SAMUEL HARDIE RUSS, PHD Vol. I ASSA ABLOY vs CPC PATENT

July 12, 2023 1_4

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| 1 | UNITED STATES PATENT A | | 1 | APPEARANCES | OF COUNSEL: | |
| 2 | BEFORE THE PATENT TRIA | AL AND APPEAL BOARD | 2 | | | |
| 3 | | | 3 | For the Pet | | |
| 4 | ASSA ABLOY AB, ASSA ABLOY Inc., | | 4 | | ORGAN, LEWIS & BOCKIUS LLP | |
| | ASSA ABLOY Residential Group, |) | _ | | Y: ANDREW DEVKAR, appearing | g remotely |
| 5 | Inc., August Home, Inc., HID |) | 5 | | ttorney at Law | |
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| | |) | _ | | os Angeles, California 90067 | / |
| 7 | Petitioners, |) | 7 | | 310) 907-1000 (main) | |
| | |) Case No. IPR2022-01093 | | | 310) 255-9070 (direct) | |
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| 9 | CPC PATENT TECHNOLOGIES PTY |) | 10 | | ANTOR COLBURN LLP | |
| | LTD., |) | 11 | | Y: ANDREW RYAN, appearing n | |
| 10 | |) Pages 1 to 166 | 111 | | Y: STEVEN COYLE, appearing ttorneys at Law | remotery |
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| | ELIZABETH BORRELLI, CSR No. 7844, | CCBB CLB | 24 | | | |
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| 1 | Page 5 MOBILE, ALABAMA; WEDNESDAY, JULY 12, 2023 | 1 | Page 7 try to be clear about, then you can refer to any |
| 2 | 8:01 A.M. | 2 | copy you would like, but I'll still go ahead and |
| 3 | | 3 | place the copies in the chat window so that the |
| 4 | SAMUEL HARDIE RUSS, PhD | 4 | court reporter has them and you're free download |
| 5 | having been duly administered | 5 | them as as you would like. |
| 6 | an oath in accordance with CCP 2094, | 6 | A. Right. And I'll I'll be sure to |
| 7 | was examined and testified as follows: | 7 | synchronize my remarks to those exhibit numbers so |
| 8 | EXAMINATION | 8 | that the record is clear. |
| 9 | BY MR. DEVKAR: | 9 | Q. Great. |
| 10 | Q. Good morning, Dr. Russ. | 10 | Are you aware of any reason that you are |
| 11 | A. Good morning. | 11 | not able to give full and truthful answers to my |
| 12 | Q. Can you please state your full name for | 12 | questions today? |
| 13 | the record. | 13 | A. No reason that I'm aware of. |
| 14 | A. Samuel Hardie, H-A-R-D-I-E, Russ, R-U-S-S. | 14 | Q. What did you do to prepare for today's |
| 15 | Q. It's good to see you again. And I know we | 15 | deposition? |
| 16 | went through this process just a short time ago so | 16 | A. I read the materials involved in this, |
| 17 | we'll be doing it again today. I'll just briefly | 17 | including the patents, the prior art references that |
| 18 | review the ground rules that you probably remember | 18 | are being cited, my declaration, the petition. I |
| 19 | them well from last time, if that's all right? | 19 | believe I looked at anyway, I reviewed the |
| 20 | A. Sure. | 20 | materials associated with the IPR. I also met with |
| 21 | Q. So, first, we should make an effort not to | 21 | counsel. |
| 22 | talk over one another. This makes it easier for the | 22 | Q. When you said you met with counsel, was |
| 23 | court reporter to record what is being said. Does | 23 | that with Mr. Ryan? |
| 24 | that sound all right? | 24 | A. It was with Mr. Ryan and Mr. Coyle. |
| 25 | A. Yes. | 25 | Q. And when did you meet with counsel? |
| | D 0 | | |
| | Page 6 | | Page 8 |
| 1 | Q. If you don't understand a question, would | 1 | A. Yesterday. |
| 1 2 | | 1 2 | A. Yesterday. Q. Did you talk to anyone other than Mr. Ryan |
| | Q. If you don't understand a question, would | | A. Yesterday. |
| 2 | Q. If you don't understand a question, would you please let me know and I will clarify? A. Yes. Q. During the deposition we'll make reference | 2 | A. Yesterday. Q. Did you talk to anyone other than Mr. Ryan and Mr. Coyle in preparing for today's deposition? A. No, not that I recall. |
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ASSA ABLOY vs CPC PATENT Page 9 Page 11 1 one. 1 now. Thank you. 2 That one also appears to be correct. 2 Q. I'd like to turn to paragraph 64 of your 3 BY MR. DEVKAR: 3 declaration, Exhibit 2039. 4 Q. Okay. So Exhibit 2039 is your declaration 4 A. Okay. 5 in each of the two subject IPRs; is that -- is that 5 And Counselor, I'm sorry to interrupt your 6 correct? 6 line of questioning. There were two typographical errors I noticed in my review yesterday and I wasn't 7 A. That's correct. sure, and I don't know quite what the rules are and 8 Q. Now, your two declarations relating to the '039 patent have substantially identical content. when would be a good time to address those. I 9 understand you have a line of questioning you're Is that your understanding? 10 11 A. That's my recollection, yes. about to embark on, so I apologize for interrupting 12 Q. Do you recall any differences in this --12 that, but -in the content of these two declarations? Q. No, no problem. Why don't we cover your 13 13 A. I don't recall any differences. 14 typographical errors first. Can you please explain 14 Q. I'm also going to add Exhibit 1001 to the where those typographical errors? 15 16 chat window. This is the '039 patent. 16 A. Certainly. And I appreciate your 17 indulgence. 17 (Whereupon Exhibit 1001 was marked for 18 identification.) 18 Let's see. The first is at the end of 19 MR. DEVKAR: And for the record, the 19 paragraph 34, which is on page 13 or PDF page 16 of 20 subject patent, which we will refer to the -- as the 20 my declaration. '039 patent, is US patent 8,620,039, which is 21 Q. Okay. 21 designated as Exhibit 1001 in each of the two IPR 22 A. The last sentence is incomplete. It says, proceedings. 23 "the fifth step in this method requires," and then a 23 24 period. I meant to say, "the fifth step in this BY MR. DEVKAR: 24 25 method requires the completion of all previous Q. Dr. Russ, is it your understanding that Page 12 1 Exhibit 1001 is the '039 patent in each of the 1 steps." 2 subject IPRs? Q. Thank you. I recall reading that sentence 2 3 A. Yes. That's -- that seems correct, yes. and figuring that something was left out there, so Q. And can we agree that when either of us 4 thanks for clarifying. refers to the '039 or '039 patent, that we are 5 A. Yeah, good. Thank you. 6 referring to the patent at Exhibit 1001? 6 And then in paragraph 41. 7 A. Yes. 7 Q. Okay. Q. I believe my questions today will focus on 8 A. The last sentence says "set forth above in the central arguments in your declaration, paragraph 38." That should say "set forth above in 9 10 Exhibit 2039, in both of these IPRs. And I'll 10 paragraph 40." 11 intend for my questions to apply to your declaration 11 Q. Okay. I understand. 12 in both of these IPRs, however, if there are any 12 Are those the only errors that you're 13 aware of as we sit here right now in your 13 differences you are aware of between your 14 declarations in the two patents, we can focus on 14 declaration? 15 them, but I -- I intend for my questions to A. Yes, those the only errors I'm aware of at 15 generally apply to both of your declarations unless the moment, yes, thank you. 16 17 otherwise stated. Is that fair with you? Q. Okay. Let's turn back then to paragraph 17 18 A. Yes, that is fair. 18 64, please, of your declaration. 19 Q. So I'd like to then refer to your 19 A. Okay. I am there now. declaration, Exhibit 2039. And for simplicity I'm 20 Q. In paragraph 64 of your declaration you 20 going to refer to your declaration in the IPR 21 identify three types of data storage solutions that 22 2022-01093. were common at the time of the '039 patent Can you please let me know when you have 23 23 invention: is that correct?



A. I have that declaration up on my computer

that declaration handy?

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Can you briefly summarize what each of



24

25

A. That is correct.

| 70 | SA ADLOT VS OF C FATEINT | | 13-10 |
|----|---|----|---|
| 1 | Page 13 these three common solutions for data storage are? | 1 | Page 15 BY MR. DEVKAR: |
| 2 | A. A searchable data rate excuse me, a | 2 | Q. Are you aware of any reason why the other |
| 3 | searchable database of records, an array of records | 3 | two methods would not have been suitable? |
| 4 | of fixed size, and having pointers to the records. | 4 | A. Well, I express opinions towards the end |
| 5 | Q. Each of these types of data storage were | 5 | of my report, roughly paragraphs 63 through 70, to |
| 6 | well-known before the time '039 patent application; | 6 | explain why the array approach would have been |
| 7 | is that correct? | 7 | unwieldy, and I think those opinions would be |
| 8 | A. I believe that's correct, yes. | 8 | relevant here as well. |
| 9 | Q. Can you please turn to paragraph 10 of | 9 | Q. When you said that you believe the |
| 10 | your declaration. | 10 | database method of storing signatures would have |
| 11 | A. Okay. I am there now. | 11 | been at least one suitable to store the human |
| 12 | Q. In paragraph 10 you refer to a product by | 12 | signatures captured by the eN-Touch 1000, are you |
| 13 | the name of eN-Touch 1000, which is eN-Touch, space, | 13 | referring to a searchable database of records as |
| 14 | 1000, for the record. | 14 | stated in your paragraph 64? |
| 15 | Do you see that? | 15 | A. Well, first off, I'm not sure how this is |
| 16 | A. I do. | 16 | relevant to the matter at hand. Secondly, that |
| 17 | Q. And within paragraph 10 of your | 17 | that might be one way to do it or another way to |
| 18 | declaration you state that, "The eN-Touch 1000 could | 18 | think about it would be the database of Hsu. |
| 19 | capture human signatures (and transmit them for | 19 | Q. The database of Hsu, meaning the H-S-U, |
| 20 | storage)." | 20 | Hsu prior art reference, the subject IPRs? |
| 21 | Do you see that? | 21 | |
| 22 | A. I do. | 22 | |
| 23 | Q. Do you know how the human signatures would | 23 | |
| 24 | | 24 | |
| 25 | A. Well, the signatures were not stored in | 25 | eN-Touch 1000? |
| | Page 14 | | Page 16 |
| | the eN-Touch 1000. They would have been stored at | 1 | A. Well, haven't considered this in detail |
| | the location to which they were transmitted. I | | I'm sorry, Andy, did you have |
| 3 | mean, the eN-Touch 1000 would store the signature | 3 | MR. RYAN: Yeah, objection to form. Go |
| 4 | 1 | 5 | ahead, Sam. |
| 5 | to some other facility, and then I imagine clear | | THE WITNESS: Okay. I haven't considered |
| 6 | memory and use it so that it would be available | | this in detail. I'm not sure why this is relevant. |
| 7 | again for another signature. So the actual storage would be done at a database that the customer that | | But just I you know, I would I would just think that a database would be a way to store the |
| 9 | | 9 | · · · · · · · · · · · · · · · · · · · |
| 10 | | 10 | |
| 11 | In the database in which the human | 11 | |
| | signatures would have been stored, what type of data | | BY MR. DEVKAR: |
| 13 | | 13 | |
| 14 | | 14 | |
| 15 | development of those, but I would imagine it was a | 15 | |
| 16 | | 16 | |
| 17 | | 17 | • |
| 18 | 3. | 18 | |
| 19 | declaration, would any of these types of common data | 19 | |
| 20 | storage have been suitable for storing human | 20 | 5 . |
| 21 | signatures captured by the eN-Touch 1000? | 21 | Q. I'd like to refer to the institution |
| 22 | MR. RYAN: Objection. Form. | 22 | decision in each of the subject IPR proceedings |
| 23 | · | 23 | |
| 1 | | ١ | |



24 database method at least would be suitable. I

25 haven't considered the other two methods.

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24 in the chat window, which is for IPR 2022-01093. My

25 questions, however, will relate to the content of



| 1 | Page 17 each of these institution decisions, which will be | 1 | Page 19 the declaration, but the witness can answer. |
|----|--|----|--|
| 2 | the same for this line of questioning. | 2 | THE WITNESS: I don't recall expressing an |
| 3 | Can you please let me know when you've | 3 | opinion as to whether I agree or disagree with this |
| 4 | downloaded or can access the institution decision | 4 | claim interpretation. |
| 5 | for IPR 2022-01093? | 5 | Now, I note that because this talks about |
| 6 | A. I have the institution decision on my | 6 | "looking up," it appears to apply to a verification |
| 7 | screen right now. | 7 | step and not an enrollment step. But I don't recall |
| 8 | Q. I'd like you to turn to page 36 of the | 8 | expressing an opinion either agreeing or disagreeing |
| 9 | institution decision. And that would be page 36 | 9 | with this interpretation. |
| 10 | using the page number on the bottom of the pages. | 10 | BY MR. DEVKAR: |
| 11 | A. I see that. | 11 | Q. And can you please clarify why you believe |
| 12 | Q. Beginning on page 36 of the institution | 12 | it refers to an enrollment step but not a |
| 13 | decision should be a section relating to the | 13 | verification step? |
| 14 | construction of the defining claim limitation. Do | 14 | MR. RYAN: Objection. Misstates |
| 15 | you see that? | 15 | testimony. |
| 16 | • | 16 | |
| 17 | | 17 | MR. DEVKAR: Oh, I'm I'm sorry. Strike that. |
| | , | 18 | BY MR. DEVKAR: |
| 18 | much of the content and opinions in your | 19 | |
| 19 | declaration; is that correct? | 20 | Q. Can you please explain why you believe the |
| 20 | A. That's correct. | _ | first construction refers to a verification step but |
| 21 | Q. I'd like to start by talking through the | 21 | not an enrollment step? |
| 22 | various claim constructions or claim interpretation | 22 | A. The claims are the or I should say the |
| 23 | of this defining claim limitation. | 23 | claim language that's in dispute is well, let's |
| 24 | Are you aware that several different | | find the claim language that's in dispute. |
| 25 | constructions for the defining limitation have been | 25 | Q. I believe it's stated right on page 36 of |
| | Page 18 | | Page 20 |
| 1 | considered by both the parties and the board in | 1 | the institution decision. |
| | these proceedings? | 2 | A. It here, yes, and I'm actually on |
| 3 | A. Yes, I am aware of that. | 3 | just under paragraph 44 of my declaration, which is |
| 4 | Q. So what I'd like do is step through each | 4 | where I have some some of the claims listed |
| 5 | of the constructions that have been either presented | 5 | verbatim. |
| 6 | or considered by the parties and board and talk | 6 | You know, the it talks about defining a |
| 7 | about what you agree or don't agree with from each | 7 | memory location and then subsequently storing data |
| 8 | of those constructions. | 8 | at that memory location. Or in Claim 3, providing |
| 9 | Is that all right? | 9 | card information no wait. I'm sorry. If the |
| 10 | A. Okay. | 10 | provided card information sorry, down to 3[D(1)], |
| 11 | Q. Let's start with the first interpretation | 11 | storing the information at a memory location defined |
| | offered by petitioner, which is set forth on page 36 | 12 | by the provided card information. You know, these |
| 13 | of the institution decision. Do you see that? | | are the claim limitations that are in dispute and |
| 14 | | 14 | they they're talking about defining a memory |
| 15 | • | 15 | location and then storing data at it. And so the |
| 16 | | 16 | claim limitations that are in dispute pertain to the |
| 17 | dependent on) the card information. Under this | 17 | step of enrolling. |
| 18 | interpretation, the system can look up or otherwise | 18 | Now, the first interpretation talks about |
| 19 | determine a specific memory location from a user's | 19 | looking up a memory location from a user's card |
| 20 | card information." | 20 | information. That that seems to imply that the |
| 21 | Do you see that proposed construction? | 21 | memory location is already has already been |
| 22 | A. I do. | 22 | established and you're looking it up. And so to the |
| 1 | O De very comes with that construction for | 22 | extent that the interpretation does that, I |
| 23 | Q. Do you agree with that construction for | 23 | extent that the interpretation does that, i |



24 the defining claim limitation?

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24 disagree. The -- this first interpretation I think



MR. RYAN: Objection. Beyond the scope of 25 kind of strays a little bit away from the enrollment

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