

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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SHARP CORPORATION, SHARP  
ELECTRONICS CORPORATION, and SHARP  
ELECTRONICS MANUFACTURING  
COMPANY OF AMERICA,  
Petitioner

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Case Number IPR2015-00021  
Patent Number 7,202,843 B2

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Held: December 1, 2015

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BEFORE: SALLY C. MEDLEY, BRYAN F. MOORE, and  
BETH Z. SHAW, Administrative Patent Judges.

The above-entitled matter came on for hearing on Tuesday,  
December 1, 2015, commencing at 10:01 a.m., at the U.S.  
Patent and Trademark Office, 600 Dulany Street,  
Alexandria, Virginia.

Application Numbers 95/000578; 95/000579; 95/001339  
Appeal Number 2015-006849

APPEARANCES:

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P R O C E E D I N G S

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JUDGE MEDLEY: Good morning.

MR. LO CICERO: Good morning.

JUDGE MEDLEY: This is a hearing for IPR --

are you ready? -- 2015-00021 between Petitioner

Sharp and Patent Owner Surpass Tech Innovation.

Per our October 23rd order, each party will have

30 minutes total time to present your arguments.

Petitioner, you proceed first to present your

case with respect to the challenge claims and the

ground, single ground for which the Board

instituted trial. And then Patent Owner, you'll

have time to respond to Petitioner's

presentation. Petitioner, you can reserve

rebuttal time if you like.

At this time, we'd like the parties to

please introduce counsel, beginning with the

petitioner.

MR. LO CICERO: Good morning, your Honors.

Anthony Lo Cicero from Amster, Rothstein,

Ebenstein. With me is my partner, Brian Comack,

and our colleague, Mark Berkowitz.

JUDGE MEDLEY: Thank you. And for Patent

Owner?

1       MR. HELGE: Good morning, your Honor. My  
2       name is Wayne Helge from Davidson, Berquist,  
3       Jackson & Gowdey, LLP. And I'm here representing  
4       Patent Owner, Surpass Tech innovation, LLC. With  
5       me is my colleague James Wilson.

6       JUDGE MEDLEY: Thank you. Petitioner, you  
7       may begin. And would you like to reserve  
8       rebuttal time?

9       MR. LO CICERO: I would, your Honor. Ten  
10      minutes, please.

11      JUDGE MEDLEY: Okay. Please proceed.

12      MR. LO CICERO: Your Honor, I have hard  
13      copies of our demonstrative exhibits if you'd  
14      like.

15      JUDGE MEDLEY: Yes, you may approach the  
16      bench with it. Thank you.

17      MR. LO CICERO: Good morning, your Honor,  
18      as I said I'm Anthony Lo Cicero, representing the  
19      petitioner, Sharp.

20      We believe that our papers, supplemented by  
21      today's hearing, will demonstrate that Claims 4;  
22      8; and 9 of the '843 patent are anticipated by  
23      the Ham reference and that Surpass's three  
24      arguments listed on Slide Number 2 are of no  
25      avail. The '843 patent relates to the problem of

1 blurring in LCD panels. Specifically, because of  
2 the physical nature of the LCD technology, the  
3 liquid crystal molecules have to be twisted and  
4 rearranged, and this physical phenomenon can  
5 cause the images to be delayed. The '843 patent  
6 identifies a first solution which is to divide  
7 the frame into two fields and to apply a data  
8 impulse from -- into both of those fields as  
9 shown on Slide 5. This solution is embodied in  
10 Challenge Claim 4 which is a method claim for  
11 driving a liquid crystal panel or certain  
12 characteristics. It includes the steps of  
13 receiving frame data, generating a plurality of  
14 data impulses according to that frame data, and  
15 applying the data impulses to the LCD pixel  
16 within one frame period.

17 There's another claim that's of relevance,  
18 although it's certainly not under review. That's  
19 Claim 1. Claim 1 deals with a second solution, a  
20 second method of curing the blurring problem,  
21 Claim 1 is an apparatus claim. It has a  
22 blur-clear converter which among other things  
23 generates a plurality of overdriven pixel data.  
24 it has a source generator -- a source driver for  
25 generating a plurality of data impulses.

1 According to this plurality of overdriven pixel  
2 data and the gate driver applying the data  
3 impulses to the --

4 JUDGE MEDLEY: Excuse me. What is it that  
5 actually prevents the blurring? Is it having  
6 multiple pulses in a timeframe? Or is it having  
7 overdriven pulses that avoids the blurring?

8 MR. LO CICERO: Yes.

9 JUDGE MEDLEY: Which is it?

10 MR. LO CICERO: It can be both. In other  
11 words, the problem of blurring in the '843 patent  
12 and the showing prior art can be addressing  
13 using, let's say, both axes. In the time axes,  
14 if you divide the frame in half, like the impact,  
15 like the '843 patent, then you are able to apply  
16 a data impulse faster so that the -- the pixel  
17 can go from a first gray level to a second gray  
18 level faster. Okay.

19 The other way of doing that in the '843  
20 patent in the Ham reference for one of the  
21 frames, one of the fields, and in the prior art  
22 is to overshoot, that is, to apply a greater, if  
23 it's a positive, or a lesser if it's negative  
24 impulse than you otherwise would to kind of juice  
25 or boost the twisting of the pixels. So there

1 are two ways that one can do this, and our view  
2 is that Claim 4 deals with the dividing -- the  
3 time domain, and Claim 1 deals with the time  
4 domain and the amplitude domain. So I would say  
5 there are both ways of doing it, so both things  
6 have the effect of curing the blurring.

7 JUDGE MEDLEY: But doesn't the involved  
8 patent also contemplate doing both, overdriving  
9 multiple pulses?

10 MR. LO CICERO: The involved patent teaches  
11 both, and Claim 1 is limited to both. Claim 4,  
12 however, is a different claim. It's a method  
13 claim, not an apparatus claim. It has different  
14 steps, and it only deals with the multiple data  
15 impulse approach to cure an overdrive.

16 JUDGE MEDLEY: Okay. What evidence of  
17 record do we have that shows that just applying  
18 multiple pulses obviates this blurring  
19 phenomenon?

20 MR. LO CICERO: Well, the '843 patent  
21 itself. The '843 patent -- let me find the  
22 correct slide because your Honor's obviously come  
23 to the --

24 MR. COMACK: Thirty-seven.

25 MR. LO CICERO: Thank you. Thirty-seven.

1 I'll ask Mr. Berkowitz to do that. So if you  
2 look at the detailed description, and this sums  
3 it up kind of -- shown on Slide 37 from the '843  
4 patent itself. In contrast to the prior art,  
5 present invention discloses a driving circuit and  
6 related driving method to two generate two  
7 piece -- pixel data every for every pixel on an  
8 LCD panel, and it can generate two data impulses  
9 according to the two pieces of pixel data and  
10 then apply them to the electrode. Thus, each of  
11 the pixels applied of a plurality of data  
12 impulses so that the molecules can twist to reach  
13 the predetermined gray level within a frame  
14 period and blurring will not occur. So Slide 37  
15 demonstrates this. As you will notice, there is  
16 no reference to overdrive.

17 And obviously, the -- what's the key issue  
18 in this? Let me depart from my prepared remarks.  
19 The patent owner raised three arguments. One was  
20 that they -- we identified the wrong element as  
21 to what was generating the data impulses. And  
22 that argument starts on page 12 of our slides.  
23 And it is a -- and it is a rehash, okay.

24 First, a Ham reference is not in dispute.  
25 We know what the Ham reference teaches. Data

1 comes into the timing of the controller, 51. The  
2 output of the timing controller from the signal  
3 standpoint is RGB data. That RGB data goes to  
4 two locations. It goes to line numbers. Now  
5 I've messed it up. Okay. Right. It goes to  
6 Line Number 59 which delays it by half a frame.  
7 It also goes to Data Modulator 52 which modulates  
8 it, okay, overdrives it. Those two signals --  
9 that is the delayed normal signal from the line  
10 memory and the overdriven signal from the data  
11 modulator are applied to Switch 58. Switch 58  
12 selectively sequences those signals and applies  
13 them to the data driver. The data driver  
14 converts what is then a digital signal to an  
15 analog signal and applies it through the --  
16 through the data lines to the particular pixel.  
17 Not in dispute. Mr. Bohannon, in the testimony  
18 that is cited in his declaration and depicted on  
19 Slide 13, agrees. Not a dispute.

20 So what's their argument? Well, the  
21 argument is -- by the way, the experts agree.  
22 Their expert, our expert agree on the operation  
23 of the Ham reference, and in particular, that the  
24 Ham reference converts the originally input  
25 digital data into analog data and applies those

1 data impulses to the LCD panel.

2 So the argument, at least in the response  
3 and in today's slides, is that no, we've pointed  
4 solely to Data modulator 52 as the element that  
5 generates that. Well, no, we didn't. And it's  
6 similar, but it's kind of a -- think of a neutral  
7 way -- a rehashed argument because the first  
8 time, in its preliminary response, they -- Patent  
9 Owner said, Well, Sharp is at fault because  
10 they're relying on the timing control of 51 to  
11 generate the data impulse. And the Board said --  
12 okay. The Board said No, that's not -- that's  
13 not what Sharp is saying. Sharp is saying, as  
14 your Honors said, We understand Petition to rely  
15 on the driving apparatus of Figure 5 which is not  
16 limited to the timing controller. So that is  
17 that was the first effort.

18 Second effort is -- now the argument is,  
19 Okay, Patent Owner says, if it's not the timing  
20 controller alone, maybe it's the data modulator  
21 alone. No, it's not. It's the entire driving.  
22 Your answer were right in the institution  
23 decision. It should maintain that concept today.

24 JUDGE MEDLEY: Well, Patent Owner points to  
25 the one sentence in your petition on page 46 that

1 says, The apparatus also includes a timing  
2 control of 51 that receives digital video data  
3 and a data modulator that generates two data  
4 impulses -- for each pixel. So you can kind of  
5 understand where they're coming from, that, you  
6 know, your petition would seem to suggest that  
7 the modulator alone does generate the two data  
8 impulses.

9 MR. LO CICERO: That is, admittedly, an  
10 awkwardly-worded sentence. What Mr. Marentic,  
11 our expert, said, his understanding was that in  
12 fact, what is intended is that it is the entire  
13 apparatus and the entire apparatus includes the  
14 timing controller and the data modulator, and it  
15 is the apparatus that generates the two data  
16 impulses. It's a poorly-worded sentence. If you  
17 look down on the same page, 46, in the next  
18 paragraph, it says that the output, 7B, the  
19 figure which shows the alleged invention, is --  
20 that the -- let me start again. Says that the  
21 entire apparatus generates the data impulses. If  
22 you look at our claim charts which are on page --  
23 on Slide 17, it shows we rely on the entire  
24 driving circuit. In particular, we cite three  
25 paragraphs -- without argument, of course,

1 because it's a claim chart -- including Paragraph  
2 53 which says that the LCD drive apparatus and  
3 method according to present invention applies the  
4 normal data to the liquid crystal panel, the  
5 initial half-period after supplying the modulated  
6 data to the second rule. And that is Slide 17.

7 Of course, this is a method claim and not an  
8 apparatus claim. So -- so long as the generating  
9 step is -- is met, then it doesn't matter  
10 which -- which element does the generating.

11 The other argument that they raise as to  
12 generating, although perhaps they won't raise it  
13 because it's not in their slides, is that somehow  
14 because we didn't offer a construction of  
15 generating that therefore, we've somehow done  
16 something wrong. However, the Board said, as  
17 shown in Slide 21, that it need not construe any  
18 of these limitations. That is correct. The  
19 petitioner, also at Slide 21, said initially that  
20 the terms were clear on their face. The patent  
21 owner's expert when I asked him was he offering  
22 any specific instruction for generating, he said,  
23 No, I think it's pretty clear. And our expert,  
24 of course, agreed that generating is clear and  
25 required no further construction.

1 JUDGE MEDLEY: Does the signal that just  
2 passes through a box, but the box doesn't --  
3 let's say the circuitry doesn't do anything to  
4 the signal, but that -- its output from that box,  
5 would you call that a signal that is generated by  
6 that box?

7 MR. LO CICERO: The box output,  
8 something --

9 JUDGE MEDLEY: Yes.

10 MR. LO CICERO: -- different from --

11 JUDGE MEDLEY: No, it's the same. Just  
12 passes through. It goes through -- it's this box  
13 with circuitry in it. It comes through. It's  
14 the same, exact thing going out. Does that box  
15 generate the signal?

16 MR. LO CICERO: So the box has no impact.  
17 That's a good question. I don't think that's  
18 presented here, the hypothetical not presented  
19 here because everyone agrees that the box in  
20 particular takes digital data and converts it to  
21 analog data. But I think that I would be hard  
22 pressed to say that that's generated if --

23 JUDGE MEDLEY: Okay.

24 MR. LO CICERO: -- it does nothing, if it's  
25 in effect just a wire.

1 JUDGE MEDLEY: But converting --

2 (Overlapping voices.)

3 MR. LO CICERO: Converting does.

4 JUDGE MEDLEY: -- is generating. That's  
5 what you mean by generating.

6 MR. LO CICERO: Converting's generation.

7 If I were pressed and said, How do you  
8 construe generating, I would say outputting.

9 Outputting different -- outputting the data  
10 impulses from the source driver which are in  
11 analog form. And the entire apparatus of Figure  
12 5 of Ham has taken the digital data and will  
13 acknowledge digital data and converts it to the  
14 analog data in the particular form, that is,  
15 overdriven in one of the two pulses and with the  
16 two -- with the frame divided into two feeds.

17 So let's talk about overdriving, and that  
18 begins on page 45 -- 25, right there. So the  
19 crux of the argument here is that the patent  
20 owner, not satisfied with the language of Claim  
21 4, is -- wants to rewrite it to say that two or  
22 more -- that what the claim really means is  
23 applying two or more overdriven data impulses to  
24 control the transmission. Now, why are they  
25 taking this position? To avoid the Ham

1 reference. The patent owner acknowledges that  
2 Ham does not apply a plurality of overdriven  
3 signals in the frame period, and therefore, they  
4 have to find a way of dealing with Claim 4 to  
5 incorporate the overdriving concept. And one way  
6 they could have done it, we'll state it, would be  
7 to try and amend the claim, and -- however, this  
8 Board, of course, has set a series of rules. You  
9 have to have a call. You have to file a motion  
10 to amend. When you file motion to amend, you  
11 have to show a patentable distinction for each  
12 proposed substitute claim over the prior art.  
13 Why didn't they simply do that? Because of  
14 Adachi. Now, Adachi is not one of the grounds of  
15 challenge. We're relying on it only to rebut  
16 what the patent owner's argument. Adachi without  
17 question teaches, as in the lower box, that  
18 single frame is divided into plurality of fields,  
19 and all of the fields are subject to the  
20 overshoot driver. So because they couldn't amend  
21 the claim to get around Adachi, they are left  
22 with trying to say that's the broadest reasonable  
23 construction. But incorporating overdrive into  
24 this claim is not the broadest reasonable  
25 construction, nor is it reasonable.

1       First, add -- the patent owner's asking you  
2       to make at least two mistakes. The first mistake  
3       is to incorporate overdriving limitation of Claim  
4       1 into Claim 4. Claim 1, of course, has -- it  
5       has steps generating overdriven pixel data, and  
6       then generating a plurality of impulses according  
7       to this plurality of overdriven pixel data. And  
8       the law is settled that when a patent claim does  
9       not contain a certain limitation, another one  
10      does, that limitation cannot be read into the  
11      claim as set forth on Slide 31.

12      The second error -- in fact, the cardinal  
13      sin of claim construction -- is that the patent  
14      owner was asking you to incorporate the disclosure  
15      of the '843 into its claim. Okay? Mr. Bohannon,  
16      their expert, says on page 32, Patent, the '843  
17      patent discloses controlling and transmission  
18      vapors achieved through overdrive. It's not.  
19      The claim language, also on page 32, according to  
20      Mr. Bohannon recalls the discussion of overdrive.  
21      Not sure I've heard that -- actually, not before.

22      The -- of course, the patent owner when it  
23      was identifying what the right law is in his  
24      preliminary response said the Board will not read  
25      a particular embodiment appearing in the written

1 description into the claim if the claim language  
2 is broader than the embodiment. But the patent  
3 owner's expert didn't get the memo. I asked him,  
4 Is it your testimony that the specification  
5 describes a concept, that that concept should be  
6 incorporated into the claims? Yes, that's my  
7 understanding. Of course, that's what we do.

8 What I'd like to do is to move forward  
9 because you have the slides.

10 JUDGE MOORE: If controlling the  
11 transmission rate of the liquid crystal device of  
12 the pixel does not imply overdriving, then what  
13 is implied by controlling the transmission rate  
14 of the liquid crystal?

15 MR. LO CICERO: Exactly where I was going,  
16 your Honor. What was implied by controlling a  
17 transmission rate is simply moving the  
18 transmission rate from one gray level to another  
19 to -- what is transmission rate? Transmission  
20 rate is the amount of light that is transmitted  
21 by the LCD data. One of the slides said -- I  
22 asked Mr. Bohannon about transmission rate, and  
23 he said -- I'll find it somewhere. He said he  
24 had no -- he had no definition. I said, Well,  
25 isn't -- thank you. Slide 42. I asked him the

1 answer that I just gave you, your Honor, said, Is  
2 it fair to say the transmission rate is the  
3 percentage of light that's allowed to pass  
4 through? I don't think I can answer that. Okay.  
5 Have you heard the term transmission rate before?  
6 No. Are you offering an opinion on transmission  
7 rate? I'm not offering an opinion on  
8 transmission. So their expert gave it up. Their  
9 expert has no evidence to offer.

10 So what is the evidence, as you asked? I  
11 put up Paragraph 90 of Mr. Marentic's  
12 declaration. And Mr. Marentic's declaration  
13 surely can't be read, so presumably, there's a  
14 way to focus this. Thank you, Mr. Comack.

15 The '843 patent describes the LCD panel  
16 with -- transmission rate was controlled without  
17 overdrive. For example, Figure 2 plots  
18 transmission rate against time and explains that  
19 the transmission rate of a pixel is not  
20 overdriven. So if you look at the second page at  
21 90, Mr. Marentic's declaration, you see it as  
22 clear as could be. What is Figure 2? First of  
23 all, the patent labels as prior art, and it is.  
24 Look at C1. C1 is a curve that is admittedly not  
25 overdriven. Okay? And what happens in C1? The

1 transmission rate, the axis, vertical axis, goes  
2 from T1 to T2. It is changed. The transmission  
3 rate is changed. The transmission rate is  
4 controlled, as Mr. Marentic says in the  
5 declaration, without overdrive. Now, the problem  
6 is it doesn't get changed soon enough. It starts  
7 at the beginning of Frame N. It wants to get  
8 there at the end of Frame 1, and it doesn't. It  
9 doesn't get there till the frame -- end of Frame  
10 N plus 1. So it's delayed. It's not working  
11 ideally. But nonetheless, the prior art as  
12 admitted demonstrates that you can control the  
13 transmission rate without overdriving it. Well,  
14 if that's the case, then it cannot be as we're  
15 accused of doing, that by not incorporating  
16 overdriving into Claim 4, you're eliminated the  
17 requirement to control the transmission data. We  
18 are doing no such thing. Of course, controlling  
19 the transmission rate is a limitation of the  
20 claim, but overdriving is not.

21 I'd like to -- I've gone over a little bit  
22 more than I wanted to, but I'd like to reserve  
23 the rest of my time for rebuttal.

24 JUDGE MEDLEY: Okay. Thank you.

25 MR. HELGE: May it please the Board. Good

1 morning, your Honor. Again, I am Wayne Helge of  
2 Davidson, Berquist, Jackson & Gowdey, here on  
3 behalf of the patent owner Surpass Tech  
4 Innovation, LLC.

5 Your Honors, under USC -- excuse me, 35 USC  
6 316(e), the burden of proving invalidity in an  
7 IPR is the petitioner's burden alone. In this  
8 case, the petitioner filed a petition that  
9 dedicated all of four pages to an analysis of how  
10 the Ham reference allegedly anticipates Claims 4,  
11 8, and 9 of the '843 patent.

12 Now, this petition establishes the  
13 framework for this proceeding. This picks  
14 petition establishes the lens through which we  
15 have to view the case. This petition has  
16 established the roads. They've built the roads  
17 down which we've traveled to get where they hope  
18 to get to at the end. But now, those roads  
19 include dead ends. We've already talked about  
20 one of those dead ends this morning, dealing with  
21 data modulator allegedly generating the plurality  
22 of data impulses. Now, their expert has  
23 contorted the sentence to try to reach a  
24 different conclusion that they believe is  
25 allegedly consistent with the claim chart. But

1 he's been unwilling to go down that road. He's  
2 been unwilling to go down that dead end of saying  
3 the data modulator generates a plurality of data  
4 impulses. We have his deposition testimony  
5 saying that's not the case.

6 We also the little to no explanation of the  
7 Petitioner's theory of invalidity. Under 37 CFR  
8 42.22(a)(2), the petition must include a detailed  
9 explanation of the evidence. We have claim  
10 charts. We have a claim chart with a theory  
11 about the generating step. But that claim chart  
12 is inconsistent with the explanation that's  
13 provided in -- on page 46 of the petition. And  
14 what Petitioner did not get to this morning yet,  
15 and I would think is a crucial question that has  
16 to be answered, was their explanation on page 46  
17 of the petition the explanation of that claim  
18 chart? Or was it an alternative theory? Either  
19 way, they fail. If it's an alternative, then  
20 there is no explanation for the claim chart, and  
21 they failed to satisfy 37 CFR 42.22(a)(2). If it  
22 is their explanation, then they're wrong, and  
23 their expert has confirmed that they're wrong.  
24 The data modulator does not generate a plurality  
25 of data impulses.

1       In addition, the petition contains one more  
2       dead end, and that is a specific misapplication  
3       of Ham to Claim 4. And it's a misapplication in  
4       the term to control a transmission rate as they  
5       point to it in their claim chart. On page 48 of  
6       their claim chart, they -- we can go to Slide --  
7       here we go, Slide 31. They characterize  
8       controlling a transmission rate accordingly to  
9       Ham as doubling the transmission rate. That's in  
10      the petition. But this is the last time you will  
11      see this theory presented by the petitioners.  
12      And indeed, Mr. Marentic, their technical  
13      declarant on reply, first appeared on reply,  
14      said, That doesn't make technical sense to me.  
15      They've taken us down two roads, page 46 about  
16      the data modulator generating impulses and  
17      controlling a transmission rate by doubling a  
18      transmission rate, taking us down two dead ends  
19      that they've now had to backtrack and say, That's  
20      not really what we said. And, in fact, it is.  
21      This third shortcoming drives home the deficiency  
22      --

23      JUDGE MOORE: Can you --

24      MR. HELGE: I'm sorry, your Honor.

25      JUDGE MOORE: Can you go back to the

1 generating --

2 MR. HELGE: Yes, your Honor.

3 JUDGE MOORE: -- issue? In his  
4 presentation, I believe he asserted that  
5 converting an analog signal to digital, that  
6 converting step would meet the definition of  
7 generating. We would have a construction, at  
8 least, that would read on generating. Do you  
9 agree with that?

10 MR. HELGE: Your Honor, in the abstract, I  
11 will tell you that the Shen patent, the '843  
12 patent at issue here, talks about a source driver  
13 converting overdriven data into overdriven data  
14 signals, so converting from digital to -- to the  
15 analog signals that are applied to the columns.  
16 We believe that certainly satisfies 35 USC 112,  
17 for example. So I think that's a fair read in  
18 view of Shen.

19 Now, I would point -- if we can go back to  
20 Slide -- here, page 46. Unfortunately, this  
21 slide not highlighted, but if we were to go down  
22 to this, the paragraph below the highlighted  
23 paragraph, there's another problem here. And  
24 this is where the generating argument comes that  
25 we made. This is not intended to be a pedantic

1 argument. The issue is, as we look into that  
2 second paragraph, they've confused the idea of  
3 data and signal, and they say that a signal is  
4 the data that was entering into the controller.  
5 And so the idea of generating -- and what they  
6 had in mind for generating today, I believe, is  
7 different than what they had in mind in the  
8 petition. They didn't talk about converting and  
9 satisfying that element in the petition. Again,  
10 the lens that they're they've created for us is a  
11 skewed lens. The road they've taken us down  
12 actually never dealt with the generating step  
13 except in the context of the highlighted language  
14 which is the data modulator generated the  
15 impulses.

16 Now, your Honors, I mentioned a moment ago  
17 on Slide 31 how we have a dead end in terms of  
18 controlling a transmission rate in the Shen  
19 patent, and specifically, in Claim 4 here and  
20 their theory that it doubles transmission rate in  
21 the Ham reference. You'll see in the Marentic --  
22 excuse me, the declaration Paragraph 93 which is  
23 a slide I don't believe they got to he actually  
24 comes up with a new construction which is it --  
25 applying a voltage to an electrode is controlling

1 the transmission rate. Now, Mr. Lo Cicero a  
2 moment ago said to control the transmission rate,  
3 you have to go from T1 to T2, for example. You  
4 have to change the transmission rate such as  
5 shown in Shen's figures. Figure 6, for example,  
6 Figure 2, there's changes from T1 to T2. The way  
7 Mr. Marentic deals with it in Paragraph 93,  
8 there's no change of transmission rate required  
9 at all. Simply applying a voltage could be  
10 controlling a transmission rate. In effect, we  
11 have from Petitioners now a third theory that's  
12 come into play.

13 Now, your Honors, we win it in every case.  
14 First of all --

15 JUDGE MEDLEY: What does that mean, control  
16 a transmission? Even if you're not, you know,  
17 controlling the transmission rate so that the  
18 transmission rate is faster to get to where you  
19 want to go quicker, you're still controlling it  
20 by applying a voltage to the pixels. So I'm  
21 having difficulties finding in the words control  
22 a transmission rate that it means that you've got  
23 to apply a particular overdriven signal, and not  
24 only do you have to apply an overdriven signal,  
25 it has to be more than one. I just don't see

1 that in your claim at all, so if you could break  
2 that down for us, that would be great.

3 MR. HELGE: Absolutely, your Honor. I  
4 think what we should do is go back to Slide --  
5 well, I know you're aware of claim language.  
6 Let's go back to Slide 5. Slide 5 discusses the  
7 claim language. Perhaps we should go one more.

8 We've got elements in Claim 4 dealing with  
9 receiving a plurality of frame data, generating a  
10 plurality of data impulses, and then applying  
11 those data impulses to control the transmission  
12 rate. If we look at Column 2, Lines 3 to 7 to  
13 seven, Shen describes the idea of overdriving as  
14 accelerating the change, accelerating that  
15 difference. And the comparison there is between  
16 Curves C1 and C2 on Figure 2. Now, the first  
17 time that Shen actually talks about concept of  
18 controlling a transmission rate does not occur in  
19 the background. This is something that  
20 Mr. Marentic also admitted. He has reached a  
21 construction on controlling transmission rate  
22 based on his experience and his understanding of  
23 the word control generally, but not in the  
24 context of the '843 patent where we have in  
25 Column 4, Lines 20 to 28, I believe Lines 13 to

1 14, the idea of controlling the transmission rate  
2 specifically in response to overdriven pulses.  
3 Those overdriven pulses cause acceleration of the  
4 change. They cause that change from T1 to T2 to  
5 be faster.

6 JUDGE MEDLEY: Is that just one embodiment,  
7 though? Is it possible to control the  
8 transmission rate just using multiple pulses that  
9 aren't overdriven?

10 MR. HELGE: Your Honor, I'm happy you asked  
11 that because that brings up a great point. The  
12 answer is no, absolutely not. According to the  
13 Shen patent, every embodiment that's being  
14 disclosed is controlling a transmission rate  
15 through the application of overdriven pulses.

16 Now, counsel -- go to Slide 37. Counsel  
17 referred you in response to that similar question  
18 to Column 5, Lines 45 to 55. That's paragraph  
19 that summarizes the discussion, the disclosure,  
20 right before getting to the claims, and they say  
21 that this is evidence that you can control the  
22 transmission rate or you can reduce blurring  
23 without overdriving. But in the petition, on  
24 page 15, they're discussing overdriving with  
25 respect to Figure 6. and they go through a

1 full-paragraph discussion. And they say this  
2 method allegedly allows this signal to reach a  
3 target transmission rate, T2, within a single  
4 frame period. The citations they then list in  
5 discussing overdriving include Column 5, Lines 45  
6 to 55. When they filed their petition, they also  
7 thought Column 5, Lines 45 to 55, were support  
8 for the use of overdriving the control the  
9 transmission rate or to reduce blurring. Now  
10 they've taken a different position.

11 JUDGE MEDLEY: Well, disregarding how they  
12 characterize it, it's your patent.

13 MR. HELGE: Yes, your Honor.

14 JUDGE MEDLEY: What does that mean? It  
15 doesn't say anything about overdriving there at  
16 all.

17 MR. HELGE: In that? In that paragraph,  
18 your Honor?

19 JUDGE MEDLEY: In that paragraph.

20 MR. HELGE: Your Honor, if you -- we can  
21 look at a variety of things. We can look at the  
22 abstract. We can look at the very first  
23 paragraph of the specification which is the field  
24 of invention. We can look at this paragraph.  
25 All of those are summaries. And you're exactly

1 right, they don't say the word overdriving.

2 JUDGE MEDLEY: So the name of the game is  
3 the claim.

4 MR. HELGE: Absolutely, your Honor.

5 JUDGE MEDLEY: Why did you even put  
6 overdriving in your claim?

7 MR. HELGE: Your Honor, unfortunately, I  
8 was not the prosecuting attorney.

9 JUDGE MEDLEY: It's original claim. It was  
10 very broad, and then --

11 MR. HELGE: It is original claim.

12 JUDGE MEDLEY: -- it by itself has written  
13 description for itself. So if you claim  
14 something that broadly, then the specification --  
15 you know, that -- that's part of the  
16 specification. And that would appear to be a  
17 broad scope of what you're claiming and what  
18 you're describing.

19 MR. HELGE: Your Honor, I would agree with  
20 you if it did not say to control the transmission  
21 rate. Again, I think we have to go back and look  
22 at the broadest reasonable interpretation of that  
23 phrase in context of the specification.

24 JUDGE MEDLEY: So there's no other way to  
25 control a transmission rate other than with two

1 overdriven pulses?

2 MR. HELGE: According to the Shen  
3 specification, the detailed description, that's  
4 correct, your Honor. That's the only way they do  
5 it. They do not do it with the application of  
6 two non-overdriven pulses. If we look at the  
7 abstract, for example, Mr. Marentic recited to  
8 that as support that overdriven -- overdriving is  
9 not required. But Mr. Marentic also agreed in  
10 his deposition that abstracts don't have to  
11 include all the details. That's the same thing  
12 with the paragraph occurring at Column 5, Lines  
13 45 to 55.

14 JUDGE MEDLEY: Well, you say in light of  
15 the specification, that's the only way to control  
16 a transmission rate. I'm asking you in general.  
17 Can you control a transmission rate just using  
18 multiple pulses that aren't overdriven?

19 MR. HELGE: Outside of the context of that  
20 claim, your Honor, I would say that you can  
21 change a transmission rate using a variety of  
22 different ways. And even Shen explains in Curve  
23 C1 appearing on Figure 2 that there is a change  
24 in transmission rate without overdriving. But  
25 Shen doesn't characterize that as controlling a

1 transmission rate. Your Honor, in terms of --

2 JUDGE MEDLEY: How do you respond to their  
3 arguments that, you know, there's claim  
4 differentiation here? I think you started to  
5 respond to that, but the fact that overdriven  
6 appears explicitly in Claim 1 and not in Claim 4,  
7 what do we do with that?

8 MR. HELGE: Your Honor, that's actually a  
9 very easy question to answer. The answer is that  
10 claim differentiation is a red herring. Claim  
11 differentiation is about incorporating, in one  
12 example, a dependent claim into an independent  
13 claim or differentiating the scope in that  
14 context. Here, Claim 1 is driven to a driving  
15 circuit. We've got a blur-clear converter which  
16 is a term that appears in the specification.  
17 We've got driving circuitry. There's already  
18 claim differentiation. We don't need overdriving  
19 to make that distinction. I think there's -- if  
20 we were to allow claim differentiation to lead us  
21 down a path that says Claim 4 cannot be  
22 overdriven, the result is we've written out to  
23 control a transmission rate, and it renders that  
24 term superfluous in Claim 4. Petitioners have  
25 not provided a theory except to say that Ham

1 allegedly doubles a transmission rate. So I  
2 believe claim differentiation is a red herring.

3 Now, we have a case from the Federal  
4 Circuit that I'd be happy to hand your Honors if  
5 you like -- I have a copy for opposing counsel,  
6 as well -- on this exact point. May I approach  
7 with this case?

8 JUDGE MEDLEY: Did you brief that?

9 MR. HELGE: I didn't, your Honor. This is  
10 a response to the claim differentiation argument  
11 they've made in the -- the reply.

12 JUDGE MEDLEY: And if you didn't argue this  
13 in your briefs, we don't want to hear it. This  
14 is not the opportunity to raise new arguments.  
15 This is an opportunity to explain to us the  
16 arguments you've already made.

17 MR. HELGE: I understand, your Honor. And  
18 I think that the claim differentiation argument  
19 came first in the reply, so there really was not  
20 an opportunity for briefing on case law that  
21 distinguishes from the case law they've cited in  
22 the reply.

23 JUDGE MEDLEY: Understood.

24 MR. HELGE: Shall I not discuss this, your  
25 Honor?

1 JUDGE MEDLEY: Right, we don't want to hear  
2 that.

3 MR. HELGE: In sum, claim differentiation  
4 is a red herring. There is case law that would  
5 suggest that you can achieve -- and even  
6 Mr. Marentic in his deposition confirmed two  
7 different terms can be used to describe the same  
8 concept.

9 JUDGE SHAW: What about the fact that to  
10 control the transmission also appears in Claim 1,  
11 that language is also in Claim 1?

12 MR. HELGE: That's right, your Honor. And  
13 so it is possible, I think, at the end of the day  
14 that we could come to Claim 1 and say, well,  
15 we're overdriving and controlling a transmission  
16 rate which gets you to the same point. I think  
17 it's okay to be -- it's okay to be overinclusive  
18 in Claim 1 as an alternative to carving out this  
19 claim language in Claim 4. I mean, I think  
20 that's honestly a difference that the Board has  
21 to make. And I think of those two options, the  
22 better choice is to give that term meaning in  
23 Claim 4.

24 Mr. Marentic cited to three exhibit that I  
25 don't want to overlook, Exhibit 1012, 1013, and

1 1014. And these exhibits, he used to show that  
2 transmission rate was a common term and also to  
3 show that people in the art used the term control  
4 with respect to a transmission rate. Now, at  
5 initial stage, there's a question of whether this  
6 art is even relevant. This is prior art. He's  
7 using it to confirm his understanding of a term  
8 rather than what a person of ordinary skill in  
9 the art would understand.

10 In addition, the relevance in -- under the  
11 broadest reasonable interpretation standard is  
12 questionable. Mr. Marentic testified that he did  
13 not search for this art. He was given these  
14 three references from counsel. I have testimony  
15 from him that we've cited to in our motion for  
16 observations on cross-exam that he has no idea  
17 how many results were found; how many results  
18 were discarded; how many results did not support  
19 his interpretation. In other words, he's given  
20 you a piece of evidence without giving you the  
21 entire picture to weigh it.

22 Their burden is preponderance of the  
23 evidence, and they've hidden the other side of  
24 that teeter-totter from you so you cannot gauge  
25 whether, in fact, these three reference are just

1 positive. Now, I would argue to you anyway that  
2 they're not. Exhibit 1,012 is the key reference,  
3 GE. Exhibit 1,012 is directed to a passive  
4 matrix LCD panel. In that passive matrix, the  
5 backlight does not even turn on until the pixels  
6 have reached their target transmission rate. In  
7 other words, where we're talking about  
8 overdriving as an -- is a necessity in order to  
9 change transmission rate from T1 to T2 quickly  
10 click length. Gee doesn't worry about that. The  
11 key -- Gee will not even be admitting a light  
12 during that ramp-up. Gee will only admit light  
13 once you're at that constant state, so Gee isn't  
14 concerned with blurring it's directed to an  
15 entirely different concept, frankly. Exhibit  
16 1013 doesn't use the term controlled transmission  
17 rate. It's not relevant to that meaning of the  
18 term in our claim. Exhibit 1,014 is the Koma  
19 reference, K-O-M-A. Exhibit 1,014 is directed to  
20 active matrix LCD panel like our '843 patent is,  
21 but Exhibit 1014 deals with control of  
22 transmission rate in the context of defining  
23 pixel regions in order to improve a viewing  
24 angle. Koma is not looking at blurring, and  
25 they're not looking at the problem caused by

1 blurring. Does that mean that Koma used it in  
2 exactly the same way as us? Mr. Marentic didn't  
3 evaluate that. In fact, he admitted that he did  
4 not look into any of the prosecution history. He  
5 simply took the terms as they appeared in the  
6 spec and used them in his paragraphs.

7 Now, there's one more reason why Exhibit  
8 1,012 dealing with passive matrix is not  
9 dispositive to this question. Even within --

10 JUDGE MEDLEY: I want to get back to the  
11 Ham reference.

12 MR. HELGE: Yes, your Honor.

13 JUDGE MEDLEY: Ham does discuss blurring as  
14 a problem.

15 MR. HELGE: Yes, you're right.

16 JUDGE MEDLEY: And it seems to me that it  
17 discusses response time.

18 MR. HELGE: Yes.

19 JUDGE MEDLEY: Is response time the same  
20 thing as transmission rate? Seems to me that  
21 they are the same, what they're talking about is  
22 the same.

23 MR. HELGE: I would say, your Honor, that  
24 they are probably in a similar neighborhood. And  
25 I think that response time deals with the X axis,

1 for example. The way Shen describes transmission  
2 rate, he's looking solely at the Y axis, however.  
3 So it's the time, response time is the amount of  
4 time to change in the Y axis. And I think that's  
5 consistent with both the Shen patent and the Ham  
6 patent.

7 JUDGE MEDLEY: So they're both trying to  
8 make the pixel respond faster to avoid the  
9 blurring.

10 MR. HELGE: They are, your Honor, although  
11 they're dealing with it in in different ways.  
12 Ham discourages applying overdriven pulses in  
13 both the subframes. Now, the -- as you know, the  
14 examiner not only allowed Claim 4 over the Ham  
15 reference, but commented on the Ham reference in  
16 the reasons for allowance. And --

17 JUDGE MEDLEY: When I looked at the  
18 prosecution history, it looked like it was a  
19 first action allowance.

20 MR. HELGE: Correct.

21 JUDGE MEDLEY: The examiner just sort of  
22 block-quoted the claim and said that Ham didn't  
23 teach and then block-quoted quite a bit. I don't  
24 know that we can really get a lot from that.

25 MR. HELGE: Your Honor, I will say that I

1 think Ham is -- Paragraph 53 is particularly  
2 relevant to, maybe, what the examiner was  
3 thinking. So as we've said, that -- Mr. Marentic  
4 came in with his Paragraph 93 declaration, came  
5 with a new construction for control transmission  
6 rate. This is in the reply and rebuttal. He  
7 came up with a construction which -- just  
8 applying a voltage. Now, I don't think that's  
9 what the patent examiner interpreted that as.  
10 Controlling a transmission rate is probably more  
11 consistent with what Mr. Lo Cicero said which is  
12 a change from T1 to T2.  
13 If you look at Paragraph 53 which the  
14 examiner quoted in the reasons for allowance,  
15 Paragraph 3 of Ham says that they're reaching the  
16 target transmission rate in the first initial  
17 subframe, and that also shows up in Paragraph 49.  
18 Ham is getting to the target rate in the first  
19 subframe, so there is no controlling or no change  
20 even of transmission rate in the second subframe.  
21 And I think the examiner saw -- we think,  
22 obviously, the examiner had in mind this there  
23 was overdriving just as every embodiment of our  
24 patent talks about overdriving and talks about  
25 controlling transmission rate in the context of

1    overdriving. But I think what the examiner saw  
2    in Ham, if not our reading, at least an  
3    understanding that there had to be some change,  
4    and there wasn't a change in the second subframe.  
5    And in fact, Ham discourages overdriving in both  
6    subframes because it could deteriorate the image,  
7    and that makes perfect sense because Ham is  
8    reaching for that target level in the first  
9    subframe. There's no reason to do it in the  
10   second subframe, according to Ham.

11       That's a clear distinction from ours. We  
12   have -- applying the plurality that your Honor  
13   mentioned earlier, why do we have to do it both?  
14   We have applying the plurality of data impulses  
15   to control the transmission rates. We don't have  
16   apply one to control the transmission rate and  
17   one to maintain the transmission rate. But it  
18   seems that that's how Ham operates, and that  
19   would be different from ours.

20       JUDGE MEDLEY: Well, even if you're  
21   maintaining the transmission rate, aren't you  
22   controlling it, in essence?

23       MR. HELGE: Not according to the '843  
24   patent, your Honor, no. Controlling a  
25   transmission rate is in the context of -- if we

1 were to look at Curve C3 in Figure 6 of the '843  
2 patent, we have -- well, this really goes to, I  
3 think, again, the purpose of Shen and why Shen  
4 wants to apply two overdriven pulses in each  
5 subframe. Shen says if you apply one overdriven  
6 pulse in a subframe, you're not going to get to  
7 the target rate. And we see that even within a  
8 subframe in Figure 6, the first half, we're  
9 applying this overdriven pulse, and we're not  
10 getting there. So in the second subframe, we  
11 needed to apply one more overdriven pulse to get  
12 us to that T2 level, and inconsistent --

13 JUDGE MEDLEY: Seems to me that you're  
14 suggesting that the way that the involved patent  
15 describes controlling a transmission rate, it's  
16 very specific. So it's almost like you're  
17 indicating you might be your own lexicographer on  
18 these terms. Is there anywhere in the  
19 description that says, a controlled  
20 transmission rate means two overdriven pulses,  
21 or more, two or more?

22 MR. HELGE: Your Honor, it's not that  
23 specific, unfortunately. If it were, we probably  
24 could have been done a little bit earlier here.  
25 It's not.

1       If you go to Column 2, Lines 3 to 7, we do  
2   say overdriving means accelerating the response  
3   time. And I apologize; I don't have it quoted  
4   immediately in front of me, but it's accelerating  
5   in order to improve the response time or shorten  
6   the response time. There's an accelerating  
7   process that's occurring. Controlling a  
8   transmission rate is the flip of that. In other  
9   words, in order to control, we're accelerating,  
10   hence overdriving. That comes from our Column 2,  
11   Lines 3 to 7. I think we have to view that, that  
12   interpretation of overdriving throughout as we  
13   read this detailed description where it does  
14   describe controlling a transmission rate in the  
15   context of accelerating.

16       JUDGE MEDLEY: We have about one -- I mean,  
17   five minutes.

18       MR. HELGE: Thank you, your Honor.

19       Your Honor, one point Mr. Lo Cicero  
20   mentioned was about amendments. We did not  
21   amend, and this is not a sidestep of the  
22   amendment process. We're not trying to incorporate  
23   a term that doesn't appear. We're construing.  
24   And I believe that under -- under 37 CFR 42.120,  
25   Patent Owners are entitled to respond to issues

1 in the petition. Their issue in the petition was  
2 that no terms require construction.

3 We've provided our opinion and our expert's  
4 opinion on what this term means. So in the  
5 context of whether this is appropriate, whether  
6 we should be looking at Adachi to see whether  
7 this is appropriate, frankly, as it was admitted,  
8 this is outside the scope. We don't need to look  
9 at that. This is simply a question of what does  
10 this claim mean and has the petition satisfied  
11 its burden to show under their construction,  
12 under our construction, under Mr. Marentic's  
13 third construction, have they shown all elements  
14 of Claim 4, Claim 8, Claim 9. Simply, they  
15 haven't.

16 As your Honor mentioned a moment ago, the  
17 examiner did allow Claims 4, 8, and 9 over Ham  
18 for whatever reason. We think there's a good  
19 reason for it, but the patent owner's now faced  
20 with the very real risk the same agency that  
21 allowed those claims over Ham will take those  
22 claims away in view of Ham, and on what evidence  
23 will that occur? In the petition, a technical  
24 gaffe to say that a data modulator generates data  
25 impulses. A mischaracterization about

1 controlling a transmission rate means doubling a  
2 transmission rate. Those are both dead ends that  
3 even Mr. Marentic refused to travel down.

4 Most of what the petitioners have presented  
5 today, arguments in terms of how these elements  
6 are allegedly met by Ham, comes from the reply.  
7 This has been a late-stage effort to try to  
8 salvage a deficient petition that was prepared  
9 without a true understanding of how Ham operates.  
10 But under these Board's rules and regulations and  
11 statutes, Petitioner has the has burden to carry  
12 the day, to establish invalidity, and this  
13 petition has not done so.

14 If the Board has no further questions, I'll  
15 take a seat.

16 JUDGE MEDLEY: Thank you.

17 MR. HELGE: Thank you, your Honor.

18 MR. LO CICERO: Your Honor, we've heard  
19 Mr. Helge's articulate and experienced testimony  
20 today on several aspects of the prior art of the  
21 Shen patent and so on. Conspicuously absent in  
22 their presentation was any reference to  
23 Mr. Bohannon. Indeed, if you look at the  
24 demonstrative exhibits that were filed with the  
25 Board, he is nowhere. And he is nowhere with

1 good reason. I think the Court should consider  
2 not Mr. Helge's testimony, but, rather, the  
3 evidence.

4 At Slide 42, again, as I said earlier, I  
5 asked Mr. Bohannon if he was offering an opinion  
6 on transmission rate, and he said, No, I'm not  
7 offering an opinion on transmission rate. To the  
8 contrary, Mr. Marentic's declaration, as we said  
9 on Slide 43, says based on correct understanding  
10 of transmission rate. Controlling the  
11 transmission rate merely refers to applying a  
12 particular voltage. And as discussed above, this  
13 is part of the basic tradition of every LCD drive  
14 circuit, irrespective of the type of display or  
15 whether we're not overdriving. Indeed, Mr.  
16 Marentic in his deposition which is Exhibit 2,007  
17 at page 158 said, And it is possible to control  
18 the transmission rate as they did in the prior  
19 art, as they did for at least a decade prior  
20 without overdrive. So Mr. Bohannon's argument  
21 that a non-overdriven scenario did not control  
22 the transmission rate is just false.

23 They -- claims -- let us assume -- m I  
24 don't think it's right, but let us assume that--  
25 the only circuitry, the only description, the

1    only embodiments in the '843 patent have  
2    overdrive. That does not mean that Claim 4  
3    should be limited to overdrive. We're not saying  
4    -- very important. We're not saying that Claim 4  
5    should exclude an overdriven embodiment, not at  
6    all. We're saying it should not limited to it.  
7    And as we said on Slide 33 and as the patent  
8    owner acknowledged, the Board will not read a  
9    particular embodiment appearing in the written  
10   description into the claim if the claim language  
11   is broader than the embodiment citing the Federal  
12   Circuit in re Van Gunz. This board in the K-40  
13   Electronics as we cited on Slide 39, again, say  
14   where the specification describes only a single  
15   embodiment, we do not construe necessarily the  
16   claims as being limited to the embodiment And  
17   finally, also on Slide 39, the Federal Circuit in  
18   the Innova v. Safari Water said that even if a  
19   patent describes only a single embodiment, claims  
20   will not be read restrictively unless the  
21   patentee has demonstrated clear intention to  
22   limit the claim. There is no such clear  
23   intention here.

24        The last thing I want to talk about is this  
25   doubling argument. It's a new argument that

1 Mr. Helge raised. The Board in its scheduling  
2 order said that the patent owner was cautioned  
3 that any arguments for patentability not raised  
4 in the response would be waived. If you look at  
5 the patent owner's response and in particular,  
6 page 40, if you look at Mr. Bohannon's  
7 declaration, in particular, page 15, there is  
8 nothing about this doubling. It is obviously a  
9 mistake in the claim chart. It shouldn't have  
10 said doubling the transmission rate. It should  
11 have said controlling the transmission rate.  
12 They never raised it before. Their expert never  
13 discussed it. No one is prejudiced. It is  
14 simply a last-ditch argument.

15 So, your Honor, I think that -- I hope that  
16 the Board recognizes that overdriving is in the  
17 prior art; that it is not in Claim 4; and that an  
18 attempt to incorporate overdriving into Claim 4  
19 is simply a desperate attempt to overcome the  
20 anticipatory Ham reference.

21 I have nothing further.

22 JUDGE MEDLEY: Thank you. Any questions?

23 JUDGE MOORE: No.

24 JUDGE MEDLEY: Okay. Thank you. We are  
25 adjourned.

Application Numbers 95/000578; 95/000579; 95/001339  
Appeal Number 2015-006849

- 1 (Whereupon, at 10:59 a.m., the hearing was
- 2 adjourned.)