Į	Page 810	<u> </u>	Page 812
1	A. Misspelled, Okay.	1	Q. Bot we were talking aboot the
	O. Perfect.	2	wall, what yoo posted on the wall, Flow are yoo,
2	A. We created a table.	3	Mary? Cuntext information about hat data was
3	Q. So here this is the code that	4	captored in the wall table; correct?
	tells the Facebook compoter to create a table	5	A. And in the minifeed storage.
5 6	that can receive the metadata about the minifeed	6	Q. The fact that yoo post it was also
7	storage. So here we seem to have a table that	7	captured, and what was posted is captored here
8	has I think it's twelve entries. Does that	8	in the minifeed storage table; is that correct?
9	soond about right?	9	A. Correct. So these are two
10	A. I trust yoo.	10	different ways in which metadata is opdated when
11	Q. Can you — I drew one of those,	11	this particular event happened.
12	too. Anyway. Eleven or twelve, I think I lost	12	Q. Now, yoo can go ahead and take
13	track. One, two, three, foor, five, six, seven	13	that down.
14	Tack, One, two, titlee, root, fixe, six, seven	14	Can yoo pot op Exhibit PTX 906,
15	A. Eleven.	15	please. I think this is a docoment that we were
16	Q. Eight, nine, ten, eleven. I get	16	looking at before lonchtime. Can you go
17	eleven.	17	sorry, jost to put some context on it.
18	So this is the table you were	18	This is the document about the
19	talking aboot, so some information from the wall		photos.get, this is a docoment telling
20	post was stored in the metadata, the context	20	developers who are drailing code on to be
21	information about the wall post was stored in	21	osed with Facebook's website how they would do
22	the wall table, and separately based on the	22	that, right, so if they want to get a photo from
23	action, not based on the data, bot based on the	23	Facebook and poll it on to their page, they
24	action of posting, that's the tracking you were	24	woold ose the instructions from here, is that
	Page 811		Page 813
		1	right, something like that?
1	talking about. Information is also entered into	2	A. That is something like that, yeah.
2	the minifeed table; is that correct? A. So these are both ways to opdate a	3	Q. Can we go to the second page. And
3	}	4	let's look at the paragraph that says FQL
4	metadata, correct. Q. Bot each one, so the wall table,	5	equivalent. Now, again, here, FQL was
5 6	though, holds information about the wall post,	6	Facehook's version of the database language that
7	and the context information of that data, the	7	
	Multiple Coulext another of that there, the		we were talking godia: is the tight:
I O	wall past itself. And the minifeed story table	R	we were talking about; is that right? A. Seggel correct.
8	wall post itself. And the minifeed story table	8 9	A. Segoel, correct.
9	keeps track of the fact that you did post, it	9	A. Segoel, correct. Q. And what we have here is a way to
9 10	keeps track of the fact that you did post, it says okay, John did this, he inserted something	9 10	A. Sequel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a
9 10 11	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that	9	A. Sequel, correct. Q. And what we have here is a way to grab some information from Facebook, from a table inside Facebook; is that right?
9 10 11 12	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right?	9 10 11	A. Sequel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a table inside Facebook; is that right? A. Correct.
9 10 11 12 13	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are	9 10 11 12 13	A. Sequel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a table inside Facebook; is that right? A. Correct. Q. And in particular, I'm really bad
9 10 11 12 13 14	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, because context information also	9 10 11 12 13	A. Sequel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a table inside Facebook; is that right? A. Correct. Q. And in particular, I'm really bad with these. This one is going to say that it
9 10 11 12 13 14 15	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, because context information also refers to the actual action. In fact, there is	9 10 11 12 13 14	A. Sequel, correct. Q. And what we have here is a way to grab some information from Facebook, from a table inside Facebook; is that right? A. Correct. Q. And in particular, I'm really bad with these. This one is going to say that it wants to select the information from the photo
9 10 11 12 13 14 15 16	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, because context information also refers to the actual action. In fact, there is a time at which yoo know this particular event	9 10 11 12 13 14 15	A. Sequel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a table inside Facebook; is that right? A. Correct. Q. And in particular, I'm really bad with these. This one is going to say that it
9 10 11 12 13 14 15 16	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, becaose context information also refers to the actual action. In fact, there is a time at which yoo know this particular event happened, so it's ~ I'm not sore that yoo can	9 10 11 12 13 14 15	A. Seqoel, correct. Q. And what we have here is a way to grab some information from l'acebook, from a table inside Facebook; is that right? A. Correct. Q. And in particolar, I'm really bad with these. This one is going to say that it wants to select the information from the photo table; is that right?
9 10 11 12 13 14 15 16 17 18	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, because context information also refers to the actual action. In fact, there is a time at which yoo know this particular event happened, so it's ~ I'm not sore that yoo can really tell content from the action. It's sort	9 10 11 12 13 14 15 16	A. Seqoel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a table inside Facebook; is that right? A. Correct. Q. And in particular, I'm really bad with these. This one is going to say that it wants to select the information from the photo table; is that right? A. That's correct.
9 10 11 12 13 14 15 16 17 18 19	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, because context information also refers to the actual action. In fact, there is a time at which yoo know this particular event happened, so it's ~ I'm not sore that yoo can really tell content from the action. It's sort of an atomic action on deciding, I want to post	9 10 11 12 13 14 15 16 17	A. Seqoel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a table inside Facebook; is that right? A. Correct. Q. And in particular, I'm really bad with these. This one is going to say that it wants to select the information from the photo table; is that right? A. That's correct. Q. So this command would pick op
9 10 11 12 13 14 15 16 17 18 19 20	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, becaose context information also refers to the actoal action. In fact, there is a time at which yoo know this particolar event happened, so it's ~ I'm not sore that yoo can really tell content from the action. It's sort of an atomic action on deciding, I want to post this information and as a resolt the context	9 10 11 12 13 14 15 16 17 18	A. Seqoel, correct. Q. And what we have here is a way to grab some information from l'acebook, from a table inside Facebook; is that right? A. Correct. Q. And in particolar, I'm really bad with these. This one is going to say that it wants to select the information from the photo table; is that right? A. That's correct. Q. So this command would pick op information from the columns that we talked aboot before from the photo table; is that
9 10 11 12 13 14 15 16 17 18 19 20 21	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, becaose context information also refers to the actoal action. In fact, there is a time at which yoo know this particolar event happened, so it's ~ I'm not sore that yoo can really tell content from the action. It's sort of an atomic action on deciding, I want to post this information and as a resolt the context component grabs some information, pots in the	9 10 11 12 13 14 15 16 17 18 19 20	A. Seqoel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a table inside Facebook; is that right? A. Correct. Q. And in particular, I'm really bad with these. This one is going to say that it wants to select the information from the photo table; is that right? A. That's correct. Q. So this command would pick op information from the columns that we talked
9 10 11 12 13 14 15 16 17 18 19 20	keeps track of the fact that you did post, it says okay, John did this, he inserted something on to Mary's wall, and that's the metadata that we're going to du here; right? A. I mean, yoo know, two aspects are the same thing, becaose context information also refers to the actoal action. In fact, there is a time at which yoo know this particolar event happened, so it's ~ I'm not sore that yoo can really tell content from the action. It's sort of an atomic action on deciding, I want to post this information and as a resolt the context	9 10 11 12 13 14 15 16 17 18 19 20 21	A. Seqoel, correct. Q. And what we have here is a way to grab some information from Pacebook, from a table inside Facebook; is that right? A. Correct. Q. And in particular, I'm really bad with these. This one is going to say that it wants to select the information from the photo table; is that right? A. That's correct. Q. So this command would pick op information from the columns that we talked aboot before from the photo table; is that right?

, · · · · · · · · · · · · · · · · · · ·	Page 814		Page 816
1	Q. Thank you.	1	Doctrine of Equivalents, I think that was the
2	If a developer wanted to get	2	end of all of your analyses, you have to gu
3	infurnation about wall posts instead of about	3	through the whole thing first, find out if it
4	uploaded photos, this command would change and	4	infringes literally; in other words, does it
5	it would say select with the appropriate column	5	have every single wurd of every single part of
6	header strain from wall; is that right?	6	the claim, and then you have to do another
7	A. That is actually I'm not sure	7	analysis with the Doctrine of Equivalents.
8	if that is correct, because actually I mean,	8	Is it your position that Facebook
9	by analogy, the answer would be yes, but I'm not	9	infringes under the Doctrine of Equivalents for
10	sure if you can actually do it, because there	10	the same reasons that il infringes literally?
11	are certain things that you can see using FQL	11	A. So, my opinion is that infringes
12	and certain things that you cannot see. But of	12	literally, so that every element of the claim is
13	course, for example, you could use other pieces	13	directly mapped on an element of the Facehook
14	of the API to extract that tracking information	14	system.
15	frum the metadata and show it to a user.	15	Q. Please, go ahead.
16	Q. Thank you.	16	A. Okay.
17	Dr. Vigna, can you put Claim 25	17	Q. And so I understand that.
18	back on the board, on the easel for me, please.	18	A. Okay.
19	A. Absolutely.	19	Q. And then you also said that
20	Q, Thank you, sir.	20	Facebook infringes under the Doctrine of
21	A. You're welcome.	21	Equivalents.
22	Q. Now, in Claim 25, 1 just had a	22	A. At least under the Doctrine of
23	question about a couple of small little things.	23	Equivalents.
24	Claim 25 starts out and first off,	24	Q. And I'm asking you is it your
	Page 815		Page 817
1.	this is a dependent claim; right?	1	position that Facebuok infringes under the
2	A. Pardou?	2	Doctrine of Equivalents for the same means that
3	Q. Claim 25 ~	3	it literally infringes?
4	A. Yeali, it's a dependent claim.	4	A. Correct.
5	Q. And all that means is that in	5	Q. But under the Doctrine of
6	urder for sumeque to infringe Claim 25, they	6	Equivalents, in urder for there to be
7	have to find everything from Claim 23 plus; is	7	infringement under the Doctrine of Equivalents
8	that right?	8	don't you have to have at least one item of the
9	 That is correct. 	9	claim that's missing?
10	Q. And that's what's meant by the	10	A. In fact, my position is that it
11	language, the system of Claim 21, that's	11	infringes literally, because all the items are
12	shorthand for all that other gobbledegook from	12	there. But if somebody had to find some
13	23 would get replaced right here; right?	13	difference, my position is at least would
14	A. Correct.	14	infringe under the Doctrine of Equivalents
15	Q. Then it goes on and it says the	15	because those differences would be
1.6	thing of 21 wherein the context component	16	insubstantial. So that's what I was trying to
1 40			convey. My clear position as expressed in my
1.7	captures relationship data. What dues the word	17	
	"wherein" mean here? So the system of Claim 23,	1.8	report is that there is literal infringement on
17	•	18 19	report is that there is literal infringement on every element of the claim. I just want to be
17 18	"wherein" mean here? So the system of Claim 23, what does that what does that word mean to you?	18 19 20	report is that there is literal infringement on every element of the claim. I just want to be really clear about it.
1.7 18 19	"wherein" mean here? So the system of Claim 23, what does that what does that word mean to you? A. To me it means in which, during	18 19 20 21	report is that there is literal infringement on every element of the claim. I just want to be really clear about it. And also I'm not a lawyer, I'm a
17 18 19 20	"wherein" mean here? So the system of Claim 23, what does that what does that word mean to you? A. To me it means in which, during which.	18 19 20 21 22	report is that there is literal infringement on every element of the claim. I just want to be really clear about it. And also I'm not a lawyer, I'm a computer scientist and my job is not to discuss
17 18 19 20 21	"wherein" mean here? So the system of Claim 23, what does that what does that word mean to you? A. To me it means in which, during	18 19 20 21	report is that there is literal infringement on every element of the claim. I just want to be really clear about it. And also I'm not a lawyer, I'm a

	Page 82	2	Page 82
1	are perfurning all the sieps or Pacebook	- / 	-
2	pravides, you know, encouragement, direction for	ì	
3	others to perform those steps, that is grounds	3	17. 7 WILL
4	fur infringement. Is that correct or not?	4	di can l'an tena lite detrette in lite
5	Q. I'm talking about the second part.	5	- Maria - Carta - Cart
6	Let's put the Facebook employees over here. So	£	and the state of t
7	let's just fucus on the second part where	7	Total Page Bay 170 40 Hot COMO 1
8	Facebook is I think your words were directing or	3	ma trat rasponstoro tos milas dacia podi,
و	controlling or encouraging	Ţ	transmit or share on the site and are not
10	A. Encouraging, yeah.	9	responsible for any offense, inappropriate,
11	Q. — the users's actions. Is that	10	obscene, unlawful, or otherwise objectionable
12		111	conicut you may encounter on the site or in
13	right? And it's your opinion that Facebook	12	connection with any user content or third party
14	encourages, directs or controls the users	13	applications, software, or content."
15	through the terms of service and help files that	14	MS. KEEFE: Thank you, Dr. Vigna.
16	give instructions on haw to use the website; is	15	That's all I have for you.
17	that right?	16	THE WITNESS: Thank you.
18	A. And also other documents. That	17	THE COURT: Redircor.
	was interesting, the enthusiastic document that	18	REDIRECT EXAMINATION
19	was about politicians, key, politicians, come to	19	BY MR. ANDRE:
20	me, use my toul ru involve your users and when	20	Q. Иello, Dr. Vigna.
21	somebudy will become a fan of you, everybody, s	ì	A. Hello,
22	it was really trying to, you know, convince the	22	Q. Do you have your expert report
23	people to perform this action and use the system	23	with you up there?
24	and follow those.	24	A. Yes, I du,
	Page 823	en cleibara	Page 825
1	 Q. Kind of a marketing document, 	1	Q. Would you open up your expert
2	please use me flis way?	2	report and go to page 35 of your expert report.
3	A. Yealı.	3	A. Yes.
4	MS. KEEFE: Can we pur up exhibit	4	Q. About midway through the page
5	628; please, P. P628, please. It should be a	5	you'll see a parenthetical there after the word
6	terms of service or a terms of use.	6	cookie. Du you see ihat?
7	Q. I think you have it in your	7	A. Yes.
8	binder.	В	MS, KEEFE: Objection. To the
9	A. PTX 1000 or 1001. Oh, you're	9	extent that Mr. Andre is going to citier read
10	right.	10	from the record or Mr. Vigna is, it's going to
11	Q. So on this one, so this is a terms	11	be hearsay.
12	of use that Facebook has; correct? Can we go		THE COURT: Mr. Andre.
13	into I think it's the second page. Where did		MR. ANDRE: Your Hunar, she opened
14	I put it in my binder? Hang on one second,	14	the dourway. She asked about him using Burp and
15	A. It says page two of eight, so	15	firebug before his report. This is evidence
16	maybe it is the second page.	16	that he actually did use those touts in writing
17	Q. I think it probably is. Hang on	17	this report. It just gives the cookie
18	one second. Nape, my bad, page six. Glad I	18	identification that he showed.
19	didu't make us read all of that. Right?	19	MS. KEEPE: Still hearsay, Your
20	A. Oh, yeah.	20	Honor,
21	Q. So if we go to page six. Can we	21	THE COURT: I'm guing to overfule
	please blow up the very first paragraph. No,	22	it and see where this one question gues. But
2 2	blease grow up the very that baragraph, 140' 1		
22 23	just the first paragraph.	23	we'll see where it goes.

	Page 826		Page 828
1	Q. Dr. Vigna, without revealing	1	asked earlier roday if you used the tools
2	what's said there, do you see the I.D. where it	2	Firebog or Burp, similar tools when you wrate
3	says EG under cuokie?	3	your expert report; currect?
4	A. Yes.	1 4	A. Yes.
5	Q. Where did you get that information	5	Q. And as you sit here right now, can
6	from?	6	you say if you did or did not use such coals?
7	A. From the analysis of the	7	A. Yes, I did.
9	interaction of the browser with Facebook	9	Q. Okay, That's all I needed.
9	website.	9	THE COURT: Is that it?
10	Q. Is that the same number of the	10	MR. ANDRE: No, on that
11	cookie that you would find when you were doing	11	questioning, Sorry.
12	the Interceptor program here?	12	BY MR, ANDRE:
13	A. Yes, I mean, the value would be	13	Q. In the demonstrations that you
14	of course different because a different user,	14	have done, the demonstrative exhibits, any of
15	but yes, that's the same thing,	15	the demonstratives that you have shown here in
16	Q. So does that indicate to you that	16	the last two days, did they help in any way to
17	you actually used the type of tools you	17	shape your opinion?
18	demonstrated here in Court yesterday and today?	18	MS. KEEFE: Objection, Your Honor.
19	MS. KEEFE: Objection, Your Honor.	19	A. The demonstratives
20	Leading.	20	THE COURT: Hold on a second,
21	THE COURT: Sustained.	21	Ductor, Sorry.
22	BY MR. ANDRE:	22	Just briefly whar's the basis for
23	Q. Turn to the next page, page 36 of	23	the objection?
24	your expert report.	24	MS, KEEFE: He's talking about the
	Page 827		Page 829
1	A. Yes.	1	demonstratives he's created in the last few days
2	Q. And alter the end of the first	2	forming an opinion that was supposed to be
3	paragraph there, do you see that?	3	disclosed three manulis ago.
4	MS, KEEFE: Objection, Your Honor,	4	THE COURT: That's just a
5	Flearsay.	5	question. Overruled, I don't know if you can
6	MR. ANDRE: I haven't asked yet.	6	
7	THE COURT: I'm surry?	7	THE WITNESS: My answer is no, my
8	MR. ANDRE: 1 just want to know	8	opinion is my report. And I made those
9	I'm asking him to testify what it says, I'm just	9	demonstratives afterwards to illustrate my
10	asking if he sees it.	10	opinion that was filed with my expert report.
11	THE COURT: I'm going to overrule,	11	Everything is here. This is the best I could
12	but let's hear what the next question is, after	12	do, you know, with hundreds of hours of work.
13	we hear whether he sees it.	13	So I don't drink I need more.
- 4	MO DOTO ULAS LA	14	MR. ANDRE: Thank you. I have no
14	MS, KEEFE: I'll stay here,		-
15	BY MR. ANDRE:	15	further questions, Your Honor.
15 16	BY MR. ANDRE: Q. Do you see that, Dr. Vigna?	15 16	further questions, Your Honor. THE COURT: Okay. Thank you. You
15 16 17	BY MR. ANDRE: Q. Do you see that, Dr. Vigna? A. Yes, I see that. I extracted this	15 16 17	further questions, Your Honor. THE COURT: Okay. Thank you. You may step down, Doctor.
15 16 17 19	BY MR. ANDRE: Q. Do you see that, Dr. Vigna? A. Yes, I see that. I extracted this information	15 16 17 18	further questions, Your Honor. THE COURT: Okay. Thank you. You may step down, Doctor. THE WITNESS: Thank you very much.
15 16 17 18 19	BY MR. ANDRE: Q. Do you see that, Dr. Vigna? A. Yes, I see that. I extracted this information: MS. KEEFE: Objection, Your Honor.	15 16 17 18 19	further questions, Your Honor. THE COURT: Okay. Thank you. You may step down, Doctor. THE WITNESS: Thank you very much. Should I leave this computer here?
15 16 17 18 19 20	BY MR. ANDRE: Q. Do you see that, Dr. Vigna? A. Yes, I see that. I extracted this information MS. KEEFE: Objection, Your Honor: Hearsay.	15 16 17 18 19 20	further questions, Your Honor. THE COURT: Okay. Thank you. You may step down, Doctor. THE WITNESS: Thank you very much. Should I leave this computer here? MS. KEEFE: Yes, please.
15 16 17 19 19 20 21	BY MR. ANDRE: Q. Do you see that, Dr. Vigna? A. Yes, I see that. I extracted this information MS. KEEFE: Objection, Your Honor. Hearsay. THE COURT: Sustained. Let's move	15 16 17 18 19 20 21	further questions, Your Honor. THE COURT: Okay. Thank you. You may step down, Doctor. THE WITNESS: Thank you very much. Should I leave this computer here? MS. KEEFE: Yes, please. THE WITNESS: My computer?
15 16 17 18 19 20 21 22	BY MR. ANDRE: Q. Do you see that, Dr. Vigna? A. Yes, I see that. I extracted this information MS. KEEFE: Objection, Your Honor. Hearsay. THE COURT: Sustained. Let's move on.	15 16 17 18 19 20 21 22	further questions, Your Honor. THE COURT: Okay. Thank you. You may step down, Doctor. THE WITNESS: Thank you very much. Should I leave this computer here? MS. KEEFE: Yes, please. THE WITNESS: My computer? MS. KEEFE: No, you can take your
15 16 17 19 19 20 21	BY MR. ANDRE: Q. Do you see that, Dr. Vigna? A. Yes, I see that. I extracted this information MS. KEEFE: Objection, Your Honor. Hearsay. THE COURT: Sustained. Let's move	15 16 17 18 19 20 21	further questions, Your Honor. THE COURT: Okay. Thank you. You may step down, Doctor. THE WITNESS: Thank you very much. Should I leave this computer here? MS. KEEFE: Yes, please. THE WITNESS: My computer?

	Page 862		Page 864
1	couldn't du,	1	A. No.
2	THE COURT: Overruled. He can	2	Q. Would visiting a friend's profile
3	answer the question.	3	without doing anything more ever change that rov
4	BY MS. KEEFE:	4	in the photo table?
5	Q. Could Pacebook actually design its	5	A. It would not.
6	system so that the photo table did actually get	6	MS. KEEFE: Your Honor, this is a
7	updated to reflect the fact that you had moved	ļ	very good time for a break.
8	over in my profile page?	8	THE COURT: Let's take our
9	A. Yes, you could do that.	9	afternoon break at this time for fifteen
10	Q. And why have you not done that?	10	minutes. If you can show the jury out.
11	A. Frankly, because it would just be	11	THE CLERK: All rise.
12	a mess.	12	(Jury leaving the courtroom at
13	Q. What do you mean by that?	13	2:58 p.m.)
14	A. It would like going and writing on	14	THE COURT: We'll be in recess.
15	every book you had ever checked out that you	15	(A brief recess was taken.)
16	were miving around the literary.	16	THE COURT: I may have gotten
17	Q. You have created a graphic to	17	confused, but with Mr. Cox we're um going to be
18	illustrate how that might happen?	18	showing source code?
19	A. Yeali, I did.	19	MS. KEEFE: No, Your Honor.
20	Q. What are we seeing here?	20	THE COURT: I think I can not only
21	A. So each of the contexts are	21	unseal the record, but open the courtroom;
22	different pages on the site. Just imagine	22	correct?
23	they're like dilferent user profiles. And this	23	MS. KEEPE: Yes, sir, Your Honor.
24		24	THE COURT: So ask the court
24	is the photo metadata, the green is the photo	7.4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Page 863		Page 865
1	metadata.	1	security officer while we bring the jury in, you
2	Q. So the green bux around the smiley	2	can remove the papers and open the doors,
3	face is the photo metadata?	3	THE CLERK: All rise.
4	A. Yeah, for this example. And so if	4.	(Jury entering the courtroom at
5	I were moving around and we kept updating the	5	3:15 p.m.)
6	photo metadata, it would just like literally	6	THE CLERK: Please be seated.
7	people moving around on Facebook all day Inng,	7	THE COURT: Welcome back. The
8	we would be like editing all these photos all	8	witness can return in the stand.
9	the time. And you know when you try to edit	9	MS. KEEFE: Thank you, Your Honor.
10	something on your computer, it slows down a	10	BY MS, KEEFE:
11	little bit. We would be massively slowing down	11	Q. Mr. Cox, what is a page view on
12	the system, because every time people would be	12	Facebook?
13	moving around we would be like trying to change	13	A. A page view is what we call it
14	all their photos. It would be expensive. h	14	when a user looks at a page one time.
15	would be inefficient. And it wouldn't even do	15	Q. So would it be accurate to say,
16	anything useful, so we don't do it.	16	then, that you made a page view by coming to my
17	Q. Is there ever a time when the mere	17	profile page from your profile page?
18	movement of a user from one say profile page to	18	A. Yeah.
19	another profile page will cause the photo	19	Q. How many page views are there on
20	metadata in the photn rable to be updated in any	20	Facebook a day?
21	way?	21	A. It's upwards of twenty billion.
22	A. No.	22	Q. Was that billion with a B?
23	Q. Would navigation, mere navigation	23	A. Billion with a B.
24	ever change that row in the photo table?	24	Q. How many - and so again, a page

	Page 882		Page 884
1	basically a little piece of information that's	1	THE WITNESS: Yes.
2	stored on your browser, so the browser is like	2	BY MS. KEEFE:
3	Internet Explorer, Safari, Firebox, rhe cookie	3	Q. And so does Facebook do that?
4	is a little piece of information that gers	4	A. So we log page views in this big
5	stored on there by a website that you're	5	log which contains all the page views that
6	visiting to make the site more usuble.	6	happened in the system. A log is just a big
7	Q. Does Facebook use or interact with	7	file that you can add stuff to very, very
8	cookies?	В	quickly.
9	A. Yes, we do.	9	Q. And what is that log used for?
10	Q. How does facebook use cookies?	10	A. It's used for several things.
11	A. We use cookies for authentication	11	It's used to analyze how the site is being used
12	so you only need to log in one time and then you	12	so we know it it's broken, or to find people
13	can use Facebuck and Facebook knows that it's	13	that are acting maliciously like robots that are
14	you. So if you go to Facebook and you're not	14	going and friending people. The way that we can
	logged in, it will ask you for your user name	15	ascertain and understand what's wrong is just
15	and password. A lot of sites do this. Once you	16	looking fur patterns that are nutlicious or
16	enter your user name and password, we put a	17	erroneous or abnormal in the activity log.
17	cookie which is kind of like a key on your	18	Q. Is information from those lugs
18	browser so that as you're navigating through the	19	ever used to alter metadata in the photo table?
19	she, we can know that you have a key.	20	A. No.
20	h's kind of like a museum where	21	Q. Is juformation from those logs
21		22	ever used to update information in the wall
22	you go into the museum, you need to show your	23	table?
23	1.D. and pay and then they give you a key and	24	A. No.
24	you can use that key if there were locked doors		Page 885
فد به و دورونات	Page 883		
1	in the museum you would need a key to open them	1	Q. Is information from the logs ever
2	that's kind of how we use cookies.	2	used to update information in the minifeed
3	The museum guard is the login	3	lable?
4	sereen and then we give you a key and you can	4	A. No.
5	use that key to visit the rest the site.	5	Q. A user can tan a page; is that
6	Q. Does the cookie information have	6	correct?
7	anything to do with the photo metadata table	7	A. Yes.
В	that we were talking about earlier?	8	Q. How does that work?
9	A. No, not at all.	9	A. Well, first I should tell you that's called "like" now. It used to be called
	o to be francisco than the english	10	That's called "high" now H used to be called
10	Q. Is information from the cookies	į.	
10 11	ever used to update metadata in the photo table?	11	become a fau.
Į	ever used to update metadata in the photo table? A. No.	11 12	become a fan. Q. So how does a user like a page?
11	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to	11 12 13	become a fan. Q. So how does a user like a page? A. So if the privacy settings allow
11 12	ever used to update metadata in the photo table? A. No.	11 12 13 14	become a fan. Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A
11 12 13	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table? A. No.	11 12 13 14 15	become a fan. Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports ream or a
11 12 13 14	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table?	11 12 13 14 15 16	become a fan. Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports team or a politician or a celebrity or a business. It can
11 12 13 14 15	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table? A. No.	11 12 13 14 15 16 17	become a fan. Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports team or a politician or a celebrity or a business. It can be a lot of things. A user will visit that
11 12 13 14 15	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table? A. No. Q. Does Facebook track users using cookies? A. No.	11 12 13 14 15 16 17 18	Decome a fan. Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports team or a politician or a celebrity or a business. It can be a lot of things. A user will visit that page. There will be a like button on the page.
11 12 13 14 15 16 17	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table? A. No. Q. Does Facebook track users using cookies? A. No. Q. Does Facebook track user movement	11 12 13 14 15 16 17 18	Decome a fan. Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports team or a politician or a celebrity or a business. It can be a lot of things. A user will visit that page. There will be a like button on the page. They click the like button and it's done.
11 12 13 14 15 16 17	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table? A. No. Q. Does Facebook track users using cookies? A. No.	11 12 13 14 15 16 17 18 19 20	Decome a fan. Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports team or a politician or a celebrity or a business. It can be a lot of things. A user will visit that page. There will be a like button on the page. They click the like button and it's done. Q. What information is recorded when
11 12 13 14 15 16 17 18	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table? A. No. Q. Does Facebook track users using cookies? A. No. Q. Does Facebook track user movement from one location to another using anything other than cookies?	11 12 13 14 15 16 17 18 19 20 21	Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports team or a politician or a celebrity or a business. It can be a lot of things. A user will visit that page. There will be a like button on the page. They click the like button and it's done. Q. What information is recorded when a user likes a page?
11 12 13 14 15 16 17 18 19 20	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table? A. No. Q. Does Facebook track users using cookies? A. No. Q. Does Facebook track user movement from one location to another using anything other than cookies? MR. ANDRE: Objection, Your Honor.	11 12 13 14 15 16 17 18 19 20 21 22	Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports ream or a politician or a celebrity or a business. It can be a lot of things. A user will visit that page. There will be a like button on the page. They click the like button and it's done. Q. What information is recorded when a user likes a page? A. It's very similar to group
11 12 13 14 15 16 17 18 19 20 21	ever used to update metadata in the photo table? A. No. Q. Is cookie information ever used to update information in the wall table? A. No. Q. Does Facebook track users using cookies? A. No. Q. Does Facebook track user movement from one location to another using anything other than cookies?	11 12 13 14 15 16 17 18 19 20 21	Q. So how does a user like a page? A. So if the privacy settings allow it, there will be a like button on a page. A page can be a page for a sports team or a politician or a celebrity or a business. It can be a lot of things. A user will visit that page. There will be a like button on the page. They click the like button and it's done. Q. What information is recorded when a user likes a page?

, . , . ,	Page 914		Page 916
1	Take a look at the second page, second full	1	MS. KEEFE: Objection. Beyond the
2	paragraph. It says right there, each page is	2	scope.
3	stored with an enormous amount of metadata.	3	THE COURT: Overruled.
4	Isn't that right, Mr. Wiseman?	4	THE WITNESS: I'm sorry. Can you
5	A. Let me just look through this.	5	ask that question again?
6	Yes, I see that.	6	Q. Sure.
7	Q. Now, you mentioned you worked on	7	If you fan a page, information is
8	photos; is that right?	8	going to be written in the user database where
9	A. That's right.	9	all these other tables are stored; isn't that
_	Q. And you talked about the different	10	riglu?
10 11	information that we heard earlier about what was	11	A, Correct.
12	stored in the photo table; is that correct?	12	Q. How about if you import a photo
13	A. Correct.	13	into a group?
14	Q. The user ID; correct?	14	A. Yes, there will be a change in
	A. Right.	15	user database.
15	Q. Album ID'!	16	Q. And the user database is
16 17	A. Yes.	17	maintained by Facebook; isn't that right?
18	O. The creator?	18	A. Currect.
19	A. Yes.	19	Q. And we heard a little bit of talk
	Q. All that information that's stored	20	about different contents on Facebook; is that
20	in the user database; isn't that right?	21	rigItt?
21	A. It's stored in the photo table	22	A, Yes.
22	which is part of a larger database.	23	Q. Did you ever mention did you
23	Q. And you call it the user database;	24	ever hear of Mulligan?
24	Page 915		Page 917
		1	A. Yes, I have heard of that.
1	right?	2	MS. KEEFE: Objection. Beyond the
2	A. Yeah. It's one of many tables	3	seque.
3	that are part of the user database.	4	MR, HANNAH: He was talking about
4	Q. The other tables like the minifeed	5	the photos and about how they're uploaded. An
5	table are in there?	6	this is actually directly related to the
6	A. Yes, there is a table called	7	technology that they use and I'm just going to
7	minifeed.	8	establish that
8	Q. And it's in the user database;	9	THE COURT: Okay. You said
9	right?	10	plenty.
10	A. Correct.	11	MS. KEEFE: Absolutely beyond the
11	Q. How about groups, there is a table	12	scope.
12	for groups, tort, right?	13	THE COURT: I'm going to sustain
13	A. Yes, there is a table for groups.	14	it. Move on.
14	Q. That's in the user database; is	15	BY MR. HANNAH:
15	that right?	16	Q. That's all I have, Your Honor.
16	A. Correct.	17	Thank you.
17	Q. So all these tables are all	18	THE COURT: Redirect, Ms. Keefe.
18	maistrained in the user database; is that right?	19	MS. KEEFE: Just one second, Your
19	A. The user database is basically the	1	Honor.
20	service that we use to query all these different	21	THE COURT: Certainly.
1 _	tables.	(
21		22	REDIRECT EXAMINATION
21 22 23	Q. Right. So when you fan a page, that's also stored in the user database, isn't	22	REDIRECT EXAMINATION BY MS. KEEFE:

IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

LEADER TECHNOLOGIES,) Trial Volume 4

INC.,)

Plaintiff,)
C.A. No. 08-862-JJF-LPS

v.)

FACEBOOK, INC., a |
Delaware corporation,)

Defendant.)

July 22, 2010 9:00 a.m.

BEFORE: THE HONORABLE LEONARD P. STARK United States District Court Magistrate

APPEARANCES:

POTTER, ANDERSON & CORROON, LLP BY: PHILIP A. ROYNER, ESQ.

-and-

KING & SPALDING BY: PAUL ANDRE, ESQ. BY: LISA KOBIALKA, ESQ. BY: JAMES HANNAH, ESQ.

Counsel for Plaintiff

Hawkins Reporting Service 715 North King Street - Wilmington, Delaware 19801 (302) 658-6697 FAX (302) 658-8418

	Page 966	, *	Page 968
1	THE COURT: You may.	1	THE COURT: On 121 to the end,
2	Ms. Keefe, how much further are	2	there were several words.
3	you asking be read?	3	BY MR. HANNAH:
4	MS, KEEFE: I read to the bottom	4	Q. "QUESTION: Significantly.
5	of the page, Your Honor. I know that ends in	5	"ANSWER: Replacing one vague, one
	the middle of something, so I'm not exactly	6	vague term for another vague term is not a way
6	sure, do you have another copy, I can pick a	7	to - unfortunately I don't know. I can think
7	line.	8	of no major structural changes. Whereas the
8	MR. HANNAH: Can I just ask if he	9	description I just gave you would no longer
9	was asked the following question and if he gave	10	apply today. The description I gave you for how
10	the following answer, Your Honor? I would like	11	it operated at launch applies today. There may
11	ļ	12	have been other changes architecturally to
12	to mare on, MS, KEEFE: Your Honor, l	13	tables, names, schemas, operations, objects,
13		14	displays, but to the structure I talked about, I
14	apologize. My objection would still stand.	15	know of nothing."
15	THE COURT: Mr. Hannah, if you	16	So, Mr. Bosworth, you knew why l
16	want to read through to the top of, well, line	17	asked if there had been any significant changes,
17	two of 122, you may start at the point that you	18	you knew the answer to that question, didn't you
18	want to start.	19	during your depo?
19	BY MR. HANNAH:	20	A. You were as vague when you asked
20	Q. Mr. Bosworth, during your	21	it then as you are now. I think the question
21	deposition, you were asked:	22	sounds the same now as it was then. I agree the
22	"QUESTION: Has there been	23	definition of substantial. But there is
23	significant changes to minifeed since its	24	obviously lots of things we added. You also
24	launch?	24	
	Раде 967		Page 969
1	"ANSWER: Not that I know of.	1	kind I was referring in that deposition to
2	"QUESTION: So is it fair to say	2	some structure that I had described earlier, and
3	that it operates in substantially the same way		
E .		3	that structure truch like that I described
4	as it did in October 2006?	4	that structure truch like that I described earlier matches the description that I gave
4 5		4 5	that structure truch like that I described earlier marches the description that I gave here. So yeah, I feel that still stands today.
1	as it did in October 2006?	4 5 6	that structure trutch like that I described earlier matches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks.
5	as it did in October 2006? "ANSWER: For some definition of the word substantial. "QUESTION: Significantly.	4 5	that structure truth like that I described earlier marches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks. Now, let's be clear. The minifeed
5 6	as it did in October 2006? "ANSWER: For some definition of the word substantial. "QUESTION: Significantly. "ANSWER: Well replacing one	4 5 6 7 8	that structure truth like that I described earlier marches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks. Now, let's be clear. The minifeed table, it stores
5 6 7	as it did in October 2006? "ANSWER: For some definition of the word substantial. "QUESTION: Significantly. "ANSWER: Well replacing one rague, one rague term for another, the term is	4 5 6 7 8 9	that structure trutch like that I described earlier marches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks. Now, let's be clear. The minifeed table, it stores information that — it stores activity information of a user in a minifeed
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5 6 7 8 9	as it did in October 2006? "ANSWER: For some definition of the word substantial. "QUESTION: Significantly. "ANSWER: Welt replacing one rague, one rague term for another, the term is not a way to ~ I don't know, I can think of no major structural changes. The description I	4 5 6 7 8 9 10 11	that structure trutch like that I described earlier matches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks. Now, let's be clear. The initialized table, it stores information that — it stores activity information of a user in a minifeed table; is that right? A. And that's correct.
5 6 7 8 9	as it did in October 2006? "ANSWER: For some definition of the word substantial. "QUESTION: Significantly. "ANSWER: Well replacing one rague, one rague term for another, the term is not a way to ~ I don't know, I can think of no	4 5 6 7 8 9	that structure trutch like that I described earlier marches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks. Now, let's be clear. The minifeed table, it stores information that — it stores activity information of a user in a minifeed table; is that right? A. And that's correct. Q. And the minifeed table that's it
5 6 7 8 9 10	as it did in October 2006? "ANSWER: For some definition of the word substantial. "QUESTION: Significantly. "ANSWER: Well replacing one rague, one rague term for another, the term is not a way to I don't know, I can think of no major structural changes. The description I gave you would apply today. The description I gave you today of how it operated at launch	4 5 6 7 8 9 10 11 12 13	that structure trutch like that I described earlier marches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks. Now, let's be clear. The minifeed table, it stores information that — it stores activity information of a user in a minifeed table; is that right? A. And that's correct. Q. And the minifeed table that's in the user database; isn't that right?
5 6 7 8 9 10 11 12	as it did in October 2006? "ANSWER: For some definition of the word substantial. "QUESTION: Significantly. "ANSWER: Well replacing one rague, one rague term for another, the term is not a way to I don't know, I can think of no major structural changes. The description I gave you would apply today. The description I gave you today of how it operated at launch applies today. There have been other changes to	4 5 6 7 8 9 10 11 12 13	that structure trutch like that I described earlier matches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks. Now, let's be clear. The minifeed table, it stores information that — it stores activity information of a user in a minifeed table; is that right? A. And that's correct. Q. And the minifeed table that's in the user database; isn't that right? A. Yes.
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"ANSWER: For some definition of the word substantial. "QUESTION: Significantly. "ANSWER: Well replacing one vague, one vague term for another, the term is not a way to — I don't know, I can think of no major structural changes. The description I gave you would apply today. The description I gave you today of how it operated at launch applies today. There have been other changes tables, operations, objects, displays, but to the structure I talked about, I know of nothing." MS. KEEFE: Just one quick clarification, Your Honor. He misread a statement on lines 21 and 22. THE COURT: Yes. I know it was	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that structure trutch like that I described earlier marches the description that I gave here. So yeah, I feel that still stands today. Q. Okay. Thanks. Now, let's be clear. The minifeed table, it stores information that — it stores activity information of a user in a minifeed table; is that right? A. And that's correct. Q. And the minifeed table that's in the user database; isn't that right? A. Yes. Q. And you mentioned yesterday that a number of user actions that result in stories are displayed on the wall using the minifeed table; isn't that right? A. That's correct. Q. And that includes writing on someone's wall?

2 3 4 5 6 7 8 9 10 11 12 13	would be, so yes, I want to be very precise, Q. So if I go to someone else's wall and I write on their wall, I'm going to get an action on my profile that says that I wrote on their wall; right? A. That's correct. Q. And these actions also include joining a group; is that right? A. That's correct. Q. Fanning a page? A. Now called liking a page, I have	1 2 3 4 5 6 7 8	to describe it, yeah, absolutely. Q. And falcon is still used today; is that right? A. Falcon is still used today for some things, although not for news feed. Q. We'll get to that. Now, the Q feed servers say they would tail these falcon logs, they would store
2 3 4 5 6 7 8 9 10 11 12 13	Q. So if I go to someone else's wall and I write on their wall, I'm going to get an action on my profile that says that I wrote on their wall; right? A. That's correct. Q. And these actions also include joining a group; is that right? A. That's correct. Q. Fanning a page?	3 4 5 6 7 8	that right? A. Falcon is still used today for some things, although not for news feed. Q. We'll get to that. Now, the Q feed servers say they
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8 9 10 11 12 13	joining a group; is that right? A. That's correct. Q. Fanning a page?	8	
9 10 11 12 13	joining a group; is that right? A. That's correct. Q. Fanning a page?		would tail these falcon logs, they would store
9 10 11 12 13	A. That's correct. Q. Fanning a page?	9	
11 12 13 14			that information in the memory; is that right,
12 13 14		10	in a memory log?
12 13 14	V. 1404 content through a baller time to	11	 Yeah, not in the log, they would
13 14	been using the wrong language, but we just made	12	store it in memory, though. And I kind of
14	that change.	13	talked about memory yesterday as being this
	Q. All these actions that are done	14	short-term thing that eventually dissolves, it
15	that are stored, thuse are all stored in the	15	is not permanent.
	minifeed table on the user database; isn't that	16	Q. And then workers would come and
	right?	17	they would aggregate that data; is that right?
18	A. Yes.	18	A. Yeah, there is a process called
19	O. You also testified yesterday about	19	the worker.
20	a photo table. Do you remember that?	20	Q. And then the workers, they would
21	A. 1 do.	21	rank that data; is that right?
22	Q. Now, the photo table, that's also	22	A. That's correct.
23	stored in the user database; isn't that right?	23	Q. And then that data would get
24	A. That's correct,	24	written into the user database; is that right?
<u></u>	Page 971		Page 973
	Q. Now, you mentioned yesterday that	1	A. Into a separate table called news
1	there is no interaction between the minifeed and	2	feed stories
2 3	the photo table, but both these tables are	3	Q. So the news feed stories would
4	stored in the user database; is that right?	4	also be stored in the user database?
	A. That's correct.	5	A. That's right,
5 6	Q. You also testified about a news	6	Q. Along with the photo table and the
7	feed. Do you remember that?	7	minifeed table?
	A. Yeah.	8	A. I think the best way to think
9	Q. I'm going to get a little bit into	9	about it is you have a house with like a car and
10	the weeds on this, but I just want to be	10	a bike in it, and then it's got a blender in it,
11	precise. Now, in 2006 when news feed launched,	•	and those things aren't related but they're all
l .	you were part of that launch; is that right?	12	stored in the house. So I think you're right,
12	A. I was.	13	these things are stored someplace.
13	Q. All right. Now, when news feed	14	Q. All in the user database?
14	launched, it was using Q feed servers; is that	15	A. They were different tables in the
15	:	16	user database.
	, right? A. That's correct.	17	Q. Now, there was a change to the
17	Q. And the Q feed servers, they would	18	news feed in 2008; is that right?
18	rail what are called falcon logs; is that right?	19	A. Yes.
19	A. They would tail falcon logs, yes.	20	Q. And that's when you started using
20	Q. Now, just to explain, falcon logs	21	multifeed; is that right?
21		22	A. That's correct.
22	is a way to log users' actions on the site; is	23	Q. And multifeed, they would tail the
23	that right? A. Falcon logs are that's one way	24	falcon logs as well; isn't that right?

Page 1004 Page 1002 everywhere you see dynamically, you can swap in 1 informatiun. 1 the lengthier but mure precise expression, 2 So what is that? Well, we'll come 2 automatically and in response to the preceding 3 to that. But it's not arbitrary information, 3 4 events. h's context information. And as you'll see, 4 What is the preceding events? context is really a synonym in this patent for 5 5 There is only one candidate hir it. There is 6 what environment you're in, what virtual 6 only one thing that's happened so far which is 7 environment you're in, what web page you're on. 7 the user has created some data in the lirsi ₿ So if the user is in some context, ₿ 9 context. there is a context component of the system 9 The context component has captured 10 that's cupturing this context information. And 10 information about that context and they're going 11 that cuntext information is associated with some 11 to automatically store this context component in 12 data that the user creates in this first 12 13 meradara. context. 13 As you probably know by now, So they're in some location. That 14 14 metadata is sort of a very general computer 15 location is the context and the user creates 15 science temi that basically refers to 16 sume data. So it's data created by user 16 information about information, sort of data 17 interaction, so I also want to circle that it's 17 18 about data. 18 created. So, for instance, you know, as I'm 19 So the user is in this 19 sure you heard in some of the disenssions 20 environment. They are in some context or 20 already, if I have a photograph, a digital location in this environment and they undergo 21 21 photograph, right, the digital photo, the file 22 same act of creation. So if you want to create 22 kind of containing the bits of the digital examples, they perhaps create a new document and 23 23 phorograph itself, that we would consider data. 24 start typing a letter to their mother into it. 24 Page 1005 Page 1003 And then I might have metadata which is sort of 1 Okay. That's just one example. 1 annotations or additional information about that 2 But so now we're starting to see 2 photo that I might want to keep around for the interleafing of steps by the system, steps 3 3 various reasons, like how high quality is the 4 by the user. The system is there. It has a 4 photograph, what is its resolution, what are the 5 context component. The user is in some 5 intended width and heightx that it should be б context/location. The user then takes a step of 6 displayed, so on and so forth, this would be 7 creating some data. Okay? And that data, of 7 course, being created in the first context of В what we would call metadata. В So, you know, the sequence is the 9 9 the network-based system, so on and so forth. user is in this first cuntext or environment, Now, the context component is 10 10 they create some data in that first context or 11 supposed to do something automatically in 11 12 environment, the context component silently response to the mere creation of that new 12 without any further initiative by the user just 13 content or data by the user. 13 in response to the act of creation then 14 So the context component then 14 automatically stores metadata about the context 15 dynamically stores the context information in 15 right, so not about the data per se, but about metadata. So that's a lot of words, I realize, 16 16 the context, and automatically stores that with 17 but I think at the end of the day it's quite 17 18 the data. 18 simple. 19 So this is going to be stored with So first af all there is this term 19 the user defined data. And this is just one of dynamically, which I would imagine the jury has 20 20 many places in the patent where it makes it been told has been given a precise meaning by 21 21 clear that what Itappens is, you know, the user 22 the Court. So it's a synonym for automatically 22 creates some data, the system automatically 23 23 and in response to the preceding event.

wraps up and stores with that piece of data the

24

So there is a reference, so

24

	Page 1074		Page 1076
1	So my first, you know,	1	THE COURT: Cross-examination.
2	disagreement here is that the Facebook	2	CROSS-EXAMINATION
3	technology meets the condition that the metadata	3	BY MR. ANDRE:
4	he storing the context information as it's	4	Q. Good morning, Dr. Keams.
5	clearly called for in the first item.	5	A. Good marning.
6	Okay. Su let's move on, Right.	6	Q. My name is Paul Andre. I'm going
7	The tracking component is entirely absent. 1	7	to ask you a few questions here.
8	think this is perliaps the biggest hole in all of	8	A. Please.
9	this. There is no component of Facehook which	9	Q. Let me just ask you a couple of
10	is there perpetually watching users navigate	10	questions that just came up about the Yahoo for
11	from one page to another and then automatically	11	Dumniles and eBay for Dummies, Is that what
12	updating the metadata created in the first	12	computer scientists like yourself use to build
13	context in response to that movement. It's just	13	software systems?
14	entirely absent. It's just not there.	14	A. These books?
15	As an aside, I would just comment	15	Q. Yeah.
16	there is a good reason it's not there. It would	16	A. Of course not.
17	he horrifically impractical. They have	17	Q. Okay. Who are they meant for?
18	500,000,000 users now, much of what users are	18	A. They're meant amend for end users
19	doing on Facebook is not uploading photos or	19	who are, you know, not builders of systems, but
20	leaving contents, but they're just hrowsing	20	users of system.
21	around. They're not taking any action other	21	Q. Right. Those books wouldn't teach
22	that navigating through the system. And if	22	them how to build Yahoo!, for example?
23	Facebook liad to log perpetually all of that	23	A. They would not.
24	navigation information and furthermore store it	24	Q. And that wouldn't teach them how
	Page 1075		Page 1077
1	with the original data created back in the first	1	lo huild eBay?
2	context or some previous context, they just	2	A. They would not.
3	never would have been able to have a working	3	Q. You didn't do any type of
4	system of the scale that they have today.	4	inspection of the back end of Yalioo! or eBay,
5	So the tracking component is	5	did you?
5	entirely missing. That's doing this tracking	6	A, 1 did not.
7	from one context to another. The dynamic	7	Q. And you don't know the back end of
В	updating of the stored metadata hused on the	8	Aniazon, either, do you?
9	change of context is, therefore, also missing.	9	A, I do not.
10	And finally, you know, there is	10	Q. Okay. Now, I noticed in your
11	no there is no requirement that the user when	11	testimony here with Mr. Rhodes that you didn't
12	navigating from that second context do anything	12	really take exception with Dr. Vigna's analysis
13	there? So this final step wherein the user	13	per se, the technical analysis.
14	accesses the data from the second context is	14	A. Well, I think I disagreed with
15	also entirely missing.	15	many, many parts of it actually.
16	Q. So in your opinion, you would	16	Q. I'm not talking about if I apply
17	agree that there are some elements of that claim		the claims, I'm just talking about how the
18	that might he present on the Facebook system?	18	system operates,
19	A, Right.	19	A. You know, in his use case, his
20	Q. But the ones that you identify are	20	description of the end user's experience when
21	the ones that are missing?	21	navigating through various Facebook pages is
22	A. Correct.	22	accurate and easily verified. But, as I said
	MR, RHODES: Your Honor, thank	23	earlier. I think that what matters is the
23	MR. REPORCE: Tom Floride, mank	24	implementation of what's under the hood.

1 2	Page 1142		Page 1144
	A. Same comment to metadata. If you	ı	I mean, it wasn't a term used very
_	define metadata to be sufficiently broad and	2	often at that time?
3	inclusive, then sort of updating any piece of	3	A. I would say circa 2002-2003, we
4	metadata is an update to all of the other	4	were starting to see that term enter sort of
5	ınctadata.	5	popular language. But, you know, a couple of
6	Q. Right. So if we get the	6	years before that, most people wouldn't have
7	definition of metadata of just data about data,	7	associated that term with any specific kind of
8	the broadest possible interpretation, then if	8	technology.
9	new metadata is added, then you update the	9	Q. All right. And Facebook itself
10	metadata?	10	wasn't founded until 2004 and that's by far the
11	A. Yeah. I would agree.	11	largest social networking site in the world?
12	Q. All right, Fair enough.	12	A. That's right. But things like
13	Now, your interpretation of the	13	Friendster were around like a year or more
14	claims, as you walked through them this morning	i	before that.
15	with Mr. Rhodes, is that essentially all four	15	Q. I'll ask you one other question.
16	independent claims all have essentially the same	16	Do you have Claim 1?
17	meaning when it comes to the tracking aspect of	17	When you see the word right here
18	the claims; correct?	18	based on the change, the word based, that's what
19	A. It seems to me, yes.	19	I want to say.
20	Q. And you didn't offer an apinion	20	Do you interpret that as because?
21	one way or the other regarding the dependent	21	A. In response to.
22	claims, did you!	22	Q. So
	A, I mean in my report, I think I	23	A. I see that as sort of reinforcing
23		24	the phrase dynamically in the Court's
24	said brief things about them and the fact that		Page 1145
_	Page 1143	1	construction.
1	since they're all dependent, you know.	2	Q. Lunderstand. So that's your
2	Q. But I'm talking about today with	1	
	3.5 Discount of the second and the s	ં વ	*
3	Mr. Rhodes, you didn't talk about the dependent	3.	definition in response to or because of!
4	claim others than the fact	4	definition in response to or because of? A. In response.
4 5	claim others than the fact A. Not in any detail, sir.	4 5	definition in response to or because of? A. In response. Q. So if I wrote a book based on
4 5 6	claim others than the fact A. Not in any detail, sir. Q. Okay. Now, early in your	4 5 6	definition in response to or because of? A. In response. Q. So if I wrote a book based on George Washington's life, it's because I wrote a
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4 5 6 7 8	claim others than the fact A. Not in any detail, sir. Q. Okay. Now, early in your testimony, you talked about the possible uses for the invention of the '761 patent.	4 5 6 7 8	definition in response to or because of? A. In response. Q. So if I wrote a book based on George Washington's life, it's because I wrote a book because George Washington lived? A. I consider that to sort of be
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4 5 6 7 8 9 10 11 12 13 14 15	A. Not in any detail, sir. Q. Okay. Now, early in your testimony, you talked about the possible uses for the invention of the '761 patent. And you said it seemed to be somewhat business related, but it could be for other things as well; right? A. Right. Q. And it could be for recreational purposes, for example? A. There's no language in the patent that would exclude that, sir.	4 5 6 7 8 9 10 11 12 13 14 15	A. In response to or because of? A. In response. Q. So if I wrote a book based on George Washington's life, it's because I wrote a book because George Washington lived? A. I consider that to sort of be taking what I'm saying out of context here. I mean, we're talking about the patent. We're talking about a precise series of steps to implement my computer. Q. I understand your definition. I'm trying to get the word based. A. Yeah, So the definition of based that I would use here would be in response to.
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IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

LEADER TECHNOLOGIES,) Trial Volume 5 INC.,)

Plaintiff,

) C.A. No. 08-862-JJF-LPS

w.

FACEBOOK, INC., a Delaware corporation,

Defendant.

Friday, July 23, 2010 9:00 a.m.

BEFORE: THE HONORABLE LEONARD P. STARK

United States District Court Magistrate

APPEARANCES:

POTTER, ANDERSON & CORROON, LLP BY: PHILIP A. ROVNER, ESQ.

-and-

KING & SPALDING

BY: PAUL ANDRE, ESQ. BY: LISA KOBIALKA, ESQ. BY: JAMES HANNAH, ESQ.

Counsel for Plaintiff
Hawkins Reporting Service
715 North King Street - Wilmington, Delaware 19801
(302) 658-6697 FAX (302) 658-8418

In *** *** * * *	Page 1387	,	Page 1389
1	are the platform and the phone are actually	1	the truth, the whole truth and nothing but the
2	separate things?	2	truth so help you God?
3	A. No, that statement was going to	3	THE WITNESS: Yes, I do.
4	issues of finances and had nothing to do with	4	THE CLERK: Please be scated.
5	the technologies that was out. They would be	5	THE COURT: Good morning.
6	charged our and counted out within The Limited.	6	THE WITNESS: Good morning.
7	Q. Have you ever heard the phrase	7	DIRECT EXAMINATION
8	vaporware!	8	BY MS, KEEFE:
9	A. Yes.	9	 Q. Good morning, Dr. Greenberg.
10	Q. What is it?	10	Could you please briefly run through your
11	MS. KOBIALKA: Objection, Your	11	education and your degrees for us?
12	Honor. This is beyond the scope of the cross.	12	 A. So I received my bachelor of
13	THE COURT: I don't know where	13	science from the Gill University in 1976. 1
14	this is going.	14	think it was quite a long time ago.
15	MR. RHODES: Thank you.	15	Sorry, 1980.
16	THE COURT: Okay.	16	Q. What was that degree in? You said
	MR. RHODES: It's time to mave on.	17	bachelor of science?
17	THE COURT: We'll move un.	18	A. Bachelor of science.
18	MR. RHODES: I thank you fur your	19	Q. And was there a specialization?
19		20	A. That was in inicrobiology and
20	indalgence. THE COURT: Okay.	21	immunology. I then received a diploma of
21	Mr. McKibben you can, step down.	22	education, that training for teaching.
22	THE WITNESS: Do I take this?	23	It was '78 my initial one. And
23	THE COURT: You can leave it for	24	in I received my master of computer scien
24	Page 1388		Page 139
	Fage 1300		in 1984 and my Ph.D. in computer science in
1	counsel to remove.	1	
2	MS. KEEFE: Your Honor, we also	2	1988. Q. And could you briefly run through
3	have more paper for the jury members, and we'v		
4	discussed it with opposing counsel, and I don't	4	yonr work history for us? A. Sure. After I finished my Ph.D.,
5	think there's any objections; is that right?	5	I worked for the Alberta Research Cuansel at
6	MR. ANDRE: There's no objections.	6	
7	THE COURT: So you want the	7	post-doctoral research where I was asked to
8	distribute the hinders?	8	explore the area of computer support and
	MS, KEEFE: May I, please?	9	cooperative work. And shortly after
9		10	And shortly after
9 10	THE COURT: Let's do that now.	}	
	MS, KEEFE: I tried to decide if	11	Q. Sorry. Just real quick, when you
10	MS. KEEFE: I tried to decide if it was afternoon or morning.	11 12	 Q. Sorry. Just real quick, when you use the terms computer operative work; is that
10 11	MS. KEEFE: I tried to decide if it was afternoon or morning. THE COURT: Still morning.	11 12 13	Q. Sorry. Just real quick, when you use the terms computer operative work; is that what I heard?
10 11 12	MS. KEEFE: I tried to decide if it was afternoon or morning. THE COURT: Still morning. MS. KEEFE: Good morning, Your	11 12 13 14	Q. Sorry. Just real quick, when you use the terms computer operative work; is that what I heard? What is this?
10 11 12 13	MS. KEEFE: I tried to decide if it was afternoon or morning. THE COURT: Still morning. MS. KEEFE: Good morning, Your Honor. At this time, Facebook would like to	11 12 13 14 15	Q. Sorry. Just real quick, when you use the terms computer operative work; is that what I heard? What is this? A. Computer supported cooperative
10 11 12 13 14	MS. KEEFE: I tried to decide if it was afternoon or morning. THE COURT: Still morning. MS. KEEFE: Good morning, Your Honor. At this time, Facebook would like to call Dr. Saul Greenberg to the stand.	11 12 13 14 15 16	Q. Sorry. Just real quick, when you use the terms computer operative work; is that what I heard? What is this? A. Computer supported cooperative work. That's essentially how people and tearn
10 11 12 13 14 15	MS. KEEFE: I tried to decide if it was afternoon or morning. THE COURT: Still morning. MS. KEEFE: Good morning, Your Honor. At this time, Facebook would like to call Dr. Saul Greenberg to the stand. THE COURT: You may do so.	11 12 13 14 15 16 17	Q. Sorry. Just real quick, when you use the terms computer operative work; is that what I heard? What is this? A. Computer supported cooperative work. That's essentially how people and team can work together using cumputing technolog
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	Page 1391	.,,	Page 1393
1	positiun loday.	1	A. Well, pround so I first got
2	I'm a full professor with computer	2	infa this around 1980, '81. And at that time,
3	science at the University of Calgary.	3	technology was really designed for prugrammers
4	Q. And what do you do as a full	4	or for people who speul a lot of time trying to
5	professor?	5	figure out computing technology.
6	A. Oh, luts of stulf. Pringrily I do	6	And I was introduced to this
7	teaching, research and service.	7	concept of human computer cooperative
	So reaching is, of course,	8	interaction by one of my professors where it
8	reaching undergraduale computer scientists about		tried to really envision how we can create
9	the basic concepts in the field. But it also	10	technology that's really for everyday people for
10		11	everyday people performing their everyday work.
11	involves supervising and mentoring graduate		And that's kind of sounds
12	students. So these are students who will become	13	updated now, but because here we are in 2010 but
13	highly skilled professionals researching in	14	back in 1980, that wasn't the case. Technology
14	their own right and perhaps professors in	15	was really only available to highly skilled
15	neadentics as well.	16	people or for people who spent a luf of time
16	For research, 1 work with my		training themselves to understand the colluguial
17	students. We investigate usually quite novel	17	language of rechnology.
18	areas of technology.	18	Q. As a researcher, do you also write
19	We fry to to essentially to	19	#
20	envision the future to try to make the future a	20	code? A. Oh, absolutely. So what the
21	hetter place with technology and to explore the	21	
22	pussibilities of those.	22	kinds of things that I tend to to in my jub has
23	And with service, usually that	23	a lor to do with designing new ways to think
24	involves helping the community as a whole. In	24	about technology.
	Page 1392		Page 1394
1	this case, the academic cummunity comes to some	1	And often the new ways that we
2	consensus about the quality of work that is	2	want to do things don't really fit on a
3	worthy of acceptance and distribution to the	3	computing platform as they now exist. So we
4	rest of the community.	4	spent a lot of time and by we, I megatt
5	So we do a fol of judging of	5	myself, my studenis, my post-dues, research
6	things like papers, whether they're worthy for	6	assixlants, essentially working at the low-level
7	publications. I spend a fur of my time duing	7	plumbing all system design where we spent a lo
8	list.	8	of time huilding systems, building the
9	I do things such as judging other	9	underlying architectures that will let us
10	professors to see whether they should be	10	actually create a new way of envisioning
11	promoted or not. So I'm often given -	11	computers.
12	Q. Surry. Is there 5 special area of	12	So, yes.
13	computer science that you fucus on?	13	Q. Have you been recognized with any
14	A. Yes, the area I work in is called	14	awards in your field?
15	human computer interaction, which is essentially	15	A. Yes. I have reveral awards from
16	designing and computing technology for human use	16	some organizations. Starting with the most
17	for everyday people.	17	local, I have a university professorship from my
	And within that, I work in a	18	own university, University of Calgary, And
ş.		ļ.	that's different from being a professor.
18		19	man a ditterent nous cours a brotomor.
18 19	subdiscipline called computer supported	1	
18 19 20	subdiscipline called computer supported cooperative work. And we uften call that CSU.	20	it's resentially - it's an award
18 19 20 21	subdiscipline called computer supported cooperative work. And we aften call that CSU. So there is a bit of jurgon for	1	h's essentially - it's an award of distinction. It's recognized as my
18 19 20	subdiscipline called computer supported cooperative work. And we uften call that CSU.	20 21	it's resentially - it's an award

Page 1397 Page 1395 that we build. recognition. It comes with funding and other 1 I Q. Can you give us an example of 2 2 (hings. something that would be a groupware, a product 3 Within Canada, Have an award 3 in the market today? from the computer - I have to remember the đ. 4 acranym. It CHCCS Society, which essentially 5 A. Sure. There's -- in fact, t 5 suspect many thembers of the Court and jury has 6 has recognized my research achievements in the 6 already experienced this of these computers. field. And that was, I think, in about 2005, 7 7 So the small kind of things that 8 8 200ti. you use, like Instant Messenger or Skype, maybe ð But probably the one I'm the most 9 even equail at one extreme is a type of proud at is I'm what's - I was elected as a 10 10 group ware. It lets you interact with other member of the ACM Chi Academy for essentially my 11 11 people through the technology. overall research contributions to the field. 12 12 But more broadly, there's more 13 And I should explain that ACM is the association 13 enterprise-level systems that are really there 14 at computing machinery. 14 to try to support teams to pursue some task 15 15 h'a -- essentially it'a an where the -- you know, in an organizational academic association that really takes care of a 16 16 setting, there could be a team that's working but of the academic staff that happens, and not 17 17 18 toward a goal. only in North America, but internationally, 18 And they have, for example, a 19 And the Chi is the discipline that 19 whole bunch of documents that they're producing. I work with in computer human interaction. So 20 20 Maybe people are working across distributed 21 the ACM Chi Academy is essentially a peer 21 sites, so the technology will help them 22 recognition by the group that there's certain 22 communicate with each other. It will also help 23 members in the discipline, thursands of 23 them coordinate their activities, and as well it 24 resesuchers in the discipline that should be 24 Page 1398 Page 1396 will help their share and store all their recognized for their contributions in the area. 1 1 artitacts, their documents, those kind of 2 And I received that in '95 - iu 2 things, in a way that goes beyond what we can 3 2005. As I said, I'm very proud of that. 3 currently do with our traditional computers that 4 Q. And you mentioued that group ware 4 are designed for one person to use them. 5 5 was one of the words that can be used to O. Have you ever created a groupware 6 describe your particular special field of 6 7 product! computer science; is that right? 7 A. Yes. 8 A. Thai's correct. 8 Q. What was it called? 9 Q. And what is groupware? 9 A. We actually created a lot of 10 A. Well, groupware is the underlying 10 groupware products, and the typical way we work 11 technology that - it's essentially computing 11 in our lab is that we build our systems and we systems that lets groups of people, teams 12 12 write papers about their and their we almost 13 actually do their work, pursue their tasks 13 always try to place our systems online to give 14 together. 14 them to others. We make them freely available So the field of computer support 15 15 so other researchers can build upon our 16 of cooperative work is really a natich broader 16 platforms or try them out to see if what which 17 thing. It looks at the design. It looks at the 17 18 say is true. 18 implementation. One of the systems ive build is 19 But it also looks to see what 19 team rooms. To give you a flavor of it, we did people do today. We actually go out in the 20 20 that, I guess, in the early 2000s. Team rooms 21 field. We watch what people do. 21 was a system that essentially lets groups of 22 And we try to use that and 22 people create virtual rooms where you can create influence our design. Groupware is the actual 23 23 a room around a topic of interest. technology. It's the system and all the time 24

**************************************	Page 1399	<u>., ,. , , </u>	Page 1401
	į	1	the time you're working with us in this case?
1	One or more people can go in the		A. Yes.
2	room, bring applications to the room, bring work	2	Q. And how much are you being paid?
3	and documents and their own data. It's a real,	3	A. \$450 an hour.
4	physical mom that you work with a feam. Yun	4	Q. Were you asked to perform any
5	can leave stuff in there, and stuff stays where	5	7 - H
6	it is.	6	tasks in this case?
7	People can come and go in it, and	7	A. Yes, I was.
8	everything they have in the room is available to	8	Q. And what were you asked to do?
9	them. In a way it sets a context or environment	9	A. I was essentially asked to do two
10	for them to do their work together over time.	10	different things.
11	Q. Just one last background question.	11	The first was to look to
12	Have you ever been mentioned in connection with	12	essentially compare the provisional application
13	any rankings in the computer industry in terms	13	filed by Leader with the actual 761 patent.
14	of your papers or group ware?	14	Everybody knows what I mean about the 761
15	A. Sure. One well, the way	15	patent?
16	academics are normally ranked is by the	16	Q. I think we heard about it a lot.
17	publication. That's the corner of realm. It's	17	A, To the 761 patent. I was
18	how we spread our ideas around.	18	essentially asked to compare the two to see if
19	There's two external sites that I	19	the provisional application discloses each and
20	know that have ranked me. There's one site	20	every element in the asserted claims of the 761
21	called the HCR, human computer interaction	21	patent and to render an opinion as to whether it
22	video. I dim't go there. They collect the	22	does. And if it didn't disclose them, I believe
23	papers of everything in my area. I'm lisied as	23	that Leader was not entitled to the filing date
24	I believe - as think I'm the third from the top	24	of the provisional application.
	Page 1400		Page 1402
	author on their top authors list, and this is of	1	Q. Were you asked to perform another
1	thousands.	2	task'
2	And more recently I just came back	3	A. Yes.
3	from Microsoft, and they have a service there	4	Q. What was that?
4	ealled Microsoft academic search they just	5	A. The second task was to take the
5	released over the last recent period of time,	6	761 and essentially to judge its novelty. That
6	released over the last recent period of time,	7	is, to compare each and every asserted element
7	and if you go into their site and look up	8	in the asserted claims of the 761 patent against
8	human-computer interaction over the last ten	9	several references. That is, several
9	years, I believe I'm the third most ranked at	10	publications or systems that appeared before the
10	that one, and I'm the fifth one at HCR, and	11	filing of the either the provisional and 761
11	these are done by external organizations I have	12	patent.
12	nothing to the with.	13	And if in fact the ideas in the
13	Q. Thank you, Dr. Greenberg.	14	761 patent appeared earlier, then it's not
1			
14	MS. KEEFE: At this time, Facebook)	
15	would like to proffer Dr. Greenberg as an exper	15	novel, so that in the words, it means that the
15 16	would like to proffer Dr. Greenberg as an expering the field of computer science.	15 16	novel, so that in the words, it means that the patent would be invalid.
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	Page 1403		Page 1405
1	disclose every element of the asserted claims of	1	So what materials you used and what documents
2	the 761 patent.	2	you relied on in caming up with your opinion.
3	Q. And did you come to an opinion	3	A. Sure. Should I start with the
4	regarding your second task, whether or not the	4	priivisional?
5	patent was valid?	5	Q. Ler's start with the provisional.
6	A. Yes, I did.	6	What documents illid you use in order to come to
7	Q. What was that?	7	your opinion that the provisional did not
8	A. As you can see here, I compared	8	disclose all of the clements of the final
9	each asserted claim of the 761 patent to a	9	patent?
10	variety of references, and for the first three	10	A. For the provisional, I looked only
	there, we see U.S. patent 6236994. I'll call	11	at the provisional, and I compared all the
11 12	this Swartz from now on. Swartz is the inventor	12	material, and I compared that extensively with
	assigned to.	13	what was in the asserted claims of the 7612
13	Everything in the asserted claims	14	patent. I would look at, for example, claim
14	was in Swartz, and the iManage 6.0 reference	15	one, each one of the elements, and I would
15	manual, and I again found all the ideas in the	16	search through the provisional application to
16	asserted claims in each and every element of the		see if that idea was there.
17	asserted claims in the iManage system.	18	O. And in order to understand what
18	And I also looked at the European	19	the claims of the issued patent covered, how did
19	patent application, EP 10873067 AT, which I'll	20	you do that? Did you have any documents that
20	patent application, or Tvo 7300 7744, which in		educated you as to what the language of the
21	call Huliert, and I found each and every element	22	claims meant?
22	of the asserted claims in the Hubert patent were	23	A. Yes, the Court construed certain
23	in the 761 patent - I should currect myself, For Swartz and Hubert. That's each and every	24	ternis that was in the 761 patent, so I followed
24	Page 1404		Page 1406
		4	that definition when they were there,
1	asserted claim except for sixteen.	1	
2	If you look at these patents in	~	18 sha Court did not countrie or
		2	If the Court did not construe or
3	combination with another patent called Auseins,	3	define any terms, I went to the patent itself to
4	eomhination with another patent called Auseins, then claim sixteen, the idea is also there.	3 4	define any terms, I went to the patent itself to see if they provided a definition.
4 5	eombination with another patent called Auseins, then claim sixteen, the idea is also there. Q. If I understand you correctly,	3 4 5	define any terms, I went to the patent itself to see if they provided a definition. If they did not provide a
4	eombination with another patent called Auseins, then claim sixteen, the idea is also there. Q. If I understand you correctly, you're saying that all of the claims would be	3 4 5 6	define any terms, I went to the patent itself to see if they provided a definition. If they did not provide a definition, I used the definition that would be
4 5	eomhination with another patent called Auseins, then claim sixteen, the idea is also there. Q. If I understand you correctly, you're saying that all of the claims would be invalidated by every claim except sixteen	3 4 5 6 7	define any terms, I went to the patent itself to see if they provided a definition. If they did not provide a definition, I used the definition that would be known to one skilled in the art.
4 5 6 7 8	eombination with another patent called Auseins, then claim sixteen, the idea is also there. Q. If I understand you correctly, you're saying that all of the claims would be invalidated by — every claim except sixteen would be invalidated by Swartz or iManage or	3 4 5 6 7 8	define any terms, I went to the patent itself to see if they provided a definition. If they did not provide a definition, I used the definition that would be known to one skilled in the art. These slides are bit of evidence
4 5 6 7	eombination with another patent called Ausents, then claim sixteen, the idea is also there. Q. If I understand you correctly, you're saying that all of the claims would be invalidated by — every claim except sixteen would be invalidated by Swartz or iManage or Hubert by themselves; is that correct?	3 4 5 6 7 8	define any terms, I went to the patent itself to see if they provided a definition. If they did not provide a definition, I used the definition that would be known to one skilled in the art. These slides are bit of evidence back up.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	eombination with another patent called Ausents, then claim sixteen, the idea is also there. Q. If I understand you correctly, you're saying that all of the claims would be invalidated by — every claim except sixteen would be invalidated by Swartz or iManage or Hubert by themselves; is that correct? A. It's almost correct, except for sixteen by Swartz or Hubert alone. iManage does disclose claim sixteen. Q. And then for claim sixteen, would claim sixteen he invalid as well? A. Well, I helieve claim sixteen, if you look at what's in the claim, it would really be obvious to one skilled in the art to a practitioner of the day. Aside from that, it would be obvious in you combine the Ausems patent with any one of the other patents. Q. We'll go into those with detail.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	define any terms, I went to the patent itself to see if they provided a definition. If they did not provide a definition, I used the definition that would be known to one skilled in the art. These slides are bit of evidence back up. Q. I think you were saying if there wasn't a definition provided by the Court, you used the patent itself to find the definition or you used what one of ordinary skill in the art would use. A. That's correct. Q. What is one of ordinary skill in the art, as I believe, is somebody with a bachelor of science in computing science or computer engineering or equivalent and a couple years of experience.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	eomhination with another patent called Auseins, then claim sixteen, the idea is also there. Q. If I understand you correctly, you're saying that all of the claims would be invalidated by — every claim except sixteen would be invalidated by Swartz or iManage or Hubert by themselves; is that correct? A. It's almost correct, except for sixteen by Swartz or Hubert alone. iManage does disclose claim sixteen. Q. And then for claim sixteen, would claim sixteen he invalid as well? A. Well, I helieve claim sixteen, if you hook at what's in the claim, it would really be obvious to one skilled in the art to a practitioner of the day. Aside from that, it would be obvious in you combine the Ausems patent with any one of the other patents.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	define any terms, I went to the patent itself to see if they provided a definition. If they did not provide a definition, I used the definition that would be known to one skilled in the art. These slides are bit of evidence back up. Q. I think you were saying if there wasn't a definition provided by the Court, you used the patent itself to find the definition or you used what one of ordinary skill in the art would use. A. That's correct. Q. What is one of ordinary skill in the art in computer science in this case? A. One of ordinary skill in the art, as I believe, is somebody with a bachelor of science in computing science or computer engineering or equivalent and a couple years or

	Page 1411		Page 1413
1	A. Well, what I did was, I looked for	1	which is a little ligure we see clearly.
2	the ideas, what's in each one of the elements.	2	So this is obviously important.
3	Can I find a match of the provisional	3	It's on the very front of the patent, and
4	application?	4	there's on the left side we see this thing
5	So for example, at one level, are	5	called a context component and this thing called
	the words there? At another level, if the words	6	a tracking component. This is part of the 761
6 7	aren't there, is the idea there?	7	patent.
8	There's some code included in the	8	Q. Are those figures in the
9	provisional application. Hooked at the code,	9	provisional patent?
10	and I asked, does the code actually have any of	10	A. This figure is nut in the
	these words or ideas within it?	11	provisional patent. There's no figures at all
11	So that's how I did my comparison.	12	in the provisional patent.
12	Q. Can you pull up a slide of claim	13	Q. Are there more figures in the
13	one, please. Just go to the patent itself and	14	issued patent?
14	show claim one.	15	A. There's twenty or twenty-one.
15	So for example, this is claim one;	16	However you count in the issued patent, there's
16	· · · · · · · · · · · · · · · · · · ·	17	quite a lot more.
17	is that right?	18	Q. Are there other differences
18	A. Right.	19	between, just facial differences between the
19	Q. Now, are there what eletnents in	20	provisional patent application and the final
20	claim one are you talking about when you say	21	patent?
21	that there are ideas that are in the claim that	22	A. Well, the provisional application
22	are not in the provisional application?	23	is a lot shorter, for one thing. And I
23	A. We see two major elements. We see	24	actually
24	two paragraphs.	44	the same of the sa
	Page 1412		Page 1414
1	In the first, we see a	1	Q. Did you prepare a slide?
2	"computer-implemented context component for	2	A. Yes. So here's a good
į	"computer-implemented context component for capturing context information associated with	2	A. Yes. So here's a good side-by-side comparison.
2	"computer-implemented context component for capturing context information associated with user defined data." One of the things I looked	2 3 4	A. Yes. So here's a good side-by-side comparison. The provisional application, as I
2 3	"computer-implemented context component for capturing context information associated with user defined data." One of the things I looked for a was a context component in the provisional	2 3 4 5	A. Yes. So here's a good side-by-side comparison. The provisional application, as I mentioned, is quite a bit shorter. We see
2 3 4	"computer-implemented context component for capturing context information associated with user defined data." One of the things I looked for a was a context component in the provisional that captures context information. Is there	2 3 4 5 6	A. Yes. So here's a good side-by-side comparison. The provisional application, as I mentioned, is quite a bit shorter. We see there's nine and a half pages of text, plus
2 3 4 5	"computer-implemented context component for capturing context information associated with user defined data." One of the things I looked for a was a context component in the provisional	2 3 4 5 6 7	A. Yes. So here's a good side-by-side comparison. The provisional application, as I mentioned, is quite a bit shorter. We see there's nine and a half pages of text, plus eight and a half pages of code.
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2 3 4 5 6	"computer-implemented context component for capturing context information associated with user defined data." One of the things I looked for a was a context component in the provisional that captures context information. Is there something there that's associated with user defined data? The second paragraph says there's	2 3 4 5 6 7 8	A. Yes. So here's a good side-by-side comparison. The provisional application, as I mentioned, is quite a bit shorter. We see there's nine and a half pages of text, plus eight and a half pages of code. And it's in quotes because I don't actually know if it's working code or just
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"computer-implemented context component for capturing context information associated with user defined data." One of the things I looked for a was a context component in the provisional that captures comext information. Is there something there that's associated with user defined data? The second paragraph says there's a computer-implemented tracking component for tracking of change of the users from the first context to the second context. I looked at the provisional to see is there anything there that tracks a user moving from one context to another. And the third thing, dynamically updating the stored metadata based on the change. I looked to see, first, is there any notion of metadata and any notion of dynamically updating the metadata on change. Q. Is there anything in the patent that talks about these things you're mentioning?	2 3 4 5 6 7 8 9 10 1 12 13 14 15 6 7 18 9 20 1	A. Yes. So here's a good side-by-side comparison. The provisional application, as I mentioned, is quite a bit shorter. We see there's nine and a half pages of text, plus eight and a half pages of code. And it's in quotes because I don't actually know if it's working code or just something that was written that never actually ran. There's nothing in the application that says that. Whereas the final patent application has 39 pages of text. You know, so this is substantially more stuff in it. The provisional has no figures to illustrate a concept whereas the final patent application has 22 figures. I mention words like tracking, context, context data, metadata. There's absolutely no mention of the word tracking in the provisional application. And in the linal patent application, tracking is an element of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"computer-implemented context component for capturing context information associated with user defined data." One of the things I looked for a was a context component in the provisional that captures context information. Is there something there that's associated with user defined data? The second paragraph says there's a computer-implemented tracking component for tracking of change of the users from the first context to the second context. I looked at the provisional to see is there anything there that tracks a user moving from one context to another. And the third thing, dynamically updating the stored metadata based on the change. I looked to see, first, is there any notion of inetadata and any notion of dynamically updating the metadata on change. Q. Is there anything in the patent	2 3 4 5 6 7 8 9 10 11 2 13 14 15 15 17 18 9 20 1 20 1 20 1	A. Yes. So here's a good side-by-side comparison. The provisional application, as I mentioned, is quite a bit shorter. We see there's nine and a half pages of text, plus eight and a half pages of code. And it's in quotes because I don't actually know if it's working code or just something that was written that never actually ran. There's nothing in the application that says that. Whereas the final patent application has 39 pages of text. You know, so this is substantially more stuff in it. The provisional has no figures to illustrate a concept whereas the final patent application has 22 figures. I mention words like tracking, context, context data, metadata. There's absolutely no mention of the word tracking in the provisional application. And in the linal

	Page 1415		Page 1417
1	described thoroughly in the specification.	1	provisional, I'd like you to walk us through a
2	In the provisional application,	2	little hit of how those elements are described
3	there's no mention of context data or this idea	3	in the limal patent application.
4	of metadata. Well, there is of storing	4	A. Sure.
5	metadata.	5	Q. So I think you aemally had some
6	There is one mention of metadata	6	slides that showed some portions of the patent
7	that I'll talk about shortly. But there's no	7	that describe these elements; is that right?
8	mention of these terms of context data at all.	8	A. There is columns from the patent,
9	Whereas in the final patent, their	9	yes,
10	context data and metadata are in are elements	10	MS. KEEl'E: Can you bring up
11	of each and every one of the independent claims.	11	Colomns 6 and 7?
12	And it's also elained in the described in the	12	BY MS. KEEFE:
13	specification.	13	Q. Does this look familiar?
14	Q. And you mentioned that the	14	A. Yeah. Yeah, it does,
	metadata is used unce in the provisional, but	15	Q. What is this?
15 16	il's not used as — the same way in the final?	16	A. So this is from Calumn 6 of the
16 17	A. And again, metadata is in each and	17	patent. So here here we see it clearly says,
	every one of the elements of the asserted of	18	The system 100 also includes a context compone
18	the independent claims that are asserted in this	19	in association with the figures context to
19		20	inonitor and generate context data associated
20	Q. Can you describe for us some of	21	with data operations of the user in the first
21	the examples of the description of context	22	eontext.
22	components and context data that you found in	23	Essentially what this means is
23	the patent itself? And I think you had some	24	that there, context component is monitoring wha
24	Page 1416		Page 141
		1	people are doing with their data and it's
1	slides for that as well.	2	generated context data captioning that
2	A. Sure.	3	information.
3	Q. Column 6.	4	Q. And is the same true with respect
4	A. Well-	5	to the tracking component you were mentioning
5	Q. Oh, go ahead. Did you want to	6	the claims?
6	talk ahout this?	7	A. Yes, it is.
7	A. Sure. Maybe we can just hring	-	Q. Can we look at Colomn 7?
8	them both up at the same time. Okay.	8 9	A. Yeah. So here's another excerpt.
9	This just elaboraies a little bit	Į	And here at the bottom we see
10	more about what I said before. Tracking appears	11	let's see. So such user activities and data
11	zero times. Track appears zero times.	12	operations in the one or more context of the
12	Metadata appears once. And as I	13	system 100 and inovement of the user between
13	mentioned, not in the way it's used, access	ļ	context are tracked using a tracking component
14	appears twice. And whereas these terms are	14	So what this is talking about here
15	really heavily used in the final patent.	15	is that we have a tracking component in a bit of
16	They appear 64 times. So that was	16	the software that's actually (vatching what's
	back to the question of, you know, on the face	17	going on, that's watching how the user moves
17	level, you know, are there stark differences.	16	from one context to another. And it's
18		19	
	And the answer is yes.		
18	And the answer is yes. Q. Okay. So you menlioned that these	20	captioning that as information.
18 19	And the answer is yes. Q. Okay. So you menlioned that these terms appear numerous times in the final	21	Q. And is it your opinion that either
18 19 20	And the answer is yes. Q. Okay. So you menlioned that these terms appear numerous times in the final application?	21	Q. And is it your opinion that either of these concepts, which are in all of the
18 19 20 21	And the answer is yes. Q. Okay. So you menlioned that these terms appear numerous times in the final	21	Q. And is it your opinion that either

A. No. They don't appear whatsoever. And again, I have to stress, and I think this is really important, it's not just that the words don't appear, but the concept itself just isn't there in the process of moving between	1 2 3 4	this actually the first question: Does this language appear in the provisional application, the language that you were just describing?
And again, I have to stress, and I think this is really important, it's not just that the words don't appear, but the concept itself just isn't there in the pravisional.	3	language appear in the provisional application,
really important, it's not just that the words don't appear, but the concept itself just isn't there in the pravisional.		
dou't appear, but the concept itself just isn't there in the pravisional.	4	
there in the provisional.	~2	A. No, it does not.
	5	Q. And does Figure 2 appear in the
	6	provisional application that you've been
contexts, so moving from one context to another,	7	describing?
discussed in the later in the later patent	8	A. They're not only does Figure 2
application, just that idea of movement, not	9	not appear, there's nothing in the provisional
just tracking?	10	application that even textually describes what's
A. It's discussed in the patent,	11	in Figure 2.
Yes.	12	Q. Aside from the exact language, is
Q. Could you show Figure 2 again,	13	there any description using any language of the
, ,		concepts that are disclosed in the paragraph
		that you've been talking about here!
		A. No, it's not. It's not in the
· .		description.
i		h's not in the examples given,
ì		nor is it in the code that was provided.
· · · · · · · · · · · · · · · · · · ·		Q. So I think you've actually
·		mentioned three things, if I remember right.
- 1		You mentioned that the provisional application
	ļ.	did not have any concept of metadata storage of
, ,	ļ	updating; is that right?
claims of the patent.	24	
Page 1420		Page 1422
	1	A. That's correct.
	2	Q. In fact, can I get a
	3	MS. KEEFE: Your Houor, may 1
sends application. They may perform data	4	approach behind to write ou a white board? To
operations.	ì	put a white board up and write on it?
That is the notion of context		THE COURT: You may.
component. You know, watching what's going on	7	MS. KEEFE: So I apologize already
and actually looking at this.	8	for speaking from here. I'll be very loud
But then we see the step 206,	9	belipre I go back over there.
where it says the user changes context, and	10	BY MS. KEEFE:
there's a text that describes it. It says at	11	Q. So I believe that you actually
206, the user changes context from the first	12	said ihat the first thing that you couldn't
context to a second context. So there's the	13	find and by the way, I'm only doing this
inoveinent there,	14	because Dr. Greenberg says his handwriting is
And then at 208, it says the data	15	very bad.
and applications are then attionistically	16	A. It's really bad.
assitefated with the second context. So there's	17	Q. I think you said the lirst concept
a consequence there.	18	that's all throughout all of the claims as well
But we see this idea of user	19	as the specification of the patent was the idea
changing context is part of the general flow	20	of metadata storage and updating; is that right?
that's described in the '261 patent. And this	21	A. That's correct.
is preity well what happened with all of the	22	Q. And ilien if I remember right ~-
independent claims being asserted.	23	MR. ANDRE: Your Honor, objection.
Q. And does a description like	24	Counsel is leading. He can tell her what to
	A. Well, there's also some associated text with this. I don't know if you can bring this side by side. Q. Column 7. A. That may he a bit can everybudy see that'! So here this this essentially describes the basic process that's handled by pretty well all of the asserted independent claims of the patent. Page 1420 We have at the beginning here, you know, it starts user is associated with a first context. They do some stuff. You know, user sends application. They may perform data eperatious. That is the notion of context component. You know, watching what's going on and actually looking at this. But then we see the step 206, where it says the user changes context, and there's a text that describes it. It says at 206, the user changes context from the first context to a second context. So there's the inovennent there. And then at 208, it says the data and applications are then automatically assiteiated with the second context. So there's a consequence there. But we see this idea of user changing context is part of the general flow that's described in the '261 patent. And this is prenty well what happened with all of the independent claims being asserted.	A. Well, there's also some associated text with this. I dot't know if you can bring this side by side. Q. Column 7. A. That may be a bit can everybidy see that'! So here this this essentially describes the basic process that's handled by pretty well all of the asserted independent claims of the patent. Page 1420 We have at the beginning here, you know, it starts user is associated with a first context. They do some stuff. You know, user sends application. They may perform data eperattous. That is the notion of context component. You know, watching what's going on and actually looking at this. But then we see the step 206, where it says the user changes context, and there's a text that describes it. It says at 11206, the user changes context from the first context to a second context. So there's the inovennent there. And then at 208, it says the data and applications are then attornatically assiteiated with the second context. So there's a consequence there. But we see this idea of user changing context is part of the general flow that's described in the '261 patent. And this is pretty well what happened with all of the independent claims being asserted.

Page 1423 1 write. 2 THE COURT: Sure. Sustained. 3 BY MR. RHODES: 4 Q. What were the other two concepts 5 that you did not find from the claims of the 6 patent in the provisional application? 7 A. Okay. So the other — I am just 8 going to bring the patent, just use the right 9 language in front of nie. So this is '761 here. 10 So essentially the context 11 component for captioning context. For caption 12 context information. 13 Q. Okay. And another? 14 A. And the third one is tracking 15 component for tracking a change of the user from the first context to a second context. 16 Does that look right? 1 paragraph right at the middle, we see the word metadata. If we can highlight that. 2 metadata, If we can highlight that. 3 There it is. So we see the context component dynamically storing the context information in metadata associated with the user-defined data. So that is the first place it appears. 8 Essentially the context component is taking this information and it's storing it. And metadata, by the way, is just data about data. That's the Court's construction. 12 That's the everyday use of the Court's construction. 13 The second paragraph right at the middle, we see the word metadata. If we can highlight that. 14 Cuntext component dynamically storing the context information in metadata associated with the user-defined data. So that is the first place it appears. 8 Essentially the context component is taking this information and it's storing it. And metadata, by the way, is just data about data. That's the Court's construction. 15 That's the everyday use of the Court's construction, I believe. 16 The second paragraph right at the middle, we see the word metadata. So was the word context to another. 17 The second paragraph right at the middle, we see the word metadata. To we can highlight that. 18 Context cumponent dynamically storing the context to information in metadata. So that is the first context to information in metadata associated with the user-defined data. So that is the first contex
THE COURT: Sure. Sustained. THE COURT: Sure. Sustained. There it is. So we see the Cuntext component dynamically storing the context information in metadata associated will the user-defined data. So that is the first place it appears. Component for captioning cuntext. For caption context information. Context information. There it is. So we see the context component dynamically storing the context information in metadata associated will the user-defined data. So that is the first place it appears. Essentially the cuntext component is taking this information and it's storing it. And metadata, by the way, is just data about data. That's the Court's construction. That's the everyday use of the Court's construction. That's the everyday use of the Court's construction. The second paragraph says metadata baut is that the tracking component is watcher the person moving from one context to another
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17 O Does that look right? 17 the person moving from one context to another
17 II DOES INSTROME TIENLY
119 And as part of that it takes that metadata, the
TB M. Macs corrects
19 Q. Okay, 30 fu like to go though
21 mans
ZI A. Sule
22 information or addition things associated with
23 Inst.
24 Willy do you drink that there is no
Page 1424 Page 142
1 description of metadata storage or update in the 1 Q. Is this an important context in
2 provisional application? 2 the claim?
3 A Well, it's just not there. In 3 A. Well, absolutely. It appears in
4 fact they the term metadata is used only 4 every as I mentioned, it appears in every on
5 once and it's used as a description of what was 5 of the asserted independent claims.
6 available previously. 6 And it's talked about extensively
7 And the way it's used is in a 7 throughout the patent. Essentially it says in
7 And the way it's used is in a 7 throughout the patent. Essentially it says in 8 different way from the way it's described in the 8 computer science terms, it says, this is a
7 And the way it's used is in a 7 throughout the patent. Essentially it says in 8 different way from the way it's described in the 9 '761 patent. 9 method by which we will take this inforntation
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7 And the way it's used is in a 8 different way from the way it's described in the 9 '76! patent. 10 In fact, I have some — I've 11 highlighted some materials about that, 11 access and use. 17 throughout the patent. Essentially it says in 18 computer science terms, it says, this is a 9 method by which we will take this inforntation 10 and we'll structure it and store it for later 11 access and use.
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			1400
	Page 1427		Page 1429
1	consists of, what it includes. So information	1	the provisional application?
2	related to the user, the data, the application	2	A. Well, as I mentioned, the word
3	and the user environment.	3	metadata appears only once and it appears in a
4	In the last paragraph, we see	4	completely different context. In fact, as part
5	dynamically updating the stored metadata. And	5	of the background of the invention.
	again, it gives a bit of a description of what	6	And there's there's nothing
6 7	it's doing. So there it is in Claim 9.	7	else in the in the provisional that actually
	Q. And is the concept in Claim 21?	8	has any concept of metadata, nor is there
8	A. Let's look at Claim 21, and we see	9	anything in the code, nor is there anything in
9	something very similar. We see in the second	10	the examples. I didn't see it.
10	paragraph, again dynamically associating	11	Q. Can you please pull up the
11	metadata with the data. And again, the data,	12	background of the provisional.
12	metadata with the data. Allo again, the data,	13	So is this the paragraph that
13	metadata stored, in this case, on a web-based	14	describes metadata?
14	computing platform. There we see the metadata includes	15	A. Yes. So let me just see where it
15		16	is, if it's this particular part.
16	information and it says what's in it.	17	Maybe it's the next paragraph.
1 7	We see in the one, two, three,	18	I'm not sure.
18	tourth paragraph dynamically associating the	19	O. How about Pamgraph 11?
19	data and the application with the second user	20	A. Yeah, keep going.
20	workspace in the metadata.	21	There we go. In fact, if you
21	And then final paragraph, we see		include Paragraph 12 as well, that would be
22	starting near the bottom that we see a phirality	22	
23	of different users can access the data via the	23	good. So this is in the background of
24	metadata from a corresponding plurality of	24	the state of the s
	Page 1428		Page 1430
1	different user workspaces.	1	the invention in the provisional. And so what
2	So, again, we see it's littered	2	they're talking about here is what existed at
3	throughon this claim.	3	the time of the filing of this provisional
4	Q. And finally, is it also the	4	application.
5	concept of metadata also in Claim 23?	5	And here we see, the second line,
6	A. Yes, it is. So, again, something	6	it says Current processes. So this is what
7	very similar. Let me just search for this.	7	exists. Then designed to add context to liles
8	Here — h's somewhere in the	В	such as the metadata tagging approach, involve
9	middle of the first paragraph. It says for	9	having a knowledge officer view tiles after they
10	dynamically just a little bit below, for	10	have been stored and create metadata tags.
11	dynamically storing the context data as meradata	11	So here they're saying that at the
12	on a storage component.	12	time of this filing, the one approach was to use
i	And a little bit right after that,	13	metadata where some person would manually assig
13	ir says which metadata. It says that's	14	essentially this information to the file so they
14	dynamically associated with data.	15	ean later search for it.
15	And then in the second paragraph,	16	And then immediately following it,
16	tve have again near the bottom, it says	17	it says it acqually says, Well, this isn't
17	dynamically storing the change information on	18	good enough. It says, Notwithstanding the
18	the storage component as part of the metadata.	19	usefulness of the above-described methods, a
19	So agaia, it's throughout these claims. It's a	20	need still exists for a communications tool that
20	fundamental componem of many of the elements	ŧ	associates files generated by applications with
21		22	individual groups and topical context.
22	these claims.	23	So really here they're talking
	A A and trabatic the best for Valle		
23	Q. And what's the basis for your opinion that these elements are not disclosed in	24	about metadata as here's what existed before.

er these files com.leader.util or debug, ser they exist or not. I have no idea ser these are just place holders or if they stuff there. It's not in the provisional. If I look at any particular one of I can make a guess. Com.leader.util, the that means there's a utility progrant in there's another one called acebook.util, so I don't know what's in it. I make a wild guess. Q. These are part of what's been libed as the code for this program? A. Well, it's part of the code that roduced in the provisional, but it's the I stuff in these things designated by the t isn't there. They did not deliver that. I've read other patent eations, other things, before and sometimes come with a floppy or CD that says, here's uff. For one, this is all I have to with. I would be guessing. Q. Can I direct your attention to a	19 20 21 22 23	have sub equal new concrete sub form create relationship sub form. So that would probably be the title of the window you would see as the user and creator. New relationship would be instruction, and the rest of the code — go at little below it — says sub addboarddropdown. It says sub addboarddropdown, and following that, it talks about the board drop down. I think this is a drop down form or guideline, something that you've probably seen before on computer systems, but it brings up this form that lets you set the relationship of one board to another, and this is a manual thing. Q. Does anything in this disclose tracking a user's movement from one board to another board? A. Neither is it in this code and nowhere else in the code. Q. Does anything if this code disclose tracking a user's movement from one context to a separate context?
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-	23	context to a separate context?
(). Can I direct your attention to a	1	7
ular part of the code attached here, the	24	A. Ne.
Page 1440		Page 1442
enth page of the provisional. There should	1	Q. There was a deposition taken in
mething called tool code. Tool code equals		this case of Mr. Lamb. Are you aware of that?
ontact?	3	A. Yes, I am.
A, I think you want to see more than	4	Q. Did you read Mr. Lamb's
The bottom one. Keep going right to the	5	deposition?
m, to where it says return form.	6	A. I did.
Two more lines.	7	Q. Did you base your opinion on
Q. And in here in particular, I'd	8	Mr. Lamlt's testimony in his deposition?
o point your attention to the middle of	9	A. No, I did stot.
age where it says action addactionlistener.	10	Q. When you reviewed Mr. Lamb's
ou see that code?	11	testimony about what he thought was in the
A. 1 do.	ļ	provisional application, did it change your
	1	opinion as to whether or not the provisional
	ŧ	disclosed each and every elentent of the claim?
the provisional allows it to reset the	į	A. It enforced my position. He said
onship between these boards. I believe in	ì	several times that no tracking was done in the
are at this and points my francialar of	ţ	provisional application.
	18	MR. ANDRE: I'm going to object to
amming that what this essentially does is	1	the characterization of the witness's testimonty,
ramming that what this essentially does is rathe user interface part for somebody to	20	and he testified to that.
amming that what this essentially does is	21	THE COURT: Overruled. He's
ramming that what this essentially does is the tiser interface part for somebody to hally set the relationship of one board to her.	: 00	testifying to his interpretation of that.
ramming that what this essentially does is the tiser interface part for somebody to hally set the relationship of one board to	Ì	
ramming that what this essentially does is the tiser interface part for somebody to hally set the relationship of one board to her.	23	BY MS. KEEFE: Q. Dr. Greenberg, one of the terms we
/ (1	A. I do. Q. What does that code do? A. So remember before I said that the provisional allows it to reset the enship between these boards. I believe in a st this and using my knowledge of amming that what this essentially does is the user interface part for somebody to ally set the relationship of one board to er.	A. I do. Q. What does that code do? A. So rementher before I said that the provisional allows it to reset the anship between these boards. I believe in 16 at this and using my knowledge of amming that what this essentially does is the tiser interface part for somebody to ally set the relationship of one board to 20 er.