		Page 1
1		
2	UNITED STATES PATENT AND	) TRADEMARK OFFICE
3	BEFORE THE PATENT TRIAL	AND APPEAL BOARD
4	Case IPR2018	3-00067
5	Patent 8,57	77,813
6		
7	UNIFIED PATENTS INC.,	)
8	Petitioner,	)
9	V.	)
10	UNIVERSAL SECURE REGISTRY	)
11	L.L.C.,	)
12	Patent Owner.	)
13		
14		
15	DEPOSITION OF ERIC	C BRIAN COLE
16	Reston, Vir	rginia
17	Friday, December	14, 2018
18		
19		
20		
21		
22		
23		
24	REPORTED BY: Barbara DeVico, CF	RR, RMR
25	JOB NO. 152683	
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	Page 2		Page 3
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2		2	
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			APPEARANCES:
4		4	ON BEHALF OF PETITIONER:
5	Friday, December 14, 2018	5	
6	9:00 a.m.	6	MICHELLE CALLAGHAN, ESQUIRE
7		7	ERISE
8	Deposition of ERIC BRIAN COLE, held at the law offices	8	5600 Greenwood Plaza Boulevard
9	of Regus, 11921 Freedom Drive, Reston, Virginia,	9	Greenwood Village, CO 80111
10	pursuant to Notice before Barbara DeVico, Certified	10	-
11	Realtime Reporter and Certified Nationally Certified	11	
12	Realtime Reporter and Registered Merit Reporter and	12	
13	Notary Public of the District of Columbia and the states	13	ON BEHALF OF PATENT OWNER:
14	of Maryland and Virginia.	14	RAZMIG MESSERIAN, ESQUIRE
15	or waryiand and virginia.	15	
16			QUINN EMANUEL URQUHART & SULLIVAN
		16	865 South Figueroa Street
17		17	Los Angeles, CA 90017
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	Page 4		Page 5
1	Page 4	1	Page 5
1	E. Cole	1	E. Cole
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	E. Cole	<sup>1</sup> E. Cole
2	to you, will you let me know rather than just taking a	<sup>2</sup> Q Okay. Approximately how many hours wou
3	wild guess?	<sup>3</sup> you say you spent speaking to them about preparing for
4	A Yes, I will.	<sup>4</sup> this deposition?
5	Q Great. So if I ask you a question and	<sup>5</sup> I'm sure you didn't take, you know, detailed
6	you answer it, I'm going to assume that you understood	<sup>6</sup> records of it. But just roughly speaking, was it a day?
7	my question correctly. Is that fair?	<sup>7</sup> Was it more than a day? Less than a day?
8	A That is fair.	<sup>8</sup> A It was multiple one- to two-hour sessions
9	Q All right. If at any point you want to	<sup>9</sup> over a few days.
10	take a break, just let me know. I do ask that, if we're	<sup>10</sup> Q Okay.
11	in the middle of a question, though, that we get an	<sup>11</sup> A So I'm guessing a total of maybe eight to
12	answer to it first and then we can take a break after	<sup>12</sup> ten hours.
13	that. Sounds good?	<sup>13</sup> Q Got it. And did you review any documents
14	A Of course, I will let you know when I	<sup>14</sup> to prepare for this deposition?
15	need a break well within 10 or 15 minutes so you can	<sup>15</sup> A Yes, I did.
16	break when it's convenient.	<sup>16</sup> MS. CALLAGHAN: I would just counsel
17	Q Okay. Perfect. All right. So you can	<sup>17</sup> that not to reveal any privileged communications
18	follow these rules for me, right?	<sup>18</sup> between you and counsel.
19	A Yes, I can.	<sup>19</sup> THE WITNESS: Okay.
20	Q Okay. Did you speak with anyone to help	<sup>20</sup> MS. CALLAGHAN: Thanks.
21	you prepare for this deposition?	<sup>21</sup> BY MR. MESSERIAN:
22	A Yes, I did.	<sup>22</sup> Q Sorry. You said you reviewed some
23	Q Who did you speak to?	<sup>23</sup> document, right, to prepare for this deposition?
24	A With Michelle and with Jason from	$^{24}$ A Yes.
25	Erise IP.	<sup>25</sup> Q What what sort of documents did you
	Page 8	Page 9
1		<sup>1</sup> E. Cole
2	E. Cole review?	
2		
3		<sup>2</sup> A Yes. I don't have them memorized, but I
3	A I reviewed my two reports that I wrote	<sup>3</sup> am familiar with everything in my report.
4	A I reviewed my two reports that I wrote and the patents.	<ul> <li>am familiar with everything in my report.</li> <li>Q Of course. Okay.</li> </ul>
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	Page 10		Page 11
1	E. Cole	1	E. Cole
2	and looked at everything in the report.	2	function R?
3	Q Okay.	3	MS. CALLAGHAN: Objection. Form.
4	A I might have glanced. But in going	4	A I believe you're referring to the first
5	through it in detail, it might have sometime over the	5	sentence, "The RSN is a pseudorandom number that is
6	last month when I worked on the report.	6	generated from a locally stored pseudorandom sequence
7	Q Okay. Nevertheless, would you say you've	7	number function R."
8	spent sufficient time reviewing Labrou so that you have	8	Q Great. All right. Does Labrou also
9	a good understanding generally what it teaches?	9	describe any input to that function R?
10	MS. CALLAGHAN: Objection. Form.	10	A If you go down about four or five lines,
11	A Yes. So in putting together my reports,	11	it says, "Typically, the generation of a pseudorandom
12	I reviewed the Labrou patent.	12	number also involves another parameter, a seed S. The
13	Q All right. Could you please turn to	13	seed S is used as the initial input parameter for the
14	paragraph 527.	14	generator R to generate its first pseudorandom number
15	A (Witness complies with request.)	15	output."
16	Q It's on page 30.	16	Q Great. So it uses initial seed value S,
17	Could you please read the first several	17	input into a function R, and it generates the RSN;
18	sentences the first four or five sentences.	18	right?
19	A Which paragraph?	19	MS. CALLAGHAN: Objection. Form.
20	Q 527.	20	A That is my understanding from reading
21	A 527.	21	paragraph 527.
22	(Witness complies with request.)	22	Q Great. All right. Could you please read
23	Q Is it fair to say that Labrou there	23	the rest of 527 if you haven't read the entire thing.
24	describes how a random sequence number, RSN, is	24	A (Witness complies with request.)
25	generated using a pseudorandom sequence number	25	Q Based on what you just read, would you
	Page 12		Page 13
1	E. Cole	1	E. Cole
2	agree that the function R and the original seed value S	2	deterministically locate the same pseudorandom function
3	are stored at the agreement AP party agreement party,	3	generated function R and the corresponding pseudorandom
4	AP party?	4	number generation seed S for that device from the user
5	MS. CALLAGHAN: Objection. Form.	5	and device database containing information about all
6	A I believe you're referencing each AP	6	issued devices."
7	device as its own R and S, which are securely stored on	7	Q Okay. So based on that and based on rest
8	the device and at the AVP.	8	of paragraph 527 that you just read, regarding the
9	Q All right. So Labrou, at least in this	9	device identifier, DID, does Labrou there say anything
10	paragraph, talks about storing that original seed	10	about that device identifier, DID, being used to derive
11	value S at the agreement party device.	11	or obtain the original seed value S?
12	But does it also say anything about where that	12	MS. CALLAGHAN: Objection. Form.
13	seed S is obtained or derived?	13	A Specifically, in paragraph 527, it just
14	MS. CALLAGHAN: Objection. Form.	14	talks about locating the corresponding pseudorandom
15	A Specifically in paragraph 527, it does	15	generation seed S. It does not provide specific details
16	not look like it provides details on where S is	16	of how this is generated.
17	generated.	17	Q Okay. Fair enough. To your knowledge
18	Q Okay. Fair enough. This paragraph also	18	and understanding this is a huge reference do you
19	talks a little bit about the device identifier, DID.	19	remember or do you recall any other portion of Labrou
20	What does Labrou there say a verification	20	discussing how that original seed value S is derived or
21	server, AVP, agreement verification party, does with	21	specifically it being derived from a DID?
22	that device identifier, DID, value?	22	MS. CALLAGHAN: Objection. Form.
23	MS. CALLAGHAN: Objection. Form.	23 24	A I would have to go back and look at my reports. I don't have those memorized, so I would have
			reports I don't have those memorized so I would have
24	A "On the AVP, given the DID of an AP		-
	A "On the AVP, given the DID of an AP device by which an RSN is generated, a program can	25	to go back and look to verify that.

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	iage if	rage 15
1	E. Cole	<sup>1</sup> E. Cole
2	Q Okay. Fair enough. Let's move on.	<sup>2</sup> value.
3	Actually, before we move on, let's talk a little	<sup>3</sup> So what they're doing here is they're taking the
4	bit more about that seed that we were just talking	<sup>4</sup> hash function and applying it to the two-argument
5	about, that original seed value S.	<sup>5</sup> function F, apply it to the locally generated RSN in the
6	Does it say anything about it being fixed, or	<sup>6</sup> PIE input by the user to create a single output or a
7	does it vary in time? Does it say anything about that?	<sup>7</sup> single argument.
8	A Specifically, in paragraph 527, I do not	<sup>8</sup> Q Very well said. That two-argument
9	see any reference to the seed, I mean, being fixed. But	<sup>9</sup> function, does Labrou give any examples of what that
10	that's only specific to paragraph 527. I would need to	<sup>10</sup> function could be?
11	look through my reports to completely answer that, but I	<sup>11</sup> MS. CALLAGHAN: Objection. Form.
12	can reference it specifically in 527.	<sup>12</sup> A Specifically, in paragraphs 537 and 538,
13	Q All right. Could you please go and flip	<sup>13</sup> I do not see Labrou give any specific examples of
14	a couple pages and read paragraphs 537 and 538.	<sup>14</sup> functionality.
15	A (Witness complies with request.)	<sup>15</sup> Q Okay. At the bottom of 538, could you
16	Q Can you, in your own words, explain to me	<sup>16</sup> read that last sentence starting with "The function."
17	what's discussed in those two paragraphs.	<sup>17</sup> A "The function can be any known function,
18	A And just to confirm, paragraph 537 and	<sup>18</sup> such as a function that appends the PIE string to the
19	538?	<sup>19</sup> RSN string or XORs the PIE and the RSN."
20	Q That's right.	<sup>20</sup> Q Okay. So would you then agree that that
21	A A hash function is a type of	<sup>21</sup> two-argument function F, here Labrou talks about how you
22	cryptographic function that performs what you call a	<sup>22</sup> could use an XOR operation as that function?
23	one-way transformation. So it's saying that it's	23 A Yes.
24	difficult to invert is once you create the hash, it's	<sup>24</sup> Q Okay. You mentioned earlier that a
25	difficult, with the hash, to get back the original	<sup>25</sup> cryptographic one-way hash function makes it very
	Page 16	Page 17
		_
1 2	E. Cole	E. Cole
3	difficult to invert the output to get back the input,	
4	right? Or if you want to say it in your own words	If I just want to make sure. The you suying
5	again	that, if I take the output of the hash and give it one
6	A I would agree with that	of the several inputs, would rive uple to figure out the
7	Q Okay. A definition.	other inputs:
8		<ul> <li>Q That's correct. That's my question.</li> <li>A Okay. With a hash function, typically</li> </ul>
9	-	<ul> <li>9 no. That's the point of doing a one-way transformation.</li> </ul>
10	in this case? A The output is a single argument,	<sup>10</sup> Q All right. At this point, let's move on
11		<sup>11</sup> past the Labrou reference. I think we're going to come
12	typically a string, in order to create the encryption key K.	<sup>12</sup> back to this a little bit later, so we can keep it
13	-	<ul> <li>back to this a fittle bit fater, so we can keep it</li> <li>somewhere handy.</li> </ul>
14	Q Okay. And below that, we have an equation, $K=H(F)(PIE, RSN)$ .	<sup>14</sup> MR. MESSERIAN: All right. Next I'd
15	So K there is the encryption key K, right, in	<sup>13</sup> MR. MESSERIAN. All right. Next Id <sup>15</sup> like to mark U.S. Patent 6,016,476, which is the Maes
16	that formula?	<ul> <li>reference, as Exhibit 2 in this deposition. The Maes</li> </ul>
17	A Yes.	<ul> <li>reference, as Exhibit 2 in this deposition. The Maes</li> <li>reference is Exhibit 1003 in the IPR.</li> </ul>
18		<sup>18</sup> (Exhibit 2, U.S. Patent
19	Q So the output of that hash function is the encryption key K. Is that fair to say?	<sup>19</sup> 6,016,476, was marked for
20	A Yes.	<sup>20</sup> identification.)
21	Q If I gave you that encryption key K after	<sup>21</sup> BY MR. MESSERIAN:
22	it's been hashed and generated and then I gave it to	
23	you, could you somehow take that key, apply the PIE	<ul> <li>Q Is this the Maes here that I'm handing</li> <li>you now that you're familiar with?</li> </ul>
24	value to it somehow, and reversibly determine what the	<sup>23</sup> you now that you're familiar with? <sup>24</sup> A Yes.
24	other argument was, the RSN value?	<ul> <li>A Yes.</li> <li>Q Same question as before: When was the</li> </ul>
	other argument was, the KSIN value?	Same question as before. When was the
•		

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