In The Matter Of:

Qualcomm, Inc. v. Bandspeed, Inc.

Dr. Zhi Ding April 15, 2016

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Bandspeed, Inc. EXH. 2006 Patent Owner - Bandspeed, Inc. Petitioner - Qualcomm, Inc. IPR2015-00314

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1	APPEARANCES	1	BE IT REMEMBERED that on Friday, the
2		2	15th day of April, 2016, commencing at the hour
3	Attorneys for Petitioner Qualcomm, Inc.:		of 9:08 a.m. thereof, at the offices of Regus
4	NORTON ROSE FULBRIGHT US LLP		Sacramento, 980 Ninth Street, 16th Floor, Sacramento
5	BY: DANIEL LEVENTHAL, ESQ.		California, before me, ROSE GONI DAVIS, a Certifie
6	1301 McKinney, Suite 5100		Shorthand Reporter of the State of California, there
7	Houston, Texas 77010-3095		personally appeared
8	713.651.5151	8	
9	daniel.leventhal@nortonrosefulbright.com	9	DR. ZHI DING,
10	NODTON DOCK BUT DRICHT HE III	10	
11	NORTON ROSE FULBRIGHT US LLP	11	called as a witness by the Respondent Patent Owne
12	BY: NATHAN REES, ESQ.		Bandspeed, Inc., who, being by me first duly sworr
13	2200 Ross Avenue, Suite 3600 Dallas, Texas 75201-7932		was thereupon examined and interrogated as
14	·		hereinafter set forth.
15	214.855.8000	15	
16	nate.rees@nortonrosefulbright.com	16	EXAMINATION
17	Abbana Garage Banas (Bata Bata (Bata))	17	BY MR. DONAHUE:
	Attorneys for Respondent Patent Owner Bandspeed,	18	Q. Good morning, Dr. Ding. My name is Greg
18	Inc., appearing via telephone:	19	
19	DINOVO PRICE ELLWANGER & HARDY LLP	20	Hardy.
19 20	Dinovo price ellwanger & Hardy LLP BY: GREGORY S. DONAHUE, ESQ.		A. Good morning, Mr. Donahue.
19 20 21	Dinovo PRICE ELLWANGER & HARDY LLP BY: GREGORY S. DONAHUE, ESQ. 7000 North MoPac Expressway, Suite 350	21	· · · · · · · · · · · · · · · · · · ·
19	Dinovo price ellwanger & Hardy LLP BY: GREGORY S. DONAHUE, ESQ.	21 22	A. Good morning, Mr. Donahue.
22	Dinovo PRICE ELLWANGER & HARDY LLP BY: GREGORY S. DONAHUE, ESQ. 7000 North MoPac Expressway, Suite 350	21 22 23	A. Good morning, Mr. Donahue.Q. Hi.



Page 5

1 A. Same here.

2 Q. I'm hoping that this won't take too much

- 3 time today, so I appreciate your cooperation.
- 4 A. Not a problem at all.
- 5 Q. I represent Bandspeed, Inc., in a patent
- 6 litigation matter against, among others, Qualcomm,
- 7 Inc., and also in these IPR proceedings which are
- 8 numbered IPR2015-00314, -00315, -00316 and -00531.
- 9 Do you understand that?
- 10 A. Yes, I do.
- 11 Q. Have you ever been deposed before?
- 12 A. Yes.
- 13 Q. In what type of cases have you been deposed
- 14 before?
- 15 A. In both a class action lawsuit as well as in
- 16 IPR cases.
- MR. LEVENTHAL: Hey, Greg, just to interrupt
- 18 you, can I get my appearance on the record.
- MR. DONAHUE: Absolutely. Sorry. Go ahead.
- MR. LEVENTHAL: Daniel Leventhal for
- 21 Qualcomm, Inc., and with me is Nathan Rees, both of
- 22 Norton Rose Fulbright US.
- BY MR. DONAHUE:
- 24 Q. Dr. Ding, did you say that you had been
- 25 deposed before in conjunction with IPR proceedings?

- 1 it.
- 2 But if at any time you want to take a break
- 3 or need to take a break, just let me know and I will
- 4 attempt to accommodate you. And hopefully -- I would
- 5 appreciate if you can complete any pending answer
- 6 before we take a break. But if at any time you need
- 7 to or want to take a break, please just let me know.
- 8 Don't be shy.
- 9 A. Okay.
- 10 Q. In order to ensure that we maintain a clear
- and accurate record, particularly since I'm appearing
- 12 telephonically, I'll ask that you give verbal answers
- to my questions rather than shaking your head or
- making some sort of hand gestures that I wouldn't be
- able to see and the court reporter would have
- 16 difficulty recording anyway.
- 17 A. Understood.
- 18 Q. I'd also ask that you allow me to finish my
- 19 questions before you begin answering. And I will, of
- 20 course, extend you the same courtesy and try to allow
- 21 you to complete your answer before I ask another
- 22 question.
- 23 A. Yes.
- 24 Q. Does that sound fair?
- 25 A. Yes. Thank you.

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Page 7

- 2 Q. Let me go ahead and just enter the relevant
- deposition notices. There are four of them. They
- 4 are marked as Exhibits 2004 in the four different IPR
- 5 proceedings. I just want to make sure that you put
- 6 them in front of you and make sure you've seen them
- 7 before. When you take a look at them, after you're
- 8 done, just let me know.
- 9 A. Yes.
- All right, yes, I have them. I have seen
- 11 them. I'm sorry.
- **12** Q. Have you seen those documents before?
- 13 A. I have seen the notice for my appearance
- 14 today -- for my appearance to come in here today
- before -- from -- I was given that notice. I got a
- 16 copy of the notice from Daniel yesterday.
- 17 Q. Okay. Do you understand that you're here to18 testify regarding your supplemental declarations that
- testify regarding your supplemental declarations that
- you submitted on March 21st, 2016, in conjunction
- 20 with the four IPR proceedings that I previously
- 21 designated?
- 22 A. Yes. Yes, I do.
- 23 Q. Well, let's just take a couple of minutes to
- 24 go over some basics about depositions. It sounds
- 25 like you've been deposed before, so you probably get

- 1 Q. Are you on any medication today that would
- 2 prevent you from being able to testify truthfully and
- 3 accurately?
- 4 A. No.
- 5 Q. Okay. I'd like to get started with
- 6 IPR2015-00531, which is the '643 Patent IPR.
- A. Okay.
- 8 Q. So if I can introduce Exhibit 1012, which is
- 9 your supplemental declaration for that proceeding.
- 10 If you can get that particular document in front of
- 11 you, and then I'll ask you a few questions.
- 12 A. I have just been handed over that particular
- 13 exhibit, 1012.
- 14 Q. Thank you.
- Well, let's start with if you could open it
- 16 up to paragraph 5.
- 17 A. I'm here.
- 18 Q. In the second sentence of paragraph 5 in
- 19 this declaration, you say:
 - "Nevertheless, even adopting Dr. Melendez's
- definition of one of ordinary skill in the
- art, my previous testimony remains unchanged
- and it is still my opinion that the prior
- art references disclosed in the petition
- render Claims 1 through 15 of the '643



20

Page 9

1 Patent obvious."

2 Do you see that?

з A. Yes.

4 Q. Can you tell me why you say the definition

of a POSITA does not change your opinion whether you

use your definition or Dr. Melendez's definition?

7 A. Yes. The reason -- sorry. Go ahead.

8 Q. Oh. I was just going to say why is that.

9 A. The reason is that I believe these

technologies are fairly simple. And based on both 10

mine and Dr. Melendez's definition of a person of 11

ordinary skill in the relevant art, I still believe 12

and it is my opinion that the prior art reference 13

disclosed in the petition render Claims 1 through 15 14

15 of the '643 Patent obvious. That opinion does not

change. 16

17 Q. So why does it not matter whether the

definition of a person of skill in the art has work

experience in addition to the educational experience 19

that both you and Dr. Melendez indicate in your 20

reports? 21

22 A. I believe I did not say that the experience

wouldn't have mattered. However, it is my opinion

that the technology in question are sufficiently 24

simple that a person of ordinary skill in the art as 25

declaration?

A. That, I have to be frank, I don't recall

whether those exact sentences and the figure were in

Page 11

Page 12

4 my original declaration.

Q. Okay. If they weren't in your original

declaration, do you believe that the quotations and

7 figure from the Bluetooth Spec that are in

paragraph 7 should be considered for the first time 8

here when the Patent Owner and Patent Owner's expert

have no further opportunity to respond? 10

11 MR. LEVENTHAL: Object to the form.

THE WITNESS: The question you're asking is 12

a hypothetical one. If you don't mind, I'll ask the 13

court reporter, Rose, to read the question back to 14

15 me, please.

18

20

7

16 (Record read.)

THE WITNESS: The question I believe is 17

whether it is fair for us to introduce this new

quotation and figure. 19

Is that correct, Mr. Donahue?

MR. DONAHUE: That's correct. 21

THE WITNESS: I believe it is fair for the 22

following reason: Version 1.0B of the Bluetooth 23

Specification I believe was referred to by the expert 24

of the Patent Owner.

Page 10

defined in Dr. Melendez's would have reached the same 1

conclusion as a person of ordinary skill in the art

as defined in my earlier definition.

4 Q. Okay. So a person with an electrical or

computer engineering background, even if they hadn't

worked in the field, would, in your opinion, reach

the same conclusions?

A. That's correct.

9 Q. Okay. Let's move now to paragraph 7 of your

declaration. 10

11 A. Okay.

12 Q. Maybe it would be helpful if you just really

read -- it's a short -- I think most of these

paragraphs are fairly short.

15 A. Yeah.

16 Q. So if you read it, it might help. Then just

let me know when you're done so I can ask you a 17

18 question.

19 A. All right. I appreciate that.

Yes, I have just completed my review of 20

paragraph 7. 21

22 Q. Okay. Do you remember if the Figure 11.3

23 that's referenced in paragraph 7 of your supplemental

declaration and also the quotation in paragraph 7, do

you remember if those were addressed in your original

With regard to that particular fact, I

believe the Patent Owner had ample opportunity to 2

examine the Version 1.0B of the Bluetooth 3

4 Specification because they were given that

opportunity and they were also aware of the relevance 5

6 with respect to this particular case.

BY MR. DONAHUE:

Q. Okay. If you thought that Haartsen was

9 insufficient for purposes of showing registers in

your original declaration, why didn't you introduce 10

the Bluetooth Specification and apply it as a 11

reference at the outset? 12

MR. LEVENTHAL: Object. Mischaracterizes 13

14

THE WITNESS: To answer why -- Mr. Donahue, 15

I'm going to ask you why this particular quote and 16

figure were not introduced, if they were not 17

introduced, were not mentioned in the beginning, if 18

they were not mentioned in the first original 19

deposition, right, hypothetically. 20

And the reason as I sit here today is 21

because, in my view, it was fairly obvious for a 22

23 person of ordinary skill in the art reviewing

Haartsen to have understood that, you know, a 24

register is a commonly used device to store data and



Page 13

instructions. And I did not believe early on it was

- even necessary to point that out. 2
- And to the extent that the Patent Owner 3
- 4 disputes that fact, then I feel it's important for me
- to point out that in light of the fact that the 5
- Patent Owner and their own expert refused to face the
- fact, I'd like to point out the fact to them more 7
- explicitly. 8
- 9 So that's my answer.
- BY MR. DONAHUE: 10
- 11 Q. Do you see -- did you see tables mentioned
- 12 in the section of the Bluetooth Specification in
- conjunction with the use of registers that you are 13
- discussing, in effect, in paragraph 7?
- A. Tables as in tables of data? 15
- 16 Q. Yes. Tables that would be stored in memory,
- do you see that also in the Bluetooth Specification 17
- in the section that you were referring to in
- paragraph 7? 19
- 20 A. Frankly, I don't recall. It is a very
- 21 long -- as you know, it took three big binders. It's
- a very long standard. If you need to, I can review 22
- the standard to identify whether there are tables
- mentioned in that particular standard or in the 24
- particular section that we're discussing.

- page do you say you saw the tables on?
- A. It's two pages forward, in the same section,
- 11.2. There are two additional -- on page 113 --
- sorry, 131. Pardon me.
- Q. Okay. What are the tables being used for in
- the section that you're referring to?
- A. The title of the Table 11.2 is "control of
- the butterflies for the 79 hop system."
- Q. Okay. Maybe we can streamline this, then.
- Let me ask you, in Figure 11.3 in your 10
- supplemental declaration that you have there on 11
- 12 paragraph 7, where are the registers shown in that
- figure being loaded from? 13
- A. I believe your question is where are the
- content of the register in Figure 11.3 loaded from,
- correct? 16
- Q. Correct. That's correct. 17
- A. I do not wish to speculate. But focusing
- only on Figure 11.3, this figure does not point out
- where the content of the registers would be loaded 20
- 21 from.
- Q. So in paragraph 7 there is a quotation in 22
- your supplemental declaration, and it's from the
- Bluetooth Spec. And it says: 24
- "The registers are loaded with the 25

- synthesizer code words corresponding with
 - the hop frequencies 0 to 78." 2
 - Do you see that? 3
 - 4 A. Yes.

1

- Q. Is it your opinion that it doesn't say --
- doesn't give any details about where the registers --
- where the information being put in the registers are
- being loaded from? Is that correct?
- A. It's loaded -- the content is loaded -- the
- contents are the synthesizer code words corresponding 10
- to the frequency. I do not believe that this
- particular figure shows from which memory or
- additional memory device or whatever computation
- device that these contents are acquired from.
- Q. Would you agree with me that it does not
- show the registers being loaded from tables in
- 17 memory?
- A. It does not show. I agree. It does not 18
- 19
- 20 Q. Okay. Is there any discussion in the
- Bluetooth Specification that you referred to in 21
- paragraph 7 about a selection kernel addressing a bad 22
- 23 channel stored in a register and then replacing by
- the selection kernel the bad channel stored in the
- register with a good channel from a different good

- Page 14
- 1 Q. Okay. Why don't we do that, then. I think
- it's Exhibit 1011 of IPR2015-00531, the Bluetooth Spec. And I think in paragraph 7 you are referring
- to -- it looks like maybe it's page 129 of that.
- 5 A. Uh-huh, okay.
- MR. LEVENTHAL: Greg, I'm just putting the
- volume with page 129 in front of him, if that's okay 7
- with you. 8
- 9 MR. DONAHUE: Yeah, that's fine.
- THE WITNESS: All right. To answer your 10
- question, Mr. Donahue, do I see tables mentioned in
- Section 11.2 of Exhibit 1011, I do see them. I do 12
- see tables mentioned in this section. 13
- BY MR. DONAHUE: 14
- 15 Q. Okay. Can you tell me where you see it? Is
- it on page 129?
- 17 A. No. I see them mentioned as Table 11.1 and
- Table 11.2 on page 131 of Section 11.2.
- 19 Q. Okay. Well, let me scroll there too. Just give me a minute.
- 21 A. Yes.
- 22 Q. Sorry, just give me a minute. My computer
- is letting me down here.
- 24 A. That's quite all right.
- 25 Q. Okay, I'm finally in the document. So what



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