UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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KINGSTON TECHNOLOGY COMPANY, INC.,

Petitioner

V.

POLARIS INNOVATIONS LTD.,

Patent Owner

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Case IPR2016-01623

Patent 7,315,454

DEPOSITION OF PROF. JOSEPH B. BERNSTEIN

JUNE 29, 2017

LOS ANGELES, CALIFORNIA

Reported by:

Paula A. Pyburn

Job no. 19114



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1	DEPOSITION OF PROF. JOSEPH B. BERNSTEIN, taken	1	INDEX
2	at 1880 Century Park East, Suite 815, Los Angeles,	2	
3	California, on Thursday, June 29, 2017, at 9:04 a.m.,	3	WITNESS: PROF. JOSEPH B. BERNSTEIN
4	before Paula A. Pyburn, RPR, CLR, Certified Shorthand	4	EXAMINATION PAGE
5	Reporter, in and for the State of California.	5	BY MR. HOFFMAN: 6
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	APPEARANCES: FOR PETITIONER: FISH & RICHARDSON BY: DAVID M. HOFFMAN, ESQ. BY: KENNETH J. HOOVER, ESQ. One Congress Plaza 111 Congress Avenue, Suite 810 Austin, Texas 78701 (512) 226-8154 hoffman@fr.com hoover@fr.com  FOR PATENT OWNER:  LOWENSTEIN & WEATHERWAX LLP BY: NATHAN LOWENSTEIN, ESQ. BY: SHAWN CHI, ESQ. 1880 Century Park East, Suite 815 Los Angeles, California 90067 310.307.4500 lowenstein@lowensteinweatherwax.com chi@lowensteinweatherwax.com  ALSO PRESENT: Claire Krebs, Fish & Richardson Summer Associate	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	INDEX TO EXHIBITS  EXHIBITS MARKED  Exhibit 1016 Nikhilon Website Printout 74  Exhibit 1017 Handwritten Diagram 130  Exhibit 1018 Document with Kingston Model 143  KVR16R11D4/16 Photo with  Handwritten Notations  Exhibit 1019 Excerpt from the book "Ceramic 147  Tile Setting," by John P. Bridge  Exhibit 1020 Handwritten Diagram 151
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2 (Pages 2 to 5)



3 (Pages 6 to 9)



Page 12 Page 10 1 1 my signature. read): 2 2 Q So just to summarize, you would prepare some -- the time of the effective filing 3 notes on your thoughts; you'd send those to your 3 date of the original foreign 4 counsel; they would put those into a draft, adding the 4 application from which the '454 patent 5 legal sections. 5 issued. 6 6 And then there would be a iterative process That's October 31st, 2005. 7 7 back and forth between you and counsel until you arrived And (as read): 8 at the final draft that was submitted. Is that fair? 8 In assessing the level of skill of 9 9 A That's fair. a person of ordinary skill in the art, 10 10 Q I know yesterday you had made some corrections I have considered the type of problems 11 to your declaration. At least one of them I think would 11 encountered in the art, the prior 12 12 apply again. solutions to those problems found in Do you want to provide some corrections? 13 13 the prior art references, the rapidity 14 A Oh, there is the one on the CV. 14 at which innovations are made, the 15 Q If you don't want to, that's fine. I just want 15 sophistication of the technology, the 16 16 to give you the opportunity. level of education of active workers in 17 A We did over there. It's just -- again, for 17 the field, and my own experience 18 someone who doesn't like to see improper grammar, if 18 working with those of skill in the art 19 it's -- that says "Professor's Bernstein's expertise 19 at the time of the invention. 20 lie," should be "areas of expertise" or "expertises." 20 Q Okay. And, again -- we talked about this 21 So, again, that's -- we can just leave it the way it is 21 yesterday, but just to make sure this transcript is 22 22 for now, because I think you already have it on that clean, when I ask you to read something, you are welcome 23 document. Or change it. 23 to read it out loud if you prefer. 24 24 But I did not go through this document prior to But unless I expressly ask you to read it out 25 today, like I did over there, to know all the cases. So 25 loud, I'm not asking you to read it out loud. So you Page 11 Page 13 1 1 there are probably several -- I think when I was reading can choose to read it to yourself if you prefer. 2 2 over one to one, I did see a split infinitive, which A I'm preferring to read it out loud only because 3 3 troubled me, but I didn't make a note to where it was. under -- there is a little bit of, you know -- let's say 4 So I think it will still be legally understood. 4 a anxiety-provoking atmosphere, and it's very difficult 5 5 Q If you see anything during the course of the for me to concentrate properly by reading to myself. 6 6 testimony today that you think is an error, needs to be Q That's fine. Like I said, if you prefer to 7 7 corrected, you'll let us know? read it out loud, I have no problem with that. I just 8 8 A That's a good idea. I can do that. don't want you to think I'm telling you or asking you to 9 9 Q Okay. Thank you. do that. 10 Let's turn to paragraph 25 of your 10 A Okav. 11 11 declaration -- actually even 24. And if you want, you Q So can you describe for me what process you 12 can take a look at 24 and 25. I'm going to ask you 12 used to determine the level of ordinary skill in the art 13 13 about those. of the '454 patent? 14 14 A I believe we say that, at least in the next A (As read): 15 My opinions in this declaration, 15 paragraph, where I substantially agree with 16 Dr. Subramanian and his position from his doc 16 include [verbatim] opinions on validity 17 17 and claim construction, are based on declaration, that (as read): 18 18 A person of ordinary skill in the the understandings of a person of 19 19 ordinary skill in the art (which I relevant art at the time of the 20 understand is sometimes referred to as 20 invention would be a person with a 21 a POSITA or PHOSITA) the time of the 21 B.S. -- that's only a bachelor's 22 effective filing" -- "at" -- I guess 22 degree -- in electrical engineering and 23 23 that's missing -- I would say "at the approximately two years of industrial

4 (Pages 10 to 13)

[verbatim] experience in the field of

semiconductor memory design.



time."

Is that right? Oh. "At," da, da, da (as

24

25

24

25

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Q So I just want to clarify.
I mean, did you do your o

I mean, did you do your own analysis here, or did you just accept what Dr. Subramanian said?

A I accepted that as a standard under the counsel of the counsel.

Q So you didn't perform your own determination on what the level of ordinary skill in the art would be?

A I was just following the instructions of -because I'm not a lawyer and I have no understanding of a legal meaning of "a person of ordinary skill." I mean, I could only -- we can only guess based on inappropriate standards.

So of course I'm depending on people with a legal expertise to know what is the legal definition of a person of ordinary skill.

Q So your level of ordinary skill in the art, you just accepted that counsel told you that was the proper level of ordinary skill in the art?

MR. LOWENSTEIN: Objection. Form.

THE WITNESS: Can you ask the question again? BY MR. HOFFMAN:

Q Yeah. I'm just trying to clarify what you just -- what you just told me.

So you were told the level of ordinary skill in the art from counsel, and you applied the level that you of experience?

MR. LOWENSTEIN: Objection. Form. Objection. Calls for a legal conclusion.

THE WITNESS: I only said I agree substantially with Subramanian. And I had seen the Subramanian document; he came up with a statement; and I said, "Okay, I agree." There's not much more to say about that.

#### BY MR. HOFFMAN:

Q Again -- and I'm not trying to be tricky here, sir. I'm just trying to figure out, there's -- you know, there are certain things that you accept as something you're being told to apply, the law, for example. And there are some things that you determine on your own.

And I'm just trying to figure out the level of ordinary skill in the art that you've agreed with here, a bachelor's in electrical engineering and approximately two years of experience, is that something that you made an independent determination of, or is that something that you were told to apply in this case?

MR. LOWENSTEIN: Objection. Form. Asked and answered. Calls for a legal conclusion.

THE WITNESS: I think I answered what you said. I didn't -- I don't have a -- this is not a term I

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were provided --

MR. LOWENSTEIN: Objection -- BY MR. HOFFMAN:

Q -- by counsel?

MR. LOWENSTEIN: Sorry. Objection. Form. THE WITNESS: I didn't ask. I only -- I was

instructed that I should apply the level of skill in the art that they felt was appropriate for this case, and this is the level of skill that I considered for myself.

Because even the term "POSITA" -- you know, these are all terms that come up in legal aspects; they're not scientific terms. My background is, I would say, entirely scientific, and these are not terms -- even the word "ordinary skill in the art" is not at all a scientific term. They have no other meaning to me other than what I am instructed that they mean by the counsel who hired me to -- indirectly through the client, of course -- who hired me to ask me to form an opinion based on what they told me to do.

And I hope, with all modesty, I did my job properly.

BY MR. HOFFMAN:

Q So you were instructed on the level of ordinary skill to apply in this case, namely a electrical engineering degree and two to five years -- or two years

learned -- there's no textbook that I have ever read -- this is not a scientific terminology.

I would have no idea what it means, "a person of ordinary skill in the art," if I was not instructed what that word -- what that phrase means.

It means nothing to me outside of what I'm told that it means, and I was asked to apply a standard like this.

Can it -- is it possible to completely apply, you know, any perfect standard? I mean, we're talking about a hypothetical person. Are we talking about one hypothetical person? Are we talking about a hypothetical team?

I don't know anything other than what I can do based on the instructions that I had.

BY MR. HOFFMAN:

Q Okay. The person of ordinary skill in the art that you used for your analysis, did you assume that that person knew all the prior art?

MR. LOWENSTEIN: Objection. Form.

THE WITNESS: I think if you were to take someone with a bachelor of science who has no more than really two years of practical, let's say, true engineering courses and only two or three years of industrial experience, it would be really hard to assume

5 (Pages 14 to 17)



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