	Page 1		Page 3
1 2	UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD	1 2	INDEX TO EXAMINATIONS
3		3	WITNESS: MARKUS JAKOBSSON, Ph.D.
4		4	EXAMINATION PAGE
5	UNIFIED PATENTS INC.	5	BY MR. MUDD 5
5	Petitioner,	6	2
6	r cutorici,	7	
	v. IPR2018-00067	8	
7	U.S. Patent No. 8,577,813	9	
	UNIVERSAL SECURE REGISTRY	10	
8 9	LLC, Patent Owner.	11	
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11		13	
12	DEPOSITION OF EXPERT	14	
13	MARKUS JAKOBSSON, Ph.D.	15	
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16	OCTOBER 24, 2018	18	
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19	50 California Street, 22nd Floor	20	
20	San Francisco, California	21	
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22 23	REPORTED BY:	23	
24	Siew G. Ung	24	
25	CSR No. 13994, RPR, CSR	25	
	Page 2		Page 4
1 2	APPEARANCES:	1	INDEX TO EXHIBITS
3	For Petitioner:	2	EXPERT
4	ERISE IP, P.A.	3	MARKUS JAKOBSSON, Ph.D.
5	JASON R. MUDD, ESQ. 7015 College Boulevard, Suite 700	4	WEDNESDAY, OCTOBER 24, 2018
	Overland Park, Kansas 66211	5	Siew G. Ung CSR No. 13994, RPR
6	913.777.5600 jason.mudd@eriseip.com	6 7	MADIZED DESCRIPTION DAGE
7	·	8	MARKED DESCRIPTION PAGE
8	MICHELLE A. CALLAGHAN, ESQ. 5600 Greenwood Plaza Boulevard, Suite 200	9	Exhibit 1 Petitioner's Notice of 5
0	Greenwood Village, Colorado 80111	10	Deposition of Markus Jakobsson
9	913.777.5600	11	Deposition of Markus Jakonssoft
10	michelle.callaghan@eriseip.com	12	Exhibit 2 United States Patent, Bohannon 110
11	For Patent Owner:	13	et al.; Patent No.: US 6,901,145
12	QUINN EMANUEL URQUHART & SULLIVAN, LLP NIMA HEFAZI, ESQ.	14	B1; Date of Patent: May 31, 2005
13	865 South Figueroa Street, 10th Floor	15	2., 23.0 or r define may 51, 2005
1 /	Los Angeles, California 90017	16	Exhibit 3 United States Patent Application 166
14	213.443.3000 nimahefazi@quinnemanuel.com	17	Publication, Jakobsson et al.;
15	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	18	Pub No.: US 2004/0172535 A1; Pub
16 17		19	Date: September 2, 2004
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1 (Pages 1 to 4)



Page 7 SAN FRANCISCO, CALIFORNIA; WEDNESDAY, OCTOBER 24, 2018, 902 A.M. A WESNESDAY, OCTOBER 24, 2018, 902 A.M. WEDNESDAY, OCTOBER 24, 2018, 902 A.M. WEDNESDAY, OCTOBER 24, 2018, 902 A.M. A WESNESDAY, OCTOBER 24, 2018, 902 A.M. BY MIR. MUDD: A REPORT MARKUS Jakobsson, 11 states fair: A LEAST MARKUS JAKOBSSON, 12 states and the states of the count reporter				
WEDNESDAY, OCTOBER 24, 2018, 9.02 A.M. WEDNESDAY, OCTOBER 24, 2018, 9.02 A.M. Westerupon, Exhibit I was pre-marked for identification) MARKUS JAKOBSSON, Ph.D., having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR, MUDD Westerupon, Exhibit I was pre-marked for identification was examined and testified as follows: EXAMINATION BY MR, MUDD Westerupon, Exhibit I was pre-marked for identification was examined and testified as follows: EXAMINATION BY MR, MUDD Westerupon, Exhibit I was pre-marked for identification was examined and testified as follows: EXAMINATION BY MR, MUDD A Good morning. A Good westerupon by the proving was examined and testified as follows: BY MR, MUDD: BY MR, MUDD: A Good morning. A A That is fair. MR, HEFAZE: And, Markus, just before we get going, could you please take a liftle bit of time so that locald lodge an objection if i need to before you respond? The WITNESS: Yes, I will. BY MR, MUDD: A A That is fair. A That is fair. MR, HEFAZE: And, Markus, just before we get going, could you please take a liftle bit of time so that locald lodge an objection if i need to time so that locald lodge an objection if i need to before you respond? The WITNESS: Yes, I will. BY MR, MUDD: A Yes, I will. BY MR, MUDD: A Yes, I will will for you re so if you'll wait for you answer before last the next question. Is that fair? A Yes, I will wait for you respond to fair the fair? A That is fair. A That		Page 5		Page 7
4 (Whereupon, Exhibit I was pre-marked for identification.) 5 MARKUS JAKOBSSON, Ph.D., having been first duly swom, was examined and testified as follows: 9 EXAMINATION BY MR. MUDD 10 BY MR. MUDD: 11 Q. Good morning. 12 A. Good morning. 13 Q. Can you state your name for the record, please, and spell it? 14 Please, and spell it? 15 A. Bjorn Markus Jakobsson. Q. And could you spell that, please, for the court reporter? 18 A. B-J-D-RN, M-AR-K-U-S, J-A-K-O-B-S-S-O-N, Q. Okay, Good morning, Dr. Jakobsson. My 20 mame is Jason Mudd. I'm with the law firm of Erise II P and representing the petitioner, Unified Patents, in this proceeding. 2 In this proceeding. 2 First, I'm going to hand you what's been marked Exhibit I, which has a title: "Petitioner's Notice of Deposition of Markus Jakobsson." Page 6 You understand that you are appearing today to testify pursuant to this deposition is for the proceeding IPR2018-00057? A. Yes. Q. And this proceeding relates to U.S. Patent S877813. Do you understand that? A. Correct. C. Dr. Jakobsson, about how many times have you been deposed before? A. That is fair. A. That is fair. A. That is fair. A. The to fair. A. Th	1	SAN FRANCISCO, CALIFORNIA;	1	ask that we not speak over each other.
4 (Whereupon, Exhibit I was pre-marked 5 for identification.) 5 A MARKUS JAKOBSSON, Ph.D., having been first duly swom, was examined and 8 testified as follows: 9 EXAMINATION BY MR. MUDD 11 Q. Good morning. 12 A. Good morning. 13 Q. Can you state your name for the record, please, and spell it? 14 A. Bayor Markus Jakobsson. 16 Q. And could you spell that, please, for the court reporter? 17 Court reporter? 18 A. Bayor Rankus Jakobsson. 19 Q. Okey, Good morning, D. Jakobsson, My name is Jason Mudd. I'm with the law fift mof Erise 1 in this proceeding. 19 In this proceeding. 19 In this proceeding. 20 In this proceeding. 21 First, I'm going to hand you what's been marked Exhibit 1, which has a title: "Petitioner's Notice of Deposition of Markus Jakobsson." 22 In this proceeding. 23 Notice of Deposition of Markus Jakobsson. 24 A Yes. 25 Q. You understand that you are appearing today to testify pursuant to this deposition notice, Exhibit 1? 26 A. Yes. 27 A. Yes. 28 Q. You understand this deposition is for the proceeding IPR20I8-00057? 29 A. Yes. 30 Q. And this proceeding relates to U.S. Patent sproceeding IPR20I8-00057? 4 A Yes. 4 A Yes. 5 Q. You understand that you are appearing today to testify pursuant to this deposition is for the proceeding IPR20I8-00057? 4 A Yes. 4 A Yes. 5 Q. You understand that you are appearing today to testify pursuant to this deposition is for the proceeding IPR20I8-00057? A Yes. 5 Q. You understand that you are appearing today to testify pursuant to this deposition is for the proceeding IPR20I8-00057? A Yes. 5 Q. And this proceeding relates to U.S. Patent sproceeding IPR20I8-00057? A Yes. 6 Q. And this proceeding relates to U.S. Patent you were testifying in a court of law? 7 A. Yes. 8 G. And this proceeding relates to U.S. Patent you were testifying in a court of law? 9 You were testifying in a court of law? 14 Q. And do you understand that I need you to give verbal responses today, so yeses and nos rather than than thurb's or head shakes or nods. 15 Q. And we have a count reporter here t	2	WEDNESDAY, OCTOBER 24, 2018, 9:02 A.M.	2	A. That's fine.
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The string been first duly sworn, was examined and testified as follows: Page 6	5	for identification.)	5	answering, and I will wait for you to finish your
Page 6 P	6	MARKUS JAKOBSSON, Ph.D.,	6	-
testified as follows: Second Content of the Proceeding Page 14	7		7	·
BY MR. MUDD: Q. Good morning. A. Good morning. A. Good morning. A. Bjorn Markus Jakobsson. Q. And could you spell that, please, for the court reporter? A. Byorn Markus Jakobsson. Q. And could you spell that, please, for the please, and spell if? A. Byorn Markus Jakobsson. Q. And could you spell that, please, for the please, and spell if? A. Byorn Markus Jakobsson. Q. And could you spell that, please, for the place in place in the state of the countreporter? A. Byorn Markus Jakobsson. Q. Okay, Good morning, Dr. Jakobsson. Q. And representing the petitioner, Unified Patents, in this proceeding. Jakobsson, a bout has a title: "Petitioner's Notice of Deposition of Markus Jakobsson." Page 6 You understand that you are appearing today to testify pursuant to this deposition notice, Exhibit 1? A. Yes. Q. You understand this deposition is for the proceeding PR2018-000677 A. Yes. Q. You understand this deposition is for the proceeding PR2018-000677 A. Yes. Q. And this proceeding relates to U.S. Patent B577813. Do you understand that? A. Ten to 15. A. Ten to 15. A. Ten to 15. Q. And this proceeding relates to U.S. Patent bidy out of the proceeding view of the gorn dues. You understand that you're under oath today, and it's the same oath that you're under oath today, and it's the same oath that you're under oath today, and it's the same oath that you're under oath that you're under oath that you're under oath that you're undersand that you're under oath that	8	, ,	8	
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A. Bjorn Markus Jakobsson. Bayon Mudd. I'm with the law firm of Erise in this proceeding in the petitioner, Unified Patents, in this proceeding to day to testify pursuant to this deposition notice, Exhibit 17 A. Yes. A. Yes. A. Yes. A. Yes. A. Yes. A. No. Q. If at any time today I ask you a question Page 8 Page 8 You understand that you are appearing today to testify pursuant to this deposition notice, Exhibit 17 A. Yes. A. Yes.		•	14	
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2 (Pages 5 to 8)



	Page 9		Page 11
1	THE WITNESS: Yes, I did.	1	A. Yes, it is.
2	BY MR. MUDD:	2	Q. You still stand by the opinions contained
3	Q. And did you review any documents to	3	in Exhibit 2004?
4	prepare today that were not already an exhibit of	4	A. Yes, I do.
5	record in this case?	5	Q. Are you aware of any errors or corrections
6	A. I did not.	6	that you'd like to make in the document?
7	Q. So you didn't refer to any outside	7	A. I'm aware of a small number of typos.
8	reference materials in preparing that were not	8	MR. HEFAZI: And I'll lodge an objection
9	already of record in this case?	9	to form.
10	A. No.	10	Markus, again, if you can just pause a
11	MR. HEFAZI: And, Markus, again, if you	11	little bit before you answer.
12	could just pause a little bit before you answer so I	12	BY MR. MUDD:
13	have an opportunity to object if necessary.	13	Q. Other than the small number of typos you
14	THE WITNESS: You bet.	14	just listed, are you aware of any other errors in
15	BY MR. MUDD:	15	your declaration, Exhibit 2004, that you'd like to
16	Q. Okay. Dr. Jakobsson, I'm going to hand	16	correct?
17	you what's already been previously marked Exhibit	17	MR. HEFAZI: Same objection.
18	2004 in this case, which states: "The declaration	18	THE WITNESS: No.
19	of Markus Jakobsson in support of patent owner's	19	BY MR. MUDD:
20	response."	20	Q. About how much time did you spend
21	Is this your declaration you prepared in	21	preparing your declaration, Exhibit 2004?
22	this case?	22	A. I cannot recall. I'm sorry.
23	A. Yes, it is.	23	Q. Can you give me an approximate amount of
24	Q. And this declaration contains your	24	time that you spent preparing it?
25	opinions in this proceeding?	25	MR. HEFAZI: Objection. Calls for
	Dago 10		Dage 12
	Page 10		Page 12
1	Page 10 A. It does. I may augment it if I learn new	1	Page 12 speculation.
2	_	2	
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3 (Pages 9 to 12)



		r	
	Page 13		Page 15
1	Q. So 10 hours plus 8 would be about 18 hours	1	MR. HEFAZI: Objection. Form.
2	of preparations for today's deposition; is that	2	THE WITNESS: Yes, I have.
3	fair?	3	BY MR. MUDD:
4	A. That's a fair estimate.	4	Q. When did you review that documentation?
5	Q. So if you add the 18 with the 20 hours	5	A. I don't remember exactly. Rather
6	preparing the declaration, it would be in the	6	recently.
7	ballpark 38 hours you've billed on this matter;	7	Q. About how recently?
8	is that correct?	8	A. Within the last month.
9	MR. HEFAZI: Objection. Form. Calls for	9	Q. So you hadn't reviewed any confidential
10	speculation.	10	internal Apple documentation by the time you
11	THE WITNESS: I don't remember. And there	11	executed this declaration, Exhibit 2004, on
12	was work leading up to the declaration that I have	12	August 30th; is that right?
13	not taken into consideration when I estimated the	13	A. That is right.
14	declaration to have taken about 20 hours.	14	Q. Were you familiar with Universal Secure
15	BY MR. MUDD:	15	Registry before being retained by them?
16	Q. What was that work leading up to the	16	A. I was not.
17	declaration that you did not account for?	17	Q. Have you previously worked as an expert
18	A. For example, to read the '813 patent when	18	with the law firm Quinn Emanuel or any of the
19	I started working on the case.	19	lawyers at Quinn that you've worked with on this
20	Q. And when did you start working on the	20	proceeding?
21	case?	21	A. Yes.
22	A. I don't remember the exact date. It was	22	Q. Let's start with the lawyers you're
23	roughly a year and a half ago, but I don't remember	23	working with on this proceeding, have you worked
24	more precise than that.	24	with them as an expert on past cases?
25	Q. And you've been retained by Universal	25	A. Yes.
	Page 14		Page 16
1		1	_
1 2	Secure Registry and their lawyers at the lawyers	1 2	Q. Specifically which lawyers?
			_
2	Secure Registry and their lawyers at the lawyers at Quinn Emanuel; is that correct?	2	Q. Specifically which lawyers?A. I have worked with Jordan in the past.
2	Secure Registry and their lawyers at the lawyers at Quinn Emanuel; is that correct? A. That is correct.	2	Q. Specifically which lawyers? A. I have worked with Jordan in the past. His last name is Kaericher. K-A-E-R-I-C-H-E-R, I
2 3 4	Secure Registry and their lawyers at the lawyers at Quinn Emanuel; is that correct? A. That is correct. Q. And when you refer to one and a half years	2 3 4	Q. Specifically which lawyers? A. I have worked with Jordan in the past. His last name is Kaericher. K-A-E-R-I-C-H-E-R, I believe it is.
2 3 4 5	Secure Registry and their lawyers at — the lawyers at Quinn Emanuel; is that correct? A. That is correct. Q. And when you refer to one and a half years ago, are you referring to being retained in	2 3 4 5	 Q. Specifically which lawyers? A. I have worked with Jordan in the past. His last name is Kaericher. K-A-E-R-I-C-H-E-R, I believe it is. Q. Okay. Have you worked with any other
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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 23	Secure Registry and their lawyers at the lawyers at Quinn Emanuel; is that correct? A. That is correct. Q. And when you refer to one and a half years ago, are you referring to being retained in connection with litigation that Universal Secure Registry filed against Apple? A. Yes. Q. So MR. HEFAZI: And I'll just late objection. Object to form. BY MR. MUDD: Q. So you've been retained by Universal Secure Registry in connection with the Apple litigation as well as this IPR proceeding; is that right? MR. HEFAZI: Same THE WITNESS: That is MR. HEFAZI: Same objection. THE WITNESS: That is correct. BY MR. MUDD:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Specifically which lawyers? A. I have worked with Jordan in the past. His last name is Kaericher. K-A-E-R-I-C-H-E-R, I believe it is. Q. Okay. Have you worked with any other lawyers at Quinn previously as an expert? A. Yes. Q. Who else? A. I cannot recall their names now. Q. About how many matters total have you worked on with Quinn in the past? A. I think it is three. Q. About how many IPR proceedings have you served as an expert in? A. In the context of the work with Quinn or in general? Q. In general. A. I don't remember exactly. Between 5 and 10 IPRs, I would say. Q. About how many district court litigation matters have you served as an expert in?
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4 (Pages 13 to 16)



	Da a 47		Page 10
	Page 17		Page 19
1	speculation.	1	A. I have read portions of it multiple times.
2	BY MR. MUDD:	2	Q. And you've studied the claims of the '813
3	Q. I'm going to hand you what's previously	3	patent as well?
4	been marked Exhibit 1001 in this case, U.S. Patent	4	A. Some of them.
5	No. 8577813.	5	 Q. What's your general understanding of the
6	Are you familiar with this exhibit,	6	purported invention of the '813 patent?
7	Dr. Jakobsson?	7	MR. HEFAZI: Objection. Form.
8	A. Yes, I am.	8	THE WITNESS: It deals with problems
9	Q. You understand this to be the patent being	9	people were facing related to online and in-store
10	challenged in this IPR proceeding?	10	commerce, among other things.
11	A. Yes, I do.	11	BY MR. MUDD:
12	Q. Is it okay if we refer to it as the '813	12	Q. What do you find to be novel about the
13	patent?	13	'813 patent?
14	A. Sounds good.	14	MR. HEFAZI: Objection. Form.
15	Q. Were you familiar with the '813 patent	15	THE WITNESS: It uses a set of
16	prior to being retained by Universal Secure	16	technologies to address an important problem
17	Registry?	17	scratch that. Multiple important related problems.
18	A. I was not.	18	BY MR. MUDD:
19	Q. Do you know the named inventor	19	Q. What kinds of problems?
20	Kenneth P. Weiss?	20	A. One problem it addresses is the problem
21	A. No.	21	related to people potentially losing their credit
22	Q. Have you ever met him?	22	card or other financial card, whether dropping it,
23	A. No.	23	for example, or having it stolen, and, as a result,
24	Q. Were you familiar with any work by	24	risking that somebody else would use their financial
25	Dr. Weiss prior to being retained by Universal	25	assets.
	Page 18		Page 20
1	Page 18 Secure Registry?	1	Page 20 Q. What other problems?
1 2	-	1 2	_
	Secure Registry?		Q. What other problems?
2	Secure Registry? A. Yes.	2	Q. What other problems?A. Another problem is that people who were to
2	Secure Registry? A. Yes. Q. What work were you familiar with?	2 3	Q. What other problems? A. Another problem is that people who were to use a credit card using prior art technology would
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5 (Pages 17 to 20)



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