			Page 1
1	UNITED STATES PATENT AND TRADEMARK OF	FFICE	
2	BEFORE THE PATENT TRIAL AND APPEAL BO	DARD	
3	Patent No. 6,724,403		
4			
5	-	_	
6	MICROSOFT CORPORATION,)	
7	Petitioner)	
8	v.)	
9	SURFCAST, INC.,)	
10	Patent Owner)	
11)	
12			
13			
14			
15			
16	DEPOSITION OF DAVID R. KARGER		
17	Washington, D.C.		
18	January 14, 2014		
19			
20			
21			
22			
23			
24	Reported by: Mary Ann Payonk		
25	Job No. 69647		

		Page	2
1			- 1
2			- 1
3			- 1
4			- 1
5	January 14, 2014		- 1
6	10:08 a.m.		- 1
7			- 1
8	Deposition of DAVID R. KARGER, held at		- 1
9	the law offices of Sidley Austin, 1501 K		- 1
10	Street, N.W., Washington, D.C., pursuant to		- 1
11	Notice before Mary Ann Payonk, Nationally		- 1
12	Certified Realtime Reporter and notary public		- 1
13	of the District of Columbia.		- 1
14			- 1
15			- 1
16			- 1
17			- 1
18			- 1
19			- 1
20			- 1
21			- 1
22			- 1
23			
24			
25			

		Page 3
1	APPEARANCES:	
2	ON BEHALF OF SURFCAST:	
3	JAMES HEINTZ, ESQUIRE	
4	DLA Piper	
5	500 Eighth Street, NW	
б	Washington, DC 20004	
7		
8		
9	RICHARD BONE, Ph.D., Partner	
10	VLP LAW GROUP	
11	2225 East Bayshore Road	
12	Palo Alto, CA 94303	
13		
14	ON BEHALF OF MICROSOFT:	
15	JOSEPH MICALLEF, ESQUIRE	
16	WONJOO SUH, ESQUIRE	
17	SIDLEY AUSTIN	
18	1501 K Street, N.W.	
19	Washington, D.C. 20005	
20		
21	ALSO PRESENT:	
22	Jasmin Rice, videographer	
23	Stacy Quan, Assistant General Counsel	
24	Microsoft Corporation	
25		
ĺ		

- 1 D. Karger
- 2 THE VIDEOGRAPHER: This is the
- 3 start of videotape labeled number 1 in
- 4 the videotaped deposition of Dr. David
- 5 Karger taken in the matter of Microsoft
- 6 Corporation versus SurfCast, in the
- 7 United States Patent and Trade Office
- 8 before the Patent Trial and Appeal
- 9 Board, Patent Numbers 6724 and 403
- 10 [sic].
- 11 Today's date is January 14, 2014
- 12 and the time is approximately 9 --
- 13 10:08 a.m. My name is Jasmin Rice from
- 14 TSG Reporting, Inc. I'm the legal
- 15 videographer.
- 16 The court reporter is Mary Ann
- 17 Payonk, in association with TSG.
- 18 Will counsel please introduce
- 19 themselves for the record.
- 20 (Whereupon, counsel placed their
- 21 appearances on the video record.)
- 22 THE VIDEOGRAPHER: Will the court
- 23 reporter please swear in the witness?

24

25

- 1 D. Karger
- 2 DAVID R. KARGER,
- 3 called as a witness, having been
- 4 affirmed, was examined and testified
- 5 as follows:
- 6 EXAMINATION
- 7 BY MR. HEINTZ:
- 8 Q. Good morning, Dr. Karger.
- 9 A. Good morning.
- 10 Q. Sir, have you been deposed before?
- 11 A. Not in federal court.
- 12 Q. Okay. Where were you deposed?
- 13 A. There was a state case in Florida
- 14 many, many years ago.
- 15 Q. Okay. So I'm going to go over a
- 16 couple of ground rules for the deposition just
- 17 to help us out. So probably the most important
- 18 rule is that we -- you answer your questions as
- 19 asked of you in -- with English words such as
- 20 "yes" and "no" rather than "uh-huh" or
- 21 "huh-uh," as the court reporter has to take
- 22 that down. Will you remember to do that?
- 23 A. Yes.
- Q. The second most important rule is
- 25 that we not speak over each other. So I'll

- 1 D. Karger
- 2 finish my question, I'll ask you to wait until
- 3 my question's over, then you'll begin your
- 4 answer, and I'll wait until your answer is
- 5 finished before asking the next question. Is
- 6 that all right?
- 7 A. Yes.
- 8 Q. Okay. Also, if I ask you a question
- 9 and you answer it, I'll assume you understand
- 10 it. If you don't understand it, will you
- 11 please ask me to rephrase it or clarify it?
- 12 A. Okay.
- 13 Q. All right. Sir, are you taking any
- 14 medications that would prevent you from giving
- 15 truthful testimony here today?
- 16 A. No.
- 17 Q. Are you suffering from any physical
- 18 ailments that might prevent you from finishing
- 19 the deposition here today?
- 20 A. No.
- Q. Sir, you're here pursuant to a notice
- 22 of deposition that was served on counsel; is
- 23 that correct?
- A. Correct.
- 25 Q. All right. You have submitted a

- 1 D. Karger
- 2 declaration in the IPR involving the
- 3 U.S. Patent Number 6,724,403; correct?
- 4 A. Correct.
- 5 Q. All right. I'll refer to the patent
- 6 6,724,403 as the '403 patent for short. Is
- 7 that all right?
- 8 A. That's fine.
- 9 MR. HEINTZ: I've had premarked and
- 10 I'll hand to the witness Exhibit 1003,
- 11 which is the declaration of David Karger
- regarding U.S. Patent Number 6,724,403,
- and we will maintain the exhibit numbers
- 14 from the inter partes review proceeding
- 15 unless otherwise mentioned. And I'll
- 16 hand you this folder to keep it
- 17 together. Counsel?
- 18 MR. MICALLEF: Thank you.
- 19 BY MR. HEINTZ:
- Q. Sir, I'll ask you if you recognize
- 21 Exhibit 1003.
- 22 A. Yes, I do.
- 23 Q. And is that the declaration you
- 24 submitted in the IPR proceeding involving the
- 25 '403 patent?

- 1 D. Karger
- 2 A. Yes, it is.
- Q. All right. I'll ask you to turn to
- 4 page 6 of Exhibit 1003.
- 5 A. All right.
- 6 Q. Sir, I'll direct your attention to
- 7 paragraph 24, and in particular, the third
- 8 sentence in that paragraph, which reads, "If a
- 9 person of ordinary skill can implement a
- 10 predictable variation, that variation would
- 11 have been considered obvious."
- 12 Do you see that?
- 13 A. Yes, I do.
- 14 Q. Okay. Now, if you need time to
- 15 review that paragraph, please do so in order to
- 16 answer this next question.
- 17 Does this statement mean that as long
- 18 as a person of ordinary skill can implement a
- 19 predictable variation, that predictable
- 20 variation is obvious --
- 21 MR. MICALLEF: Object to --
- 22 Q. -- in the absence of any further
- 23 factors?
- MR. MICALLEF: Object to form,
- 25 foundation.

- 1 D. Karger
- 2 A. Can you restate the question?
- 3 Q. Sure. Paragraph 24 is a -- one of
- 4 the paragraphs from your declaration; correct?
- 5 A. Yes.
- 6 Q. I'm going to direct your attention to
- 7 the third sentence, which reads, "If a person
- 8 of ordinary skill can implement a predictable
- 9 variation, that variation would have been
- 10 considered obvious."
- 11 Do you see that?
- 12 A. Yes, I do.
- Q. Okay. Does that mean that so long as
- 14 a person of ordinary skill has the ability to
- 15 implement a predictable variation, that such a
- 16 variation is obvious without regard to any
- 17 other factors?
- 18 MR. MICALLEF: Same objections.
- 19 A. So it sounds like you're asking
- 20 whether the word "can" means "has the ability
- 21 to." That's the only change in the wording
- 22 that you've made in the sentence.
- Q. Okay. With that understanding, would
- 24 you please answer the question?
- MR. MICALLEF: Same objections.

- 1 D. Karger
- 2 A. If you're asking if the word "can"
- 3 means "has the ability to," then I would have
- 4 to say the answer is yes.
- 5 Q. All right. Sir, I'll direct your
- 6 attention to paragraph 27 of your declaration,
- 7 which is page 7 of Exhibit 1003. You see on
- 8 the third line you're referring to the case of
- 9 KSR International Company v. Teleflex, Inc.?
- 10 A. Yes, I do.
- 11 Q. Have you read that case, sir?
- 12 A. Yes, I have.
- 13 Q. Okay. There's a part in that case
- 14 that discusses the notion that the teaching
- 15 suggestion or motivation to combine tests,
- 16 which is mentioned on the fourth and fifth
- 17 lines of that paragraph, captures a helpful
- 18 insight. I notice you didn't include that
- 19 statement in paragraph 27. Why was that?
- MR. MICALLEF: Object to form.
- 21 A. Do you have a copy of the KSR --
- 22 Q. I don't.
- 23 A. -- patent?
- Q. The patent?
- 25 A. Sorry. The KSR case.

- 1 D. Karger
- Q. Yeah, I don't have it with me now.
- 3 A. You don't have it with you? So I
- 4 can't say that I remember all the details of
- 5 that document, so I don't -- if you want to
- 6 restate your question, I can take a stab at it,
- 7 but without actually looking at the document,
- 8 my ability to answer will be limited.
- 9 Q. Did you decide which portions of the
- 10 case would be discussed in this declaration?
- 11 MR. MICALLEF: Object to form. And
- 12 I'm going to caution you not to disclose
- 13 communications with your -- with the
- 14 attorneys in your answer.
- 15 A. Okay. Sorry. Restate the question.
- 16 Q. Sure. Did you decide which portions
- 17 of the KSR case would be discussed in this
- 18 paragraph 27?
- 19 A. I did not choose the exact wording of
- 20 this paragraph. This reflects an interaction
- 21 with counsel to decide what should be said
- 22 about this KSR case at this point in the
- 23 document. However, I did read and it's
- 24 consistent with my own desire to articulate
- 25 what I know about the KSR case.

- 1 D. Karger
- Q. When you say you didn't choose the
- 3 exact wording, does that mean you had some
- 4 other input into the contents in paragraph 27?
- 5 A. Oh, well, I certainly -- I had
- 6 authorial control over the contents of the
- 7 paragraph.
- Q. Do you recall the notion discussed in
- 9 the KSR case that most if not all inventions
- 10 are combinations of existing elements?
- 11 MR. MICALLEF: Object to form, lack
- of foundation.
- 13 A. Yes, I do.
- 14 Q. Okay. Feel free to look, but I
- 15 didn't see a discussion of that principle in
- 16 your discussion of KSR in your declaration.
- 17 And my question is, why is that?
- 18 MR. MICALLEF: Object to form, lack
- of foundation, irrelevant.
- 20 A. All right. Now that I've refreshed
- 21 my memory, can you restate the question?
- 22 Q. Yes. I'll represent to you that
- there's a discussion in KSR along the lines
- 24 that most, if not all, inventions are
- 25 combinations of known elements. And my

- 1 D. Karger
- 2 question to you is, why is that not discussed
- 3 in your report?
- 4 MR. MICALLEF: Object to form, lack
- 5 of foundation.
- 6 A. It's an interesting question. KSR is
- 7 many pages long and there are many things that
- 8 are not brought into this report simply for
- 9 reasons of space. This report certainly does
- 10 discuss the issues of combination, of
- 11 motivation to combine, of the fact that there
- 12 can be many reasons to combine even if the
- 13 elements are not being targeted to solve the
- 14 same problem.
- I believe that we've covered the --
- 16 sort of most important and relevant bits of the
- 17 case here in the expert report, and at a
- 18 certain point, had to stop.
- 19 Q. Okay. So I'll ask you to turn your
- 20 attention to page 16 of your report, and in
- 21 particular, paragraph 54.
- 22 A. All right.
- Q. All right. So in paragraph 54, your
- 24 report states that a person of ordinary skill
- in the subject matter of the '403 patent would

- 1 D. Karger
- 2 have had at least a master's degree in software
- 3 engineering or computer science or equivalent
- 4 experience working in industry, and several
- 5 years of experience designing, writing, or
- 6 implementing software products either at the
- 7 application or operating system level. Is that
- 8 correct?
- 9 A. That's correct.
- 10 Q. Okay. Do you stand by that testimony
- 11 here today?
- 12 A. Yes, I do.
- 13 O. Sir, to the best of your
- 14 understanding, is a person of ordinary skill in
- 15 the art a person of average skill in the art?
- 16 A. Average has a mathematical meaning.
- 17 Is that what you're asking?
- 18 Q. Yes, a mathematical average.
- 19 MR. MICALLEF: Object to form,
- then.
- 21 A. I'm not sure how to assign a number
- 22 to a skill level. So in my understanding,
- 23 ordinary skill is actually something of a
- 24 technical term describing a certain level of
- 25 skill that is to be expected of people when we

- 1 D. Karger
- 2 are trying to understand what is -- what should
- 3 be taken as obvious in patents. And I'm not
- 4 sure whether that ordinary skill is required to
- 5 correspond to average or is determined by some
- 6 other mechanism.
- 7 The reason -- what this paragraph
- 8 reflects is my understanding of what a person
- 9 of ordinary skill in the art is taken to be in
- 10 this context of computer science and software
- 11 engineering. I can't really tell you the --
- more broadly whether "ordinary" corresponds to
- 13 "average" as a legal concept.
- Q. The art you're talking about then is
- 15 software engineering or computer science; is
- 16 that correct?
- 17 A. Correct.
- 18 Q. Okay. That's the subject matter of
- 19 the '403 patent?
- 20 A. Correct.
- Q. Would you say in that field that more
- 22 than half or less than half of the people had
- 23 master's degrees? And by "the people," I mean
- 24 people working in that field.
- 25 A. This would be pure speculation. I

- 1 D. Karger
- 2 don't have any hard data, but I would suspect
- 3 that less than half had master's degrees.
- 4 Q. So then your definition -- okay, let
- 5 me retract that for a second.
- 6 Now, as an alternative to a master's
- 7 degree in your definition, you also talk about
- 8 "or equivalent experience working in industry."
- 9 Correct?
- 10 A. Correct.
- 11 Q. And that would be an equivalent to a
- 12 master's degree in your definition in paragraph
- 13 54. And then you say "and several years of
- 14 experience."
- 15 So if I understand this construction
- 16 correctly, if someone didn't have a master's
- 17 degree, in order to be one of ordinary skill in
- 18 the art, that person would need several years
- 19 of experience to be equivalent to a master's
- 20 degree, and then several more years of
- 21 experience in designing, writing, or
- 22 implementing software products. Is that
- 23 correct?
- MR. MICALLEF: Object to form.
- 25 A. So are you asking whether a person

- 1 D. Karger
- 2 who does not have a master's degree would have
- 3 had to work more years in order to qualify as a
- 4 person of ordinary skill in the art?
- 5 Q. In your opinion, as represented in
- 6 paragraph 54, correct.
- 7 MR. MICALLEF: Object to form.
- 8 A. Given that we're using -- given that
- 9 we haven't quantified the number of years that
- 10 "several" is, I would say that, yes, somebody
- 11 who has not earned a master's degree, I would
- 12 want to see more experience on their resume
- 13 before I considered them to be as skilled as
- 14 somebody who came in with a master's degree and
- 15 then worked for several years.
- 16 Q. Okay. If one has a master's degree
- in computer science or software engineering,
- 18 then in your opinion, how many more years of
- 19 experience designing, writing, or implementing
- 20 software products is necessary before that
- 21 person qualifies as one of ordinary skill in
- 22 the art?
- 23 MR. MICALLEF: Object to form.
- 24 A. I would suspect that three or four is
- 25 about right.

- 1 D. Karger
- Q. Okay. So someone with a master's
- 3 degree in software engineering or computer
- 4 science plus three or four years of experience
- 5 designing, writing, or implementing software
- 6 products is what one of ordinary skill in the
- 7 art means with respect to a person who has a
- 8 master's degree; correct?
- 9 MR. MICALLEF: Object to form.
- 10 A. Well, recall that a -- that some of
- 11 these years of experience may have happened
- 12 during the writing of the master's degree. I'm
- 13 not saying that they must be appended
- 14 afterwards, but yes, I would think that three
- 15 or four years is necessary to season -- to
- 16 season someone.
- 17 O. How about someone with a bachelor's
- 18 degree, sir, in computer science or software
- 19 engineering? How many years of experience in
- 20 addition to the bachelor's degree does that
- 21 person need to become one of ordinary skill in
- 22 the art, in your opinion?
- 23 MR. MICALLEF: Object to form.
- A. Well, with the understanding that
- 25 this is highly variable by person, I would

- 1 D. Karger
- 2 venture that probably five or six years would
- 3 suffice to give somebody a general sense of --
- 4 of the field.
- 5 Q. Is it possible for somebody without a
- 6 bachelor's degree to be of ordinary skill in
- 7 the art in the field?
- 8 A. Certainly.
- 9 Q. And how many total years of
- 10 experience in your opinion would it take for
- 11 that person to qualify as one of ordinary skill
- 12 in the art?
- 13 MR. MICALLEF: Object to form.
- 14 A. I think that's a relatively unusual
- 15 person. It's hard for me to judge. That would
- 16 probably be on a case-by-case basis.
- 17 Q. There are quite a few people in the
- 18 field who don't have bachelor's degrees,
- 19 though, are there not?
- 20 MR. MICALLEF: Object to form, lack
- of foundation.
- 22 A. I would venture that most of them
- 23 have bachelor's degrees in something. It may
- 24 not be in computer science.
- Q. Do you know if Mr. Gates, Mr. Bill

- 1 D. Karger
- 2 Gates, the --
- 3 A. Absolutely, same -- same institution,
- 4 the same teachers, yes.
- 5 Q. Does he have a bachelor's degree?
- 6 A. No, he does not.
- 7 Q. Are you familiar with the name Mark
- 8 Zuckerberg?
- 9 A. Yes.
- 10 Q. Same institution, I believe.
- 11 A. Yes.
- 12 Q. Does he have a bachelor's degree?
- 13 A. Huh-uh.
- 14 Q. Okay. Who did you consult in order
- 15 to form your opinion as to what one of ordinary
- 16 skill in the art is?
- 17 A. My understanding of ordinary skill in
- 18 the art drew from -- from previous counsel.
- 19 Q. Let the record indicate that you're
- 20 indicating Mr. Micallef there. Is that
- 21 correct?
- 22 A. That's correct.
- Q. So Mr. Micallef told you what one of
- 24 ordinary skill in the art is?
- 25 A. That's --

- 1 D. Karger
- 2 MR. MICALLEF: Object to form,
- 3 object to the extent it calls for
- 4 attorney-client communications. That's
- 5 privileged. You're not entitled to get
- 6 discovery of communications with
- 7 counsel.
- 8 MR. HEINTZ: It's not
- 9 attorney-client, but I understand your
- 10 objection.
- 11 MR. MICALLEF: Instruct him not to
- 12 answer that one.
- MR. HEINTZ: All right.
- 14 BY MR. HEINTZ:
- 15 Q. Other than what you may or may not
- 16 have discussed with Mr. Micallef, did you do
- 17 any further research into what one of ordinary
- 18 skill in the art is in order to form your
- 19 opinion as expressed in paragraph 54?
- 20 A. I believe that some of my
- 21 understanding drew from the KSR document,
- 22 although I can't say without reviewing it in
- 23 order to verify. But aside from the KSR
- 24 document and my communications with counsel,
- 25 no, there were no other sources of information.

- 1 D. Karger
- 2 Q. Do you have any understanding of what
- 3 the average experience level is of the
- 4 employees at Microsoft who work on Windows 8?
- 5 MR. MICALLEF: Object to form,
- 6 foundation.
- 7 A. What do you mean by "understanding"?
- 8 I certainly have no data.
- 9 Q. Okay. Do you have any other basis --
- 10 MR. MICALLEF: Object.
- 11 Q. -- for an understanding of what that
- 12 average experience level may be?
- MR. MICALLEF: Object to form, lack
- of foundation.
- 15 A. I have anecdotal evidence from people
- 16 I know who work at Microsoft, from students I
- 17 know who have gone to work for other people at
- 18 Microsoft, but it is purely anecdotal.
- 19 Q. And you didn't rely on that in
- 20 forming your opinion in paragraph 54, did you?
- 21 A. No.
- Q. Sir, I'll direct your attention to
- 23 paragraph 56 on page 16. The first sentence
- 24 reads, "Based on my experiences, a person of
- 25 ordinary skill in the art would have been

- 1 D. Karger
- 2 familiar with a wide variety" -- sorry, "with a
- 3 variety of user interface concepts and how to
- 4 implement those concepts -- sorry, "these
- 5 concepts within user interfaces."
- 6 Do you see that?
- 7 A. Yes, I do.
- 8 Q. How would someone of ordinary skill
- 9 in the art in your opinion become familiar with
- 10 the variety of user interface concepts?
- 11 MR. MICALLEF: Object to form, lack
- of foundation, irrelevant.
- 13 A. So I believe there are several ways
- 14 that such a person would have become familiar
- 15 with user interface concepts.
- 16 There are, or were at the time, a
- 17 literature and a type of -- of experience and
- 18 learning on the topic of user interfaces. You
- 19 could find user interfaces classes being
- 20 offered at various universities.
- 21 There were seminars of various arts
- 22 that would touch on user interface principles.
- 23 There's direct experience. Anybody who is
- 24 working in the computer science domain is
- 25 probably going to be making heavy use of a

- 1 D. Karger
- 2 computer and experiencing the user interfaces
- 3 on that computer on a daily basis.
- 4 And, of course, there's a pretty
- 5 natural connection. User interfaces are a
- 6 computer thing. If you're doing work in
- 7 computers, then you think about those user
- 8 interfaces, how to improve them, what's wrong
- 9 with them and so forth.
- 10 Finally, even for those for whom user
- 11 interface is not the primary focus of their
- 12 work, a really large fraction of what is done
- in computer science requires some kind of user
- 14 interface, right? Whatever kind of application
- 15 you're building, if there's no user interface,
- 16 then it's of very limited -- limited use if
- 17 nobody can connect to it. There are certain
- 18 kinds of computer science that can be almost
- 19 entirely user interface free, but everybody, or
- 20 almost everybody encounters them and has to
- 21 work with them at some point.
- 22 Q. Someone just surfing the web -- by
- 23 "someone," I'm not referring to anybody in
- 24 particular, just an average web surfer, would
- 25 come into contact with a variety of user

- 1 D. Karger
- 2 interface concepts, would he not?
- 3 MR. MICALLEF: Object to form.
- 4 A. What do you mean by coming in contact
- 5 with a user interface concept?
- 6 Q. Fair enough. Let me rephrase the
- 7 question.
- 8 Would someone who surfs the web on a
- 9 daily basis be familiar with a variety of user
- 10 interface concepts?
- 11 MR. MICALLEF: Object to form,
- 12 irrelevance.
- 13 A. They would be familiar with certain
- 14 user interface concepts, basic principles like
- 15 windowing, opening, closing windows, switching
- 16 between applications and such. Obviously, they
- 17 wouldn't have familiarity with the same variety
- 18 of concepts and would be less familiar with
- 19 some of the deeper concepts than somebody who's
- 20 actually working on creating user interfaces.
- 21 Q. A person surfing the web would become
- 22 familiar with a variety of controls for user
- 23 interfaces; correct?
- MR. MICALLEF: Object to form,
- 25 relevance, lack of foundation.

- 1 D. Karger
- 2 A. Yes, they would become familiar with
- 3 a variety of controls.
- 4 O. And the same would be true for a
- 5 typical undergraduate student in a computer
- 6 science or software engineering program; that
- 7 person would become familiar with a variety of
- 8 user interface concepts, would he not?
- 9 MR. MICALLEF: Same objections.
- 10 A. An undergraduate would become
- 11 familiar with more user interface concepts,
- 12 yes. Again, important to distinguish between
- 13 controls and concepts.
- Q. Okay. What's the difference between
- 15 controls and concepts?
- 16 A. Well, a control is something like a
- 17 close button, right? A concept is the concept
- 18 of closing a window and the benefits that that
- 19 can provide to somebody making use of the
- 20 interface.
- 21 Q. Would a typical third-year
- 22 undergraduate in software engineering or
- 23 computer science become familiar with those
- 24 concepts?
- 25 MR. MICALLEF: Object to form,

- 1 D. Karger
- 2 relevance, lack of foundation.
- 3 A. They would have begun to become
- 4 familiar with some of those concepts. Some of
- 5 those concepts are broad enough that they
- 6 would -- they would have encountered them in
- 7 other domains and realized that they could be
- 8 applicable to user interfaces as well.
- 9 Concepts like modularity, for example.
- 10 Q. Would the typical third-year
- 11 undergraduate in computer science or software
- 12 engineering know how to implement those
- 13 concepts within user interfaces?
- MR. MICALLEF: Object to form, lack
- of foundation, relevance.
- 16 A. Can you clarify what you mean by
- 17 "know how to implement"?
- 18 Q. Well, I'd direct your attention to
- 19 paragraph --
- 20 A. I'm aware it's in my declaration. I
- 21 just want to understand what you're
- 22 specifically asking.
- Q. I'd like to know how you understand
- 24 those words --
- 25 A. Okay.

- 1 D. Karger
- 2 Q. -- in your declaration, how you use
- 3 them there.
- 4 A. Okay.
- 5 MR. MICALLEF: Object to form. Did
- 6 you withdraw the other question?
- 7 MR. HEINTZ: I don't recall. So
- 8 let's just say I did and we will ask
- 9 this question.
- 10 Q. What did you mean when you wrote the
- 11 words "how to implement these concepts within
- 12 user interfaces"?
- 13 A. Good. So there are two
- 14 understandings of how to implement. One is how
- 15 to assemble the concepts themselves, which
- 16 concepts to make use of, which ones are
- 17 relevant to a given problem, and so forth. And
- 18 the other notion of implementation is when one
- 19 implements a piece of software to actually
- 20 write code and make it happen and sort of to
- 21 reduce it to practice, I guess would be the
- 22 proper term.
- 23 And I would say that implementation
- 24 would cover both of those aspects, knowing
- 25 which concepts to apply, what to draw from, and

- 1 D. Karger
- 2 also how to actually -- how to actually create
- 3 the software that reflected those concepts.
- 4 Q. All right. Would a third-year
- 5 undergraduate in software engineering or
- 6 computer science know how to implement these
- 7 concepts within user interfaces as you just
- 8 defined what implement means?
- 9 MR. MICALLEF: Object to form,
- ambiguous, lack of foundation, and
- irrelevant.
- 12 A. So I would venture that a typical
- 13 third-year probably would not.
- 14 Q. Okay.
- 15 A. But, of course, that's not a person
- 16 of ordinary skill in the art.
- 17 Q. All right. Now, out of the two
- 18 meanings you attach to the word "implement,"
- 19 which of those two would a third-year
- 20 undergraduate student in software engineering
- 21 or computer science not be able to achieve?
- 22 MR. MICALLEF: Object to form, lack
- of foundation, relevance.
- 24 A. I suspect that a typical third-year
- 25 student would not know enough about, say, the

- 1 D. Karger
- 2 user interface libraries that were available
- 3 that they might want to make use of in order to
- 4 do the implementation.
- 5 I guess if you gave them -- let me
- 6 think for a minute. I would venture that a
- 7 typical third-year, or at least many
- 8 third-years would know how to find out how to
- 9 implement in the coding sense that -- what
- 10 languages they would have to learn, what
- 11 libraries they would have to learn, so on and
- 12 so forth. They could if necessary figure out
- 13 how to actually do the implementation.
- 14 Based on my own experience of
- 15 third-year students, I'm guessing that fewer of
- 16 them would know where to go looking for
- 17 concepts that were applicable to the problem
- 18 they wanted to solve.
- 19 Q. And what did you mean in your answer
- 20 when you referred to "know where to go
- 21 looking"?
- 22 A. There's a lot of literature on user
- 23 interfaces and human/computer interaction.
- 24 Somebody who is familiar with that literature,
- 25 which a person of ordinary skill in the art

- 1 D. Karger
- 2 would be, would know what to draw on, the
- 3 concepts are documented in that literature.
- 4 But a typical third-year doesn't know how to do
- 5 a literature search.
- 6 Q. Okay. So in a broad sense, and
- 7 correct me if my understanding is incorrect,
- 8 generally speaking, your opinion is the
- 9 third-year undergraduate in computer sciences,
- 10 software engineering, would know how to write
- 11 the code if told what to do but wouldn't know
- 12 what to do?
- 13 MR. MICALLEF: Object to form,
- 14 foundation, relevance.
- 15 A. Yes, that's correct.
- 16 Q. Thanks. Sir, I'll direct your
- 17 attention to the bottom of page 14 and the top
- 18 of page 15 of your report. And in particular,
- 19 paragraph 49. And if you would take a moment
- 20 and read that to yourself before I ask the next
- 21 question, I'd appreciate it. Just please let
- 22 me know when you're ready.
- 23 A. Yes.
- 24 O. All right. The last sentence states
- 25 that "It was also known that Windows could be

- 1 D. Karger
- 2 displayed in a number of widely used operating
- 3 systems without active areas such as a title
- 4 bar, a menu bar, or scroll bars."
- 5 Do you see that?
- 6 A. Yes, I do.
- 7 Q. Which widely used operating system
- 8 are you referring to in that paragraph?
- 9 MR. MICALLEF: Object to form.
- 10 Q. Let me restate the question. To
- 11 which widely used operating systems are you
- 12 referring to in that paragraph?
- 13 MR. MICALLEF: Same objection.
- 14 A. So most substantively, I was
- 15 referring to the various flavors of UNIX. And
- 16 actually, I was also referring to Windows,
- 17 Microsoft Windows in a particular way because
- 18 all of those platforms could run X, which is a
- 19 windowing system that did not require -- that
- 20 was able to display windows without title bars,
- 21 menu bars, or scroll bars.
- Q. All right. I believe in one part of
- 23 your answer, you referred to or at least meant
- 24 to refer to Microsoft Windows.
- 25 A. Correct.

- 1 D. Karger
- 2 Q. Is that correct? That was one of the
- 3 widely used operating systems you were
- 4 referring to in that paragraph, Microsoft
- 5 Windows?
- 6 A. Yes, it was.
- 7 Q. And is your testimony that Microsoft
- 8 Windows could display windows without active
- 9 areas such as a title bar, a menu bar, or
- 10 scroll bars?
- 11 A. To be clear, what I was saying was
- 12 that Microsoft Windows was able to run a
- 13 display -- it's important to distinguish
- 14 between the operating system and the windowing
- 15 system. Microsoft Windows is both.
- But when I'm talking -- and Microsoft
- 17 Windows, the windowing system, as far as I
- 18 know, always presented that kind of chrome on
- 19 their windows. However, Microsoft Windows was
- 20 also able to run an X display server, and
- 21 within that X display server, operate the X
- 22 windowing system. And the X windowing system
- 23 running on Microsoft Windows could indeed
- 24 present windows without title bars, menu bars,
- 25 or scroll bars.

- 1 D. Karger
- 2 Q. To the best of your knowledge, in the
- 3 time frame of the '403 patent in 1998 and 1999,
- 4 was the X window -- I'm sorry, the X windowing
- 5 system on the Microsoft Windows operating
- 6 system widely used?
- 7 MR. MICALLEF: Object to form.
- 8 A. Not in proportion to the number of
- 9 users of the Microsoft operating system, no.
- 10 On the other hand, it was the default on the
- 11 UNIX operating system.
- 12 Q. Does that mean that every UNIX
- 13 computer defaulted to running X Windows? I'm
- 14 sorry, let me retract that. Is X Windows the
- 15 correct term to refer to the X windowing
- 16 system?
- 17 A. That's how I refer to it, yes.
- 18 Q. So let me repeat the question,
- 19 then --
- 20 Does that mean that every system that
- 21 ran the UNIX operating system also defaulted to
- 22 running the X Windows system?
- 23 A. Probably not. UNIX was used for many
- 24 things. There were probably older
- installations of UNIX that had not gotten X,

- 1 D. Karger
- 2 but certainly, every environment I ever
- 3 encountered where there was a UNIX system
- 4 running, it was running X.
- 5 Q. Where were these environments that
- 6 you encountered that you referred to in your
- 7 answer?
- 8 A. Various academic institutions, for
- 9 the most part.
- 10 Q. Okay.
- 11 A. Occasional industry.
- 12 Q. Again, I'll direct your attention to
- 13 the last sentence in paragraph 49. And you
- 14 refer to active areas such as a title bar, a
- 15 menu bar, or scroll bars.
- 16 Do you see that?
- 17 A. Yes.
- 18 Q. Now I'll direct your attention to
- 19 paragraph 93 of your declaration. That appears
- 20 on page 30.
- 21 Do you see that?
- 22 A. Yes, I do.
- 23 Q. Okay. And in particular, on the
- 24 second line of paragraph 93, you refer to
- 25 decoration, in quotes, such as scroll bars,

- 1 D. Karger
- 2 title bars or menus.
- 3 Do you see that?
- 4 A. Yes, I do.
- 5 Q. Sir, why the change in wording from
- 6 "active areas" to "decoration"?
- 7 MR. MICALLEF: Object to form,
- 8 relevance, lack of foundation.
- 9 A. I would say that both terms are
- 10 accurate descriptions of what -- accurate ways
- 11 of referring to these things. The first refers
- 12 to the fact that these are elements that you
- 13 can interact with. They will respond if you
- 14 put the mouse there and click, for example.
- 15 Decoration refers -- it's sort of in the
- 16 context of this paragraph. Decoration refers
- 17 to the fact that they're not fundamental to the
- 18 window. That is, the window can exist and be
- 19 useful and have a role even without these
- 20 elements.
- 21 O. If I had a window with a large word
- 22 processing document in it running a word
- 23 processing application, would the scroll bars
- 24 be functional or decorative?
- MR. MICALLEF: Object to form,

- 1 D. Karger
- 2 relevance, lack of foundation.
- A. So just to be clear, we're not
- 4 talking about decorative in the jewelry sense,
- 5 that they make it pretty. We're talking about
- 6 decorative in the less essential, less
- 7 fundamental sense. Okay? A control bar
- 8 provides one mechanism for navigating through a
- 9 document, but, for example, the word processor
- 10 that I used to use didn't have them. You used
- 11 keys to navigate through the document instead.
- 12 So I think that is sort of a
- demonstration of the way in which the scroll
- 14 bar can be, you know, an addition, a useful
- 15 addition to the window, but is not fundamental
- 16 to the window.
- 17 Q. What was that word processor you were
- 18 referring to in your answer that used keys?
- 19 A. Oh, I've used several. Vi long ago;
- 20 Emacs more recently. A few years ago, Emacs
- 21 finally got scroll bars, but I still don't use
- 22 them.
- Q. Would you consider vi to be a word
- 24 processing program?
- 25 A. Sure.

- 1 D. Karger
- 2 Q. Do you think most people of ordinary
- 3 skill in the art would classify vi as a word
- 4 processing program?
- 5 MR. MICALLEF: Object to form,
- 6 relevance.
- 7 A. Sorry, ask the question again.
- 8 Q. Do you think most people of ordinary
- 9 skill in the art would refer to vi as a word
- 10 processing program?
- 11 MR. MICALLEF: Same objection.
- 12 A. They would most likely refer to it as
- 13 an editor. That's the commonly used term in
- 14 software engineering and such, where it's still
- 15 heavily used.
- 16 And people might want to -- people
- 17 might dislike referring to it as a word
- 18 processing program due to its relative lack of
- 19 WYSIWYG features. Some people may assume that
- 20 a word processor must be WYSIWYG, but I don't
- 21 think so. I think that vi and Emacs can be
- 22 fine word processing programs.
- 23 Q. Can you describe how to delete a line
- 24 using the vi editor?
- 25 A. You hit the letter K. Sorry.

- 1 D. Karger
- 2 Control-K? It's been a long time since I've
- 3 used vi. I can tell you a lot more about
- 4 Emacs.
- 5 Q. How about YY? Does that sound
- 6 familiar?
- 7 A. Yeah, yeah, yeah.
- 8 Q. Why don't you use vi anymore?
- 9 A. Because I found Emacs to be more
- 10 powerful.
- 11 Q. Is that the Emacs with the scroll bar
- 12 or without the scroll bar?
- 13 A. I started using Emacs long before the
- 14 scroll bar.
- 15 Q. How do you delete a line in Emacs?
- 16 A. Control-K.
- 17 Q. Do you think most people of ordinary
- 18 skill in the art today know how to use vi?
- 19 MR. MICALLEF: Object to form,
- 20 relevance.
- 21 A. So again, my understanding of
- 22 somebody of ordinary skill in the art is that
- 23 this is a technical term describing somebody
- 24 who is familiar with the technology of the
- 25 field and thus by definition, they would

- 1 D. Karger
- 2 understand how to use Emacs and vi.
- 3 Q. When you say understand how to use
- 4 it, does that mean they'd be able to edit a
- 5 document using vi?
- 6 MR. MICALLEF: Objection,
- 7 relevance.
- 8 A. Again, if we're talking about this
- 9 hypothetical person of ordinary skill, yes.
- 10 Q. Okay. When was the last time you
- 11 edited a large document in a window without
- 12 scroll bars?
- 13 MR. MICALLEF: Objection, lack of
- 14 foundation.
- 15 A. So that was probably the last time I
- 16 used Emacs when it didn't have scroll bars. I
- 17 can't say exactly how many years ago that was.
- 18 I can tell you that I still don't use the
- 19 scroll bars in Emacs.
- Q. Can you make a guess as to how many
- 21 years ago it was?
- 22 A. Maybe seven, rough guess.
- Q. So let me direct your attention to
- 24 paragraph 131 of your report. It's on page 43.
- 25 A. Uh-huh. No, wait, paragraph 131. My

- 1 D. Karger
- 2 apologies.
- 3 Q. Yes. So again, just to be clear for
- 4 the record, we're at paragraph 131 on page 43
- of Exhibit 1003. Sir, do you see that
- 6 paragraph?
- 7 A. Yes, I do.
- 8 Q. Will you take a moment and read it to
- 9 yourself?
- 10 A. Yes, I do.
- 11 Q. Okay. So what is your understanding
- of the meaning of the second sentence?
- 13 A. My understanding of that sentence is
- 14 that when you're reading the patent and you see
- 15 a dependent claim, there should be a reason for
- 16 that dependent claim to be stated. And
- 17 therefore, in order for it to not be redundant,
- 18 there has to be something in the independent
- 19 claim that the dependent claim is not covering.
- 20 Q. Okay. I'll ask the reporter to --
- 21 and hand the witness what's been marked
- 22 Exhibit 1001, which is a copy of U.S. Patent
- 23 6,724,403.
- Mr. Karger -- I'm sorry, Dr. Karger,
- 25 do you recognize that document?

- 1 D. Karger
- 2 A. Yes, I do.
- 3 Q. Have you studied this document prior
- 4 to this deposition?
- 5 A. Yes, I have.
- 6 Q. Sir, I'll ask you to turn to column
- 7 24 of the document. Those are the numbered
- 8 paragraphs in the back just a few pages from
- 9 the back.
- 10 A. You mean Claim 54.
- 11 Q. No, I mean column 24, actually.
- 12 A. Oh, column 24? Sorry.
- 13 Yes.
- Q. And in column 24 at about line 14,
- 15 you'll see the start of Claim 1.
- 16 Do you see that?
- 17 A. Yes, I do.
- 18 Q. And now I'd like to direct your
- 19 attention to line 37 of column 24 where Claim 3
- 20 is started.
- 21 Do you see that?
- 22 A. Yes, I do.
- 23 Q. So Claim 3 reads, "The method of
- 24 Claim 1 wherein said partitioning includes
- 25 partitioning said array of tiles in a

- 1 D. Karger
- 2 non-overlapping configuration wherein each tile
- 3 of said array of tiles is a uniform size and
- 4 shape."
- 5 Do you see that?
- 6 A. Yes, I do.
- 7 Q. Okay. You understand that the first
- 8 part of Claim 3 that reads "the method of
- 9 Claim 1" means that Claim 3 depends from
- 10 Claim 1; correct?
- 11 A. Correct.
- 12 Q. And is that your understanding of
- 13 what the words "independent" and "dependent
- 14 claims" in paragraph 131 of your report mean?
- 15 A. Yes, it is.
- MR. MICALLEF: Object to form.
- 17 A. Yes, it is.
- 18 Q. Okay. So Claim 3 requires that each
- 19 array -- sorry, let me restate that. Claim 3
- 20 requires that each tile of said array of tiles
- 21 is a uniform size and shape; correct?
- 22 A. Yes.
- Q. Okay. Does Claim 1 require that each
- 24 tile of said array of tiles be a uniform size
- 25 and shape?

- 1 D. Karger
- 2 MR. MICALLEF: Objection,
- 3 foundation, relevance.
- 4 A. Claim 1 says nothing about
- 5 requirements on the size and shape of the tile.
- 6 Q. Does that mean that Claim 1 is not
- 7 limited to tiles of a uniform size and shape in
- 8 your understanding?
- 9 MR. MICALLEF: Objection,
- 10 foundation, relevance.
- 11 A. Yes, that is my understanding.
- 12 Q. And it's also your understanding that
- 13 Claim 3 does require that the tiles be uniform
- 14 size and shape; correct?
- MR. MICALLEF: Same objections.
- 16 A. Yes, it is.
- 17 O. Does that mean Claim 3 is narrower
- 18 than Claim 1?
- 19 MR. MICALLEF: Object to form,
- 20 foundation, relevance.
- 21 A. Yes.
- 22 O. And that also means Claim 3 further
- 23 limits Claim 1, does it not?
- MR. MICALLEF: Same objections.
- 25 A. Yes.

- 1 D. Karger
- Q. We have been going just about an
- 3 hour. It might be a good time to take a break
- 4 if you'd like before we go on to the next
- 5 subject. So we can go off the record if you
- 6 agree?
- 7 MR. MICALLEF: Yeah.
- 8 THE VIDEOGRAPHER: Off the record
- 9 at 10:59 a.m.
- 10 (Recess taken.)
- 11 THE VIDEOGRAPHER: Back on the
- 12 record at 11:21 a.m.
- 13 BY MR. HEINTZ:
- 14 Q. Sir, I'd like to direct your
- 15 attention back to Exhibit 1003, in particular,
- 16 paragraph 133 on the same page. I'm sorry,
- 17 1003 is your declaration, not the patent.
- 18 A. Thank you.
- 19 Q. Do you see paragraph 133 there on
- 20 Exhibit 1003?
- 21 A. Yes, I do.
- Q. So you say in paragraph 133 that "The
- 23 specification does not explicitly or implicitly
- 24 define the term 'tile.' It also does not
- 25 indicate that there are inherent on the

```
1 D. Karger
```

- 2 number" -- I'm sorry, "on the form, number or
- 3 manner of presentation of tiles on the
- 4 display."
- 5 Do you see that?
- 6 A. Yes, I do.
- 7 Q. Is there a word missing between
- 8 "inherent" and "on"?
- 9 A. Yeah, I think it's probably
- 10 "dependencies" or "requirements."
- 11 Q. So "requirements" or "dependencies";
- 12 correct?
- 13 A. Yes.
- 14 Q. Now direct your attention to the
- 15 previous page of Exhibit 1003, to paragraph
- 16 129. In that paragraph, you say that a tile
- 17 must be displayed as part of an array, but
- 18 you're relying on other words in Claims 1, 22
- 19 and 46 other than the word "tiles" to make that
- 20 statement; is that correct?
- 21 A. Did you ask me about paragraph 129?
- 22 Q. I did.
- 23 MR. MICALLEF: Object to form.
- A. Sorry, I think you may have meant
- 25 paragraph 130, but can you restate the

- 1 D. Karger
- 2 question?
- 3 Q. Yeah, so in paragraph 129, you say
- 4 that Claims 1, 22 and 46 contain no explicit
- 5 language that dictates the form, number, or
- 6 manner of presentation of tiles on the display
- 7 other than a tile be displayed as part of an
- 8 array; right?
- 9 Now, you recall just a moment ago we
- 10 looked at paragraph 133 that says there's no
- 11 explicit or implicit definition of the word
- 12 "tiles." Correct?
- 13 A. Yes.
- 14 Q. So my question to you was, in
- 15 paragraph 129, the requirement that a tile be
- 16 displayed as part of an array under your
- interpretation, that requirement comes from
- 18 words in those claims other than the word
- 19 "tile"; is that correct?
- 20 MR. MICALLEF: Object to form,
- 21 foundation, relevance.
- 22 A. Let me take a quick look at the
- 23 claims.
- 24 O. Sure.
- 25 A. Okay. Now could you restate the

- 1 D. Karger
- 2 question?
- 3 Q. Sure. Does the requirement for a
- 4 tile to be displayed as part of an array, as
- 5 you state in paragraph 129, come from the word
- 6 "tile" or from some other word in Claims 1, 22,
- 7 and 46?
- 8 MR. MICALLEF: Same objections.
- 9 A. So what Claims 1, 22 and 46 contain
- 10 is the phrase "array of tiles." And just
- 11 having that phrase, "array of tiles," it's not
- 12 completely clear to me what you're asking in
- 13 the sense that these two words do co-occur, and
- 14 so the claims do focus on an array of tiles.
- 15 Q. Does that mean that there's nothing
- in the word "tiles" that requires them to be
- 17 displayed in an array?
- 18 MR. MICALLEF: Objection,
- 19 foundation, relevance.
- 20 A. So these three claims only refer to
- 21 an array of tiles and are making no
- 22 requirements on -- and therefore are therefore
- 23 imposing a requirement only on -- only on the
- 24 case of an array of tiles. I'm not sure if
- 25 that answered your question but --

- 1 D. Karger
- 2 O. Yeah, I don't think so.
- 3 A. Okay.
- 4 Q. So I'm starting from the proposition
- 5 in paragraph 133 that in your opinion, the
- 6 specification does not explicitly or implicitly
- 7 define the term "tile." That's your opinion in
- 8 paragraph 133; correct?
- 9 A. Correct. Now, of course I'm
- 10 referring here to the specification and not to
- 11 those claims.
- 12 Q. Okay. Is there a definition of
- 13 "tile" in the claims?
- MR. MICALLEF: Objection.
- 15 Q. Let's start with Claim 1. Is there a
- 16 definition of "tile" in Claim 1? And that
- 17 could be explicit or implicit.
- 18 MR. MICALLEF: Objection,
- 19 foundation, relevance.
- 20 A. No, there is no description. There
- 21 is no definition of "tile" in Claim 1.
- 22 O. Is there a definition of "tile" in
- 23 any other claim of the '403 patent?
- MR. MICALLEF: Objection,
- 25 foundation, relevance.

- 1 D. Karger
- 2 A. There is no definition of "tile" in
- 3 the claims.
- 4 Q. Okay. So in paragraph 129, when you
- 5 say that a tile must be displayed as part of an
- 6 array, that has -- that requirement comes from
- 7 some word in Claims 1, 22 and 46 other than the
- 8 word "tile"; is that correct?
- 9 MR. MICALLEF: Same objections.
- 10 A. That requirement comes from the
- 11 phrase -- from the use of the phrase "array of
- 12 tiles."
- 13 Q. Okay. And if the word "array" did
- 14 not appear in Claim 1, there would be no
- 15 requirement in Claim 1 that tiles be displayed
- 16 in an array; correct?
- 17 A. If the word "array" did not appear,
- 18 then there would be no requirement involving an
- 19 array, correct.
- Q. Does the specification of the '403
- 21 impose any requirement on a tile?
- MR. MICALLEF: Object to form, lack
- of foundation, and relevance.
- A. Specification attempts to describe
- 25 what tiles are not, and also talks about what

- 1 D. Karger
- 2 they typically or preferably might be. Are
- 3 you -- do you consider any of those to be
- 4 requirements that you're asking about?
- 5 Q. Well, let me ask you. Do you
- 6 consider them in your opinion to be
- 7 requirements of a tile?
- 8 MR. MICALLEF: Object to form,
- 9 foundation, relevance.
- 10 A. No, I do not.
- 11 Q. Okay. So in paragraph 133 of your
- 12 report, where you say that the specification
- does not explicitly or implicitly define the
- 14 term "tile," you mean that there are no
- 15 requirements of a tile that are found in the
- 16 specification either explicitly or implicitly;
- 17 is that correct?
- 18 MR. MICALLEF: Object to form,
- 19 foundation, relevance.
- 20 A. When you say "requirements of a
- 21 tile, " do you mean requirements for something
- 22 to fulfill the definition of being a tile?
- Q. Correct.
- MR. MICALLEF: Same objections.
- 25 A. So at this point, my understanding is

- 1 D. Karger
- 2 that the definition of "tile" has been
- 3 determined by the board in their review and
- 4 that's the definition that we should be working
- 5 with.
- 6 Q. Is that the definition you used in
- 7 your report?
- 8 A. Is that the definition I use in my
- 9 report? The report was written before the
- 10 review response by the board. However, I
- 11 believe my report is consistent with that
- 12 definition.
- 13 Q. Does the definition -- I'm sorry, or
- 14 the construction reached by the board include a
- 15 requirement for a tile to be selectable?
- MR. MICALLEF: Object to form.
- 17 A. Do you have a copy of the board
- 18 report? I'd rather refer to it to answer.
- 19 Q. Yeah, yeah, let me. I did want to --
- 20 we will get to that, but I want to stay with
- 21 the subject of your report here.
- 22 A. Okay.
- Q. So is it correct to say for your
- 24 report that you did not rely on the board's
- 25 construction because you said the board's

- 1 D. Karger
- 2 construction was not available? I'm not trying
- 3 to trick you.
- 4 A. I understand, but it's consistent
- 5 with my own interpretation, which I did rely on
- 6 in the report.
- 7 Q. Okay. And under your interpretation
- 8 as discussed in this report, there is no
- 9 requirement imposed by the specification on a
- 10 tile.
- 11 MR. MICALLEF: Object to form,
- 12 relevance, foundation.
- 13 A. I'm going to check something.
- 14 Q. Yes.
- 15 A. Now can you restate the question?
- MR. HEINTZ: I'll ask the reporter
- to read back the last question, please.
- 18 (The reporter read from the record.)
- 19 A. So I just want to pick apart the
- 20 "imposed by the specification" bit of this in
- 21 the sense that this is not a tile. This cup
- 22 that I'm holding is not a tile. So it's not
- 23 that a tile can be anything in the world.
- 24 However, I do not believe that the
- 25 specification imposes any additional

- 1 D. Karger
- 2 requirements on a tile beyond what we're
- 3 expected to interpret from the plain meaning of
- 4 the term.
- 5 BY MR. HEINTZ:
- 6 O. So does that mean if I took Claim 1
- 7 of the '403 patent, Exhibit 1001, and
- 8 substituted the word "doohickey," that's
- 9 D-O-O-H-I-C-K-E-Y, for the word "tile," it
- 10 would not change the meaning of Claim 1 --
- 11 MR. MICALLEF: Object to form,
- 12 relevance.
- 13 Q. -- in your opinion? Sorry.
- 14 MR. MICALLEF: Object to form,
- 15 relevance, foundation.
- 16 A. So I believe it would change the
- 17 meaning, because "tile" does have a plain
- 18 meaning that implies something about its
- 19 intended usage.
- Q. Did you state the plain meaning in
- 21 your report somewhere?
- MR. MICALLEF: Objection,
- 23 relevance.
- A. So what I described in my report, for
- 25 example, is the ways "tile" has been used in

- 1 D. Karger
- 2 user interface work in the past.
- In systems like SAPHIRE and other
- 4 research systems, there is a use of the word
- 5 "tiling" which refers to -- in general to
- 6 laying out a group of windows or elements of
- 7 the user interface in a sort of nonoverlapping
- 8 fashion.
- 9 Q. So is nonoverlapping -- oh, I'm
- 10 sorry. Are you done?
- 11 A. However -- and this was what I had in
- 12 mind as I started reading the patent. However,
- 13 the specification itself says that the tiles
- 14 may overlap. So it sort of starts with the
- 15 notion of -- it uses this word, "tiles," which
- 16 is sort of mostly consistent with how it has
- 17 been used in the past in user interface work,
- 18 but then it adds these -- what's the word?
- 19 These soft, it may do this, it may not do this.
- 20 It's almost removing requirements from what
- 21 would -- one would interpret from the word
- 22 itself until it's hard to nail down anything
- 23 special about the tile.
- Q. Do I understand your answer to mean
- 25 that in the plain and ordinary meaning of the

- 1 D. Karger
- word "tile," they are nonoverlapping?
- 3 MR. MICALLEF: Object to form,
- 4 relevance.
- 5 A. So I'll again state that the board
- 6 has made the determination of what "tile" means
- 7 here.
- 8 Q. I understand, Doctor. I'm asking for
- 9 your opinion of what the plain and ordinary
- 10 meaning of the word "tile" is.
- 11 MR. MICALLEF: Same objections.
- 12 Let's let him answer the question.
- 13 A. So are you referring to the plain and
- 14 ordinary meaning before one reads this
- 15 specification? Or the meaning that is implied
- 16 by this specification?
- 17 Q. Before one reads the specification,
- 18 without reference to it.
- 19 A. Without reference to this
- 20 specification --
- 21 MR. MICALLEF: Objection, relevance
- lack of foundation.
- 23 A. I would venture that a tile -- that
- one would parse "tiles" to mean nonoverlapping,
- 25 yes.

- 1 D. Karger
- 2 Q. And I think you said in your -- one
- 3 of your previous responses that the
- 4 specification says the tiles can be
- 5 overlapping, and I'd like you to point to me
- 6 where in the specification it says that.
- 7 A. All right. Let me hunt.
- 8 Yeah, I'm afraid I misspoke. I
- 9 believe that the discussion of tiles being
- 10 overlapping is something that came out in
- 11 the -- in the board review when there was a
- 12 discussion of what would the actual definition
- 13 of a tile be. There was some discussion of
- 14 whether claims that they had to be
- 15 nonoverlapping would be applicable. Again, if
- 16 you want to give me a copy of the board review,
- 17 I can find that segment, but that's what I was
- 18 thinking of.
- 19 Q. All right. So there's nothing -- to
- 20 be clear for record, there is nothing in the
- 21 '403 patent that says tiles can be overlapping
- 22 to the best of your knowledge, is there?
- MR. MICALLEF: Objection,
- 24 relevance.
- 25 A. Correct.

- 1 D. Karger
- Q. All right. Let me direct your
- 3 attention -- again, this is with respect to
- 4 Exhibit 1001, the '403 patent, to column 4, and
- 5 I'll ask you to read -- I'll ask you to direct
- 6 your attention to line 55 in column 4. And
- 7 I'll read it: "The present invention comprises
- 8 a method executed by a computer under the
- 9 control of a program stored in computer memory,
- 10 said method comprising the steps of:
- 11 Partitioning a visual display of a computer
- 12 into an array of tiles in a nonoverlapping
- 13 configuration."
- 14 Do you see that?
- 15 A. Yes, I do.
- 16 Q. Do you have an understanding of what
- 17 the words "present invention" mean in the
- 18 context of that sentence?
- 19 MR. MICALLEF: Objection,
- 20 foundation, relevance.
- 21 A. Yes, I do.
- 22 Q. What's your understanding of what the
- 23 words "present invention" mean in that passage?
- 24 A. It's the invention being discussed in
- 25 this patent.

- 1 D. Karger
- Q. And when you say "the invention,"
- 3 what do you mean by that?
- 4 A. What I mean by --
- 5 MR. MICALLEF: Objection,
- 6 relevance.
- 7 A. It is -- what do I mean by "present
- 8 invention? It is the thing which this patent
- 9 is proposing as a novel thing, which should be
- 10 patented.
- 11 Q. Okay. Now, sir, I understand that
- 12 you've gained some understanding of legal
- 13 principles from counsel. Is that correct?
- 14 A. Yes.
- 15 Q. Do you have any understanding of
- 16 legal principles applicable to patents from any
- 17 other sources?
- 18 A. No.
- 19 Q. Okay. Regardless of where any
- 20 understanding may have come from, do you have
- 21 any knowledge of the existence of case law that
- 22 says the words "present invention" can indicate
- 23 that every claim should be limited by what's
- 24 defined by the present invention in the
- 25 specification?

- 1 D. Karger
- 2 MR. MICALLEF: Objection,
- 3 relevance, foundation.
- 4 A. Can you restate that question,
- 5 please?
- 6 Q. Sure. I will represent to you that
- 7 there is in existence some case law applicable
- 8 to patent cases that says that when the words
- 9 "present invention" are used in the
- 10 specification, and in particular in a summary
- 11 of the invention section of a specification,
- 12 that that which follows the word "present
- invention" should be held to limit the claims.
- 14 And I'm just asking if you have ever heard of a
- 15 principle like the one I just articulated?
- MR. MICALLEF: Objection, form,
- 17 relevance, foundation.
- 18 A. No, I have not.
- 19 Q. Sir, I'm going to direct your
- 20 attention to paragraph 157 of your report.
- 21 Sorry. Before I ask you to do that I'm going
- 22 to ask you to direct your attention back to
- 23 Exhibit 1001, the '403 patent. I apologize for
- 24 the back-and-forth. I'll ask you to turn to
- 25 column 9 of Exhibit 1001. And direct your

- 1 D. Karger
- 2 attention to lines 26 through 32, which read --
- 3 I'm sorry, I believe that's 24 through 32, but
- 4 let me just read it starting at line 24: "When
- 5 a tile is selected, whether by mouse click or
- 6 otherwise, the tile instantly provides the user
- 7 with access to the underlying information,
- 8 whether that data be a hierarchical menuing
- 9 system leading the user to a different level or
- 10 tiles, a word processing file stored on a local
- 11 area network, a spreadsheet stored locally on a
- 12 user's computer, HTML file on the Internet, or
- 13 a television signal."
- Do you see that passage, sir?
- 15 A. Yes, I do.
- 16 Q. Okay. My question is, is there
- 17 anything in that passage that leads you to
- 18 believe that a tile cannot be selectable to
- 19 provide access to the underlying information
- 20 source?
- 21 MR. MICALLEF: Object to form,
- 22 relevance, lack of foundation.
- 23 A. The text asserts the tiles are
- 24 selectable. And it also says that when they
- 25 are selected, it provides access to the

- 1 D. Karger
- 2 underlying information. So those are both
- 3 assertions of the specification.
- 4 Q. Okay. And is there anything in that
- 5 passage that leads you to believe that you can
- 6 have a tile as discussed in this specification
- 7 that is not selectable to provide access to the
- 8 underlying information?
- 9 MR. MICALLEF: Objection,
- 10 foundation, relevance.
- 11 A. This again comes back to the question
- 12 of the board's definition -- I'm sorry, are you
- 13 asking -- the board has made a definition of
- 14 "tile."
- 15 Q. It has, and I'm not asking about
- 16 that.
- 17 A. You're not asking about that? Okay.
- 18 So restate your question.
- 19 Q. Yes. Is there anything about that
- 20 passage that leads you to believe that it is
- 21 possible to have a tile as used in this
- 22 document that is not selectable to provide
- 23 access to underlying information?
- MR. MICALLEF: Same objections.
- 25 A. So according to this document, tiles

- 1 D. Karger
- 2 are selectable and provide access to the
- 3 underlying information.
- 4 Q. Okay. Thank you. Now I'll ask you
- 5 to go back to Exhibit 1003, which is your
- 6 report, and take a look at paragraph 157.
- 7 A. Yes.
- 8 Q. In paragraph 157 you say the '403
- 9 specification explains that web browsers may
- 10 present multiple overlapping windows that
- 11 occupy a portion of the display.
- 12 Do you see that?
- 13 A. Yes, I do.
- 14 Q. Okay. And you cite to the '403
- 15 patent, which is Exhibit 1001, at column 1,
- line 66, to column 2, line 1, and also to
- 17 column 8, line 15 through 28, for that
- 18 proposition. Is that what I understand those
- 19 numbers to mean?
- 20 A. Yes.
- Q. Okay. So where in those passages
- 22 does it say that web browsers may present
- 23 multiple overlapping windows that occupy a
- 24 portion of a display?
- 25 A. Okay. Now can you restate the

- 1 D. Karger
- 2 question?
- 3 Q. Yes. Where in those two passages
- 4 does it say, does the '403 specification
- 5 explain that web browsers may present multiple
- 6 overlapping windows that occupy a portion of a
- 7 display?
- 8 A. Good. So if you look at the second
- 9 citation, column 8, it asserts that the window
- 10 may occupy a substantial percentage of the
- 11 available screen space, usually 90 to
- 12 100 percent.
- So if a window is occupying 90 to
- 14 100 percent of the screen space, then by the
- 15 pigeonhole principle, any pair of them is going
- 16 to have to overlap; right? If each of them is
- 17 that large, there's no way to put them both up
- 18 without having them overlap.
- 19 Meanwhile, the first quotation talks
- 20 about having two of these running at the same
- 21 time. So you put those two together, you are
- 22 running two of these -- you have two of these
- 23 windows, each of them is larger than 50 percent
- of the screen, there's necessarily going to be
- 25 an overlap.

- 1 D. Karger
- Q. Right.
- 3 A. And for the last bit, portion of a
- 4 display, well, 90 percent is a portion of a
- 5 display.
- 6 Q. Precisely. So the '403 patent is
- 7 talking about prior art browsers.
- 8 A. Uh-huh.
- 9 Q. And it's saying these prior art
- 10 browsers often occupy 90 percent or more of a
- 11 display. The patent also teaches that there
- 12 can be two of them running at the same time,
- 13 and so those two passages together indicate
- 14 that these things overlap. They necessarily
- 15 overlap.
- MR. MICALLEF: Object to form.
- 17 A. They do not necessarily overlap
- 18 because --
- 19 Q. I'm sorry.
- 20 A. They don't have to be 90 to
- 21 100 percent of the screen space.
- Q. Correct.
- 23 A. Usually, but people have -- people
- 24 choose many different layouts for their screens
- 25 and they can choose a layout where they do not

- 1 D. Karger
- 2 overlap.
- 3 Q. Right. But for the usual case, the
- 4 patent is teaching that these windows with
- 5 browser -- with browsers running in them will
- 6 overlap, and the usual case being defined here
- 7 at column 8, line 16, as 90 to 100 percent of
- 8 the display area; correct?
- 9 MR. MICALLEF: Object to form,
- 10 foundation, lack of relevance.
- 11 A. The specification is asserting that
- 12 usually browsers will occupy 90 to 100 percent
- 13 of the space. I wouldn't make that assertion
- 14 myself. I don't think that's necessarily true.
- 15 Q. You disagree with that assertion?
- 16 A. Yes.
- 17 O. But nonetheless, if one were to take
- 18 the assertion as true in the patent, then one
- 19 would say -- would reach the exact conclusion
- 20 you reached here at paragraph 157 then: In a
- 21 usual case you're going to have overlapping
- 22 windows with browsers running in them; right?
- MR. MICALLEF: Object to form,
- 24 foundation, relevance.
- 25 A. Again, usual case? Yes. Necessary?

- 1 D. Karger
- 2 No.
- 3 Q. As defined in the patent. The usual
- 4 case as defined in the patent here at column 8,
- 5 line 16, where the usual case is 90 to
- 6 100 percent.
- 7 A. Yes.
- 8 MR. MICALLEF: Objection,
- 9 foundation, relevance.
- 10 Q. And isn't it true that here in column
- 11 8, a tile is differentiated from what's been
- 12 described as the usual case of windows that
- 13 overlap?
- 14 A. Yes, it is.
- 15 Q. Okay. And wouldn't that lead one to
- 16 conclude that as the term "tile" is used in the
- 17 patents, it's intended not to be overlapping?
- 18 MR. MICALLEF: Objection,
- 19 relevance, foundation.
- Q. And again, just to clarify my
- 21 question, we're assuming here for the sake of
- 22 argument that the assumption -- that the
- 23 statement about what the usual case is, 90 to
- 24 100 percent of a -- of the available display
- 25 space being occupied, that was correct. We're

- 1 D. Karger
- 2 going to take the patent at its word. And in
- 3 so doing, isn't it correct that when you read
- 4 the description in column 8 about why a tile is
- 5 different from the these windows, you would
- 6 conclude that tiles are overlapping?
- 7 MR. MICALLEF: Object to form,
- 8 foundation, relevance.
- 9 A. Did you mean I would conclude that
- 10 tiles are nonoverlapping?
- 11 Q. I did mean that. Thank you.
- 12 MR. MICALLEF: Same objections.
- 13 A. So again, the language of this
- 14 specification is vague. It asserts that a tile
- 15 will typically be smaller in size, suggesting
- 16 that it can be as large. Right? So we're in
- 17 this sort of "usually," "typically," right,
- 18 where both cases are clearly possible. Right?
- 19 You can have a -- right? The specification
- 20 asserts that usually, a window is 90 percent of
- 21 the size. But it's clear that there's another
- 22 case where it's not. Specification asserts
- 23 that a tile will typically be smaller, but that
- 24 makes clear the possibility that it might not.
- Q. Right. And when the patent talks

- 1 D. Karger
- 2 about the two windowed displays of browsers
- 3 that occupy 90 to 100 percent of the screen,
- 4 it's clear to the reader, is it not, that a
- 5 user cannot view those simultaneously?
- 6 MR. MICALLEF: Object to form,
- 7 relevance, foundation.
- 8 A. Well, clearly, a user who wanted to
- 9 view those simultaneously would resize them so
- 10 that they could be seen simultaneously.
- 11 Q. But when they occupy 90 to
- 12 100 percent of the available display space, as
- 13 the patent discusses is the usual case, it's
- 14 clear to the reader that the user will not be
- 15 able to view them simultaneously; isn't that
- 16 correct?
- 17 MR. MICALLEF: Same objections.
- 18 A. Not quite. For example, the MSIE
- 19 Kits, or the Brown patent, talk about
- 20 mechanisms for active desktop, and what -- part
- 21 of their mechanism is actually a transparent
- 22 browser window. And as a result, if you put
- 23 the transparent browser window on top, it may
- 24 occupy 100 percent; that's how it's designed,
- 25 to occupy 100 percent of the space. But if

- 1 D. Karger
- 2 there's another browser window behind the
- 3 transparent window, you'll still see both of
- 4 them simultaneously.
- 5 Q. And the usual case being discussed
- 6 here in the '403 patent, are they talking about
- 7 transparent browser windows?
- 8 A. Oh, no, certainly not.
- 9 Q. So again, going on the discussion of
- 10 the '403 patent, isn't it a logical conclusion
- 11 that if you're in the usual case where 90 to
- 12 100 percent of the display area is occupied by
- 13 a window with a browser in it, that a user
- 14 cannot view the two browser windows
- 15 simultaneously?
- MR. MICALLEF: Objection,
- foundation, form, and relevance.
- 18 A. So I should -- I want to make clear
- 19 that sort of one of the problems with the
- 20 specification is that it asserts various things
- 21 which I don't take to be correct. So in a
- 22 sense, we are being asked to read a
- 23 counterfactual specification.
- 24 If we accept the things that they
- 25 assert to be true, well, that takes us to some

- 1 D. Karger
- 2 strange places. Okay?
- But if you want me to do that, if you
- 4 want me to accept the assertion that usually a
- 5 window is 90 percent of the size -- certainly,
- 6 if windows are 90 percent of the size, then you
- 7 can -- and if you are taking "simultaneously"
- 8 to mean literally at the same time, which is
- 9 another sort of vocabulary thing that we need
- 10 to run by with the board, but if you mean
- 11 literally at the same time see the entirety of
- 12 both of the windows, then that's physically
- 13 impossible.
- 14 Q. Okay. And then you see the statement
- 15 here that says a tile -- I'm sorry, here being
- 16 column 8, line -- I assume this is line 37.
- 17 There's a little bit of ambiguity in the
- 18 spacing on the numbers there, but the statement
- 19 reads, "A tile is different from a window
- 20 because a tile will typically be smaller in
- 21 size, allowing the user to view multiple tiles
- 22 simultaneously if desired."
- A. Right.
- Q. So I understand your distinction
- 25 about typically, but was it not the case that

- 1 D. Karger
- 2 here, there's a distinction being drawn between
- 3 the previous case of windows with occupations
- 4 of 90 percent of the display area not being --
- 5 allowing the user to view things
- 6 simultaneously, whereas here the tiles do allow
- 7 the user to view things simultaneously?
- 8 MR. MICALLEF: Objection,
- 9 foundation, relevance.
- 10 A. So again, this is a case of sort of
- 11 requiring counterfactual reading. The
- 12 assertion that a tile is different from a
- 13 window because a tile will typically be smaller
- in size, it doesn't make sense to me, right?
- 15 Because windows can be smaller, tiles can be
- 16 bigger, so on and so forth.
- 17 Sorry. Now I've lost your question.
- 18 Q. Okay. So, you know, the
- 19 specification does say, as you pointed out,
- 20 that the window typically or usually occupies
- 21 90 to 100 percent; right? And the -- I'm
- 22 sorry. That's correct; right?
- 23 A. The specification certainly says
- 24 that.
- Q. Right. That means that the

- 1 D. Karger
- 2 specification allows that a window may be
- 3 smaller than 90 to 100 percent; correct?
- 4 A. Correct.
- 5 Q. And, in fact, the window can be
- 6 pretty small, smaller than a tile; correct?
- 7 A. Correct.
- 8 Q. Okay. So what it says here, that a
- 9 tile is different from a window because a tile
- 10 will typically be smaller in size, that may be
- 11 commenting on the fact that a tile of a size
- 12 let's say 100 by 100 pixels may be bigger or
- 13 smaller than a window because the window is
- 14 variable in size; correct?
- 15 MR. MICALLEF: Objection,
- 16 relevance.
- 17 A. I need to hear that question again.
- 18 Q. All right. You know what? I'm going
- 19 to withdraw that question.
- 20 A. All right.
- 21 O. It's true, is it not, that one
- 22 reading lines 37 through 41 we will call it of
- 23 column 8 of the Exhibit 1001, the '403 patent,
- 24 would understand that typical tiles are going
- 25 to allow the user to view multiple tiles

- 1 D. Karger
- 2 simultaneously if he desires it?
- 3 MR. MICALLEF: Object to form,
- 4 relevance.
- 5 A. That is the assertion of this
- 6 specification, right, that it is -- this
- 7 specification does assert that a tile will be
- 8 smaller in size -- typically be smaller in
- 9 size, allowing the user to view multiple tiles
- 10 simultaneously.
- 11 Q. Okay.
- 12 A. Again, this is where we're sort of in
- 13 this counterfactual world.
- 14 Q. I understand.
- 15 A. Thank you.
- Q. And I think we've established already
- 17 that the '403 doesn't disclose any examples of
- 18 overlapping tiles. Correct?
- 19 MR. MICALLEF: Objection,
- 20 relevance.
- 21 Q. Do you know what? I'll withdraw the
- 22 question. Let's go to paragraph 159 of your
- 23 declaration. That's the next page, page 50 of
- 24 Exhibit 1003. Now, here you say in paragraph
- 25 159 that you understand that in concurrent

- 1 D. Karger
- 2 litigation, the patent owner -- that's
- 3 SurfCast, correct?
- 4 A. Correct.
- 5 Q. -- has asserted that this claim
- 6 language means simply dividing, or divide some
- 7 or all of a display into an array of tiles.
- 8 Correct? That's what that sentence says?
- 9 A. Yes.
- 10 Q. And the claim language we're talking
- 11 about here is the partitioning step of Claim 1
- of the '403 patent; is that correct?
- 13 A. As well as Claims 22 and 46, yes.
- Q. Okay. So what's your understanding
- 15 of the meaning of the word "dividing"?
- MR. MICALLEF: Objection,
- 17 relevance, foundation.
- 18 Q. Let me lay a foundation.
- 19 Do you have an understanding of the
- 20 meaning of the word "dividing"?
- 21 MR. MICALLEF: Same objections.
- 22 A. I have a plain language understanding
- of the meaning of the word "dividing," yes.
- Q. What's your understanding?
- 25 A. This is one of these games where you

- 1 D. Karger
- 2 have to define a term without using it.
- 3 Dividing means separating. We have many
- 4 synonyms. Separating, partitioning, splitting.
- 5 Formally, it would sort of refer to assigning
- 6 each infinitesimal element of the display to
- 7 one or perhaps more of the tiles that you are
- 8 said to be dividing the display among.
- 9 Q. Yeah. And so we're talking now,
- 10 Dr. Karger, or at least I'm asking for your
- 11 understanding of the plain and ordinary
- 12 meaning.
- 13 A. Yes.
- Q. Not in the context of the '403 patent
- 15 at the moment.
- 16 A. Uh-huh.
- 17 Q. Okay. So you said splitting is one
- 18 of the synonyms you gave for dividing.
- 19 A. Splitting up, partitioning,
- 20 separating, yes.
- 21 Q. So partitioning is the word in the
- 22 claim.
- 23 A. That's right.
- Q. So I'm going to ask that we don't
- 25 refer to that word now because we're trying to

- 1 D. Karger
- 2 get -- what I'm trying to ask you, sir, is your
- 3 understanding of the construction here that
- 4 partitioning means dividing or divide some or
- 5 all of the display --
- 6 A. Yes.
- 7 MR. MICALLEF: Object.
- 8 Q. -- into an array of tiles?
- 9 MR. MICALLEF: Objection,
- 10 relevance.
- 11 Q. So you've said your understanding of
- 12 dividing there means splitting.
- 13 A. Sort of tautologically. They're
- 14 synonyms, right?
- 15 Q. Okay.
- 16 A. I don't know that I've helped any
- 17 because I didn't define splitting either.
- 18 Q. Fair enough. Can you think of
- 19 something -- of examples where something is
- 20 split and -- but still overlapping?
- 21 MR. MICALLEF: Object to form,
- 22 relevance.
- 23 A. In some of the work that I do we
- 24 often talk about fuzzy partitioning, fuzzy
- 25 clustering. These are -- most basic meaning of

- 1 D. Karger
- 2 clustering might imply you are taking a group
- 3 of items and separating them into -- each goes
- 4 to one cluster. But there are many cases where
- 5 you want to allow for there to be more than --
- 6 for an item to be associated with more than one
- 7 of the clusters.
- 8 Q. And you used the word "fuzzy
- 9 partitioning"; is that correct --
- 10 A. Yeah.
- 11 Q. -- to describe that concept?
- Does the word "fuzzy" appear in
- 13 Claim 1 of the --
- 14 A. Certainly not.
- 15 Q. Would you understand the '403 patent
- 16 to be referring to fuzzy partitioning in
- 17 Claim 1 --
- 18 MR. MICALLEF: Objection.
- 19 Q. -- when it recites partitioning?
- MR. MICALLEF: Are you done?
- MR. HEINTZ: Yeah.
- MR. MICALLEF: I'm sorry.
- Objection, relevance.
- 24 A. Claim 1 takes no position on whether
- 25 the partition -- actually, let me read Claim 1

- 1 D. Karger
- 2 first.
- 3 Claim 1 takes no position on whether
- 4 the division/partition is fuzzy or not or
- 5 whether it has overlaps or not.
- 6 Q. Is that your understanding of
- 7 Claim 1?
- 8 MR. MICALLEF: Object to --
- 9 objection, relevance.
- 10 Q. Let me withdraw that question. Let
- 11 me ask you a simpler one. If I say to you I'm
- 12 going to divide a room, does that mean that
- 13 the -- any portion of the room is going to be
- 14 overlapping if I've divided it?
- 15 MR. MICALLEF: Objection,
- 16 foundation, relevance.
- 17 A. So I venture that "division" taken
- 18 colloquially often means that you have -- that
- 19 there is some sense in which things are not
- 20 overlapping, some sense in which they are
- 21 separate. But there can be situations where
- 22 they overlap or are nonseparated in other ways.
- For example, if I take a pair of --
- 24 if I think about a pair of windows, visually,
- 25 they're overlapping. Semantically, they are

- 1 D. Karger
- 2 separate.
- 3 Q. In that answer when you're referring
- 4 to windows are you talking about physical
- 5 windows in a room or --
- 6 A. Computer windows, computer windows.
- 7 So computer windows can be thought of as a
- 8 division of a display even when those windows
- 9 are overlapping.
- 10 Q. So getting back to my question about
- 11 dividing a room, if I say I'm going to divide
- 12 the room into two rooms, doesn't that mean to
- 13 you colloquially that the rooms are not
- 14 overlapping?
- 15 A. Yes --
- MR. MICALLEF: Objection,
- 17 relevance.
- 18 A. -- colloquially.
- 19 Q. Sir, are you familiar with the term
- 20 "currency exchange rate"?
- 21 MR. MICALLEF: Objection,
- 22 relevance.
- 23 A. I believe I've seen it used in the
- 24 news.
- Q. What's your understanding of the

- 1 D. Karger
- 2 meaning of the term, if any?
- 3 A. This would be the rate at which one
- 4 can exchange one currency for another currency.
- 5 Q. As an example, it would be the rate
- 6 at which a dollar could be -- or dollars could
- 7 be exchanged for pounds; correct?
- 8 A. Correct.
- 9 O. You're at MIT; correct?
- 10 A. That's right.
- 11 Q. Have you ever heard the term
- 12 "acceptance rate" used with respect to
- 13 admissions at MIT?
- 14 A. Yes.
- 15 Q. What's your understanding of what
- 16 that term means with respect to admissions at
- 17 MIT?
- 18 A. That refers to the portion of
- 19 applying students who are ultimately accepted,
- 20 although at other times it can mean the portion
- 21 of students who we accepted to the program who
- 22 then decided to come.
- Q. I see. Sir, are you familiar with
- 24 the term "bit error rate"?
- 25 A. Yes, I am.

- 1 D. Karger
- 2 Q. In what context are you familiar with
- 3 that term?
- 4 A. That's in various kinds of coding and
- 5 communication settings, and it refers to the
- 6 rate at which bits that are being transmitted
- 7 get flipped or lost.
- 8 Q. Is it something like a number of bits
- 9 flipped or lost as a total of -- as a function
- 10 of the total number of bits in the
- 11 transmission?
- MR. MICALLEF: Objection,
- 13 relevance.
- 14 A. At times it can be stated as a
- 15 probability for each bit to be flipped, but
- 16 yes, there is sort of an association with the
- 17 portion of bits that are being flipped from
- 18 among those that are being transmitted.
- 19 Q. So if I said my bit error rate is
- 20 1 percent, that would mean I would expect that
- 21 out of every hundred bits, one of them would be
- 22 lost in transmission or transmitted
- 23 erroneously; is that right?
- MR. MICALLEF: Objection,
- 25 relevance.

- 1 D. Karger
- 2 A. Right.
- 3 Q. Sir, none of those terms involving
- 4 "rate," "currency exchange rate," "bit error
- 5 rate, " or "acceptance rate, " measured any
- 6 quantity with respect to time; is that right?
- 7 MR. MICALLEF: Objection,
- 8 relevance, ambiguous.
- 9 A. So taking those one at a time, it
- 10 seems to me that "bit error rate" is being used
- in a context when we are thinking about
- 12 transmissions, right? And in those
- transmissions we're often talking about rates
- 14 of transmission, bits per second being
- 15 delivered to a receiver. And so it's sort of
- 16 natural to associate "rate" with that because
- 17 it's sort of anchored in a time rate.
- 18 Similarly, when I hear the words
- 19 "currency exchange rate," it does make me
- 20 think, right, of currency flowing back and
- 21 forth, currency being exchanged, right? As my
- 22 dollars go out, I get back my pounds at a -- at
- 23 a certain -- at a certain rate.
- So I will agree with you that, for
- 25 example, "acceptance rate" does not talk

- 1 D. Karger
- 2 about -- does not have a time component to it
- 3 but it has sort of a connotation of time even
- 4 when it's not actually there.
- 5 Q. Was there anything else you wanted to
- 6 say?
- 7 A. No.
- 8 Q. So for "bit error rate," you said
- 9 that has a -- the idea that bits are
- 10 transmitted at a rate; correct? But the bit
- 11 error rate has nothing to do with transmission
- 12 rate; correct? If I transmit 100 bits at one
- 13 baud rate and a 100 bits at another baud rate,
- 14 assuming they have the same error rate, I'm
- 15 going to expect to get the same number of
- 16 errors regardless of the transmission speed;
- 17 isn't that correct?
- 18 MR. MICALLEF: Object to form,
- 19 relevance.
- 20 A. You will get the same number of
- 21 errors but you will get them at a different
- 22 rate, right? If the transmission is faster,
- 23 the errors will happen faster as well. This
- 24 actually can matter a lot.
- Q. But the bit error rate will be the

- 1 D. Karger
- 2 same --
- 3 A. As defined, will be --
- 4 Q. -- regardless of what the
- 5 transmission rate is; correct?
- 6 A. Correct.
- 7 MR. MICALLEF: Objection,
- 8 relevance.
- 9 Q. So it's correct, then, that the bit
- 10 error rate is not measured with respect to
- 11 time; isn't that correct?
- 12 MR. MICALLEF: Objection.
- 13 O. Isn't that true?
- MR. MICALLEF: Objection,
- 15 relevance.
- 16 A. That is correct.
- 17 O. You mentioned that the admission rate
- 18 at MIT had some connotation of time; correct?
- 19 A. Connotation? I mentioned that rate
- 20 has a connotation of time, yes.
- 21 O. How does the admission rate at MIT
- 22 correlate to time?
- MR. MICALLEF: Objection,
- 24 relevance.
- 25 A. This is why I said connotation.

- 1 D. Karger
- 2 Right? Rate does not automatically -- in the
- 3 absence of anything else, rate has a
- 4 connotation of time. When we talk about the
- 5 admission rate -- although frankly, we usually
- 6 talk about the admission ratio or the admission
- 7 percentage. I don't know that I've heard
- 8 "admission rate."
- 9 But it can become clear from context
- 10 that rate is not being used in a temporal
- 11 sense.
- 12 Q. In fact there are many rates that are
- 13 not used in a temporal sense; isn't that
- 14 correct?
- 15 MR. MICALLEF: Objection,
- 16 relevance, foundation.
- 17 A. I would say I can't count -- I can't
- 18 count quantities, but I would say that it's the
- 19 minority of usages.
- Q. Nonetheless there are many; correct?
- 21 MR. MICALLEF: Same objection.
- 22 A. Since there are many speakers, there
- 23 probably are many usages, yeah.
- Q. Okay. Have you ever heard of a fuel
- 25 consumption rate as expressed in terms of miles

- 1 D. Karger
- 2 per gallon?
- 3 A. Yes.
- 4 Q. Does that rate have anything to do
- 5 with time in any sense?
- 6 MR. MICALLEF: Objection,
- 7 relevance.
- 8 A. It absolutely does, because you're
- 9 going to be driving somewhere and that's going
- 10 to be taking you some time, right? There is a
- 11 temporal aspect to this consumption. The units
- 12 of measurement in this case do not involve time
- 13 but there is a temporal aspect to what's going
- 14 on.
- 15 Q. Are you telling me that the fuel
- 16 consumption rate varies as a function of time?
- 17 MR. MICALLEF: Object to form,
- 18 relevance.
- 19 A. So I don't mean to be tendentious,
- 20 but yes, I do -- but fuel consumption rates can
- 21 vary as a function of time. I don't think
- that's the actual question you were asking, so
- 23 do you want to restate the question?
- Q. What do you think the question I was
- 25 asking was?

- 1 D. Karger
- 2 MR. MICALLEF: Object to form,
- 3 relevance, lack of foundation. And you
- 4 should slow down or she's going to get
- 5 very mad at you.
- 6 A. I think you were asking whether time
- 7 appears in the units of measure of miles per
- 8 gallon.
- 9 Q. Okay.
- 10 A. And it does not.
- 11 Q. Your previous answer sort of alludes
- 12 to the fact that a car's fuel consumption rate
- 13 may change over time because, for instance,
- 14 engine components could become worn; correct?
- 15 A. Correct.
- 16 Q. Okay. But again, it's not necessary
- in the fuel consumption rate -- I'm sorry,
- 18 the -- withdrawn.
- 19 It's correct to say that there are
- 20 many rates that are not measured as a unit or
- 21 as a function of time; correct?
- MR. MICALLEF: Object to form,
- 23 relevance.
- A. Correct.
- Q. I'd like you to go back to

- 1 D. Karger
- 2 Exhibit 1001 and look at the passage at column
- 3 12, lines 50 to 55. Sir, do you have that
- 4 passage?
- 5 A. Yes, I do.
- 6 Q. Did you read that before forming your
- 7 opinions in your expert report?
- 8 A. Yes, I did.
- 9 Q. Okay. So starting at line 50, column
- 10 12, the '403 patent reads: "In a preferred
- 11 embodiment, according to priorities that may be
- 12 applied to individual tiles on a tile by tile
- 13 basis if desired, the grid manages the refresh
- 14 rate of each tile in the grid."
- Do you see that?
- 16 A. Yes, I do.
- 17 Q. Okay. Now, the next sentence begins,
- 18 "For example, for locally stored" -- sorry,
- 19 "stored word processing or spreadsheet files,
- 20 the user may configure the tiles to refresh
- 21 only when the underlying data is written to the
- 22 local hard drive."
- Do you see that?
- 24 A. Yes, I do.
- Q. What's your understanding, if any, of

- 1 D. Karger
- 2 the words "for example" in that sentence?
- 3 MR. MICALLEF: Objection,
- 4 relevance, foundation.
- 5 A. My understanding is that there are to
- 6 follow examples of the concept that has just
- 7 been articulated.
- 8 Q. Is that the concept of refresh rate?
- 9 MR. MICALLEF: Objection,
- 10 relevance, form.
- 11 A. I don't know if you can narrow it
- 12 that finely, right? There's a large sentence
- 13 about priorities that may be applied to
- 14 individual tiles on a tile-by-tile basis. So
- 15 refresh rate is part of the concept being
- 16 discussed, but there's a bunch of other
- 17 material in there as well.
- 18 Q. Okay. You read the sentence and this
- 19 passage that we are discussing when you formed
- 20 your opinion --
- 21 A. Yes.
- 22 Q. -- as expressed in your expert
- 23 report; correct?
- A. Correct.
- Q. Can you tell me now what your

- 1 D. Karger
- 2 understanding is of exactly what the examples
- 3 that are going to follow as indicated by the
- 4 "for example" phrase in that sentence means?
- 5 MR. MICALLEF: Objection,
- 6 relevance, form.
- 7 A. Can you restate? I didn't understand
- 8 that question.
- 9 Q. I'm sorry, let's try again. So
- 10 again, we're looking at column 12, line 53. It
- 11 says "for example."
- 12 A. Uh-huh.
- 13 Q. I believe you told me that you'd
- 14 expect that examples are going to follow.
- 15 A. Yes.
- 16 Q. And I'm asking for your understanding
- 17 of exactly what the following examples are, or
- 18 are examples of.
- 19 MR. MICALLEF: Objection, form,
- 20 relevance.
- 21 A. They -- I would expect them to be
- 22 examples of how, according to priorities that
- 23 may be applied to individual tiles on a
- 24 tile-by-tile basis, the grid manages the
- 25 refresh rate of each tile in the grid.

- 1 D. Karger
- Q. All right. Now, the first example is
- 3 "For locally stored word processing or
- 4 spreadsheet files, the user might configure the
- 5 tiles to refresh only when the underlying data
- 6 is written to the local hard drive."
- 7 Do you see that?
- 8 MR. MICALLEF: Objection, form,
- 9 foundation.
- 10 A. Yes, I do.
- 11 Q. So is it your understanding that that
- 12 is an example of how, according to priorities
- 13 that may be applied to tile, individual tiles
- on a tile-by-tile basis if desired, the grid
- 15 manages the refresh rate of each tile in the
- 16 grid?
- 17 MR. MICALLEF: Objection,
- 18 relevance.
- 19 A. It's my understanding that that is
- 20 presented as an example, yes.
- 0. Okay. And so doesn't that mean
- 22 according to your understanding that refreshing
- 23 a tile only when underlying data is written to
- 24 the local hard drive is an example of a refresh
- 25 rate?

- 1 D. Karger
- 2 MR. MICALLEF: Object to form,
- 3 relevance, foundation.
- 4 A. So as you can see in my report --
- 5 Q. Would you be so kind as to indicate
- 6 where you're referring?
- 7 A. Yes. So just as one example, if you
- 8 look on page 53, paragraph 171, the second line
- 9 of page 53, I reported on exactly this example
- 10 which you've brought up. And again, the
- 11 opening sentence is broad. It talks not
- 12 only -- it doesn't say examples of refresh
- 13 rates are the following. It talks about this
- 14 whole process of managing refreshes based on
- 15 priorities.
- 16 So this first example was
- 17 problematic. It sort of fought against this
- 18 notion of rate being temporal, right?
- 19 But there are several sort of
- 20 reasonable interpretations of what it's talking
- 21 about. One is that the refresh rate on this
- 22 particular example is actually zero. Right?
- 23 There's no requirement that one only refresh
- 24 according to the rate. One can refresh for
- 25 other reasons as well.

- 1 D. Karger
- 2 There's also the possibility that it
- 3 may be referring to the need to poll the
- 4 information in order to see whether it has been
- 5 changed, right? This is how one would
- 6 generally implement this sort of update on
- 7 change is that the system would with some
- 8 periodicity actually query the file system to
- 9 see if there was a change to the document under
- 10 consideration, and if so, it would do a
- 11 refresh.
- 12 Q. Is that your answer?
- 13 A. Yes.
- MR. HEINTZ: Okay. We have to
- 15 stop. We're out of tape over here.
- 16 THE VIDEOGRAPHER: This is the end
- of videotape number 1. Off the record
- 18 at 12:26 p.m.
- 19 (Discussion held off the record.)
- 20 THE VIDEOGRAPHER: This is the
- beginning of tape number 2. Back on the
- 22 record at 12:30 p.m.
- 23 BY MR. HEINTZ:
- Q. Okay. So Dr. Karger, again with
- 25 reference to Exhibit 1003, this time paragraph

- 1 D. Karger
- 2 168, you state that the broadest reasonable
- 3 construction of a retrieval rate would
- 4 encompass any recurring time interval at which
- 5 information is retrieved; correct?
- 6 A. Yes.
- 7 Q. Okay. And then in paragraph 170, you
- 8 state that retrieval rates referred to in
- 9 independent Claim 22 may be either the same or
- 10 different; correct?
- 11 A. Correct.
- 12 Q. Okay. And you mention that that
- 13 conclusion flows from dependent Claim 39, which
- 14 specifies that the first and second retrieval
- 15 rates are different; correct?
- 16 A. Correct.
- 17 Q. So the point you're making here in
- 18 paragraph 170 is that retrieval rates for
- 19 different tiles may be different; is that
- 20 correct?
- 21 MR. MICALLEF: Object to form.
- Q. I'm sorry, let me restate that
- 23 question because I did make a mistake.
- You're making the point in paragraph
- 25 170 that the retrieval rates of different tiles

- 1 D. Karger
- 2 may be the same or may be different; correct?
- 3 A. Can you restate that question once
- 4 more?
- 5 Q. Sure. In paragraph 170, you're
- 6 making the point that the retrieval rates of
- 7 two different tiles may either be the same or
- 8 they may be different; correct?
- 9 A. So if you look at Claim 22, it
- 10 doesn't talk about the retrieval rate of a
- 11 tile, it talks about the rate of retrieval from
- 12 an information source.
- 13 Q. Okay.
- 14 A. So I want to be sure that I
- 15 understand what you're asking.
- 16 Q. Sure. The point of paragraph 170 is
- 17 that the retrieval rates associated with two
- 18 different information sources may either be the
- 19 same or they may be different; correct?
- 20 A. Correct.
- 21 Q. All right. So in paragraph 171,
- 22 where you pointed out, you cite to the passage
- 23 of the '403 specification where we just read,
- 24 you're citing to that passage to illustrate how
- 25 the '403 specification discloses different

- 1 D. Karger
- 2 retrieval rates; isn't that correct?
- 3 MR. MICALLEF: Objection,
- 4 relevance. Form. Object to form too.
- 5 A. Okay. Now can you restate the
- 6 question?
- 7 Q. Yes. The passage in the '403 patent
- 8 at lines 12, 50 to 65, are being cited by you
- 9 in this paragraph of your report as support for
- 10 the proposition that retrieval rates referred
- 11 to in Claim 22 may be the same or may be
- 12 different; isn't that correct?
- 13 MR. MICALLEF: Same objections.
- 14 A. So what I'm actually asserting in 171
- 15 is that the different tiles can be retrieved in
- 16 different ways, okay? But this certainly does
- 17 cover the possibility that they may be
- 18 retrieved according to a rate and at different
- 19 rates.
- Q. Okay. Doesn't it follow, then, that
- 21 the passage that you cite here in paragraph 171
- 22 of your report: "For example, for locally
- 23 stored word processing or spreadsheet files,
- 24 the user might configure the tiles to refresh
- 25 only when the underlying data is written to the

- 1 D. Karger
- 2 hard drive, " doesn't it follow then that that's
- 3 an example of a refresh rate?
- 4 MR. MICALLEF: Object to form,
- 5 relevance, foundation.
- 6 A. It does not. In fact, I think we
- 7 were quite clear in the expert report to sort
- 8 of differentiate these issues. For example,
- 9 in -- what was that paragraph we were just
- 10 looking at?
- 11 Q. Do you mean 170?
- 12 A. 171 actually. "For example,
- 13 refreshes may occur when information is written
- 14 to a hard drive or according to a defined
- 15 refresh rate." Okay? So I do not believe that
- 16 every means of refreshing means a refresh rate.
- 17 Q. Let's start at paragraph 170. You
- 18 say retrieval rates referred to in independent
- 19 Claim 22 may be either the same or may be
- 20 different.
- 21 A. Yes.
- 22 Q. This conclusion, which means the
- 23 conclusion that retrieval rates referred to in
- 24 independent Claim 22 may be either the same or
- 25 may be different, flows from dependent

- 1 D. Karger
- 2 Claim 29 -- 39, which specifies that the first
- 3 and second retrieval rates are different;
- 4 right?
- 5 A. Yes.
- 6 Q. Then you say the '403 specification
- 7 also supports this reading of the claims.
- 8 A. Yes.
- 9 Q. "This reading" meaning that the
- 10 retrieval rates referred to in independent
- 11 Claim 22 may be either the same or may be
- 12 different.
- 13 A. Yes.
- 14 Q. Okay.
- 15 A. But again --
- 16 MR. MICALLEF: Wait for the
- 17 question. Wait for the question.
- 18 THE WITNESS: Oh.
- 19 Q. Then you go on to say that, "For
- 20 example, the '403 specification explains that
- 21 all of the tiles on a display may be configured
- 22 to refresh in the same manner or may be
- 23 individually configured to refresh in different
- 24 ways"; correct?
- 25 A. Yes.

- 1 D. Karger
- 2 Q. Is it your understanding that
- 3 Claim 22 allows for refreshing to occur other
- 4 than in accordance with a refresh rate?
- 5 MR. MICALLEF: Objection, form,
- 6 relevance, foundation.
- 7 A. Claim 22 specifically talks about
- 8 retrieving in accordance with a retrieval rate.
- 9 Q. It requires the retrieving to occur
- in accordance with a retrieval rate; correct?
- 11 A. Correct.
- 12 Q. Okay. Now, I notice on the second
- line on page 53 of your report, Exhibit 1003,
- 14 you say "the defined refresh rate." Are you
- 15 using "refresh rate" and "retrieval rate"
- interchangeably in this paragraph, or are we
- 17 talking about something other than the subject
- 18 matter of Claim 22?
- 19 MR. MICALLEF: Object to form.
- 20 A. I wouldn't say necessarily that I am
- 21 using them interchangeably, but that the things
- 22 that we have been saying about refresh rates
- 23 are -- there are matching things to say about
- 24 retrieval rates.
- 25 Q. Well, I'm just -- I'm confused

- 1 D. Karger
- 2 because at one point we're talking about
- 3 retrieval rates in paragraph 170, then in the
- 4 next paragraph we're talking about a defined
- 5 refresh rate. Is the refresh rate different
- 6 from the retrieval rate in Claim 22?
- 7 MR. MICALLEF: Objection, form,
- 8 relevance, foundation.
- 9 A. What we're doing in this part of the
- 10 expert report is trying to understand the word
- 11 "rate." Right? And so again, this is
- 12 something on which the board has ruled, right?
- 13 They've made their decision about what this
- 14 means. But in this portion of the report,
- 15 we're talking about what a retrieval rate is.
- 16 Right? And there's a previous portion of the
- 17 report talking about what a refresh rate is.
- 18 But they're sort of parallel constructions.
- 19 Even if they don't mean exactly the same thing,
- 20 we expect that the use of the word "rate" is
- 21 being used in the same way in both
- 22 constructions.
- 23 Q. Okay.
- A. So these examples are being drawn out
- 25 to understand how that "rate" modifier is

- 1 D. Karger
- 2 applied on "retrieval" and "refresh."
- 3 Q. So in Claim 22, as you understand the
- 4 claim, is retrieval rate -- sorry, does
- 5 Claim 22 require information from said first
- 6 information source to be retrieved in
- 7 accordance with a first retrieval rate? And
- 8 just so we're clear, I'm looking at column 25,
- 9 starting at line 34.
- 10 A. Uh-huh.
- 11 Q. Okay. So is it true, based on your
- 12 understanding of Claim 22, that the claim
- 13 requires information to be retrieved from the
- 14 first information source in accordance with a
- 15 first retrieval rate?
- MR. MICALLEF: Objection,
- 17 relevant -- relevance.
- 18 A. Yes.
- 19 Q. Okay. It doesn't -- Claim 22 doesn't
- 20 allow it to be -- doesn't allow this
- 21 information to be retrieved by some -- in
- 22 accordance with something other than a
- 23 retrieval rate; correct?
- MR. MICALLEF: Object to form,
- 25 relevance, foundation.

- 1 D. Karger
- 2 A. The claim requires retrieval in
- 3 accordance with a retrieval rate.
- 4 Q. Okay. Are you saying, then, that
- 5 when you cited in paragraph 171 of your report
- 6 the example of locally stored word
- 7 processing -- sorry, locally stored word
- 8 processing or spreadsheet files, the user might
- 9 configure the tiles to refresh only when the
- 10 underlying data is written to the local hard
- 11 drive, that that's not an example of a
- 12 retrieval rate within the scope of Claim 22?
- MR. MICALLEF: Object to form,
- 14 relevance.
- 15 A. So when we were talking about that
- 16 example before, I explained a sense in which
- 17 one could infer a retrieval rate for the case
- 18 of the document on the hard drive in the sense
- 19 that if you have to poll the hard drive in
- 20 order to see whether there has been a change,
- 21 that would be a kind of retrieval rate at which
- 22 you are doing that polling.
- Q. I'm sorry. Is that your answer?
- A. Yeah.
- Q. Okay. '403 patent doesn't say

- 1 D. Karger
- 2 anything about polling in that example, does
- 3 it?
- 4 MR. MICALLEF: Object to form,
- 5 relevance.
- 6 A. It does not say anything.
- 7 Q. It would be possible to use an
- 8 interrupt mechanism to perform exactly the same
- 9 thing, wouldn't it?
- 10 A. It would be possible.
- 11 Q. All right. So again, you put in
- 12 paragraph --
- 13 A. It would not be -- it would not be
- 14 typical.
- 15 Q. In paragraph 171, you repeated the
- 16 words from the specification, and what I'm
- 17 trying to find out is in your opinion, is this
- 18 example of refreshing only when underlying data
- 19 is written to the local hard drive, is that an
- 20 example of a retrieval rate in Claim 22 or
- 21 isn't it?
- MR. MICALLEF: Object to form,
- 23 relevance, lack of foundation.
- A. So the polling example that I just
- 25 gave you would, I think, be an example of

- 1 D. Karger
- 2 retrieval information in accordance with a
- 3 rate.
- 4 Q. Are you saying that the
- 5 interrupt-driven example would not be?
- 6 MR. MICALLEF: Object to form,
- 7 relevance.
- 8 A. If the retrieval -- if the refresh
- 9 happened only at an interrupt, which might
- 10 happen only once, after all, then no, I do not
- 11 think that would fit the definition of a rate.
- 12 Q. What if it happened both during an
- interrupt and on some other basis?
- 14 MR. MICALLEF: Object to form,
- 15 relevance, lack of foundation.
- 16 A. You could certainly have some sort of
- 17 mixed system where you were polling at a
- 18 particular rate and also taking interrupts.
- 19 Q. Would that be within the scope of a
- 20 retrieval rate of Claim 22 or wouldn't it?
- 21 MR. MICALLEF: Object to form,
- foundation, relevance.
- 23 A. Well, if you were polling at a given
- 24 rate, then yes, it would be in the scope of
- 25 Claim 22.

- 1 D. Karger
- Q. Even though you're also writing on an
- 3 interrupt basis, in addition to whatever
- 4 polling you were doing?
- 5 MR. MICALLEF: Object to form,
- 6 foundation, relevance.
- 7 A. Yes, my understanding is that as long
- 8 as you satisfy the claims as stated, what else
- 9 you're doing doesn't actually matter.
- 10 Q. Did you alert the reader in your
- 11 report as to this distinction you're making
- 12 about when this example in the spec is relevant
- 13 to what a rate is and what it's not?
- 14 A. Well, as I said, in our text, we do
- 15 attempt to draw this distinction, that there
- 16 can be refreshes happening -- that refreshes
- 17 are happening not only at a rate but that there
- 18 can be other manners of -- let me look for the
- 19 exact text. Right, refreshes may occur when
- 20 information is written to a hard drive or
- 21 according to a defined retrieval rate. So I
- 22 think we're making it pretty clear that writing
- 23 to a hard drive is not in the class of defined
- 24 retrieval rate.
- Q. But it's not clear that writing to

- 1 D. Karger
- 2 the hard drive is not in the larger class of
- 3 refresh rates, is it?
- 4 MR. MICALLEF: Object to form,
- 5 relevance.
- 6 A. I just said it isn't, right? Why
- 7 would we say written to a hard drive or
- 8 according to a refresh rate?
- 9 Q. You said, in fact, a defined refresh
- 10 rate, didn't you, in your report?
- 11 A. Yes.
- 12 Q. And Claim 22 doesn't say "defined
- 13 refresh rate, does it?
- 14 MR. MICALLEF: Object to form,
- 15 relevance.
- 16 A. That's correct.
- 17 Q. So your report doesn't alert the
- 18 reader that when data's written to the hard
- 19 drive according to the example, it's not within
- 20 the scope of Claim 22, which doesn't recite
- 21 defined refresh rate, does it?
- 22 A. Again, in this report, we explain or
- 23 I explain how I think "rate" should be
- 24 interpreted, and I talk about it being a
- 25 recurring time interval, right? So hard drive

- 1 D. Karger
- 2 isn't there, right? It just doesn't fit into
- 3 the definition that I'm giving. I mean, I --
- 4 I'm not sure how I could have been clearer than
- 5 that about this is what I think a refresh rate
- 6 is.
- 7 Q. Isn't it true you forgot your earlier
- 8 distinction when you got to this paragraph and
- 9 you're using this to support the notion that
- 10 the refresh rates can be different or the
- 11 retrieval rates can be different?
- 12 A. I don't understand the question. I
- 13 forgot what?
- 14 Q. That you forgot what you had said
- 15 earlier about this example not being an example
- 16 of a rate when you went to find support for the
- 17 proposition that the rates could be different?
- 18 A. Oh, no, I --
- 19 MR. MICALLEF: Object to form.
- 20 A. Actually, I didn't forget at all
- 21 because this was something I spent some time
- 22 thinking about to try to understand what the
- 23 patent was saying. I simply wanted to ground
- 24 what I was saying in what I had actually
- 25 written.

```
1 D. Karger
```

- Q. Okay. And you believe here in
- 3 paragraph 171 your discussion of something
- 4 that's not a rate is going to help somebody
- 5 understand what retrieval rate in Claim 22
- 6 means; is that right?
- 7 MR. MICALLEF: Object to form,
- 8 relevance, foundation, argumentative.
- 9 A. Yes.
- 10 MR. HEINTZ: Great. Thanks. I'm
- 11 cognizant of the fact we're running
- 12 pretty late in the day now. It's 12:47.
- 13 If it's acceptable, I think we should
- 14 probably break for lunch.
- 15 MR. MICALLEF: Sure.
- 16 THE VIDEOGRAPHER: Off the record
- 17 at 12:47 p.m.
- 18 (A luncheon recess was taken from
- 19 12:47 p.m. through 1:56 p.m.)
- 20 THE VIDEOGRAPHER: Back on the
- 21 record at 1:56 p.m.
- 22 BY MR. HEINTZ:
- Q. Okay, Dr. Karger, just a couple of
- 24 follow-up questions on what we discussed prior
- 25 to the break. First of all, did you have any

- 1 D. Karger
- 2 discussions with anybody during the break?
- 3 A. No.
- 4 Q. Okay.
- 5 A. About anything relevant to this case.
- 6 Q. Okay. So going back again to
- 7 Exhibit 1003, and the discussion in paragraph
- 8 171.
- 9 A. Yes.
- 10 Q. Okay? In particular, the first full
- 11 sentence on page 53 of Exhibit 1003. The
- 12 sentence reads, "For example, refreshes may
- 13 occur when information is written to a hard
- 14 drive or according to a defined refresh rate."
- 15 Do you see that?
- 16 A. Yes.
- 17 O. Does that mean that refreshing when
- 18 information is written to a hard drive is not a
- 19 refresh rate?
- 20 MR. MICALLEF: Objection,
- 21 relevance.
- 22 A. That's correct, certainly according
- 23 to the board's interpretation of refresh rates.
- 24 Information -- having the criterion be that the
- 25 information is written to a hard drive is not a

- 1 D. Karger
- 2 refresh rate criteria.
- 3 Q. You answered that question with
- 4 respect to the board's construction. Is the
- 5 answer the same with respect to your
- 6 construction?
- 7 A. Yes.
- 8 MR. MICALLEF: Objection,
- 9 relevance.
- 10 Q. Okay. Now, going back to
- 11 Exhibit 1001 --
- 12 A. Just to clarify something.
- 13 O. Sure.
- 14 A. You could imagine writing to a hard
- 15 drive at a certain rate, where it says sort of
- 16 periodic write to a hard drive, which would
- 17 then cause the refresh to happen at a
- 18 particular rate.
- 19 But I just -- the writing -- the
- 20 criterion being refresh when there's a write to
- 21 the hard drive is not a refresh rate.
- Q. Right. Thank you. So going back to
- 23 Exhibit 1001, then, the '403 patent again.
- 24 I'll direct you to the passage we looked at
- 25 earlier at column 12. So that would mean under

- 1 D. Karger
- 2 your construction, then, that the example that
- 3 starts on line 53, that the user might
- 4 configure the tiles to refresh only when the
- 5 underlying data is written to the local hard
- 6 drive, is not in fact an example of the grid
- 7 managing the refresh rate of each tile in the
- 8 grid. Is that correct?
- 9 MR. MICALLEF: Objection.
- 10 Objection, relevance.
- 11 A. I wouldn't say that. For example, to
- 12 decide not to assign a refresh rate is a way of
- 13 managing the refresh rate.
- 14 Q. In Claim 1 of the '403 patent -- and
- 15 if you'd like to refer to it, it's column 24 --
- 16 there's a step in Claim 1 that reads at line
- 17 23, "assigning a first refresh rate to a first
- 18 tile of said array of tiles"; correct?
- 19 A. Yes.
- Q. Okay. Does that mean then that the
- 21 example at column 12, line 53, of the user --
- 22 starting at line 53, of the user configuring
- 23 the tiles to refresh only when the underlying
- 24 data's written to the local hard drive, is not
- 25 within the scope of Claim 1?

- 1 D. Karger
- 2 MR. MICALLEF: Objection, form,
- 3 relevance.
- 4 A. I would say that it still can fit the
- 5 form in the sense that a refresh rate of zero
- 6 is sort of an edge case or a base case. Sorry,
- 7 that's not quite the right word. What word am
- 8 I looking for? A refresh rate of zero is a
- 9 distinctive case in that it means that you're
- 10 not refreshing. Right? There's no specific
- 11 finite period of time within which the refresh
- 12 just happened, but for convenience of
- 13 discussion, it's useful to refer to that as a
- 14 refresh rate of zero.
- 15 Q. Well, so I'm confused by your answer,
- 16 so let's try to work backwards.
- 17 A. Uh-huh.
- 18 Q. You've said that with respect now to
- 19 the statement in paragraph 171 of Exhibit 1003,
- 20 that refreshing when information is written to
- 21 a hard drive is not according to a -- sorry,
- 22 not refreshing according to a refresh rate;
- 23 correct?
- MR. MICALLEF: Objection,
- 25 relevance.

- 1 D. Karger
- 2 A. I'm trying to think of the proper
- 3 example of what I want to explain.
- 4 So I guess with a diet soda you could
- 5 refer to it as having zero calories or as
- 6 having no calories. So we could get into a
- 7 sort of a -- we could try and figure out
- 8 whether zero calories is a -- whether having
- 9 zero calories is a way of describing having
- 10 calories or not, and I think in a similar
- 11 fashion when you talk about a refresh rate of
- 12 zero, it's a useful label for what is happening
- if you want to always talk in terms of refresh
- 14 rates, but it's also very natural to talk in
- 15 terms of not having a refresh rate if your
- 16 refresh rate is zero.
- 17 Q. Well, you know, the difference in
- 18 your example, I guess, is that in your example
- 19 the soda has no calories, whereas in this
- 20 example, the tile is going to be refreshed at
- 21 various points; correct?
- 22 MR. MICALLEF: Objection, form,
- 23 relevance.
- A. That's correct, but that does not
- 25 mean that it has a nonzero refresh rate.

- 1 D. Karger
- 2 Q. Okay. So again, yes or no, under
- 3 your understanding of what refresh rate means,
- 4 does refreshing -- sorry, is refreshing when
- 5 information is written to a hard drive an
- 6 example of refreshing according to a refresh
- 7 rate?
- 8 MR. MICALLEF: Objection, form,
- 9 relevance.
- 10 A. So I guess what I would say is that
- 11 refreshing only when information is written to
- 12 a hard drive, not any periodicity, is not
- 13 refreshing according to a rate. However, it
- 14 can happen that the -- in that circumstance, it
- 15 is quite reasonable to talk about having a
- 16 refresh rate of zero. It just means that
- 17 you're never refreshing according to that rate
- 18 because -- well, that rate would never make you
- 19 refresh.
- 20 Q. So that would mean, I believe, would
- 21 it not, that the example of configuring the
- 22 tiles to refresh only when the underlying
- 23 data's written to the local hard drive is not
- 24 within the scope of Claim 1 under your
- 25 construction of refresh rate; correct?

- 1 D. Karger
- 2 MR. MICALLEF: Object to form,
- 3 objection based on relevance.
- 4 A. So I think what that question hinges
- 5 on is whether -- forget about the hard drive
- 6 updates at all. If you assign a refresh rate
- 7 of zero to something and as a result it never
- 8 updates, is that in accordance -- is that
- 9 updating in accordance with a refresh rate? I
- 10 think it's a bit ambiguous. Right?
- 11 To never update is indeed -- I mean
- 12 that's in accordance with this refresh rate of
- 13 zero. So it becomes sort of vacuously true
- 14 that you are updating in accordance with the
- 15 refresh rate of zero because you never update.
- 16 So I think it could -- I think it can be read
- 17 as fitting the claim.
- 18 Q. Does the '403 patent describe any
- 19 examples of a zero refresh rate?
- 20 A. Well, we've just discussed one,
- 21 right? The hard drive example is sort of
- 22 implicitly describing a refresh rate of zero,
- 23 or it's -- it's staying mum on the issue;
- 24 right? As we discussed before, you could have
- 25 a mixed rule where you refresh at a rate and

- 1 D. Karger
- 2 also on some sort of trigger. The patent, the
- 3 specification doesn't say in that example
- 4 whether there is also a refresh rate.
- 5 Q. Well, doesn't the --
- 6 A. The patent doesn't say whether there
- 7 is also a nonzero -- whether there's a nonzero
- 8 refresh rate or a zero refresh rate along with
- 9 that criterion of updating where there is a
- 10 write to the hard drive.
- 11 Q. Doesn't the passage say, for example,
- 12 for locally stored word processing or
- 13 spreadsheet files, the user might configure the
- 14 tiles to refresh only when the underlying
- 15 data's written to a local hard drive? And is
- 16 it not correct that we've established that the
- 17 example that's being discussed here is an
- 18 example of the grid managing the refresh rate
- 19 of each tile in the grid?
- 20 MR. MICALLEF: Objection, form,
- asked and answered, argumentative,
- 22 compound, irrelevant.
- 23 A. You are correct. I think the telling
- 24 word is "only." That if it asserts it is only
- 25 going to refresh when data is written to the

- 1 D. Karger
- 2 hard drive, that would imply a refresh rate of
- 3 zero.
- 4 Q. And yet that would be an example of a
- 5 refresh rate according to this passage of the
- 6 patent, would it not?
- 7 MR. MICALLEF: Objection, form,
- 8 irrelevant.
- 9 A. It would be an example of assigning a
- 10 refresh rate of zero.
- 11 Q. I'm sorry. Was there something
- 12 further?
- 13 A. It would be an example of assigning a
- 14 refresh rate of zero. However, none of the
- 15 refreshes -- none of the refreshes that
- 16 actually happened would be rate-driven
- 17 refreshes.
- 18 Q. So would that example fall within the
- 19 scope of Claim 1?
- 20 MR. MICALLEF: Objection, form,
- asked and answered, irrelevant.
- 22 A. I believe that it would in the sense
- 23 that not refreshing at all is in accordance
- 24 with a refresh rate of zero.
- Q. And by refresh rate of zero in your

- 1 D. Karger
- 2 answer, you refer to never refreshing at all or
- 3 just not refreshing on any predetermined
- 4 recurring time interval?
- 5 MR. MICALLEF: Objection, form,
- 6 relevance.
- 7 A. The latter. Not refreshing at a time
- 8 interval.
- 9 Q. Okay, thank you. Dr. Karger, I'd
- 10 like you to turn to paragraph 217 of your
- 11 report. The first line of paragraph 270 --
- 12 sorry, 217 reads, "I'll be making frequent use
- 13 of our community's understanding of
- 14 abstraction, modularity, and reuse."
- 15 Do you see that?
- 16 A. Yes.
- 17 Q. What do you mean by "our community"
- 18 in that sentence?
- 19 A. Computer programmers, software
- 20 engineers, people who write software.
- 21 Q. Does that include -- is everyone of
- 22 ordinary skill in the art in that community?
- MR. MICALLEF: Objection, form.
- A. In the art we are discussing today,
- 25 yes.

- 1 D. Karger
- Q. I'd also like you to direct your
- 3 attention now to paragraph 223. Okay. Near
- 4 the bottom of page 68 of Exhibit 1003, there's
- 5 a discussion of xbiff, xperformon.
- 6 A. That's a typo. I think it's xperfmon
- 7 is the actual --
- 8 MR. MICALLEF: Wait for the
- 9 question.
- 10 THE WITNESS: Right. Sorry.
- 11 MR. HEINTZ: Please let him finish
- his answer before you admonish him,
- 13 Mr. Micallef.
- 14 Q. And with that correction, on the
- 15 following page, 69, there's also a reference to
- 16 xclock.
- 17 Do you see that?
- 18 A. Yes.
- 19 Q. All right. Are you aware of anyone
- 20 ever calling any of those three things a tile?
- 21 MR. MICALLEF: Objection.
- Q. Are you aware of anyone referring to
- 23 any of those three things as a tile?
- MR. MICALLEF: Objection, form.
- 25 A. I don't think I -- I don't recall

- 1 D. Karger
- 2 hearing anybody call them tiles, no.
- 3 MR. HEINTZ: Okay. All right, I'm
- 4 going to ask the reporter to hand to
- 5 Dr. Karger what's been marked as
- 6 Exhibit 1007.
- 7 Before I do I'd like to make the
- 8 record clear, Dr. Karger and Joe, I've
- 9 taken Exhibit 1007, which is the MSIE
- 10 resource kit reference, and only
- 11 extracted the portions of it that I saw
- 12 cited in your report. I do have a
- complete copy here if you'd like to
- refer to it, but just for ease of
- 15 transportation I've done this. So I
- 16 hope there'd be no objections to it on
- this basis.
- 18 MR. MICALLEF: As long as you have
- one that he can look at if he wants to.
- MR. HEINTZ: I do.
- 21 MR. MICALLEF: Okay. In fact, I'll
- represent to you right now that this is,
- in fact, the entire Exhibit 1007.
- 24 Please feel free to ask for this at any
- 25 time.

- 1 D. Karger
- THE WITNESS: All right.
- 3 MR. MICALLEF: Why don't you put it
- 4 somewhere up here. We can close this
- 5 here.
- 6 MR. HEINTZ: Here.
- 7 BY MR. HEINTZ:
- 8 Q. Okay. Dr. Karger, do you recognize
- 9 at least the portions of Exhibit 1007 that have
- 10 been placed before you?
- 11 A. Yes, I do.
- 12 O. This is what's referred to as MSIE
- 13 Kit in your declaration?
- 14 A. Yes.
- 15 Q. Thank you. All right. I'd like you
- 16 to turn to paragraph 256 of -- now, this is
- 17 Exhibit 1003, your declaration.
- Do you see, sir, in paragraph 256 you
- 19 say that "MSIE Kit explains that by default,
- 20 Internet Explorer lays out new active desktop
- 21 items on a 3-by-2 grid"?
- 22 A. Yes.
- Q. You cite several places for support
- 24 for that proposition. One of those places I
- 25 believe is referred to as XXX, which is Roman

- 1 D. Karger
- 2 numeral XXX of Exhibit 1007; is that correct?
- 3 A. I can't see the page numbers. I'm
- 4 getting there.
- 5 Q. If it helps, it's the page that --
- 6 A. Yes, I have it here.
- 7 Q. All right, great. Thank you. So
- 8 while you're on that page, does MSIE Kit
- 9 explain that by default Internet Explorer lays
- 10 out new active desktop items on a 3-by-2 grid?
- 11 MR. MICALLEF: Object to form,
- 12 foundation.
- Q. Dr. Karger, my question's only with
- 14 respect to page XXX, or Roman XXX.
- 15 A. Understood. The reason I've been
- 16 looking elsewhere is that I don't think the
- 17 point is that each of these independently
- 18 demonstrates that Internet Explorer lays out
- 19 items on a 3-by-2 grid, but is simply gathering
- 20 several different elements that together make
- 21 this point.
- 22 Q. Thank you. I see.
- 23 A. All right. This one was brought in
- 24 because it has a 2-by-2 grid showing, to just
- 25 give some context.

- 1 D. Karger
- 2 Q. Is that 2-by-2 grid you're referring
- 3 to the one that includes what appears to be a
- 4 picture of the Golden Gate Bridge in the lower
- 5 left-hand corner?
- 6 A. Yes.
- 7 Q. Okay. Is that a single active
- 8 desktop item based on your understanding, or
- 9 multiple active desktop items?
- 10 MR. MICALLEF: Object to form.
- 11 A. I fear that the resolution is -- I
- 12 fear that I can't tell from what is being shown
- 13 in the picture.
- 14 Q. I'm going to direct your attention to
- 15 the lower left-hand corner of the image of the
- 16 Golden State Bridge -- Golden Gate Bridge.
- 17 Do you see that?
- 18 A. Yes.
- 19 Q. Do you see underneath that there's --
- 20 there appears to be a square surrounded by a
- 21 circle?
- 22 A. Maybe. What I see is a white smudge.
- Q. To the right of that, there is some
- 24 other smudge.
- 25 Do you see that?

- 1 D. Karger
- 2 A. Yes.
- 3 Q. And then all the way across, there is
- 4 a -- what appears to be a somewhat circular
- 5 object.
- 6 Do you see that?
- 7 A. Yes.
- 8 Q. Do you have any understanding as to
- 9 whether those things represent some sort of bar
- 10 that stretches across the entirety of the four
- 11 images?
- MR. MICALLEF: Object to form. I'm
- sorry to interrupt you, counsel, but are
- 14 you looking at the same picture, the two
- of you?
- 16 THE WITNESS: Yes, we are.
- 17 MR. MICALLEF: I don't think so.
- 18 MR. HEINTZ: You're looking at --
- 19 you're correct. You're looking at the
- declaration. Something has gone wrong.
- 21 MR. MICALLEF: It's smaller.
- That's the point.
- MR. HEINTZ: Right.
- Q. So for the record I'd like you to --
- 25 yeah, page 30, or Roman XXX -- I think those

- 1 D. Karger
- 2 are also Roman numerals, so I'm not sure.
- 3 MR. MICALLEF: XXX.
- 4 MR. HEINTZ: XXX of Exhibit 1007.
- 5 A. Okay. Here we are.
- 6 Q. To be clear, again, we are on
- 7 Exhibit 1007, page XXX.
- 8 A. Yes.
- 9 Q. Okay. And again, with respect to
- 10 what you previously characterized as a 2-by-2
- 11 array of active desktop items?
- 12 A. That's not how I characterized it.
- 13 Q. I'm sorry. How did you characterize
- 14 it?
- 15 A. I said that there was a 2-by-2 grid.
- 16 Q. Okay. With respect to the 2-by-2
- 17 grid, I've asked you whether that's a single
- 18 active desktop item or multiple active desktop
- 19 items.
- 20 A. Right. And my response was that I
- 21 can't tell given the resolution of the
- 22 screenshot.
- Q. If it turns out that that 2-by-2 grid
- 24 is a single active desktop item, does that
- 25 change your answer -- I'm sorry, does that

- 1 D. Karger
- 2 change your opinion that page XXX of
- 3 Exhibit 1007 discloses or supports a disclosure
- 4 that active -- I'm sorry, Internet Explorer
- 5 lays out new active desktop items on a 3-by-2
- 6 grid?
- 7 MR. MICALLEF: Object to form,
- 8 foundation.
- 9 A. Yeah, again, at this resolution it's
- 10 kind of hard to tell, right? If we posit that
- 11 that's a single active desktop item, there's a
- 12 thing with like a 15 which might be another
- 13 active desktop item, which might be immediately
- 14 below the map on the screen. The picture's
- 15 just too fuzzy. So I fear I can't really -- I
- 16 can't really say what could be inferred if it
- 17 turns out -- well, it is conceivable that this
- 18 image is not relevant to the assertion made in
- 19 paragraph 256. The quote is from one of the
- 20 other citations elsewhere in the -- from one of
- 21 the other listed citations.
- Q. Okay. I'm going to ask you to turn
- 23 now -- and I'll represent to you that this
- 24 is -- what I'm about to tell you is true. So
- 25 we can stay in Exhibit 1007 and avoid

- 1 D. Karger
- 2 confusion.
- 3 The next thing you cite in your
- 4 report after page XXX are pages 176 to 177 of
- 5 MSIE Kit, Exhibit 1007.
- 6 A. Yes.
- 7 Q. Okay. And I believe you'll find that
- 8 in the portion of Exhibit 1007 in front of you
- 9 we've included those pages.
- 10 Do you see them, 176 to 177?
- 11 A. Yes, I do.
- 12 Q. Can you tell me, sir, what on those
- 13 pages supports the notion that MSIE Kit
- 14 explains that by default, Internet Explorer
- 15 lays out new active desktop items on a 3-by-2
- 16 grid?
- 17 MR. MICALLEF: Objection,
- 18 foundation.
- 19 A. So to be clear, the quote in
- 20 paragraph 256 is from page 183, okay? So this
- 21 is --
- 22 Q. Thank you.
- 23 A. This is not a made-up-from-nowhere
- 24 quote. It is coming out of the document. And
- 25 it makes the point very clearly.

- 1 D. Karger
- Q. I apologize if I implied anything to
- 3 the contrary, but I am interested in what --
- 4 A. Why we added other --
- Q. Yes.
- 6 A. Why I added other elements.
- 7 MR. MICALLEF: Object to form.
- 8 A. Yeah, I would probably ascribe this
- 9 to a simple editing error. I mean, you know,
- 10 all that's needed in support of this quote is
- 11 number 183, and the others probably just came
- 12 out -- came along in some copy and paste or
- 13 something like that.
- Q. Okay. Let's take a look at page 180.
- 15 Were you able to find anything on page 180 that
- 16 supports the notion that Internet Explorer lays
- 17 out new active desktop items on a 3-by-2 grid
- 18 by default?
- 19 MR. MICALLEF: Object to form,
- 20 foundation.
- 21 A. I think again that I'll make the
- 22 point that all that this paragraph is asserting
- 23 is that the document states that by default,
- 24 Internet Explorer lays out new active desktop
- 25 items on a 3-by-2 grid. That can be found on

- 1 D. Karger
- 2 page 183 and it's unlikely to be found in any
- 3 of these other quotations.
- 4 Q. So I can take that as a no, there's
- 5 nothing on page 180 that supports that notion?
- 6 MR. MICALLEF: Object to form,
- 7 foundation.
- 8 A. Sorry, can you ask the question once
- 9 more?
- 10 Q. Yes. Is there anything on page 180
- 11 of Exhibit 1007 that indicates that by default
- 12 Internet Explorer lays out new active desktop
- 13 items on a 3-by-2 grid?
- MR. MICALLEF: Same objections.
- 15 A. So the problem is that this page
- 16 references several other pages, and so in order
- 17 to answer that question definitively, I will
- 18 need to read other -- I will need to read
- 19 chapter 16 and part 4 of the document. I can
- 20 do so if you like.
- 21 O. But it would be true that nothing on
- 22 the page itself supports it; it might be found
- 23 in other pages?
- MR. MICALLEF: Object to form.
- 25 A. Well, does a reference to a place

- 1 D. Karger
- 2 that supports it count as something that
- 3 supports it? I -- again, sort of asking what
- 4 exactly you're asking.
- 5 Q. Okay. You don't cite chapter 16 in
- 6 paragraph 256 of your report, do you?
- 7 A. That's correct. But as I said -- and
- 8 it may not be relevant, but I'm simply pointing
- 9 out that there's a reference to chapter 16 on
- 10 this page 180. So if you want to say nothing
- 11 supports it, I would have to read more
- 12 extensively before I could agree to that
- 13 statement.
- 14 Q. Okay. How about page -- let me ask
- 15 you a question now. Going back to page 176 we
- 16 talked about earlier, there is a -- what
- 17 appears to be an HTML layer with active desktop
- 18 items depicted on that page, isn't there?
- 19 A. Yes.
- Q. And up in the upper left-hand corner
- 21 there's something labeled an icon layer;
- 22 correct?
- 23 A. Yes.
- Q. And what's depicted underneath those
- 25 words are not active desktop items, are they?

- 1 D. Karger
- 2 MR. MICALLEF: Object to form.
- 3 A. What's depicted underneath those
- 4 words?
- 5 Q. In other words, the circles with the
- 6 rectangles underneath them, those are icons.
- 7 Those aren't active desktop items, are they?
- 8 MR. MICALLEF: Object to form.
- 9 A. Yes. If you look at page 175, you
- 10 will see it clearly stated that the icon layer
- 11 has the user's existing desktop shortcuts and
- 12 the background HTML layer has all the active
- 13 desktop items.
- 14 Q. So those symbols that appear to be
- 15 composed of circles and rectangles are, in
- 16 fact, the desktop items. Those are icons;
- 17 correct?
- 18 MR. MICALLEF: Object to form.
- 19 A. That would be a natural way to
- 20 interpret the diagram. It doesn't explicitly
- 21 say.
- Q. Would that be the way you interpret
- 23 it?
- 24 A. Yes.
- Q. All right. So what I see then on

- 1 D. Karger
- 2 page 1 -- in the figure on page 176 are perhaps
- 3 two active desktop items referred to as desktop
- 4 components, one square, one rectangular;
- 5 correct?
- 6 A. Correct.
- 7 Q. And the square overlays or overlaps
- 8 part of the rectangle; correct?
- 9 A. Correct.
- 10 Q. Would you characterize that as an
- 11 array?
- MR. MICALLEF: Object to form.
- 13 A. You still don't want me to look at
- 14 the board report?
- 15 Q. No, just your understanding.
- MR. MICALLEF: Objection,
- 17 relevancy, lack of foundation.
- 18 Q. I'm going to withdraw that question.
- 19 I said "array," I believe.
- 20 A. Yes, you did.
- Q. What I meant to ask you is grid.
- 22 Does anything on page 176 -- I'm sorry. Are
- 23 the two what we've described as active desktop
- 24 items depicted on 176, are they arranged in a
- 25 grid?

- 1 D. Karger
- 2 A. All right. Can you restate the
- 3 question?
- 4 Q. Yes. Are the active desktop items
- 5 depicted on page -- in the figure on page 176
- 6 on Exhibit 1007 arranged in a grid?
- 7 A. So this is again a case where I
- 8 believe the board has something to say, which
- 9 is what we should be paying attention to. But
- 10 you're asking about my own personal opinion?
- 11 Q. Uh-huh.
- 12 MR. MICALLEF: Objection,
- 13 relevance.
- 14 A. So my personal opinion would be that
- 15 these two items, taken in isolation, are not
- 16 arranged in a grid.
- Q. When you say "taken in isolation," do
- 18 you mean taken in isolation from the rest of
- 19 the figure on that page?
- 20 A. No. I mean that with only two items,
- 21 it's kind of hard to tell if there is a grid.
- 22 Q. Does the fact that one overlaps the
- 23 other prevent it from being a grid under your
- 24 understanding?
- 25 MR. MICALLEF: Objection,

- 1 D. Karger
- 2 relevance.
- A. Again, since we're talking about my
- 4 personal opinion rather than the board's
- 5 interpretation, I think it would be possible to
- 6 see overlaps and still perceive a grid.
- 7 Q. Okay. We're almost done with this
- 8 line of questioning, Doc. Let's go to page
- 9 174. Is there anything on page 174 that
- 10 supports the notion that by default Internet
- 11 Explorer lays out new active desktop items on a
- 12 3-by-2 grid?
- MR. MICALLEF: Object to form.
- 14 A. So again, this quote from page 180 is
- 15 not duplicated on page 174. It's page 180
- 16 which makes the key point.
- 17 Q. Well, I understand that the quote is
- 18 not duplicated, but my question was: Does
- 19 anything on page 174 support the notion of the
- 20 quoted language?
- 21 A. No, I think the quoted language
- 22 supports itself.
- Q. Okay. And last page is page 213.
- 24 The question again is: Does anything on page
- 25 213 support the notion that by default,

- 1 D. Karger
- 2 Internet Explorer lays out new active desktop
- 3 items on a 3-by-2 grid?
- 4 A. No.
- 5 Q. Okay. So let's turn to page 183 now
- of Exhibit 1007. That's the place where the
- 7 quote appears; is that correct?
- 8 A. Correct.
- 9 Q. Okay. And that's in the paragraph
- 10 next to the bullet point that starts "Smaller
- 11 is better"; correct?
- 12 A. Correct.
- 13 Q. Just turn briefly to the first page
- 14 of Exhibit 1007.
- Do you see there in the upper
- 16 left-hand corner there's a -- yes, that's it --
- 17 there's a notation that says "CD-ROM included"?
- 18 A. Yes.
- 19 Q. Did you get a CD-ROM -- I'm sorry,
- 20 have you looked at the CD-ROM that's included
- 21 with this Internet Explorer?
- 22 A. No.
- Q. Why haven't you looked at it?
- A. Why haven't I looked at it? I think
- 25 because I saw enough in the document to make

- 1 D. Karger
- 2 the points that I wanted to make.
- 3 Q. The CD-ROM is in your possession; is
- 4 that right?
- 5 A. No.
- 6 Q. Not today, but I mean in your
- 7 possession -- were you provided a copy of the
- 8 CD-ROM that accompanied this reference?
- 9 A. No.
- 10 Q. Okay. Did you ask for the CD-ROM?
- 11 A. No.
- 12 Q. So you don't know whether the
- 13 statement on page 183 of Exhibit 1007 is
- 14 actually reflective of what the software on the
- 15 CD-ROM does, do you?
- MR. MICALLEF: Object to form, lack
- of foundation, irrelevant.
- 18 A. That's correct. Of course I will --
- 19 if I can elaborate, I'll make the point that
- 20 even if the software doesn't do it, that the
- 21 manual does suggest that it can be done.
- Q. I see. So let's turn to page -- I'm
- 23 sorry, paragraph 267 of your report, which
- 24 again is Exhibit 1003.
- 25 A. Yes.

- 1 D. Karger
- Q. Okay. So the first line of paragraph
- 3 267 reads, "MSIE Kit shows that Internet
- 4 Explorer can use any graphic, audio, video,
- 5 website, Java applet, ActiveX, HTML file as the
- 6 information" -- sorry, "as the information
- 7 source for a desktop item."
- 8 Do you see that statement?
- 9 A. Yes.
- 10 O. Is that statement correct?
- 11 A. For a colloquial meaning of the word
- 12 "any"; right? And I -- I -- that is, I'm sure
- 13 I could find a strange esoteric graphics format
- 14 that Internet Explorer doesn't know how to
- 15 display. Right?
- 16 However, if we're talking about the
- 17 common -- commonly recognized graphics formats,
- 18 audio formats, video formats, and so forth,
- 19 then I think "any" is a fair characterization.
- 20 Q. Now, are you talking about Internet
- 21 Explorer as it exists today or as it existed at
- 22 the time of the MSIE Kit reference?
- 23 A. So I guess I'm talking about "any" at
- 24 the time when this -- at the time under
- 25 discussion, right?

- 1 D. Karger
- 2 So if I said "any," I would have
- 3 referred to -- I'm not sure if MP4 had been
- 4 invented yet in 1998, and so probably it
- 5 couldn't have displayed MP4 if there had been
- 6 such an artifact.
- 7 Q. Are you familiar with a graphics
- 8 program known as Harvard Graphics?
- 9 A. I've heard of it. I don't recall
- 10 anything about what it does.
- 11 Q. Do you know whether a Harvard
- 12 Graphics file could be displayed by Internet
- 13 Explorer?
- 14 A. No, I don't.
- 15 Q. Would you classify Harvard Graphics
- 16 as some sort of esoteric program?
- 17 MR. MICALLEF: Objection, form,
- 18 lack of foundation, relevance.
- 19 A. So I think if I looked at just about
- 20 any application, it would -- sorry, not any
- 21 application, but many applications make use of
- 22 idiosyncratic file formats for storing their
- 23 information. And if you don't have those
- 24 applications, you can't display the information
- 25 that is stored using those idiosyncratic file

- 1 D. Karger
- 2 formats.
- 3 Q. Are you familiar with a program known
- 4 as Microsoft Word?
- 5 A. Sure.
- 6 O. Did Microsoft Word exist at the time
- 7 of the MSIE Kit reference?
- 8 A. Yes, it did.
- 9 Q. Could Internet Explorer display a
- 10 file in MS Word format?
- 11 A. It's a good question. I don't know.
- 12 Q. MS Word wouldn't be an esoteric kind
- 13 of program; that was fairly well known.
- 14 A. Oh, absolutely. I'm just not sure
- 15 whether Microsoft had chosen to allow display
- of Word documents on systems that did not have
- 17 Word installed.
- 18 Q. Are you familiar with Microsoft
- 19 Excel?
- 20 A. Yes.
- 21 O. Did that exist at the time of MSIE
- 22 Kit?
- 23 A. Yes.
- Q. Was MSIE -- was Internet Explorer
- 25 capable of displaying Excel files?

- 1 D. Karger
- 2 MR. MICALLEF: Object to form,
- 3 relevance, lack of foundation.
- A. So I'll say no but also argue that an
- 5 Excel file is not a graphic, audio, or video.
- 6 I mean, Excel document doesn't really fit into
- 7 any of the categories listed here.
- 8 Q. I see. Are you familiar with
- 9 WordPerfect?
- 10 A. Yes.
- 11 Q. What was WordPerfect?
- 12 A. It was a word processor.
- O. Did it exist at the time of the MSIE
- 14 Kit reference?
- 15 A. I think so.
- 16 Q. Do you think Internet Explorer was
- 17 capable of displaying WordPerfect files?
- 18 MR. MICALLEF: Objection,
- 19 relevance, lack of foundation.
- 20 A. No, I do not.
- 21 Q. So what exactly does "any" mean here?
- A. Well, again, here we're referring to
- 23 any graphic, audio, video, website, Java
- 24 applet. We're not saying any file or any
- 25 object. All right? And obviously when we talk

- 1 D. Karger
- 2 about any HTML file, well, we don't mean
- 3 literally any HTML file because, for example,
- 4 if the HTML file is malformed, then you might
- 5 not be able to display it. Right? If the Java
- 6 applet doesn't run, you might not be able to
- 7 display it.
- 8 So the "any" here again refers to the
- 9 things that one would -- the sort of basic set
- 10 of graphics, audio, video, and HTML documents
- 11 that we think of as not requiring a specialized
- 12 application for display; right? So when we
- 13 talk about a GIF nowadays, we don't really
- 14 think that we need a special GIF application in
- 15 order to view the GIF. We just assume that
- 16 we're going to be able to look at it on a bare
- 17 system because GIFs are kind of a standard
- 18 graphics format.
- 19 Q. Did Microsoft Word support graphics
- 20 at the time of the MSIE Kit reference?
- 21 MR. MICALLEF: Objection,
- 22 relevance.
- 23 A. If by "support graphics," do you mean
- 24 allow you to put a picture in a Word document?
- 25 Q. Yes.

- 1 D. Karger
- 2 A. Yes, I believe it did.
- 3 Q. And did MS Word support the ability
- 4 to draw graphics with commands native to the
- 5 application?
- 6 A. I don't really recall.
- 7 Q. Did Internet Explorer at the time of
- 8 the MSIE Kit reference display GIF files on its
- 9 own?
- 10 MR. MICALLEF: Objection,
- 11 relevance. Objection, foundation.
- 12 A. I believe that was one of the formats
- 13 that it was happy displaying.
- Q. Was it capable of displaying MPEG
- 15 files?
- MR. MICALLEF: Objection, form,
- 17 relevance.
- 18 A. I'm just not sure in terms of the
- 19 dates, right? At what date it became capable
- 20 of doing that, I don't recall.
- Q. Was an active desktop item capable of
- 22 calling anything other than the Internet
- 23 Explorer browser application?
- MR. MICALLEF: Object to form.
- Q. I heard you say "calling." Is there

- 1 D. Karger
- 2 a lack of clarity about what I mean by that?
- A. No, I think I understand what you're
- 4 saying. Let me look.
- 5 Q. Let me ask some concrete examples. I
- 6 don't want you to struggle too much with this
- 7 one.
- 8 Was it possible to have an active
- 9 desktop item call Microsoft Word application,
- 10 the Microsoft Word application?
- 11 MR. MICALLEF: Object to form, lack
- of foundation, irrelevant.
- 13 MR. HEINTZ: Again, Dr. Karger, if
- 14 you need it, I've got the whole book
- 15 here.
- 16 THE WITNESS: Understood. I think
- 17 I've got what I need here.
- 18 All right. Can you restate the
- 19 question?
- 20 MR. HEINTZ: Would you read the
- 21 question back?
- 22 (The reporter read from the record.)
- MR. MICALLEF: Object to form.
- 24 BY MR. HEINTZ:
- Q. Let me restate that.

- 1 D. Karger
- A. It should be "call," not "called."
- 3 Q. Yeah, so let me restate the question.
- 4 Was it possible to have an active desktop item
- 5 call the Microsoft Word application?
- 6 MR. MICALLEF: Objection,
- 7 irrelevant, lack of foundation.
- 8 A. So I can only answer that partially,
- 9 the reason being that I'm not an expert on
- 10 Microsoft's APIs. The active desktop can
- 11 contain both ActiveX controls and Java applets,
- which those are both powerful programming
- 13 languages, so the capability to -- you can
- 14 write programs in them.
- 15 On the far -- on the other end,
- 16 Microsoft's -- Microsoft does have a set of
- 17 APIs that let you programmatically invoke
- 18 things like Microsoft Word or Microsoft Excel.
- 19 So it is reasonable to speculate that one --
- 20 that an ActiveX control or a Java applet could
- 21 invoke these by proper use of the APIs. It is
- 22 also conceivable that they decided for security
- 23 reasons or something else to prevent that from
- 24 actually happening.
- 25 And again, I know how to answer this

- 1 D. Karger
- 2 question by going and digging through
- 3 literature, but I don't have it in my head.
- 4 Q. Okay. I'd like to direct your
- 5 attention, Dr. Karger, to paragraph 289 of
- 6 Exhibit 1003, your declaration. Okay.
- 7 Paragraph 289 states that "MSIE Kit explains
- 8 that desktop items placed on an active desktop
- 9 will be nonoverlapping and that each desktop
- 10 item by default will have a uniform size and
- 11 shape."
- 12 Do you see that?
- 13 A. I'm sorry. I'm in the wrong place.
- 14 Did you say 289?
- 15 Q. Paragraph 289 of Exhibit 1003.
- 16 A. Good, yes.
- 17 Q. All right. So do you see the
- 18 sentence there that says that the active
- 19 desktop -- that MSIE Kit explains that desktop
- 20 items placed on an active desktop will be
- 21 nonoverlapping and that each desktop item by
- 22 default will have a uniform size and shape?
- 23 A. Yes, I do.
- Q. Okay. Now, I'd like -- and you cite
- 25 there page 183 that we've looked at earlier;

- 1 D. Karger
- 2 correct --
- 3 A. Correct.
- 4 Q. -- of Exhibit 1007. So I'd like you
- 5 to direct your attention to page 183 of
- 6 Exhibit 1007 now.
- 7 A. Yes.
- 8 Q. Okay. We're going to go to that same
- 9 bullet that we looked at earlier that begins
- 10 "Smaller is better."
- 11 A. Yes.
- 12 Q. On the eighth line down there's a
- 13 sentence that reads, "As more items are added
- 14 to the desktop, they will start to overlap each
- 15 other, period.
- 16 A. Correct.
- 17 Q. Okay? So it's not true, is it, that
- 18 MSIE Kit explains that active -- that desktop
- 19 items placed on an active desktop will be
- 20 nonoverlapping. Some cases it may be true,
- 21 some cases it may be not; correct?
- MR. MICALLEF: Object to form.
- 23 A. So I think again here there's a --
- 24 it's a minor editing issue -- that perhaps what
- 25 should be said is that by default, items placed

- 1 D. Karger
- 2 on an active desktop will be nonoverlapping and
- 3 will have uniform size and shape.
- 4 Q. But that's only true if the number of
- 5 items is --
- 6 A. Is not too large.
- 7 Q. Is not too large. Okay. Thank you.
- 8 Let's look at paragraph 292 of your
- 9 declaration, Exhibit 1003. You say that MSIE
- 10 Kit also suggests that desktop items will be
- 11 given a maximum size of 200 by 200 pixels when
- 12 used on a 640-by-480 display area. And again
- 13 you cite MSIE kit at page 183; correct?
- 14 A. Yes.
- 15 Q. Let's again look at page 183 of
- 16 Exhibit 1007. The very last sentence under the
- 17 "Smaller is better" bullet reads, "Internet
- 18 Explorer 4 does not itself enforce any
- 19 restrictions on the size of an active desktop
- 20 item; correct?
- 21 A. Correct.
- Q. So it's not true, what you say here
- 23 in paragraph 292 of Exhibit 1003, that desktop
- 24 items will be given a maximum size of 200
- 25 pixels when used on a 640 unless you add the

- 1 D. Karger
- 2 qualifier "by default"; is that correct?
- 3 MR. MICALLEF: Object to form, lack
- 4 of foundation, irrelevant.
- 5 A. So I think this is actually a fair
- 6 statement that could be worded better. Right?
- 7 So what this should -- what this intends to say
- 8 is that MSIE Kit suggests that desktop items be
- 9 given a maximum size of 200 by 200 pixels.
- 10 Right? It is not -- this is not intended to
- 11 assert that it must happen. It is a
- 12 suggestion, right? It is not a requirement
- 13 that they must be 200 by 200 pixels.
- 14 Q. Well, now, when you say in this
- 15 paragraph 292 that desktop items will be given,
- 16 who or what is doing the giving?
- 17 MR. MICALLEF: Object to form, lack
- 18 of foundation.
- 19 A. So what the -- page 183 is suggesting
- 20 is that this would -- is that this will --
- 21 would be a good size, right? That this will
- 22 allow for them to have reasonable spacing and
- 23 avoid overlap.
- Q. Is that a good size -- is this
- 25 suggesting -- is -- let me rephrase the

- 1 D. Karger
- 2 question.
- 3 Is this passage of MSIE Kit
- 4 suggesting that -- suggesting to a user that a
- 5 user give it this size?
- 6 MR. MICALLEF: Object to form.
- 7 A. So I observe that this page is part
- 8 of a section on developing active desktop
- 9 items. And I would read this as a suggestion
- 10 to the developer of the access -- of the active
- 11 desktop item that they assign a size of, at
- 12 most, 200 by 200 pixels.
- 13 Q. So it wouldn't be the MSIE Kit
- 14 application itself that's going to enforce this
- 15 maximum size; correct?
- 16 A. So this text is not claiming that a
- 17 maximum size will be enforced. In fact, it
- 18 says that it's merely a guideline.
- 19 Q. Okay. Thank you.
- MR. HEINTZ: Yeah, I guess we have
- been going for more than an hour.
- 22 THE VIDEOGRAPHER: This is the end
- of videotape number 2. Off the record
- 24 at 2:57 p.m.
- 25 (Recess taken.)

- 1 D. Karger
- 2 MR. HEINTZ: I'm going to ask the
- 3 reporter to hand to Dr. Karger what's
- 4 been marked as Petitioner Microsoft
- 5 Exhibit 1011, U.S. Patent Number
- 6 6,832,355 to Duperrouzel, et al.
- 7 BY MR. HEINTZ:
- 8 Q. I'll refer to Duperrouzel. I'll ask
- 9 you if you recognize Exhibit 1011.
- 10 A. Yes, I do.
- 11 Q. That's what's referred to in your
- 12 report by Duperrouzel; correct?
- 13 A. Correct.
- 14 Q. I'll ask you to turn now back to
- 15 paragraph 432 of your declaration,
- 16 Exhibit 1003. That's on page 132.
- 17 A. Yes.
- 18 Q. You see in paragraph 40 -- sorry,
- 19 432, you have the statement that Duperrouzel
- 20 also shows that the information source can
- 21 include text, graphics, video, sound, and any
- 22 other format of electronic data.
- 23 Do you see that?
- 24 A. Yes, I do.
- Q. Is "any other format of electronic

- 1 D. Karger
- 2 data" in that sentence being used in the
- 3 colloquial sense as you described that word
- 4 before?
- 5 MR. MICALLEF: Object to form,
- 6 foundation, lack of foundation.
- 7 A. Yes. You can see that I'm quoting
- 8 from column 1, line 36, which uses exactly this
- 9 phrase, which says that the web page --
- 10 provides many different formats of information
- 11 including text, graphics, video, sound and any
- 12 other format of electronic data, and indeed
- 13 this does not mean literally any other format
- 14 of electronic data.
- 15 Q. So do you have an understanding as to
- 16 whether the web page display system described
- in Duperrouzel is capable of displaying
- 18 information from a Microsoft Word file?
- 19 MR. MICALLEF: Object to form,
- 20 relevance.
- 21 A. So this actually comes back to one of
- 22 the questions that you asked earlier, which I
- 23 was not equipped to answer, which was --
- 24 because one of the ways Duperrouzel suggests
- 25 for implementing their invention is through the

- 1 D. Karger
- 2 use of Internet Explorer, the Internet Explorer
- 3 browser. And as I mentioned, there are APIs
- 4 that allow different elements -- different
- 5 components of Microsoft system to communicate
- 6 with each other, and so it is conceivable that
- 7 within -- that with what is there it is
- 8 possible for the browser to communicate with
- 9 Microsoft Word in order to embed and display a
- 10 document that looks like it's in the browser
- 11 even though it's actually Microsoft Word doing
- 12 the work. But I can't say for certain without
- 13 checking more documentation.
- 14 Q. Is there anything in Duperrouzel that
- 15 suggests that -- other than what we just
- 16 discussed, that his web page display system
- 17 would display data from a Microsoft Word file?
- 18 MR. MICALLEF: Object to form,
- 19 relevance.
- 20 A. Well, the paragraph that we were just
- 21 looking at talks about downloading information
- 22 from the Internet and various private networks.
- 23 Private networks are often used as places to
- 24 store documents. So if you're asking if
- 25 there's anything that suggests that it might,

- 1 D. Karger
- 2 well, that suggests that it might.
- 3 Q. One of your earlier answers, you
- 4 refer to an API; is that correct?
- 5 A. Yes.
- 6 Q. Just for the record, what does that
- 7 signify?
- 8 A. An API is an application/programmer
- 9 interface.
- 10 Q. Thank you.
- MR. MICALLEF: Were you done your
- 12 answer?
- 13 A. I can stop there if you like or I can
- 14 explain what that means.
- 15 Q. Feel free. I don't want to cut you
- 16 off.
- 17 A. An application/programmer interface
- is a description of how a programmer can
- 19 communicate with a particular piece of
- 20 software, what sort of requests can be made of
- 21 that software, in what form the responses will
- 22 be returned.
- Q. Okay. Anything else? Did you
- 24 finish?
- 25 A. That's it.

- 1 D. Karger
- Q. Dr. Karger, I'd like you to turn to
- 3 figure 4 of Exhibit 1011. Now, in figure 4, as
- 4 shown in the upper left-hand corner, there's a
- 5 portion of the www.gpo.gov home page; correct?
- 6 A. Yes.
- 7 Q. Now, if a user were to navigate to
- 8 cnn.com in the upper left-hand pane as shown in
- 9 figure 4, and then were to shut down his
- 10 computer, what would the user see the next time
- 11 he turned on his computer?
- MR. MICALLEF: Object to form, lack
- of foundation.
- 14 A. I wanted to take my time to look this
- 15 over because I believe that the document leaves
- it to be inferred, and there are two plausible
- 17 answers to your question, if I shut it down and
- 18 restart. One is that when I restart it, I
- 19 will -- let me first say why there are two
- 20 plausible answers.
- 21 This system is implemented as
- 22 something which tiles several browser windows,
- 23 and so it inherits a lot of the functionality
- 24 of the underlying browser. It describes how
- 25 that browser might be Internet Explorer, that

- 1 D. Karger
- 2 browser might be -- did it say the landscape
- 3 navigator? Yes. Now, with those browsers,
- 4 there are two natural things that happen if you
- 5 restart a browser. One is that it shows you
- 6 the page you were last looking at, and the
- 7 other is that it shows you your home page or
- 8 default, some default page that you specify to
- 9 be loaded when you launch your system.
- In the patent, there is a discussion
- of a setting of -- there's a "home all" button,
- 12 which lets you -- which will navigate all of
- 13 the pages that are being tiled, all of the
- 14 tiles back to the home pages associated with
- 15 those tiles, which makes clear that there is a
- 16 notion of a bunch of home pages. And so one
- 17 plausible implementation of this would have,
- 18 when you open that browser, that it opens with
- 19 the same set of tiles open to the same pages as
- 20 you had open last time. Another is that it
- 21 would have them open to the home pages that you
- 22 had specified for the system.
- Q. Okay. So let's go for the option
- 24 when it goes to the last viewed web page.
- 25 A. Yeah, I can't guarantee that -- I

- 1 D. Karger
- 2 mean, again, you have to remember when that
- 3 ability to return to the last viewed web page
- 4 was actually made available in the browser. It
- 5 does not -- the patent does not explicitly say
- 6 that it will do that, but it's certainly a
- 7 plausible interpretation.
- 8 Q. Okay. So if it were, in fact, to be
- 9 implemented in the way that it went to the web
- 10 page last viewed, when the user turned on the
- 11 computer after having navigated to cnn.com in
- 12 the upper left-hand pane of figure 4, what
- 13 would the user see on this screen?
- MR. MICALLEF: Object to form.
- 15 Q. Immediately after startup.
- 16 A. They would see -- they would see the
- 17 cnn.com page.
- 18 Q. Are you aware that patent owner in
- 19 this inter partes review has taken the position
- 20 that tiles must be persistent?
- 21 A. I am aware that patent owner has
- 22 taken that position, although the board has
- 23 rejected it, if I remember correctly.
- 24 O. You do.
- 25 If persistence is found to be -- let

- 1 D. Karger
- 2 me rephrase this.
- 3 If the Duperrouzel system were to act
- 4 in the manner you just suggested, that it would
- 5 show cnn.com, the site last viewed, in the
- 6 upper left-hand pane of figure 4, would that
- 7 pane be persistent?
- 8 MR. MICALLEF: Object to form, lack
- 9 of foundation, irrelevant.
- 10 A. Do you mean persistence in the
- 11 sense -- persistent in the sense that the
- 12 patent owner is construing?
- 13 O. Yes.
- 14 A. Because that's kind of up to the
- 15 patent owner to decide, unless we can find the
- 16 exact vocabulary that the patent owner is using
- 17 to talk about persistence.
- 18 Q. Let me ask you this: Do you have an
- 19 understanding of what persistence means, a
- 20 plain and ordinary understanding?
- 21 A. Plain and ordinary, certainly.
- Q. What is that?
- 23 MR. MICALLEF: Object to form,
- 24 irrelevant.
- 25 A. Persistence means that some aspect

- 1 D. Karger
- 2 does not change.
- 3 Q. Some aspect or all aspects?
- 4 A. Oh, some.
- Q. Okay.
- 6 A. I mean, something's always changing.
- 7 Q. Yeah. So with that understanding,
- 8 would Duperrouzel's system, assuming it works
- 9 the way we discussed, where the next time the
- 10 user turns on the computer he sees cnn.com
- 11 rather than gpo.gov, would that be persistent
- 12 under your understanding of the plain and
- 13 ordinary meaning of persistent?
- MR. MICALLEF: Object to form,
- 15 irrelevant.
- 16 A. So I would say that in that case, the
- 17 system is persisting the location that is being
- 18 displayed.
- 19 Q. Okay. Would you say that the pane is
- 20 persistent?
- 21 MR. MICALLEF: Same objections.
- Q. I'm sorry, let me rephrase that too.
- 23 Would you say that the pane shown in the upper
- left-hand corner of figure 4 is persistent?
- 25 MR. MICALLEF: Same objections.

- 1 D. Karger
- 2 A. So it is possible for the pane to
- 3 be -- shown in figure 4 to be persistent. For
- 4 example, if the system described here were to
- 5 remember the specific layout of panes, when you
- 6 shut down this application and started it up
- 7 again, that would be a persistent layout. That
- 8 pane is a part of that layout and would
- 9 therefore be persistent.
- 10 Q. Even though the pane points to a
- 11 different location?
- MR. MICALLEF: Go ahead.
- 13 A. Yes, even though the pane points to a
- 14 different location.
- 15 Q. Now, it's your assertion, is it not,
- 16 that the pane shown in figure 4 of Duperrouzel
- 17 in the upper left-hand corner qualifies as a
- 18 tile within the meaning of Claim 1 of the '403
- 19 patent?
- 20 A. That's the wrong patent, sorry.
- 21 Q. Yes, we're talking about
- 22 Exhibit 1001. Sorry.
- 23 A. Yes, that is my understanding.
- Q. Okay. And Claim 1 requires that a
- 25 tile -- sorry, do you have -- I'll wait for you

- 1 D. Karger
- 2 to get to Claim 1. Okay, so Claim 1 recites,
- 3 for instance, updating information from a first
- 4 information source in said plurality of
- 5 information sources presented to said first
- 6 tile in accordance with said first refresh
- 7 rate.
- 8 Do you see that?
- 9 A. Yes, I do.
- 10 Q. If the tile has to be persistent and
- 11 further requires that the information that's
- 12 used to update the tile come from a first
- information source, would the pane in the upper
- 14 left-hand corner of figure 4 of Duperrouzel
- 15 qualify as a tile?
- MR. MICALLEF: Object to form, lack
- of foundation, irrelevant.
- 18 A. So just to be clear, you've led off
- 19 that question by saying if we ignore the
- 20 board's interpretation of "tile."
- 21 O. Correct.
- 22 A. And require it to be persistent.
- Q. Correct.
- A. Now can you read back the rest of the
- 25 question?

- 1 D. Karger
- Q. Right. So if a tile -- well, you've
- 3 got the assumption in mind now. So with that
- 4 understanding, would the pane of figure 4 of
- 5 Duperrouzel qualify as a tile as required by
- 6 Claim 1 of the '403 patent?
- 7 MR. MICALLEF: Object to form, lack
- 9 A. I'm having a little -- it's taking me
- 10 some time to work through that question because
- 11 you've asked me to stack up hypotheticals. So
- 12 first ignoring what the board said, and then
- 13 working with this notion of -- the colloquial
- 14 notion of persistence, not what the patent
- 15 holder -- not any specific notion of
- 16 persistence that the patent holder had in mind,
- 17 but simply the colloquial notion of
- 18 persistence?
- 19 Q. Yes, with the understanding that
- 20 colloquial within the art to which the '403
- 21 patent pertains.
- A. Uh-huh, uh-huh.
- MR. MICALLEF: Same objections.
- 24 A. I guess I would say that with that
- 25 understanding, if -- you're saying if we

- 1 D. Karger
- 2 require it to be persistent, would it satisfy
- 3 the specifications of a tile.
- 4 Q. Yes.
- 5 A. I think you could certainly implement
- 6 it in a way that would fulfill that requirement
- 7 to be persistent, and then it would satisfy the
- 8 specification for being a tile.
- 9 Q. And one way in which you'd have to
- 10 implement it would be so that it would -- the
- 11 pane would return to the same website each time
- 12 upon restarting a session; is that correct?
- 13 MR. MICALLEF: Object to form, lack
- of foundation, irrelevant.
- 15 A. Now we have to sort of talk about
- 16 what exactly you mean by what is persistent;
- 17 right? So is it the layout that is persistent?
- 18 Is it the content that is persistent? What are
- 19 you -- again, this is all very hypothetical,
- 20 but what are you assuming is the persistent
- 21 thing?
- If you tell me to assume that it is
- 23 persistent in terms of its location, then yes,
- 24 that would tell me that it is returning to the
- 25 same location.

- 1 D. Karger
- 2 Q. The specification of the '403 patent
- 3 indicates that a tile has several attributes,
- 4 one of which is the source of the information;
- 5 correct?
- 6 A. Correct.
- 7 Q. If I use that understanding of what a
- 8 tile is, that it includes a source as one of
- 9 its attributes, would a tile -- I'm sorry,
- 10 would one need to modify Duperrouzel so that
- 11 the pane always returned to the same URL in
- 12 order for that to be persistent?
- 13 MR. MICALLEF: Object to form, lack
- of foundation, irrelevant.
- 15 A. So as you say, a tile has many
- 16 attributes. And so if you are just going to
- 17 talk about the tile being persistent, you're
- 18 not telling me persistent in what. Is it
- 19 persistent in all attributes? Is it persistent
- 20 in at least one attribute? How you -- exactly
- 21 what kind of persistence you're talking about
- 22 is going to tell me whether I -- or how I
- 23 should respond to that question.
- Q. Okay. So referring back to figure 4
- 25 of Exhibit 1011, we talked earlier about an

- 1 D. Karger
- 2 implementation in which the last viewed
- 3 websites or URLs, or URIs if you prefer, were
- 4 displayed upon startup in the next session. If
- 5 I navigated to four different successive URIs
- 6 in the upper left-hand pane of figure 4, and
- 7 then shut the computer off and then started
- 8 it -- restarted it to start a new session,
- 9 would all four of the panes be at a different
- 10 location or would only one in the upper
- 11 left-hand corner be in a different location as
- 12 compared to the previous start of the session?
- 13 MR. MICALLEF: Object to form, lack
- of foundation, irrelevant.
- 15 A. So I think that there are several
- 16 reasonable ways to implement this, and it's not
- 17 clear to me from the specification which way it
- 18 was actually done in this software, where the
- 19 software actually implemented. That is, you
- 20 could have a per-tile history and be navigating
- 21 back to the most recent page of each tile, or
- 22 you could have a more global history and be
- 23 navigating back to the four most recent pages
- 24 encountered in any of the tiles. You could be
- 25 using, as I said, the sort of home pages

```
1 D. Karger
```

- 2 concept. You could be using the offline or
- 3 online versions. All of these would be very
- 4 reasonable ways to implement this system.
- 5 MR. HEINTZ: Okay. I'd like to
- 6 hand to Dr. Karger an exhibit marked as
- 7 1015, U.S. Patent Number 5,432,932 to
- 8 Chen.
- 9 THE WITNESS: Before we start this
- one can we go off the record for a
- 11 moment?
- 12 MR. HEINTZ: Certainly.
- MR. MICALLEF: Sure.
- 14 THE VIDEOGRAPHER: Off the record
- 15 at 3:39 p.m.
- 16 (Discussion held off the record.)
- 17 THE VIDEOGRAPHER: Back on the
- 18 record at 3:44 p.m.
- 19 BY MR. HEINTZ:
- Q. Dr. Karger, you've had placed in
- 21 front of you Exhibit 1015, U.S. Patent Number
- 22 5,432,932 to Chen; correct?
- 23 A. Yes, I do.
- Q. Do you recognize that exhibit?
- 25 A. Oh, yes.

- 1 D. Karger
- 2 Q. Is that the exhibit that you
- 3 referenced in your declaration?
- 4 A. Yes, it is.
- 5 Q. Are you familiar with the term
- 6 "instrument" as used in Exhibit 1015?
- 7 A. Yes.
- 8 Q. Can the instruments described in Chen
- 9 display any type of graphic file, again with
- 10 the colloquial understanding of "any" as you've
- 11 used before?
- 12 A. No.
- 13 MR. MICALLEF: Object to form.
- 14 Q. Could it display any kind of text
- 15 file?
- MR. MICALLEF: Object to form,
- 17 irrelevant.
- 18 A. No.
- 19 Q. Any type of audio file?
- 20 MR. MICALLEF: Same objections.
- 21 A. No.
- Q. Any type of video file?
- MR. MICALLEF: Same objections.
- 24 A. No.
- Q. Can one of Chen's instruments ever

- 1 D. Karger
- 2 call another application?
- 3 MR. MICALLEF: Object to form,
- 4 irrelevant.
- 5 A. I guess in a certain sense, yes.
- 6 Q. In what sense?
- 7 A. Well, these instruments are
- 8 displaying information that is -- that can be
- 9 retrieved from other sources, where there is a
- 10 data supplier application, and so there is a
- 11 sense in which the instruments are going to be
- 12 communicating with these supplier daemons in
- 13 order to request certain kinds of information.
- 14 Q. But what's running in the app --
- 15 what's running in the instrument, excuse me, is
- one application, the one described in Chen that
- 17 performs the functionality in Chen; correct?
- 18 MR. MICALLEF: Object to form.
- 19 A. Well, Chen also describes the data
- 20 supplier daemons as another part of the system.
- 21 Q. Fair enough, fair enough. The data
- 22 supplier daemons run on remote computers and
- 23 the Chen instrument is displayed on what Chen
- 24 describes as a local computer; correct?
- 25 A. The -- yes to the latter. As to the

- 1 D. Karger
- 2 former, I think that you could run a data
- 3 supplier daemon on a local computer as well.
- 4 Q. All right. I'd like you to turn to
- 5 paragraph 789 of Exhibit 1003.
- 6 Do you have that paragraph, sir?
- 7 A. Yes.
- 8 Q. Have you ever heard of anyone using
- 9 active desktop items to monitor network
- 10 statistics?
- 11 A. Have I ever heard of anyone using
- 12 active desktop items to monitor network
- 13 statistics.
- MR. MICALLEF: Objection,
- 15 relevance.
- 16 A. Maybe. So I'm sure you want me to
- 17 elaborate.
- 18 Q. Please.
- 19 A. I've worked at Akamai in the past. A
- 20 big part of what Akamai does is network
- 21 monitoring. They build network monitoring
- 22 tools. It's quite possible that they used
- 23 active desktop for their network monitoring
- 24 tools, but I'm not sure. I wasn't part of -- I
- 25 wasn't connected to that part of the company.

- 1 D. Karger
- 2 Q. So you don't have any knowledge that
- 3 they did so?
- 4 A. I don't have any explicit knowledge
- 5 that they did so. On the other hand, it would
- 6 have been a natural way to build such a network
- 7 monitoring application.
- 8 Q. I'd like the reporter to hand
- 9 Dr. Karger what's been marked as Exhibit 1013,
- 10 U.S. Patent Number 6,118,493 to Duhault, et al.
- 11 Dr. Karger, I'll ask you, do you
- 12 recognize what's been marked as Exhibit 1013?
- 13 A. I do.
- 14 Q. This is the Duhault 2 exhibit
- 15 discussed in your report -- I'm sorry, your
- 16 declaration; is that correct?
- 17 A. Correct.
- 18 MR. MICALLEF: Excuse me, counsel.
- 19 Did you just say Duhault 2?
- 20 MR. HEINTZ: I did. You're right.
- 21 MR. MICALLEF: This is Duhault 1.
- MR. HEINTZ: You're right. I
- 23 apologize. Let me hand Dr. Karger
- 24 what's been marked as Exhibit 1014.
- Q. I'll ask you, sir, if you recognize

- 1 D. Karger
- 2 that document.
- 3 A. Yes. This is Duhault 2.
- 4 Q. That's Duhault 2 as mentioned in your
- 5 report, your declaration in Exhibit --
- 6 A. Correct.
- 7 Q. -- 1003. So, Dr. Karger, if I select
- 8 one of the windows -- sorry, one of the video
- 9 images shown on the figure on the front
- 10 cover -- let's go to figure 1. Sorry. Let's
- 11 go to figure 1 of Exhibit 1014.
- 12 A. Yes.
- 13 Q. Okay. If I don't select any of the
- 14 video images labeled 141 through 149 of figure
- 15 1, what is the refresh rate of each of the
- 16 images?
- 17 MR. MICALLEF: Object to form,
- 18 compound.
- 19 A. Now can you restate the question?
- 20 Q. Sure. If none of the video images
- 21 141 through 149 are selected by the user, what
- 22 will be the refresh rate of those images?
- MR. MICALLEF: Object to form,
- compound.
- 25 A. So the patent does not articulate a

- 1 D. Karger
- 2 specific refresh rate. Instead, it talks about
- 3 a periodic refresh of the tiles using one or
- 4 the other of the tuners under discussion.
- 5 Q. Is there a specific rate assigned to
- 6 that refresh, or is it just refreshed as
- 7 quickly as the hardware will allow?
- 8 MR. MICALLEF: Object to form.
- 9 A. Both options are available, as the
- 10 patent -- I should verify this before saying.
- 11 So I took some time because I wanted
- 12 to be sure what was in Duhault 2 and what was
- in Duhault 1, is kind of where --
- 14 Q. Sure.
- 15 A. So as far as I can tell, in Duhault
- 16 2, the focus is on simply talking about a
- 17 periodic rate of refresh.
- In Duhault 1, it's made explicit that
- 19 that periodic rate could be what is happening
- 20 because of the tuner or could be a
- 21 user-specified rate.
- Q. That user-specified rate's not in
- 23 Duhault 2; is that correct?
- A. Answering in the negative, it takes
- 25 longer.

- 1 D. Karger
- Q. Let me ask it this way. Is there any
- 3 place in your report where you state -- cite to
- 4 a portion of Duhault 2 that discusses a
- 5 user-settable refresh rate?
- 6 A. I'll check.
- 7 Q. Again, Duhault 2 -- I apologize for
- 8 the confusion -- is Exhibit 1014.
- 9 A. Could you restate the question?
- 10 (The reporter read from the record.)
- 11 A. Well, when the user selects a tile
- 12 and it goes to full motion, the user has set
- 13 the refresh rate of that tile.
- 14 Q. Yes, I apologize. My answer -- my
- 15 question was not quite precise. Putting aside
- 16 the tile that's selected, is there any
- 17 user-selectable refresh rate assigned to the
- 18 tile -- to the unselected tiles?
- 19 MR. MICALLEF: In Duhault 2 we're
- 20 talking about.
- MR. HEINTZ: In Duhault 2.
- 22 A. Yes, because again it's explicit in
- 23 Duhault 1 that it can be a user-assigned rate.
- 24 Again, just to be careful about your question,
- 25 when I select one tile, I am also assigning a

- 1 D. Karger
- 2 rate to the unselected tiles by the fact that
- 3 they are not selected.
- 4 Q. And what rate are you assigning to
- 5 those tiles?
- 6 A. Zero.
- 7 Q. Because they're not updating at all?
- 8 A. Right.
- 9 Q. And a rate of zero is a refresh rate?
- 10 MR. MICALLEF: Object to form.
- 11 A. So actually, backing up, I've lost
- 12 track of whether we're talking about Duhault 1
- 13 or 2.
- 14 Q. I'm only talking about Duhault 2.
- 15 A. So in Duhault 2, the unselected tiles
- 16 are continuing to update --
- 17 O. Okay.
- 18 A. -- using the second tuner, but at a
- 19 lower, nonzero refresh rate.
- 20 O. And does the software in Duhault 2
- 21 assign a refresh rate to those tiles?
- MR. MICALLEF: Object to form.
- 23 A. The software in Duhault 2 does
- 24 determine a refresh rate for those tiles
- 25 because -- again, in Duhault -- in -- the way

- 1 D. Karger
- 2 Duhault 2 describes it, sort of driven by the
- 3 frequency at which the tuner can change its
- 4 channels and receive the signals for the tiles
- 5 that it is cycling through.
- Q. So the software assigns a rate in the
- 7 sense that it tells this -- one of the tuners
- 8 to update those tiles, and because that tuner
- 9 has a rate, the software's assigning the rate?
- 10 A. Correct.
- 11 MR. MICALLEF: Object to form.
- 12 Q. Okay. But there's no explicit
- 13 disclosure in Duhault 2 of setting a rate to a
- 14 particular number in the software?
- 15 A. Well, the rate will be a particular
- 16 number, right? Again, it's a number which will
- 17 be determined by the capabilities of the tuner.
- 18 Q. Correct. So if the tuner is capable
- 19 of updating all the unselected tiles at 32
- 20 frames per second, we won't see a line of
- 21 software that says set the refresh rate equal
- 22 to 32 frames per second for each of the
- 23 unselected tiles; is that correct?
- MR. MICALLEF: Object to form.
- 25 A. This goes to very low level

- 1 D. Karger
- 2 implementation details, but I am guessing that
- 3 we would see such a line of software in the
- 4 sense that the software would ask the tuner how
- 5 fast it can change its channels, and it would
- 6 then tell the tuner to change channels that
- 7 quickly.
- 8 Q. Is there any disclosure of that in
- 9 Duhault 2?
- 10 A. It's -- that is how I would assume
- 11 that -- that is the natural way I would assume
- 12 this would be implemented, given my limited
- 13 knowledge of the APIs for tuners.
- Q. But it's not necessarily so; is that
- 15 correct?
- 16 A. Is it inherent? No, I think the
- 17 software would have to have that number,
- 18 because otherwise, how could it know what the
- 19 tuner is doing; right? If the tuner just goes
- 20 off and starts changing channels and throwing
- 21 bits at the computer -- at the driving
- 22 software, the software won't have any idea
- 23 which channel is currently showing; right? So
- 24 I think that outside of the tuner there will
- 25 have to be some state in the driving program

- 1 D. Karger
- 2 that has a sense of how -- of the rate at which
- 3 it is flipping through the different channels.
- 4 Q. Is it possible in Duhault 2 to set
- 5 the nonselected refresh rates for -- sorry, is
- 6 it possible in Duhault 2 to set the refresh
- 7 rates for the nonselected tiles to different
- 8 rates?
- 9 MR. MICALLEF: Object to form.
- 10 A. So Duhault 2 actually explains how,
- if we're talking about nonselected tiles, you
- 12 might have tuner number 1 refreshing some of
- 13 them and tuner number 2 refreshing others of
- 14 them.
- 15 And depending on how many of those
- 16 channels you assigned to tuner number 1 and
- 17 tuner number 2, you may see different refresh
- 18 rates on those that are being held by tuner 1
- 19 and those that are being held by tuner 2.
- Q. But there's no -- it's not
- 21 necessarily true that Duhault has that
- 22 capability; is that right?
- 23 A. No, I just said it's -- Duhault says
- 24 that -- it describes how you might assign this
- 25 many channels to tuner 1 and this many channels

```
1 D. Karger
```

- 2 to tuner 2, or alternatively, you might assign
- 3 this different number of channels to tuner 1
- 4 and this different number of channels to tuner
- 5 2. And given that Duhault 2 has sort of
- 6 expressed the -- that the refresh rate is going
- 7 to emerge from the capabilities of the tuner,
- 8 then if you have a different number of channels
- 9 on the two tuners, then you're also going to
- 10 have different refresh rates on the two tuners.
- 11 Q. Even if the -- scratch that. I'm
- 12 probably just about out of time, so I will --
- 13 one second. Anything else?
- 14 MR. HEINTZ: My colleague has
- informed me that I may have been
- 16 referring to Duhault 2 as tiles when I
- 17 meant to say video images, so --
- 18 MR. MICALLEF: Object.
- 19 MR. HEINTZ: -- for the record, all
- 20 these statements that I -- all the
- 21 questions I asked, I meant to use the
- term "video image" as used in Duhault 2.
- With that, I have no further questions.
- MR. MICALLEF: Would you give me a
- 25 minute and let me check my notes? We

- 1 D. Karger
- 2 will go off the record.
- 3 MR. HEINTZ: You need to check --
- 4 THE VIDEOGRAPHER: Off the record
- 5 at 4:05 p.m.
- 6 (Recess taken.)
- 7 EXAMINATION
- 8 BY MR. MICALLEF:
- 9 Q. Dr. Karger, you gave some testimony
- 10 earlier about the level of ordinary skill in
- 11 the art.
- 12 Do you remember that?
- 13 A. Yes, I do.
- 14 Q. In your opinion, was the field of
- 15 computer science a mature technological field
- 16 in 1998?
- 17 A. Yes.
- 18 MR. HEINTZ: Object to the form of
- 19 the question.
- Q. By 1998, were there many highly
- 21 skilled computer scientists in the world?
- MR. HEINTZ: Objection, vague.
- 23 A. Yes.
- Q. By 1998, were Ph.D. programs at major
- 25 universities for computer sciences common?

- 1 D. Karger
- 2 A. Yes.
- 3 Q. Was the field of user interfaces for
- 4 computers a mature technological field in 1998?
- 5 MR. HEINTZ: Object to the form of
- 6 the question. Objection, vague.
- 7 A. Yes.
- 8 Q. Do you have an understanding of when
- 9 computer scientists first started working on
- 10 user interfaces?
- 11 MR. HEINTZ: Objection, vague.
- 12 Object to the form of the question.
- 13 A. So as I stated before, almost from
- 14 the very beginning of computer science, most of
- 15 the things or many of the things that one did
- 16 with a computer involved interaction with a
- 17 human being, and therefore required some kind
- 18 of user interface.
- 19 Certainly, by the late '60s, early
- 20 '70s, when we had operating systems with
- 21 command lines that users could type in, that
- 22 was a user interface. And even full screen --
- 23 we had full screen editing systems in the late
- 24 '70s, so at least that far back.
- Q. Other than the patent-in-suit here

- 1 D. Karger
- 2 and the prior art references that you've
- 3 testified about here today, are you aware of
- 4 any tiled user interfaces that had been
- 5 developed prior to 1998?
- 6 MR. HEINTZ: Objection, beyond the
- 7 scope. Move to strike the response.
- 8 A. I certainly am. And I think I
- 9 already mentioned them earlier in the
- 10 proceedings when I mentioned the SAPHIRE
- 11 interface.
- 12 Q. Were there others too?
- 13 MR. HEINTZ: Objection, move to
- 14 strike, beyond the scope.
- 15 A. Certainly.
- 16 Q. Can you name a couple?
- 17 MR. HEINTZ: Objection, move to
- 18 strike, beyond the scope.
- 19 A. Sorry, restate the preceding
- 20 question? I need the context.
- Q. Sure. Could you just name, other
- 22 than the ones we've already discussed today,
- 23 and SAPHIRE which you just mentioned, can you
- 24 name some other tiled user interfaces that had
- 25 been developed before 1998?

- 1 D. Karger
- 2 MR. HEINTZ: Objection, beyond the
- 3 scope, move to strike.
- 4 A. I believe that many of the
- 5 applications that people worked with allowed
- 6 you to tile, tools like Excel, for example, or
- 7 Word probably allowed you to -- I know they do
- 8 now and I believe they did quite a ways back,
- 9 to tile multiple artifacts that you were
- 10 looking at simultaneously.
- 11 Again, are we talking prior to this
- 12 prior art? Because I mean Duperrouzel is
- 13 certainly another example of a tiling user
- 14 interface. I could go on, but --
- 15 Q. Okay. That's fine. Thank you. You
- 16 mentioned something in your testimony about a
- 17 refresh rate of zero.
- 18 Do you remember that?
- 19 A. Yes.
- 20 Q. Would a refresh rate of zero have a
- 21 recurring interval?
- 22 A. No.
- Q. You also mentioned an organization
- 24 called Akamai. Do you remember that?
- 25 A. Akamai, yes.

- 1 D. Karger
- Q. Akamai. I say it Akamai. Could you,
- 3 just so the record's clear, what is Akamai?
- 4 A. Akamai is a company that provides
- 5 caching and network services on the web.
- 6 Q. How long have they been in existence?
- 7 A. I can't remember the founding date.
- 8 Sometime around the turn of the millennium. I
- 9 can't recall -- certainly the research that we
- 10 did on it was -- sort of predated. That was in
- 11 1996 or so. And I think we got the company up
- 12 before 2000, but it may have been after.
- 13 MR. MICALLEF: Okay, great. Thank
- 14 you. No more questions.
- 15 MR. HEINTZ: No questions.
- MR. MICALLEF: Great.
- 17 THE VIDEOGRAPHER: This is the end
- of the videotaped deposition. Off the
- 19 record at 4:15 p.m.
- 20 (Discussion held off the record.)
- 21 MR. HEINTZ: So just for the
- record, we want to indicate that what
- 23 was referred to by Dr. Karger as
- Exhibit 1007 was actually a portion of
- 25 the full Exhibit 1007. The portion

Page 184 D. Karger Dr. Karger examined had the front page through page XLIV, and then chapters 14, 15, 16, and 24. Let me just double-check that. I'm sorry. Chapter 24, correct. MR. MICALLEF: Okay. (Deposition adjourned at 4:20 p.m.) DAVID KARGER

```
1
                       D. Karger
 2.
     CERTIFICATE
 3
     DISTRICT OF COLUMBIA:
 4
 5
            I, MARY ANN PAYONK, Shorthand Reporter,
 6
     do hereby certify:
 7
            That the witness whose deposition is
     hereinbefore set forth was duly sworn, and that
 8
     such deposition is a true record of the
 9
     testimony given by such witness.
10
11
            I further certify that I am not related
     to any of the parties to this action by blood
12
     or marriage, and that I am in no way interested
13
     in the outcome of this matter.
14
            IN WITNESS WHEREOF, I have hereunto set
15
     my hand this 17th day of January, 2014.
16
17
18
19
            MARY ANN PAYONK, Shorthand Reporter
20
            Washington, D.C.
21
22
23
24
25
```

		Page 186
1	D. Karger	
2	- INDEX TO WITNESSES -	
3	WITNESS PAGE	
4	DAVID KARGER	
5	Examination by Mr. Heintz 5	
6	Examination by Mr. Micallef 179	
7		
8	- EXHIBITS REFERENCED -	
9	(Previously marked)	
10	NO. REFERENCED	
11	Exhibit No. 1001 41	
12	Exhibit No. 1003 7	
13	Exhibit No. 1007	
14	Exhibit No. 1011 151	
15	Exhibit No. 1013 170	
16	Exhibit No. 1014 170	
17	Exhibit No. 1015 166	
18		
19	***	
20		
21		
22		
23		
24		
25		

			Page 187		
1		D. Karger			
2	NAME	OF CASE: Microsoft vs. SurfCast (Case IPR2013-0)		
3	DATE	OF DEPOSITION: January 14, 2014			
4		1. To clarify the record.			
5		 To conform to the facts. To correct transcription error. 			
6					
7		Line Reason to			
8		Line Reason			
9					
10	_	Line Reason to			
11		Line Reason			
12		to			
13		Line Reason to			
14	Page	Line Reason			
15	_	to			
		Line Reason			
16		to			
17	_	Line Reason to			
18					
19					
20		DAVID R. KARGER			
21	SUBSO	CRIBED AND SWORN TO BEFORE ME			
22	THIS	, DAY OF, 2014.			
23					
24	(Notary Public)				
25	My Commission expires:				