," which would mean that -- which
11 would include that a person of ordinary skill reading
12 this spec would understand that it's inconsistent with
13 what's being taught, I think the answer is yes.

14 BY MR. CHEN:

15 Q. Where does the spec of the 336 specification
16 exclude having power connections in the first and second
17 connectors coming to a power supply?

18 A. It does not teach that that's the purpose of
19 the first and second connector. It does teach a power
20 socket 4, the person of ordinary skill would understand,
21 does have the purpose of being connected to the power
22 supply directly, and a person of ordinary skill would
23 understand that in a simple design like this without
24 further guidance only a single connection to the power
25 supply would be appropriate.

1 Q. Can that single power connection to the power
2 connections in the first or second connectors? (sic.)

3 A. That would be inconsistent with the teachings
4 of the 336 patent.

5 Q. How is that inconsistent?

6 A. I just told you.

7 There's no description of the power supply
8 being -- being provided directly to the fan through the
9 first or second connector.

10 There is a disclosure of it being provided to
11 the power socket, and a person of ordinary skill in the
12 art would understand that, given these teachings and
13 without further guidance, it would be inappropriate to
14 connect two power supplies to this fan.

15 Q. Well, I'm not asking you to have two power
16 supplies connected to the fan.

17 I'm asking you --

18 Starting a new the question.

19 Okay. Dr. Wolfe, does the 336 patent
20 specification when read by a person skilled in the art
21 exclude the power connections in the first or second
22 connector from connected --

23 Strike that.

24 Okay. Can we start a new question, please.

25 Dr. Wolfe, does the 336 patent specification

1 when read by a person skilled in the art exclude the
2 power connections in the first or second connector from
3 connecting to a power supply?

4 A. The teachings of the 336 patent when read by a
5 person of ordinary skill in the art are inconsistent
6 with directly connecting the first or second connector
7 to the power supply.

8 Q. Okay. Let's note that inconsistency as you
9 view it.

10 My question is not whether it is inconsistent.
11 My question is whether it is excluded. The word is
12 "exclusion."

13 So let me start the question again.

14 Dr. Wolfe, does the 336 patent specification
15 when read by a person skilled in the art exclude the
16 power connections in the first or second connector from
17 connecting to a power supply

18 A. I've answered that question the best I can.

19 MS. QU: Objection to form, asked and
20 answered, argumentative.

21 BY MR. CHEN:

22 Q. Dr. Wolfe, did you testify today in this
23 deposition that the power connections in the first or
24 second connector are excluded from connecting to a power
25 supply under the 336 patent?

1 A. I testified that that would be inconsistent
2 with the teachings of the 336 patent. To me that means
3 they're excluded, they are not present in the
4 specification.

5 Q. Dr. Wolfe, is it your position that, if
6 something is not disclosed, that --

7 Sorry. Strike that.

8 Dr. Wolfe, is it your position that, if
9 something is not disclosed in the 336 patent
10 specification, it is excluded?

11 MS. QU: Objection to form.

12 THE WITNESS: It is my opinion that, if
13 something is inconsistent with the teachings of the 336
14 patent, then, as I interpret the word "excluded," then
15 it is excluded.

16 If you want me to interpret the word
17 "excluded" differently, you need to explain.

18 BY MR. CHEN:

19 Q. What is your definition of "exclusion"?

20 A. Without giving any legal opinions?

21 It is something that is not within the
22 teachings of the patent and that a person of ordinary
23 skill in the art would understand not to be within the
24 scope of what's taught by the patent.

25 Q. Okay. So that is not the word -- how the word

1 that I'm asking the question about.

2 I will define the word for you.

3 "Exclude" means that it is not possible, it
4 cannot happen under the scope of the 336 specification
5 in the sense that the spec says this cannot happen.

6 A. There is nothing in the specification that
7 says it is impossible to provide power to the first and
8 the second connector.

9 However, as I've said several times before, a
10 person of ordinary skill would find it to be
11 inconsistent with the teachings of the specification.

12 Q. So, Dr. Wolfe, you will agree that it is
13 possible to provide power to the first and second
14 connector with a power supply; correct?

15 A. It's not consistent with what's taught in the
16 specification.

17 It is possible to have such a device, but
18 that's not what's in the 336 patent.

19 Q. Okay. Just so that we have like clean answers
20 let's just start with a new question.

21 Dr. Wolfe, with your objection regarding
22 inconsistency noted, would you agree that it is possible
23 to connect a power supply to the first or the second
24 connector of an illumination fan in the 336 patent?

25 MS. QU: Objection to form, asked and

1 answered.

2 THE WITNESS: Not a fan that's taught in the
3 336 patent.

4 Outside the 336 patent it would be possible to
5 connect it, but there's -- but it's not within the
6 teachings of the 336 patent.

7 BY MR. CHEN:

8 Q. Dr. Wolfe, would you agree that it is not
9 impossible to connect a power supply to the first or
10 second connector of any illumination fan in the 336
11 patent?

12 A. It is not impossible, but it might be
13 dangerous.

14 Q. Okay. You gave like two answers to one single
15 question, so I'm just going to break it down in two
16 portions.

17 So you first said it is not impossible, then
18 you say it's dangerous, so I'm going to give you an
19 opportunity to explain why.

20 So the first part of the question is --

21 Let's please start anew.

22 Dr. Wolfe, would you agree that it is not
23 impossible to connect a power supply to the first or
24 second connector of an illumination fan in the 336
25 patent?

1 MS. QU: Objection to form, asked and
2 answered.

3 THE WITNESS: If you ignore all the
4 consequences, it is not impossible.

5 BY MR. CHEN:

6 Q. Why is it --

7 Strike that.

8 Why might it be dangerous to connect a power
9 supply to a first or second connector in the 336 patent?

10 A. Because the 336 patent instructs you to
11 connect a power supply to power socket 4, and connecting
12 a second power supply without far more guidance than is
13 provided here would potentially be dangerous.

14 Q. Okay. If we assume that the power socket is
15 not directly connected to a power supply, then would it
16 be dangerous to connect the power supply to the first or
17 second connector?

18 MS. QU: Objection to form.

19 THE WITNESS: We don't know. There's not
20 enough information provided in the spec.

21 BY MR. CHEN:

22 Q. But do you know there will be a danger?

23 A. No. The spec is very sparse, so there is much
24 that is not taught there. There is only a single
25 embodiment that is taught, and we would have to

1 speculate what happens if you go beyond what's not in
2 the spec.

3 Q. So let's go back to the Exhibit 2036.

4 A. Okay.

5 Q. Assuming power socket 4 of the fan --
6 Strike that.

7 Dr. Wolfe, let's go back to Exhibit 2036.

8 In Exhibit 2036, if we assume power socket 4
9 is not directly connected with a power supply in the
10 preceding illumination fan as labeled, would it be
11 impossible under the 336 patent to connect the power
12 supply to the second connector of the preceding
13 illumination fan as labeled in Exhibit 2036?

14 MS. QU: Objection to form.

15 THE WITNESS: Very few things are impossible.

16 You could certainly make the connection, but
17 there's not enough teachings in the 336 to tell you
18 whether or not it would work.

19 BY MR. CHEN:

20 Q. Given that, Dr. Wolfe, would you agree that
21 the 336 patent does not exclude the configuration of a
22 power supply connecting to the second connector of the
23 preceding illumination fan as labeled in Exhibit 2036?

24 MS. QU: Objection to form.

25 THE WITNESS: To the extent that "not

1 impossible" means that it includes nonworking and
2 nondisclosed embodiments, then I think that's right, it
3 would not be impossible.

4 BY MR. CHEN:

5 Q. If we assume that power socket 4 of the
6 preceding illumination fan in Exhibit 2036 is not
7 directly connected to a power supply, would it not work
8 if the power supply is connected to the second connector
9 of the preceding illumination fan as illustrated in
10 Exhibit 2036?

11 MS. QU: Objection to form.

12 THE WITNESS: There is insufficient disclosure
13 in the specification to tell us whether it would work or
14 not.

15 BY MR. CHEN:

16 Q. Do you see a reason why it would not work?

17 A. Yes.

18 Q. What is your reason?

19 A. The specification only teaches us that they
20 are electrically connected. It doesn't tell us that
21 they are directly wired to each other. This is with
22 respect to connectors 4, 5 and 6.

23 And it tells us one way in which they can
24 function, but it doesn't tell us anything about what
25 happens if you connect power to a different connector.

1 Q. Well, again, I'm asking you about exclusion.
2 Does the 336 patent exclude a configuration
3 for the preceding illumination fan with the power supply
4 connected to the second connector as shown in Exhibit
5 2036?

6 A. So --

7 MS. QU: Objection to form.

8 THE WITNESS: I mean, I don't know how long
9 we're going to keep doing these questions.

10 I've given you -- I've given you opinions in
11 my Declaration on obviousness and on enablement and
12 written description. Exclusion is not a factor in any
13 of those.

14 So I haven't done an analysis of everything
15 that's excluded from the patent. In fact, I don't know
16 how that would affect my opinions at all.

17 The patent teaches what it teaches, and the
18 things that it doesn't teach are not in the patent.

19 People don't write patents with a list of a
20 million things that are not in the patent.

21 BY MR. CHEN:

22 Q. Well, that's right, so that's why I'm asking
23 if it is excluded.

24 A. And --

25 Q. And we're going to be here all night.

1 A. I guess.

2 Exclusion is not in any of the standards that
3 I gave you that I applied in any of my Declarations.

4 Q. That is not true, because in paragraph 89 and
5 90 you did say that, you did say it's not excluded.

6 So --

7 A. No.

8 Q. -- I don't know what you're talking about.

9 A. I responded to a suggestion from Dr. Tuckerman
10 that it was excluded and said I disagreed.

11 Q. Yeah, so that means that you don't think it's
12 excluded; right?

13 MS. QU: Objection. Argumentative.

14 THE WITNESS: All I said in paragraph 89 is to
15 the extent that he contends that some -- that including
16 power connections on the first and second connectors are
17 excluded from the claim, that's not supported in the
18 specification.

19 I think that's clear.

20 BY MR. CHEN:

21 Q. So you don't think they're excluded?

22 MS. QU: Objection. Mischaracterizes prior
23 testimony.

24 THE WITNESS: With respect to Claim 6 I don't
25 think the exclusion of power connections, which is

1 different than a direct connection to the power supply,
2 are excluded from the first and second connectors.

3 BY MR. CHEN:

4 Q. Yes, so then you're talking about the concept
5 of exclusion, so I'm asking you to use that concept and
6 apply it to the power connections in the first and
7 second connectors connected to the power supply.

8 So it's very clear that you understand what
9 "exclusion" means.

10 Let me ask you again.

11 Dr. Wolfe, does the 336 patent exclude the
12 first and second connectors power connections from being
13 connected to a power supply?

14 A. Directly connected to the computer power
15 supply?

16 Q. I didn't say "direct." I'm saying just
17 connected to a power supply.

18 So, since you interjected with a statement,
19 let me ask the question again.

20 Dr. Wolfe, does the 336 patent exclude the
21 first and second connectors of the illumination fan from
22 being connected to a power supply

23 MS. QU: Objection to form.

24 THE WITNESS: They can be connected to a power
25 supply through other fans where they connect to power

1 socket 4 on another fan. That's -- that's disclosed.

2 That's disclosed in the patent starting on
3 line 67 of column 2, and ending on line 3 of column 3.

4 BY MR. CHEN:

5 Q. Column 2, line 67.

6 Let's see.

7 Okay. So, given that disclosure, Dr. Wolfe,
8 does the 336 patent exclude the first and second
9 connectors' power connections of the illumination fan
10 from being connected to a power supply?

11 MS. QU: Objection to form.

12 THE WITNESS: The 336 patent does disclose
13 connecting connectors 5 and 6 through power socket 4 to
14 a power supply.

15 BY MR. CHEN:

16 Q. Well, again, it's not, you know -- whether --

17 I'm not asking you whether two connectors are
18 connected to a power supply through power socket 4.

19 That is not the question.

20 The question is again, as follows. Please be
21 responsive.

22 Dr. Wolfe, --

23 MS. QU: Dr. Wolfe has been responsive the
24 whole time. Please stop mischaracterizing his
25 testimony.

1 MR. CHEN: Okay. I'm going to ignore that, so
2 start anew.

3 BY MR. CHEN:

4 Q. Dr. Wolfe, does the 336 patent exclude the
5 first and second connectors' power connections of the
6 illumination fan from being connected to a power supply?

7 MS. QU: Objection to form, asked and
8 answered.

9 THE WITNESS: The 336 patent discloses
10 connecting connectors 5 and 6 through power socket 4 to
11 a power supply.

12 So the answer is no -- if I understand the
13 question.

14 BY MR. CHEN:

15 Q. Dr. Wolfe, does the 336 patent exclude the
16 first and second connectors of an illumination fan from
17 being connected to a power supply?

18 MS. QU: Objection to form. Asked and
19 answered.

20 THE WITNESS: Same answer.

21 BY MR. CHEN:

22 Q. Which is "no;" correct?

23 A. Well, it was more detailed than that.

24 The disclosure is that it is not excluded
25 because there is a single way in which it is disclosed,

1 and that single way is when connector 5 is connected
2 through socket 4 or a connector 6 is connected through
3 connector 5 and connector 4 to a power supply.

4 Q. Where does this specification say that is the
5 only way for the connection, excluding other ways of
6 connection?

7 MS. QU: Objection to form.

8 THE WITNESS: That's the only disclosed way,
9 and a person of ordinary skill in the art reading column
10 3 would understand that that's the only disclosed way.

11 It says things such as "once the power socket
12 4 is supplied with power." A person of ordinary skill
13 would understand that as meaning that the power comes
14 into socket 4. They would not speculate that somehow
15 the power is coming in through connector 6 and then
16 going around the back and coming back out of 4.

17 That just is not a natural way to read the
18 language in the specification.

19 BY MR. CHEN:

20 Q. That is not the question.

21 I'm not asking you if it is natural or if in
22 your opinion a person skilled in the art would actually
23 do it that way.

24 I'm asking you if that is excluded.

25 So, again --

1 MS. QU: Objection. You're mischaracterizing
2 his testimony.

3 BY MR. CHEN:

4 Q. Dr. Wolfe, does the 336 patent exclude the
5 first and the second connectors of an illumination fan
6 from connecting to a power supply?

7 MS. QU: Objection to form, asked and
8 answered.

9 THE WITNESS: Again, I'm not sure --
10 I really think I've answered that question
11 many times.

12 If by "exclude" you're limiting it to an
13 explicit statement that says it's impossible without
14 relying on how a person of ordinary skill in the art
15 would read the rest of the specification, I don't see
16 that.

17 BY MR. CHEN:

18 Q. I do mean when I say "exclude" it is
19 impossible, so let me ask the question again.

20 Dr. Wolfe, does the 336 patent exclude the
21 first and second connectors of an illumination fan from
22 connecting to a power supply?

23 MS. QU: Objection to form, asked and
24 answered.

25 THE WITNESS: As I said, there is a disclosure

1 of them connecting to a power supply through power
2 socket 4. There is no disclosure of them connecting
3 directly to a power supply.

4 A person of ordinary skill would understand
5 that connecting connectors 5 or 6 directly with a power
6 supply is inconsistent with the teachings of the
7 specification, but they would not find a single implicit
8 statement saying that it's impossible.

9 BY MR. CHEN:

10 Q. Under the 336 patent is it possible to connect
11 a power socket indirectly to a power supply?

12 MS. QU: Objection to form.

13 THE WITNESS: It would be inconsistent with
14 the teachings, but it would be possible.

15 BY MR. CHEN:

16 Q. So in the --

17 Strike that.

18 In Exhibit 2036 would you consider the power
19 socket 4 indirectly connected to the power supply as
20 illustrated?

21 A. Assuming that Exhibit 2036 is not taught by
22 the specification at all, and assuming that a power
23 supply was connected to connector 6, then connector 4,
24 power socket 4, would be indirectly connected to the
25 power supply 6.

1 Q. With all those assumptions, including that the
2 particular configuration in Exhibit 2036 is taught in
3 the 336 patent, and also assuming that the power supply
4 is connected to connector 6 in Exhibit 2036, Dr. Wolfe,
5 do you agree that the power socket 4 of the preceding
6 illumination fan in Exhibit 2036 is supplied with power?

7 MS. QU: Objection to form, improper
8 hypothetical.

9 THE WITNESS: This configuration in 2036 is
10 not taught in the 336 patent, so I don't know what it
11 means to assume that it is.

12 BY MR. CHEN:

13 Q. Okay. So I might have misspoken.

14 Assuming it is not taught there, and I'm not
15 assuming this is taught anywhere, just looking at the
16 particular configuration as shown in Exhibit 2036,
17 Dr. Wolfe, do you agree that the power socket 4 of the
18 preceding illumination fan as labeled in Exhibit 2036 is
19 supplied with power?

20 MS. QU: Objection to form, incomplete
21 hypothetical.

22 THE WITNESS: That would depend on context.
23 It's supplied with power by what?

24 Normally, if I were to see this description
25 and see a power socket and read that it was supplied

1 with power, I would assume that that was describing
2 having power from something external supplying to the
3 power socket -- in this context.

4 This power socket appears, like the power
5 sockets in the 336 patent, to be a powered input, and
6 not a powered output.

7 BY MR. CHEN:

8 Q. Does it require power socket 4 to be a power
9 input as opposed to a power output in the 336 patent?

10 A. That's the only thing that's supported by the
11 specification.

12 Q. But where does it require that?

13 A. It's the only thing that's described. That's
14 the only thing that's consistent with the description of
15 the invention.

16 Q. Are you saying that anything that is not
17 described is excluded simply because it is not described
18 in the 336 patent?

19 MS. QU: Objection to form.

20 THE WITNESS: I haven't said that it --
21 anything was excluded, but clearly you can't claim
22 things that aren't disclosed in the patent.

23 BY MR. CHEN:

24 Q. Well, we're not claiming it. I'm asking
25 whether it is excluded.

1 A. Well, and I really would like to understand
2 why, because all of my testimony is about the claims.

3 MR. CHEN: Well, you --

4 Okay. So, Dr. Wolfe, with no disrespect, I'm
5 taking the deposition, you're not deposing me, so I'm
6 asking the questions.

7 MS. QU: He's been trying to help you here,
8 but you've been just, you know, repeating the same
9 questions again and again.

10 He's been trying to be -- like clarify his
11 answers again and again and trying to be helpful here,
12 so --

13 MR. CHEN: I understand that, but in my view
14 he hasn't answered my questions.

15 MS. QU: Well, if you're not satisfied with
16 what he's answered, that's your problem, but he's
17 answering the questions.

18 MR. CHEN: No, I don't think so.

19 BY MR. CHEN:

20 Q. Dr. Wolfe, does the 336 patent exclude the
21 second connector of the preceding illumination fan as
22 labeled in Exhibit 2036 from connecting to a power
23 supply?

24 MS. QU: Objection to form.

25 THE WITNESS: If by "exclude" you only mean

1 does it have an explicit statement saying that it's
2 impossible, then no.

3 MR. CHEN: I didn't realize that it was that
4 hard, but thank you.

5 Let me see. This is as prelabeled Exhibit
6 2037.

7 (Exhibit Number 2037 marked for
8 Identification.)

9 BY MR. CHEN:

10 Q. Dr. Wolfe, do you see Exhibit 2037 in front of
11 you?

12 A. Yes.

13 Q. So let's assume the white fan labeled as
14 "preceding illumination fan" is the same as that in
15 Exhibit 2036.

16 A. Okay.

17 Q. Dr. Wolfe, does the 336 patent exclude the
18 second connector of the preceding illumination fan as
19 labeled in Exhibit 2037 from connecting to a power
20 supply?

21 MS. QU: Objection to form.

22 THE WITNESS: The 336 patent doesn't discuss
23 Exhibit 2037.

24 BY MR. CHEN:

25 Q. I understand that.

1 My question is not that the 336 patent
2 discusses it. I'm asking if it excludes it.

3 A. It doesn't say anything about Exhibit 2037.

4 Q. Do you understand the configuration in Exhibit
5 2037?

6 A. I think so.

7 And you told me that includes the fans in
8 2036, and the fan in 2036 is not disclosed in the 336
9 patent.

10 Q. But you understand the configuration is that
11 the preceding illumination fan is connected to a power
12 supply through its second connector in Exhibit 2037;
13 right?

14 A. Well, that's what you've drawn on Exhibit
15 2037.

16 Q. Okay. So, with that, can the preceding
17 illumination fan's first connector in Exhibit 2037
18 supply power to the first illumination fan's second
19 connector in Exhibit 2037?

20 MS. QU: Objection to form.

21 THE WITNESS: Exhibit 2037 is not an
22 embodiment of the patent, and, as far as I understand,
23 it's not supposed to be something that's described by
24 the claims, so it can do whatever you want.

25 BY MR. CHEN:

1 Q. What --

2 I'm asking you the question based on your
3 understanding of the configuration, and you just told me
4 that you understand the configuration.

5 So --

6 Okay. Let's do it step-by-step.

7 First of all, do you agree, Dr. Wolfe, that
8 the Exhibit 2037 a power supply is connected to the
9 second connector of the preceding illumination fans as
10 labeled in Exhibit 2037?

11 MS. QU: Objection to form.

12 THE WITNESS: It's a hypothetical drawing of
13 something that's not in the patent, and you've labeled
14 it that way, so that's what I would understand.

15 BY MR. CHEN:

16 Q. Does the preceding illumination fan in Exhibit
17 2037 receive power from the power supply as labeled?

18 MS. QU: Objection to form.

19 THE WITNESS: Given that this is not part of
20 the spec and I don't have to consider any of the
21 teachings of the spec, and you've drawn it that way, I
22 guess it could.

23 BY MR. CHEN:

24 Q. And, again, like I said, we're assuming that
25 the preceding illumination fan in Exhibit 2037 is of the

1 same configuration as the preceding illumination fan in
2 Exhibit 2036.

3 Can we discuss Exhibit 2037 under that
4 assumption?

5 A. Yes, but the fan in 2036 is not disclosed in
6 the 336 patent either.

7 Q. That's fine, but, you know, I just wanted to
8 make sure --

9 MS. QU: I'm not sure where this is going.
10 Like you are asking Dr. Wolfe to opine on
11 something you explicitly define as not taught by the 336
12 patent. It's clearly outside the scope of this
13 deposition.

14 MR. CHEN: I disagree that it is not taught.

15 MS. QU: Well, when asking questions you ask
16 him to assume that this is not taught by --

17 MR. CHEN: Because he wants to do it that way.
18 Because he wants to do it that way.

19 I mean, you know, this -- this is an annotated
20 version of the figure in the 336 patent, so I'm just
21 asking him questions based on this configuration, and,
22 if he thinks this is a hypothetical configuration, that
23 is fine. Experts can answer hypothetical questions.

24 MS. QU: Well, you are asking questions under
25 your explicit assumption that these are not taught by

1 the teachings of the 336 patent, so you put it outside
2 the scope of this case.

3 I'm not sure where this is going.

4 I have allowed, you know, so many questions
5 along this line, but --

6 MR. CHEN: Well, you can take it up with the
7 Board.

8 Like I said, what I'm asking is whether the
9 configuration is excluded by the patent, and Dr. Wolfe
10 has not, you know, answered my questions.

11 MS. QU: He has been giving you responsive
12 answers to the best of his -- you know to his best, but
13 you've been keeping the finding to be outside of the
14 scope of this patent, making this hard for him to make
15 any meaningful testimony.

16 MR. CHEN: You can move to exclude.

17 I mean, you can move to exclude, and then
18 we'll -- we'll see how that can be decided, but I'm
19 entitled to ask my questions in my deposition, so --

20 And, you know, you're coaching the witness,
21 and I want you --

22 MS. QU: I'm not coaching the witness.

23 MR. CHEN: I'm not --

24 I don't want to, you know, kind of put you on
25 the spot regarding that, but you're supposed to say

1 "form," and that's it.

2 MS. QU: Well, you're asking the same
3 questions again and again, and you're -- you're arguing
4 with my witness and accusing him of not being responsive
5 while he's -- he is being responsive.

6 That's mischaracterizing his testimony.

7 And to some point this will rise to a point
8 where you're -- where you're starting to badgering the
9 witness, so I'm just -- I just want to alert you to
10 that.

11 If you keep defining all of the figures that
12 you're putting and annotations you're putting here under
13 the hypothetical that these are not taught by the 336
14 patent, I don't see any -- you know, why we're
15 continuing with this line of questioning here.

16 MR. CHEN: That is your opinion, I respect
17 that, but I disagree, so let's just get back to
18 questioning.

19 BY MR. CHEN:

20 Q. Dr. Wolfe, does the 336 patent exclude the
21 second connector of the preceding illumination fan in
22 Exhibit 2037 from connecting to a power supply as
23 illustrated in the Exhibit?

24 MS. QU: Objection to form, asked and
25 answered.

1 THE WITNESS: The 336 patent does not address
2 Exhibit 2000 -- 2037 at all.

3 BY MR. CHEN:

4 Q. Do you understand the configuration shown in
5 Exhibit 2037?

6 A. I don't know.

7 Parts of it are from Figure 3 of the patent,
8 but other parts of it, including as you've represented
9 it, to have the fans of Exhibit 2036, are not in the
10 specifications of the 336 patent.

11 Q. Dr. Wolfe, can you please go to paragraph --
12 Well, actually probably should use the page
13 number. It's easier.

14 Page 28 of 130 in Exhibit 1031.

15 You were just there.

16 A. I'm on page --

17 Q. 28 of 130.

18 A. Oh, I'm sorry. Yes.

19 Q. Okay. So do you see that you reproduced a
20 figure in Exhibit 1035 on page 27 of your Reply
21 Declaration?

22 A. Yes.

23 Q. Okay. So above that figure there is -- there
24 are two sentences. It says that "It has a primary
25 emission angle of 60 degrees, which will reflect from

1 both the fan blades and circular fan cavity walls, and
2 the way to the top surface, and also has substantial
3 light output at a full 90 degrees of access or straight
4 up."

5 Do you see that?

6 A. Yes.

7 Q. So let's see. I had another question about
8 that.

9 What do you mean by "straight up" in that
10 statement?

11 A. So, if you look at page 26 and you position a
12 typical LED, like the Kingbright LED that I described as
13 an example, sideways, and you stood on top of four LEDs
14 like that, you would be able to see some light coming
15 from the LEDs when they're powered up.

16 Q. So is it your position that Li uses an LED
17 like the Kingbright LED you mentioned on page 27 of your
18 Reply Declaration which is Exhibit 1031?

19 A. It would be obvious to use one like that.

20 MR. CHEN: Okay. So just so that we
21 visualize that "straight up" statement there --

22 THE WITNESS: Yes.

23 MR. CHEN: -- I have prepared a prelabeled
24 Exhibit 2022.

25 (Exhibit Number 2022 marked for

1 Identification.)

2 BY MR. CHEN:

3 Q. In the context of Li --

4 So I believe this actually reflects what you
5 just said like, you know, laying it down from sideways
6 or whatever, but okay.

7 So let's just get your view on this.

8 So in this Exhibit 2022, would you say the
9 straight up directions as shown in Exhibit 2022 with
10 respect to the LED in the Kingbright LED and the LED in
11 Li is the same straight up direction you mentioned in
12 paragraph 51 of your Reply Declaration on page 27 of the
13 Declaration?

14 A. It is.

15 It needs to be understood in the context of
16 the totality of my testimony, which is that somebody who
17 was in that position would be able to see some direct
18 light, some diffused light, and some reflected light,
19 and then the rest of my testimony also noting that
20 everything that's been accused in this case uses
21 diffused light and reflected light, that -- that the
22 LEDs that are accused are positioned in exactly the same
23 way.

24 Q. Okay. So -- so I guess my question is -- it
25 was simpler.

1 So, Dr. Wolfe, would you agree that the
2 straight up illustration in Exhibit 2022 is the same
3 straight up direction as stated on page 27 of your Reply
4 Declaration?

5 A. Yes, but it needs to be taken in the context
6 of the totality of my testimony.

7 Q. Okay. So I wanted to understand how you get
8 that from the spacial distribution on page 27 of your
9 Reply Declaration.

10 So can you walk me through how you made that
11 figure, that graph on page 27?

12 A. Sure.

13 The curved lines are a 100%, 90%, 80%, 70%,
14 60%, 50%, 40%, 30%, 20% and 10%.

15 Q. Are you talking about the concentric circles?

16 A. Yes.

17 Q. Okay.

18 A. And the dark circle is the primary light
19 distribution, and to understand this you have to know
20 two things: One is that people can see over a range of
21 approximately a million in light illumination, so even 1
22 or 2% is visible, and that's typically what you see
23 directly at 90 degrees, and, also, that there is
24 reflection and diffusion from the surrounding surfaces,
25 and that you would only need to be -- you would get --

1 would start to get reflection and diffusion just from
2 the housing of the LED, because that's already a few
3 millimeters away and within the 60-degree angle, and
4 then you would get additional reflection diffusion from
5 all the things that are close to it, the walls, the fan
6 blades, all those things that are within the a 60 or
7 70-degree angle in each direction.

8 So that's a total angle of up to 140 degrees.

9 And then, as I mentioned on next page, the
10 other LEDs that were well known in the art are actually
11 double that.

12 Q. Okay. So -- so I'm actually trying to
13 understand just the figure and what the figure is
14 talking about.

15 Okay. So, if you look at the thick -- I guess
16 it's like elliptical-shaped circle in the center, --

17 A. Uh-huh.

18 Q. -- like with that dark like, you know, black
19 line --

20 A. Yes.

21 Q. -- surrounding it, is that -- is that circle
22 showing at different angles how strong the percentage of
23 light is being provided?

24 A. Yes.

25 MR. CHEN: Okay. So let's see.

1 So can you please show me that --

2 That's actually --

3 Let me see. Do you have labels?

4 THE REPORTER: Yes.

5 MR. CHEN: Okay. So let's label this 2046.

6 (Exhibit Number 2046 marked for
7 Identification.)

8 MR. CHEN: Perfect.

9 MS. QU: Can I have a copy?

10 MR. CHEN: Sure.

11 BY MR. CHEN:

12 Q. And I'm providing you with a highlighter.

13 So can you please show me at 0 degrees what
14 the strength of the light emission percentage would be
15 and why?

16 A. It's 100%. That's what's shown by the graph.

17 MR. CHEN: Okay. It's 100% as shown by the
18 graph. Okay.

19 So I'm providing a prelabeled Exhibit 2043.

20 (Exhibit Number 2043 marked for
21 Identification.)

22 BY MR. CHEN:

23 Q. So, given what you just testified with respect
24 to Exhibit 2046, would you agree that the lines showing
25 in Exhibit 2043 are correctly indicating that at 0

1 degrees the percentage would be 100%?

2 A. For the primary emission; right?

3 Again, there are reflective and diffused
4 emissions as well, and that's all that's been accused in
5 this case.

6 Q. Sure.

7 But you agree that figure with the red lines
8 shown in Exhibit 2043 are correctly indicating that at 0
9 degrees the strength would be a 100%, which is labeled
10 as 110?

11 A. Yep.

12 MR. CHEN: Okay. So -- let's see.

13 So then let me --

14 So may we label this as Exhibit 2047, please.

15 (Exhibit Number 2047 marked for
16 Identification.)

17 BY MR. CHEN:

18 Q. So on --

19 MS. QU: Can I have a copy of that?

20 MR. CHEN: Oh, sure.

21 It's -- it's the same, a blank one. It's the
22 same blank one again.

23 You have a copy. I may not have enough
24 copies.

25 MS. QU: Just to cover, you're saying 2046 is

1 the same as 2047?

2 MR. CHEN: No. You know, after labeling,
3 obviously it is not, but the raw -- the base -- the
4 base, you know, the base form is the same.

5 MS. QU: Okay. Thank you.

6 MR. CHEN: So at this time let's use green.

7 So, Dr. Wolfe, can you please on Exhibit 2047
8 notate when the strength of the light emission would be
9 at 70%.

10 Okay. So I'm providing a premarked Exhibit
11 2039.

12 (Exhibit Number 2039 marked for
13 Identification.)

14 BY MR. CHEN:

15 Q. So, Dr. Wolfe, would you agree that the green
16 lines shown on Exhibit 2039 are correctly indicating
17 that when the angle is at plus minus 20 degrees the
18 strength of the light emission would be at 70%?

19 A. That's approximately correct.

20 MR. CHEN: Okay. Please label this as Exhibit
21 2048.

22 (Exhibit Number 2048 marked for
23 Identification.)

24 MR. CHEN: Dr. Wolfe, can you please on
25 Exhibit 2048 notate the light emitting strength angles

1 when the strength is at 50%.

2 Oh, I'm so sorry. I should have given you a
3 different color.

4 Can we take a short recess?

5 Yeah.

6 MS. QU: Do you want to do it longer?

7 I think dinner is probably here.

8 MR. CHEN: Oh, okay. Sure. Let's do that,
9 that's fine.

10 (Thereupon a recess was taken at 7:16 p.m.
11 and the deposition resumed at 7:38 p.m.)

12 (Exhibit Number 2049 marked for
13 Identification.)

14 MR. CHEN: So, Dr. Wolfe, welcome back.

15 BY MR. CHEN:

16 Q. So in Exhibit 2049, can you please mark the
17 points that show the emissions strength to be at about
18 50% by the LED?

19 A. I did that on 2048.

20 Q. Yes, I know, but wrong color, so -- so if you
21 can, you know, please indulge me so that -- so that --

22 A. Okay.

23 MR. CHEN: Okay. So let's do --

24 So this is the premarked 2041.

25 (Exhibit Number 2041 marked for

1 Identification.)

2 BY MR. CHEN:

3 Q. So compared to 2049 would you say that the
4 notations on 2041 are correct, demonstrating that at
5 approximately maybe plus minus 25 degrees relative to
6 the 0 degrees direction the strength of the emission is
7 about 50%?

8 A. No.

9 Q. Why not?

10 A. It's wrong.

11 Q. What is the correct one?

12 A. I don't understand the question.

13 Q. So you're at 2049?

14 So --

15 Okay. So let's say that the --

16 Oh, shoot. Okay.

17 So, Dr. Wolfe, would you agree that at 50% the
18 degrees of emission would be about plus minus 30
19 degrees?

20 A. Approximately, yes.

21 MR. CHEN: Okay. So let's label this as 2050.
22 (Exhibit Number 2050 was marked for
23 Identification.)

24 BY MR. CHEN:

25 Q. So, Dr. Wolfe, can you show me at what degree

1 would the emissions strength approach 0?

2 A. At 90 degrees it's down to a couple percent,
3 so that would approach 0.

4 Of course, you can't ever get to 90 degrees on
5 all four LEDs.

6 MR. CHEN: Which exhibit number is that?

7 THE WITNESS: 2050.

8 MR. CHEN: Okay. So this is as prelabeled
9 2040.

10 (Exhibit Number 2040 marked for
11 Identification.)

12 BY MR. CHEN:

13 Q. So in Exhibit 2040 --

14 Dr. Wolfe, would you agree that actually
15 beyond plus minus --

16 Strike that.

17 So, Dr. Wolfe, based on Exhibit 2040 would you
18 agree that, when the degrees are beyond plus minus 50
19 degrees relative to the 0 degree line in the center, the
20 emission strength would approach 0?

21 A. It would be a few percent of the maximum, so
22 it's not 0, it's visible, but as you pass 90 degrees at
23 some point it reaches 0.

24 But from 50 to 90 degrees, yeah, you're in the
25 1 to 3% range.

1 Q. But the figure shows that it converges at 0
2 beyond 50 degrees?

3 A. No. It's a thick line. I think you're
4 over-interpreting it.

5 And, as I mentioned in the Declaration, I've
6 used these parts.

7 There's internal reflections and internal
8 diffusion from the -- from the circular plastic
9 encapsulation, and out to 90 degrees you still get a
10 small percentage of the light emission.

11 You know, this is a pretty approximate graph,
12 and, in addition, as I said, you can't get to be 90
13 degrees from all four LEDs anyway.

14 Q. So it is your position that beyond 50 degrees
15 plus minus relative to the 0 degrees direction the
16 primary strength of light emission is not 0 based on the
17 graph in --

18 A. I don't know what you mean --

19 Q. -- 2040?

20 A. I don't know what you mean by "primary
21 strength," but if you look at one of these LEDs between
22 50 and 90 degrees off axis, you still see visible light.

23 It's only a percentage or two of what you
24 would you see if you were directly on axis, but you
25 still see visible light.

1 Q. Where does it show visible light in the
2 graph --

3 A. Well, as I said, --

4 Q. -- when it's converging at 0?

5 A. Well, it's converging above 0; right?

6 I think it's not 0. It's converging above 0,
7 slightly above 0, and, as I said, I've seen them in
8 operation as well.

9 So why would they even show you the 90 degrees
10 if it was completely 0?

11 It's not.

12 So they're just trying to give you the general
13 model, and there is still light output at 90 degrees.

14 But none of that is relevant because in the
15 configuration that's disclosed in Li it's visible at 20
16 or 30 degrees from the top.

17 MR. CHEN: This is premarked 2044.

18 (Exhibit Number 2044 marked for
19 Identification.)

20 BY MR. CHEN:

21 Q. Dr. Wolfe, what is 2044?

22 A. I believe it includes Figure 3 from one of the
23 prior art references as well as kind of a blowup that
24 you've put in there.

25 Q. Is that Li you're referring to?

1 A. I don't have the references in front of me,
2 but that sounds right.

3 Q. Okay.

4 A. Yeah.

5 Q. So the blowup is for the LED; correct --
6 labeled as "11"?

7 A. I don't know what you mean for "LED."

8 Q. The LED labeled as "11" in Exhibit 2044 is
9 being blown up in the exhibit; correct?

10 A. One of the LEDs 11.

11 Q. Okay. Do you see that there are basically two
12 circles showing the LED 11 in the blown-up portion?

13 A. Could be.

14 In some places there appear to be two, and in
15 some places there appear to be one.

16 I don't know that that has any meaning.

17 MR. CHEN: Okay. So this is a prelabeled
18 Exhibit 2045.

19 (Exhibit Number 2045 marked for
20 Identification.)

21 BY MR. CHEN:

22 Q. So, Dr. Wolfe, in Exhibit 2045, in the
23 blown-up portion of the LED 11, do you agree that the
24 red portion to be the LED itself?

25 A. No. The whole thing should be the LED.

1 You know, I wouldn't want to over-interpret
2 it, but I think the whole thing is the LED.

3 If you look at Figure 2, it's clear that
4 there's only one thing there.

5 Q. Well, wouldn't the concentric --
6 Not concentric.

7 Strike that.

8 MR. CHEN: Okay. So, actually --

9 Let me see.

10 So this is also prelabeled Exhibit 2020 and
11 prelabeled 2021.

12 (Exhibit Number 2020 and 2021 marked for
13 Identification.)

14 MR. CHEN: I'll give counsel a copy as well.

15 Actually, given that they're not bound, I'm
16 going to take this out, and why don't you put them in
17 this so that they don't fall apart -- and with this.

18 THE REPORTER: Thank you.

19 THE WITNESS: So we're using different exhibit
20 numbers than in the proceeding?

21 MR. CHEN: No, no, these are the exhibit
22 numbers in the proceeding.

23 THE WITNESS: This one is marked Exhibit 2007
24 and also 2020.

25 MR. CHEN: Oh.

1 Yeah, the -- the yellow ones are the correct
2 ones for this proceeding because the --

3 THE WITNESS: Okay.

4 BY MR. CHEN:

5 Q. So what I'm -- so what I'm requesting is that
6 you compare the two exhibits, one is 2020, the other one
7 is 2021, and tell me what you see to be different.

8 A. You want me --

9 Like they're like 100 pages each. You want me
10 to go through and compare?

11 Q. Well, I'll give you a hint.

12 One of them is just a black-and-white copy of
13 the other one, which is -- which is in color, but, you
14 know, you can just kind of skim through it to confirm
15 that you don't see anything inconsistent in the sense
16 that it has different content other than the color.

17 Obviously, you cannot, you know, do everything
18 during this short amount of time.

19 I'm just saying that, you know, given the
20 general impression, would you agree that the two
21 documents appear to be the same except that one is in
22 color, which is 2021, while the other one is
23 black-and-white, which is 2020?

24 A. They have approximately the same number of
25 pages. I mean, I can't compare the text while sitting

1 here.

2 Q. Of course, yes. No problem, yeah.

3 Did you have the -- like the divider between
4 the two exhibits just for -- for the convenience of the
5 Court Reporter?

6 Okay. Thank you. Appreciate that.

7 Okay. Good.

8 No, actually, that's all I'm asking, just, you
9 know, help me like --

10 You don't think these two are two different
11 documents based on your quick review?

12 Like you don't see anything that seems to
13 suggest that these are different?

14 A. Not in looking at them for two minutes, but I
15 certainly can't represent that they're not different.

16 MR. CHEN: Okay. Yeah. So I'm about done, so
17 maybe, you know, just give me about 10 minutes.

18 MS. QU: You want to take a break?

19 MR. CHEN: Yeah, 10, 15 minutes.

20 (Thereupon a recess was taken at 7:58 p.m.
21 and the deposition resumed at 8:08 p.m.)

22 BY MR. CHEN:

23 Q. Dr. Wolfe, can you please turn to Exhibit
24 1001.

25 A. Okay.

1 Q. In Claim 1 of Exhibit 1001, which is the 336
2 patent, do you see that the illumination area is
3 electrically connected with the power socket?

4 A. Yes.

5 Q. Assuming that the power socket is supplied
6 with power, does the illumination area also get power?

7 MS. QU: Objection to form.

8 THE WITNESS: Literally it is driven into
9 illumination. That would generally be a result of it
10 getting some kind of power.

11 BY MR. CHEN:

12 Q. Does a reflecting light require power?

13 MS. QU: Objection to form.

14 THE WITNESS: The light that's being reflected
15 is a result of power.

16 BY MR. CHEN:

17 Q. But the surface reflecting the light is not in
18 need of power in order to reflect the light; correct?

19 A. That is true.

20 The combination of the illumination device and
21 the reflective surfaces are. That's true for diffusion
22 as well.

23 I mean, the accused products in the -- in the
24 case are all accused based on diffuses light, so -- I
25 think it's fair for me to assume that the scope of the

1 claim is at least inclusive of what Lian Li is accused
2 of infringing it.

3 Q. But the light being diffused is also emitting
4 from the illumination area that accused; correct?

5 A. Based on what's been accused, illumination,
6 direct illumination, diffuse illumination, reflected
7 illumination would all be part of -- part of an
8 illumination area.

9 I mean, the diffuser that can be seen from the
10 top of the body in the accused products is not
11 electrically connected to the -- to the power supply.

12 So clearly based on the allegations that have
13 been made by Lian Li, the combination of LEDs and other
14 elements that modify the direction of the light is
15 within the scope of the claim.

16 Q. In Claim 1 of the 336 patent, in Claim 4 --
17 Strike that.

18 In Claim 1 of the 336 patent in column 4 about
19 line 5 Claim 1 recites "a body, provided with a fan in
20 center of the body."

21 Do you see that?

22 A. I do.

23 Q. So would you agree that a fan in the center of
24 the body is not part of the body?

25 A. I think it's ambiguous.

1 I didn't have to consider it for any of my
2 opinions. My opinions would have been fine either way.

3 I think it's a little ambiguous.

4 The -- the chocolate in the center of an M&M
5 is part of the M&M, but the word "provided" may have
6 some legal meaning, but it's not clear to me.

7 Q. Does Claim 1 say a body comprises a fan in
8 center of the body?

9 A. It does not.

10 Q. The term used is "provided with;" correct?

11 A. That is the term, although the illumination
12 fan also seems to comprise --

13 I mean, I'm not sure how you could have this
14 claim without the fan being part of what's being
15 claimed, and the body is the only limitation that's
16 there.

17 Q. A fan is provided to the body in center of the
18 body; correct?

19 A. That's what it says, but, again, it's not a
20 method claim, so it's not being provided by someone.

21 So that must mean that the fan is present in
22 the center of the body.

23 Q. Yes, but, if the body includes the fan as part
24 of the body already, why does it need to be provided
25 with a fan?

1 A. Again, I find the language a little bit
2 ambiguous, but it's to tell us that the fan is in the
3 center of the body.

4 Q. Yeah, that just gives you the position of the
5 fan, but it does not take away the fact that the
6 language is "a body provided with a fan in center of the
7 body," meaning that the fan is a separate element that
8 is provided to the body; correct?

9 MS. QU: Objection to form.

10 THE WITNESS: Again, I'm not sure what it
11 means legally.

12 From my perspective it didn't matter to any of
13 my opinions.

14 I think it's pretty clear from the claim that
15 the fan is part of -- is a limitation of the
16 illumination fan. The illumination fan includes a fan.

17 Otherwise, I don't know how you could practice
18 the claim.

19 Whether or not that's part of the body, that
20 didn't matter to any of my opinions.

21 BY MR. CHEN:

22 Q. Do you see that in the second line it says
23 that "illumination area on at least two sides of the fan
24 at top of the body"?

25 Do you see that?

1 A. Yes.

2 Q. Does it require the top of the body to be
3 flat?

4 A. I don't think it does, but, again,
5 Dr. Tuckerman seems to take a very narrow view of what
6 "top" and "side" mean.

7 He claimed that things that were recessed from
8 the top surface were not at the top, even if you could
9 see them from the top.

10 Q. I'm sure he would disagree, but --

11 A. Well, he certainly said that the LEDs were not
12 at the top of the body in Li, even though you can see
13 them from the top and there's nothing covering them.

14 Q. But you do agree that the top of the body in
15 Claim 1 of the 336 patent does not have to be flat;
16 right?

17 A. I agree with that.

18 Q. Does one side of the body claimed in Claim 1
19 of the 336 patent have to be flat?

20 A. No.

21 In fact, if you look at my testimony, I think
22 it can be the whole left side of the body or the whole
23 right side of the body.

24 Now, some of the claims --

25 No, I think that's fine for all the claims.

1 Q. So several lines down Claim 1 says "When the
2 power socket on one side of a body is supplied with
3 power, the fan and the illumination area of the body are
4 respectively driven into rotation and illumination."

5 Do you see that?

6 A. I do.

7 And, again, that also supports the idea that
8 the fan is part of the body, it is the fan of the body,
9 not the fan provided to the body.

10 Q. Well, the fan is provided above -- to the body
11 already, and, therefore, before the fan was provided to
12 the body the fan was not part of the body; correct?

13 MS. QU: Objection to form.

14 THE WITNESS: You mean before the apparatus
15 was assembled?

16 I don't know.

17 This doesn't tell us anything in the claim
18 about what happened before the apparatus was assembled.

19 BY MR. CHEN:

20 Q. In Claim 1 when the fan and the illumination
21 area are driven into rotation and illumination
22 respectively, does the fan rotate?

23 A. Yes.

24 Q. Does the illumination area illuminate?

25 A. Yes, which means it gives off light.

1 MR. CHEN: Okay. I have no further questions.

2 MS. QU: I don't have any questions.

3 (Thereupon the deposition was adjourned at
4 8:21 p.m.)

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1 I, CAROL S. NYGARD, a Certified Shorthand
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24 CAROL S. NYGARD CSR #4018
25

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

September 29, 2025

To: SURUI QU, ESQ.

Case Name: Thermaltake Technology Co, Ltd. v. Lian Li Industrial Co.
Ltd.

Veritext Reference Number: 7614106

Witness: Andrew Wolfe , Vol 2 Deposition Date: 9/26/2025

Dear Sir/Madam:

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

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

Sincerely,

Production Department

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DEPOSITION REVIEW
CERTIFICATION OF WITNESS

ASSIGNMENT REFERENCE NO: 7614106

CASE NAME: Thermaltake Technology Co, Ltd. v. Lian Li
Industrial Co. Ltd.

DATE OF DEPOSITION: 9/26/2025

WITNESS' NAME: Andrew Wolfe , Vol 2

In accordance with the Rules of Civil
Procedure, I have read the entire transcript of
my testimony or it has been read to me.

I have made no changes to the testimony
as transcribed by the court reporter.

Date Andrew Wolfe , Vol 2

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

They have read the transcript;

They signed the foregoing Sworn
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I have affixed my name and official seal

this _____ day of _____, 20____.

Notary Public

Commission Expiration Date

DEPOSITION REVIEW
CERTIFICATION OF WITNESS

ASSIGNMENT REFERENCE NO: 7614106

CASE NAME: Thermaltake Technology Co, Ltd. v. Lian Li Industrial Co. Ltd.

DATE OF DEPOSITION: 9/26/2025

WITNESS' NAME: Andrew Wolfe , Vol 2

In accordance with the Rules of Civil Procedure, I have read the entire transcript of my testimony or it has been read to me.

I have listed my changes on the attached Errata Sheet, listing page and line numbers as well as the reason(s) for the change(s).

I request that these changes be entered as part of the record of my testimony.

I have executed the Errata Sheet, as well as this Certificate, and request and authorize that both be appended to the transcript of my testimony and be incorporated therein.

Date

Andrew Wolfe , Vol 2

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They have read the transcript;
They have listed all of their corrections in the appended Errata Sheet;
They signed the foregoing Sworn Statement; and
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Federal Rules of Civil Procedure

Rule 30

(e) Review By the Witness; Changes.

(1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:

(A) to review the transcript or recording; and

(B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.

(2) Changes Indicated in the Officer's Certificate.

The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1, 2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

VERITEXT LEGAL SOLUTIONS

COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

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