Exhibit 18

Page 1

IN THE UNITED STATES DISTRICT COURT

FOR THE WESTERN DISTRICT OF TEXAS - WACO DIVISION

CASE NO. 6:21-CV-01101-ADA

AIRE TECHNOLOGY LIMITED,

Plaintiff,

-vs-

APPLE INC.,

Defendant.

Deposition of JOHN BLACK, JR., Ph.D.

Monday, July 25, 2022 - 10:00 A.M. EDT

Reported by:

S. Arielle Santos

Job No.: 5235



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JULY 25, 2022 JULY 25, 2022 JUCY 25, 2022 REMOTE DEPOSITION of JOHN BLACK, JR., PhD, before S. Arielle Santos, Certified Court Reporter, Certified LiveNote Reporter and Notary Public. Page 2 REMOTE DEPOSITION of JOHN BLACK, JR., PhD, before S. Arielle Santos, Certified Court Reporter, Certified LiveNote Reporter and Notary Public.	REMOTE APPEARANCES: COUNSEL FOR PLAINTIFF: BY - DREW B. HOLLANDER, ESQ. RUSS AUGUST & KABAT 12424 Wilshire Boulevard, 12th Floor Los Angeles, CA 90025 dhollander@raklaw.com COUNSEL FOR APPLE AND WITNESS: BY - DANIEL RICHARDS, ESQ. ROPES & GRAY 13 1900 University Avenue, 6th Floor East Palo Alto, CA 94303-2284 daniel.richards@ropesgray.com and applications of the plant of the p
Page 4 INDEX JOHN BLACK, JR., Ph.D. PAGE BY MR. HOLLANDER 5 BLACK EXHIBITS MARKED - ATTACHED Black Exhibit 1 - Declaration of 12 Dr. John Black, Junior, regarding indefiniteness of US Patent No. 8,205,249 Black Exhibit 2 - US Patent No. 13 4 8,205,249 15 16 17 18 19 20 21 22 23 24 25	JOHN BLACK, JR. Testifies under penalty of perjury as follows: THE WITNESS: I do. EXAMINATION BY MR. HOLLANDER: Q Good morning, Dr. Black. Could you please state your full name for the record? A My name is John Richard Black, Junior. Q Have you ever been deposed before? A Yes, I have. Q How many times have you been deposed? A Between 15 and 20 is my guess. Q And were those depositions in patent matters or other types of cases? A It really did vary. Majority probably were related to patents. Q Do you understand that you are under oath and required to answer truthfully?

2 (Pages 2 to 5)



	Page 14		Page 15
1	_	1	criteria.
1 2	yes, sir.	2	
	Q And your declaration contains		Do you see that?
3	your opinions regarding indefiniteness of	3	A I do see that.
4	a claim term in U.S. Patent No. 8,205,249;	4	Q And do you agree with Dr.
5	is that correct?	5	Shamos' definition of a person of ordinary
6	A That is correct.	6	skill of the art in the art at the time
7	Q For purposes of today's	7	of the alleged invention?
8	deposition, is it okay if I refer to the	8	A I think that is a reasonable
9	patent as the '249 patent?	9	definition. I think you can change it
10	A That works for me, yes.	10	here and there and it probably wouldn't
11	Q Great.	11	affect my opinions.
12	And why don't you take a look	12	Q Do you consider yourself to
13	at Exhibit 2 and confirm for me this is a	13	be a person of ordinary skill in the art
14	copy of the '249 patent.	14	at the time of the claimed invention based
15	A (Reviewing.) It looks to be	15	on Dr. Shamos' definition?
16	the same copy of the patent that I	16	A Certainly. I had a PhD by
17	reviewed.	17	the time I believe we are in roughly
18		18	2002 timeframe, so I had a PhD by then and
	Q Back to your declaration, if	1	
19	we can turn to paragraph 36.	19	certainly was familiar with all these
20	There, you note that	20	areas and had the level of experience and
21	Samsung's IPR petition expert Dr. Shamos	21	training described in that paragraph.
22	opined that a POSITA a person of	22	Q Let's scroll down to
23	ordinary skill in the art at the time	23	paragraph 40 of your declaration.
24	of the alleged invention would have had at	24	You note, "There are three
25	least and then there's a list of	25	generally accepted bases for performing
	Page 16		Page 17
_			_
1	user authentication:"	1	fob that has an RFID or some kind of
2	user authentication:" Is that right?	2	fob that has an RFID or some kind of electronics inside, and when you swipe it
2	user authentication:" Is that right? A This is generally how it's	2 3	fob that has an RFID or some kind of electronics inside, and when you swipe it by a sensor, some transaction occurs
2 3 4	user authentication:" Is that right? A This is generally how it's characterized in my field, yes.	2 3 4	fob that has an RFID or some kind of electronics inside, and when you swipe it by a sensor, some transaction occurs between the fob and sensor that
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2 3 4 5 6	user authentication:" Is that right? A This is generally how it's characterized in my field, yes. Q And what are those three methods that you are referring to? A They are generally called	2 3 4 5 6	fob that has an RFID or some kind of electronics inside, and when you swipe it by a sensor, some transaction occurs between the fob and sensor that authenticates you, and that will open a door or give you some access to something. There's also hybrid devices,
2 3 4 5 6 7	user authentication:" Is that right? A This is generally how it's characterized in my field, yes. Q And what are those three methods that you are referring to?	2 3 4 5 6 7	fob that has an RFID or some kind of electronics inside, and when you swipe it by a sensor, some transaction occurs between the fob and sensor that authenticates you, and that will open a door or give you some access to something.
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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	user authentication:" Is that right? A This is generally how it's characterized in my field, yes. Q And what are those three methods that you are referring to? A They are generally called something you know, something you have, and something you are. Or more formally, as listed here, something that is knowledge based, something that is token-based, and something that is biometric based, which corresponds to those three things I said at the outset. Q One method is token-based, what the user has; is that right? A Yes, it is. Q Can you explain what you mean by that? A So this is a broad category. But, for example, you might have a physical metal key that opens your front door, in a sense, that is a token. It's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	fob that has an RFID or some kind of electronics inside, and when you swipe it by a sensor, some transaction occurs between the fob and sensor that authenticates you, and that will open a door or give you some access to something. There's also hybrid devices, like, if you have seen these rolling passwords you press a button and it gives you a one-time password that you manually enter into a keypad or website or something like this. But generally, it's a physical object, it is not part of your body, it's not part of your anatomical makeup that you can carry around and then present to a verifying authority to authenticate your identity. Q Are you aware of any instances in the '249 patent that discuss the use of token-based authentication methods in connection with the claimed portable data carrier?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	user authentication:" Is that right? A This is generally how it's characterized in my field, yes. Q And what are those three methods that you are referring to? A They are generally called something you know, something you have, and something you are. Or more formally, as listed here, something that is knowledge based, something that is token-based, and something that is biometric based, which corresponds to those three things I said at the outset. Q One method is token-based, what the user has; is that right? A Yes, it is. Q Can you explain what you mean by that? A So this is a broad category. But, for example, you might have a physical metal key that opens your front door, in a sense, that is a token. It's not a computer domain. But more relevant	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	fob that has an RFID or some kind of electronics inside, and when you swipe it by a sensor, some transaction occurs between the fob and sensor that authenticates you, and that will open a door or give you some access to something. There's also hybrid devices, like, if you have seen these rolling passwords you press a button and it gives you a one-time password that you manually enter into a keypad or website or something like this. But generally, it's a physical object, it is not part of your body, it's not part of your anatomical makeup that you can carry around and then present to a verifying authority to authenticate your identity. Q Are you aware of any instances in the '249 patent that discuss the use of token-based authentication methods in connection with the claimed portable data carrier? A I am not sure if I would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	user authentication:" Is that right? A This is generally how it's characterized in my field, yes. Q And what are those three methods that you are referring to? A They are generally called something you know, something you have, and something you are. Or more formally, as listed here, something that is knowledge based, something that is token-based, and something that is biometric based, which corresponds to those three things I said at the outset. Q One method is token-based, what the user has; is that right? A Yes, it is. Q Can you explain what you mean by that? A So this is a broad category. But, for example, you might have a physical metal key that opens your front door, in a sense, that is a token. It's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	fob that has an RFID or some kind of electronics inside, and when you swipe it by a sensor, some transaction occurs between the fob and sensor that authenticates you, and that will open a door or give you some access to something. There's also hybrid devices, like, if you have seen these rolling passwords you press a button and it gives you a one-time password that you manually enter into a keypad or website or something like this. But generally, it's a physical object, it is not part of your body, it's not part of your anatomical makeup that you can carry around and then present to a verifying authority to authenticate your identity. Q Are you aware of any instances in the '249 patent that discuss the use of token-based authentication methods in connection with the claimed portable data carrier?

5 (Pages 14 to 17)



	Page 18		Page 19
1.		1	
1	wrong. Is this portable data carrier, I	1	you want to turn to paragraph 45.
2	think that is the term in the patent?	2	Can you explain it in the
3	Q That's right.	3	example here, how someone authenticates
4	A I have to look it up, but,	4	themselves with a chip enabled smart card?
5	yeah. You might consider that. I think	5	A Sure. So I have a smart card
6	at least in the drawing it appears to be a	6	in my wallet that has a chip inside of it
7	card with a smart chip on it, and I think	7	that I go up to a certain door and I swipe
8	patent describes it that way. So one	8	the card in front of the sensor on the
9	might say that itself comprises a	9	door and I won't go into the technology
10	token-based user authentication method.	10	unless you want to talk about it. But
11	It's unclear if the patentees	11	there's a cryptographic exchange between
12	intended to use that way. It is	12	the sensor and smart card that has to be
13	interacting with the terminal. So in some	13	satisfied to the sensor's threshold you
14	sense you could say that is a token-based	14	have to satisfy a cryptographic
15	user authentication method because it has	15	authentication protocol, whereupon, if you
16	to be there or protocol described in the	16	do, the door opens. So that would be an
17	patent to take place.	17	example of a smart card with a chip
18	But they never call it	18	inside.
19	token-based, but with those words. So	19	Q Then in paragraph 45, you
20	it's a matter of whether you consider it	20	note other examples include a fob or
21	or not to be such.	21	onetime password generator that produces a
22	Q I notice you mentioned a chip	22	rolling PIN each time a button is pressed
23	enabled smart card.	23	on the device.
24	I see you also mention that	24	Did I read that correctly?
25	in paragraph 45 of your declaration, if	25	A I believe so, yes.
2.5	in paragraph 45 or your declaration, if	25	A Tocheve so, yes.
	Page 20		Page 21
1	Q So the device that produces	1	Page 21 to what is stored in the portable
2		2	
	Q So the device that produces		to what is stored in the portable
2 3 4	Q So the device that produces the rolling PIN is a separate device from	2	to what is stored in the portable data carrier, and that would be
2 3	Q So the device that produces the rolling PIN is a separate device from the portable data carrier; is that right?	2 3	to what is stored in the portable data carrier, and that would be another method of authenticating
2 3 4	Q So the device that produces the rolling PIN is a separate device from the portable data carrier; is that right? MR. RICHARDS: Objection. Form.	2 3 4	to what is stored in the portable data carrier, and that would be another method of authenticating yourself separate from fingerprint. BY MR. HOLLANDER:
2 3 4 5	Q So the device that produces the rolling PIN is a separate device from the portable data carrier; is that right? MR. RICHARDS: Objection.	2 3 4 5	to what is stored in the portable data carrier, and that would be another method of authenticating yourself separate from fingerprint. BY MR. HOLLANDER: Q So just unpacking that a bit.
2 3 4 5 6	Q So the device that produces the rolling PIN is a separate device from the portable data carrier; is that right? MR. RICHARDS: Objection. Form. THE WITNESS: My intent is	2 3 4 5 6	to what is stored in the portable data carrier, and that would be another method of authenticating yourself separate from fingerprint. BY MR. HOLLANDER: Q So just unpacking that a bit. So the fingerprint in the
2 3 4 5 6 7	Q So the device that produces the rolling PIN is a separate device from the portable data carrier; is that right? MR. RICHARDS: Objection. Form. THE WITNESS: My intent is that it would be possible to have both portable data carrier and a	2 3 4 5 6 7	to what is stored in the portable data carrier, and that would be another method of authenticating yourself separate from fingerprint. BY MR. HOLLANDER: Q So just unpacking that a bit. So the fingerprint in the example you just described would be
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