UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

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APPLE, INC. Petitioner

v

LBT IP I LLC Patent Owner

Inter Partes Review Case No. IPR2020-01189 US Patent No. 8,497,774

VIDEOTAPED DEPOSITION

DEPONENT:	SCOTT ANDREWS
DATE:	Wednesday, May 12, 2021
TIME:	8:00 a.m. Pacific Time
LOCATION:	VIA ZOOM VIDEOCONFERENCE
REPORTER:	Karen Fortna, CRR/RMR/RPR/CSR-5067
VIDEO:	Bailey Wellman
JOB NO:	14947
JOB NO:	1494/

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14	Inter Pa	rtes Review Case No. IPR2020-01190
15		US Patent No. 8,542,113
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17		VIDEOTAPED DEPOSITION
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19	DEPONENT:	SCOTT ANDREWS
20	DATE:	Wednesday, May 12, 2021
21	TIME:	8:00 a.m. Pacific Time
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14	Inter Partes Review Case No. IPR2020-01191
15	US Patent No. 8,102,256
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19	DEPONENT: SCOTT ANDREWS
20	DATE: Wednesday, May 12, 2021
21	TIME: 8:00 a.m. Pacific Time
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20	DATE: Wednesday, May 12, 2021	
21	1 TIME: 8:00 a.m. Pacific Time	
22	2 LOCATION: VIA ZOOM VIDEOCONFERENCE	
23	REPORTER: Karen Fortna, CRR/RMR/RPR/CSR-50	57
24	4 VIDEO: Bailey Wellman	
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15		US Patent No. 8,421,619
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17		VIDEOTAPED DEPOSITION
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19	DEPONENT:	SCOTT ANDREWS
20	DATE:	Wednesday, May 12, 2021
21	TIME:	8:00 a.m. Pacific Time
22	LOCATION:	VIA ZOOM VIDEOCONFERENCE
23	REPORTER:	Karen Fortna, CRR/RMR/RPR/CSR-5067
24	VIDEO:	Bailey Wellman
25	JOB NO:	14947

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1 **APPEARANCES:** 2 ERISE IP, PA By: Ms. Jennifer C. Bailey Mr. Robin Snader 3 7015 College Boulevard, Suite 700 4 Overland Park, Kansas 66211 913.777.5600 5 jennifer.bailey@eriseip.com robin.snader@eriseip.com 6 Appearing on behalf of the Petitioner 7 BUTZEL LONG, PC By: Mr. Brian S. Seal 8 Mr. Shaun D. Gregory 1909 K Street, NW, Suite 500 20006 9 Washington, DC 202.454.2856 10 seal@butzel.com gregorysd@butzel.com 11 Appearing on behalf of the Patent Owner 12 BUTZEL LONG, PC Mr. Mitchell Zajac By: 13 150 West Jefferson Avenue, Suite 100 Detroit, Michigan 48226 313.225.7059 14 zajac@butzel.com 15 Appearing on behalf of the Patent Owner 16 17 18 19 20 21 22 23 24 25

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1	Wednesday, May 12, 2021
2	Via Zoom videoconference
3	8:00 a.m. Pacific Time
4	* * *
5	(All participants appearing via Zoom videoconference.)
6	VIDEOGRAPHER: Good morning. We are now
7	on the record at 8:00 a.m. on Wednesday, May 12,
8	2021. This begins the videotaped deposition of
9	Scott Andrews, taken in the matter of Apple Inc.
10	versus LBT IP I LLC.
11	My name is Bailey Wellman. I'm your
12	remote videographer today. Our court reporter is
13	Karen Fortna and we are both representing Fortz
14	Legal Support.
15	As a courtesy, will everyone who is
16	not speaking please mute your audio and remember
17	to unmute your audio when you are ready to
18	speak.
19	Counsel, will you please state your name
20	and whom you represent, after which our court
21	reporter will swear in the witness.
22	MR. SEAL: This is Brian Seal from Butzel
23	Long on behalf of Patent Owner LBT IP I.
24	MR. SNADER: This is Robin Sander of
25	Erise IP on behalf of Apple.

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* * * *
SCOTT ANDREWS,
having first been duly sworn, was examined and
testified as follows:
MR. SEAL: Mr. Andrews, thank you for
joining us this morning. I understand it's quite
early where you are, so we appreciate your
accommodation.
THE WITNESS: I get up early.
EXAMINATION
BY MR. SEAL:
Q. I understand you have been deposed before; is that
correct?
A. That's correct.
Q. Okay. So I won't go over all the procedures, but
just if you need to take a break for any reason,
let me know and we'll do our best to accommodate
you.
So since you submitted your declarations
in connection with the five IPRs related to the LBT
patents, have any of your opinions changed?
A. No. I identified a handful of typographical errors
in the declarations, but that's it. If we come
across them, I hopefully will be able to point them
out.

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1	Q.	Okay. Anything that would have changed the
2		substance of your testimony or these are just minor
3		typographical errors?
4	Α.	Minor typographical errors.
5		MR. SEAL: Okay. Thank you.
6		Well, we'll dive right in with the first
7		IPR petition, which is related to the '774 patent.
8		So if you have a copy of the '774 patent, we'll go
9		ahead and mark that as Exhibit 1.
10		(Marked for identification:
11		Deposition Exhibit No. 1.)
12	BY MR	. SEAL:
13	Q.	Do you have that available to you?
14	Α.	I have it in front of me, yes.
15	Q.	Okay. I would like to direct you specifically to
16		claim 8 of the '774 patent, which you can find in
17		column 16. Within claim 8, there is a limitation
18		or a phrase near lines 56 and 57 that reads, "a
19		multitude of threshold values." Do you see that?
20	Α.	I see that.
21	Q.	Did you have an opinion about the meaning of a
22		multitude as one of ordinary skill in the art would
23		have understood it at the time of invention of the
24		'774 patent?
25	А.	Well, I think there are a lot of meanings that

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1		people might apply to it, but it really just means
2		more than one.
3	Q.	And is that the understanding that you applied in
4		preparing your declaration regarding the '774
5		patent?
6	А.	Yes, that's one.
7	Q.	And what is the basis for that opinion?
8	Α.	Because multitude is based on multiple, and that
9		means it is clearly more than one, could be any
10		number, but something greater than a single level.
11	Q.	Did you consult any dictionaries to come up with
12		that understanding?
13	Α.	I don't recall. It just seemed self-evident that a
14		multitude can be any number greater than one.
15	Q.	Are you aware of any context in which the term
16		multitude might mean a number necessarily greater
17		than two, as one of ordinary skill in the art would
18		have understood it at the time of invention of the
19		'774 patent?
20	Α.	Well, I don't know that I'm aware of any
21		applications where it would be required to be more
22		than two. I was certainly aware of uses of the
23		word when it is applied to, you know, wildlife in
24		the Serengeti or something where you have millions
25		of things, but it's clearly more than if I had

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1 to specify it, it would be more than one, and, you 2 know, you could say that ten is a multitude, you 3 could say that two is a multitude, you could say that 100 million is a multitude, but clearly one is 4 5 not. MR. SEAL: Okay. Thank you. 6 7 That's actually the only line of questioning I have for the '774 patent, so we can 8 9 move on to the next petition, which is IPR 1190 10 regarding the '113 patent. 11 THE WITNESS: '113, you said? 12 MR. SEAL: Yes, sir. 13 THE REPORTER: Will that be Exhibit 2? MR. SEAL: Not yet. Actually, Exhibit 2 14 15 is going to be the Sakamoto reference. 16 THE WITNESS: Last book I looked at. 17 MR. SEAL: It's always the last. 18 So we'll mark the Sakamoto, which I 19 believe was Exhibit 1004 in the IPR petition, as 20 Exhibit 2 to your deposition. 21 (Marked for identification: 22 Deposition Exhibit No. 2.) 23 BY MR. SEAL: 24 Do you have Sakamoto in front you, Mr. Andrews? Q. 25 Yes, I do. Α.

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1	Q.	Okay. Just a couple of general questions about
2		Sakamoto, but please feel free to take as much time
3		as you would like to review the reference before
4		answering.
5		In the Sakamoto reference, it teaches that
6		GPS receiver 10 is responsible for receiving
7		signals from GPS satellites; is that correct?
8	А.	Well, I can search through to find a place where it
9		probably says that, but Sakamoto has a GPS receiver
10		and GPS receivers are generally known to receive
11		signals from GPS satellites.
12	Q.	Okay. Are you aware of any other component
13		disclosed by Sakamoto that would receive GPS
14		signals from a satellite?
15	А.	Well, when you say GPS signals, are you meaning the
16		specific radio signal that's transmitted by the
17		satellite?
18	Q.	Yes.
19	А.	The GPS receiver would be the element that
20		actually or antenna of the GPS receiver and then
21		the components within the GPS receiver would be the
22		elements that would receive those particular
23		signals.
24	Q.	Okay. So just to be clear, you're not aware of any
25		other component outside of the GPS receiver 10 in

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	debenets that would upgate GDD simple from a
	Sakamoto that would receive GPS signals from a
	satellite?
Α.	Let me think about that for a moment. I don't
	recall if Sakamoto also talks about receiving
	yeah, he has communication control unit 11.
Q.	Okay.
Α.	And communication control unit 11, it doesn't
	receive directly the radio signals directly from
	the satellite, but it receives GPS information from
	the network, so it's able to if you look at
	Figure 1, communication control unit 11 is
	described as receiving application data or GPS
	satellite information and so that's information
	that is sent from satellites in the GPS signal, but
	it's also provided quite often through a cellular
	communications link.
Q.	Okay. And that information, as I understand
	Sakamoto, that's information related to the
	positioning of the satellite?
А.	Yes, it's known as ephemeris data, and that is
	basically information that can be used to determine
	the locations of the satellites in their orbits at
	any given time.
Q.	Okay.
Α.	And that's necessary to be able to determine the
	А. Q. Д. А. Q. А.

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1		distance to the satellites, which is how you
2		actually determine your position on the earth.
3		MR. SEAL: Okay. Now I would like you to
4		look at the '113 patent itself, which we're going
5		to mark as Exhibit 3.
6		THE WITNESS: Okay.
7		(Marked for identification:
8		Deposition Exhibit No. 3.)
9	BY MR	. SEAL:
10	Q.	And specifically, I would like to direct you to
11		claim 1, which is in column 10.
12	Α.	Okay.
13	Q.	And do you see the limitation in claim 1 that
14		reads, "Reducing applied power level to the primary
15		location tracking circuitry in response to
16		measurement of a received communication signal less
17		than a first signal level"?
18	Α.	I see that.
19	Q.	Okay. And in your declaration, you opine that
20		Sakamoto discloses that limitation when it moves
21		into what we'll call the stop-position mode; is
22		that correct?
23	Α.	Yes, that's correct.
24	Q.	Okay. And it is also your opinion that when
25		Sakamoto moves into stop-position mode, it turns

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1		off the power to the GPS receiver: is that correct?
2	Α.	Sakamoto says that in order to reduce power, he
- -		turns off he says the negitiening is stoned
3		turns off ne says the positioning is stopped,
4		position searching is stopped, I think. He
5		specifically says that, in part, that is to
6		maintain a lower power consumption.
7		MR. SEAL: And if you could now look at
8		your declaration for the '113 patent, which we're
9		going to mark as Exhibit 4.
10		THE WITNESS: Okay.
11		(Marked for identification:
12		Deposition Exhibit No. 4.)
13	BY MR	. SEAL:
14	Q.	And I want to direct you to paragraph 175.
15	Α.	Okay.
16	Q.	In that first line in paragraph 175 of the
17		declaration you state that, "I also note that a
18		POSITA" which stands for person of ordinary
19		skill in the art, I believe "would have
20		understood Sakamoto as teaching turning off the
21		power of the GPS receiver 10 in the stop-position
22		searching mode." Do you see that?
23	А.	I see that.
24	Q.	And that's consistent with your statement a few
25		moments ago that when moving into stop-position

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1		mode Calamete teached gutting off never to CDC
Ŧ		mode, sakamoto teaches cutting off power to GPS
2		receiver 10, correct?
3	Α.	Yes, that's correct. He describes that in normal
4		mode, it is essentially the power depending on
5		the way it's been configured, the power either
6		switches on and off regularly, so at some
7		predefined interval the system comes on and
8		measures the position, or when a user requests that
9		a position be provided.
10		He also describes this in connection with
11		claim 9 at paragraph 50 of Sakamoto. He says,
12		"Power consumption can be reduced by stopping the
13		position search when positioning is not possible."
14	Q.	So when Sakamoto cuts off power to the GPS
15		receiver 10 in stop-position mode, GPS receiver 10
16		can no longer receive a GPS signal; is that
17		correct?
18	А.	That's correct.
19	Q.	Okay. Moving back to the '113 patent for a moment.
20		If you would look at claim 3, which is also in
21		column 10.
22	А.	Okay.
23	Q.	You see there claim 3 has a limitation that
24		requires, "Reactivating the primary location
25		tracking circuitry in response to measurement of

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1		the received communication signal above the first
2		signal level." Do you see that?
3	А.	I see that.
4	Q.	And to be clear, the primary location tracking
5		circuitry in that claim, as you understand it to be
6		taught by Sakamoto, is GPS receiver 10?
7	Α.	That's correct.
8	Q.	Okay. And your opinion with regard to claim 3 is
9		that Sakamoto teaches this reactivating limitation
10		by moving out of the stop-position mode into either
11		what Sakamoto calls normal mode or high mode; is
12		that correct?
13	Α.	Let me check something in my declaration here.
14		Yeah, so I respond to this in paragraph 212 of my
15		declaration.
16		You would need to Sakamoto clearly
17		turns the thing back on when the signal is
18		recovered or is back up on the threshold, which
19		means that at some point he has to turn the
20		receiver on briefly enough to at least measure the
21		signal level. He may not be positioning with it,
22		but he's at least turning on the radio part to
23		actually check the level of the GPS signals,
24		otherwise, he would turn the GPS off and it would
25		never come back on, right?

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1	Q.	In that case, however, when Sakamoto turns on GPS
2		receiver 10, it does not do so in response to a
3		signal level, correct?
4	А.	That's correct. He turns on and he may not
5		actually turn on the entire GPS receiver.
6		Remember, the GPS receiver has a radio that
7		receives radio signals and it has a processor which
8		consumes a great deal of power that actually
9		processes those radio signals to determine a
10		position.
11		All he has to do is detect the radio
12		signal to determine whether the signal is now above
13		that stop-position threshold, and if it is, he
14		would then reactivate the entire receiver so that
15		he would receive the GPS signals or be able to
16		determine position from the GPS signals.
17	Q.	So in that example, what is the trigger that
18		Sakamoto uses to reactivate the GPS receiver when
19		in stop-position mode?
20	Α.	The trigger would be that the level of the received
21		GPS radio signals would be above the
22		stop-positioning threshold.
23	Q.	Sakamoto can't know that until it has already
24		turned on the GPS receiver 10, correct?
25	А.	Well, it has to at least turn on a portion of the

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receiver to detect the radio signals. You don't have to turn on the entire receiver, you have to detect the level of the signals after the logo is amplified, essentially, to see what level they are, and that could be that that portion of the receiver stays on all the time.

He doesn't talk about it particularly, but he certainly, as I said earlier, doesn't contemplate that once the -- once the GPS signal level went below that threshold, the system would turn off and never turn on again. That would be -that wouldn't be very practical. So clearly he has some ability to detect the level of that signal and turn the GPS receiver back on when it's above that threshold.

16 And as I said, I would -- given that 17 Sakamoto is seeking to reduce power consumption, it 18 would not make any sense that he would turn on the 19 entire GPS receiver to do that because you don't 20 need the whole GPS receiver to do that. 21 What portion of the GPS receiver do you need to Q. 22 receive a signal from a GPS satellite in order to 23 determine whether it meets a pre-determined 24 threshold? 25 You would need at least the antenna and the low Α.

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1		noise amplifier at the front end of the receiver.
2		It has a great many components to it to pull out
3		these very complex signals from all of the
4		different satellites and it would be to at
5		least feel to detect the level of the radio
6		signals.
7	Q.	And the antenna and the power amplifier that you
8		just described are components of GPS receiver 10?
9	Α.	It's not a power amplifier, it's a low noise
10		amplifier.
11	Q.	Pardon me. Let me re-ask the question.
12		So the antenna and the low noise amplifier
13		that you just described are components of
14		Sakamoto's GPS receiver 10, correct?
15	Α.	They are a portion of the components, but certainly
16		not all of them.
17	Q.	Okay. So when you stated in your declaration that
18		Sakamoto cuts off power to the GPS receiver 10 when
19		in stop-position mode, you didn't mean that it cuts
20		off power to all components of GPS receiver 10 in
21		stop-position mode?
22		MR. SNADER: Objection. Form.
23		THE WITNESS: Could you ask that again or
24		could you read it back?
25		MR. SEAL: Sure.

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1	BY MR	. SEAL:
2	Q.	We discussed earlier that your opinion, as stated
3		in your declaration, was that when Sakamoto is in
4		stop-position mode, it cuts off power to GPS
5		receiver 10. Do you recall that testimony?
6	А.	Yes.
7	Q.	And is it your opinion now that when Sakamoto cuts
8		off power to GPS receiver 10, it does not cut off
9		power to all components of GPS receiver 10?
10	А.	Well, Sakamoto doesn't describe how he determines
11		that the signal level is above that threshold.
12		It's possible that he periodically turns on the GPS
13		receiver just briefly to check so that it's most
14		of the time it's off and every now and then he
15		turns it on and looks, and if it's not above the
16		level, he turns it back off, or maybe even just
17		turns those components that he needs to use to
18		examine the signal, and it's possible that he might
19		leave some of the components on, but probably not
20		given that he's after minimum power consumption.
21		So presumably he would turn the GPS
22		receiver off and then maybe once a minute, once
23		every five minutes, would turn it back on briefly,
24		check the power level, and if it was above that
25		level, he would then transition to the normal mode

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or to the high mode, and if he was below, he would 1 turn it back off and keep it off until he decided 2 3 to check the next time. This is a -- this is based on the 4 5 understanding that I think is reasonable for a person of skill in the art, that without a method 6 7 like that, Sakamoto would turn the GPS receiver off 8 when the signal level went below that threshold and 9 it would never come back on again, which would not 10 be a practical solution to the problem. 11 You just mentioned that one of the triggers for Q. 12 reactivation could be performing a periodic check 13 of the signal level to see if it is now above a threshold, correct? 14 15 Yes, I think that's a reasonable -- especially Α. 16 given Sakamoto's emphasis on minimal power 17 consumption, you would change the GPS receiver 18 to -- you would turn the GPS receiver on and then 19 every now and then, at whatever period you thought 20 was appropriate, turn on at least the parts of it 21 necessary to check the signal level, and then you 22 turn them off if it wasn't above that level, and if 23 it was above that level you would activate the 24 whole receiver and go back to one of the other 25 positional points.

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1	Q.	In that example where Sakamoto periodically
2		activates the GPS receiver to check the signal,
3		that activation is not in response to a signal
4		level, correct, in other words, it's in response to
5		a time period?
6	Α.	No, you wouldn't well, the turning on some
7		portion of the receiver to check the signal level
8		would presumably be in response to a time period,
9		but that doesn't necessarily mean the entire
10		receiver is on.
11		And more importantly, the claim requires
12		reactivation when the signal is above that
13		threshold, and it doesn't say that once you
14		deactivate the GPS receiver you can never
15		reactivate it unless it's above that threshold,
16		otherwise, the '113 patent would suffer from the
17		same problem that I'm talking about Sakamoto not
18		suffering from. You would turn the receiver off
19		and never ever turn it back on again.
20	Q.	Well, as we discussed, one of the triggers for
21		turning it back on could be a periodic check,
22		another trigger could be a user of Sakamoto
23		manually activating the GPS receiver, correct?
24	Α.	Could be. But in '113, in claim 3, if you have
25		deactivated in claim 1 this GPS receiver and you

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1		the only time that you're allowed to reactivate the
2		GPS receiver is when the signal is above this
3		threshold, then in claim 3, you would never turn on
4		the receiver because you would only be allowed
5		if you interpret claim 3 as or all these claims
6		as only allowing the GPS receiver to turn on when
7		the signal level is above the threshold, then
8		claim 3 could never be performed because you turned
9		off the receiver and you can't turn it back on.
10		It's the same problem that Sakamoto would have.
11		So clearly, there's no prescription in
12		these claims that once the receiver is turned on it
13		can only be returned or reactivated once it's
14		been deactivated, it can only be reactivated by
15		that signal coming above the threshold. You can
16		reactivate it as many times as you want, but what
17		it says is that when the signal is above that
18		threshold, then you absolutely reactivate it and
19		you can keep it on while it's above that threshold.
20	Q.	The '113 patent discusses placing the GPS receiver
21		into a sleep mode or standby mode; are you aware of
22		that?
23	А.	Yes.
24	Q.	Okay. And are you aware that one of ordinary skill
25		in the art would understand how to activate the GPS

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1	receiver and the 1113 patent out of gloop mode or
1	receiver and the firs patent out of steep mode of
2	standby mode in response to a signal level?
3	MR. SNADER: Objection. Form.
4	THE WITNESS: Probably the same with
5	Sakamoto.
6	BY MR. SEAL:
7	Q. Leaving aside the claim in the '113 patent for the
8	moment, I'm still trying to understand what in
9	Sakamoto teaches reactivating the GPS receiver in
10	response to a signal level, and I think what we've
11	discussed so far is that it can reactivate the GPS
12	receiver or some component of the GPS receiver
13	periodically to check to see whether the signal
14	level is above a threshold. And we discussed that
15	a user of Sakamoto could manually turn on the GPS
16	receiver to check whether the signal level is above
17	the threshold, and I believe those are the only two
18	mechanisms in Sakamoto that we've discussed so far
19	for reactivating the GPS receiver out of
20	stop-position mode.
21	A. I don't know that I said that a user would
22	reactivate it in order to check the signal level.
23	The user can simply cause it to turn on, they can
24	modify the threshold and have the receiver turn on,
25	but as I said, clearly Sakamoto I say this at

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1 paragraph 213 of my declaration. "A POSITA would have understood that a location tracking device 2 3 that transitioned to stop-positioning mode (i.e. deactivated GPS) when the signal level was low, but 4 5 did not transition to a positioning mode (i.e activate GPS) when the signal was high enough to 6 7 obtain positioning would never generate position values at all after the first GPS deactivation." 8 9 So clearly Sakamoto either goes into a 10 sleep mode like you described in the '113 patent or 11 he periodically turns on a portion of the GPS 12 receiver to check what the signal level is, but 13 there has to be some way in which he is able to transition back to normal mode or to high 14 15 sensitivity mode other than just keeping the thing 16 off forever. 17 If you can look at paragraph 20 of Sakamoto, Q. 18 This is in reference to embodiment 1 of please. 19 Sakamoto. It states that, "The position information communication terminal 1 waits in a 20 21 state in which the power of the GPS receiver 10 is 22 cut off; in order to obtain terminal user A's own 23 position, a position request is sent to the 24 positioning control unit 13 by pressing the button 25 provided on the man-machine interface control

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1		unit 14." Do you see that?
2	Α.	I see that.
3	Q.	And this is describing a user's manual reactivation
4		of the GPS functionality?
5	Α.	That's one of the embodiments of Sakamoto.
6	Q.	Okay. And the next sentence reads, "The
7		positioning control unit 13 that has received the
8		position request turns on the power of the GPS
9		receiver 10 via the GPS control unit 12 and the GPS
10		receiver 10 starts the position detection process."
11		Do you see that?
12	Α.	I see that. And this is the mode of operation of
13		Sakamoto where the position is determined in
14		response to a user requesting that position.
15		Sakamoto also talks about other
16		operational modes where the position is
17		automatically and cyclically determined not on
18		request by a user, and that's what would happen in
19		normal mode or in high sensitivity node.
20	Q.	So in the sentence we just read from Sakamoto's
21		paragraph 20, the GPS receiver is powered on in
22		response to a position request, correct, not a
23		signal level?
24		MR. SNADER: Objection. Form.
25		THE WITNESS: In paragraph 20, it's

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1		describing an embodiment where the user makes a
2		request for a position and the system turns on the
3		GPS receiver, determines the position and tells it
4		and presumably then turns back off.
5	BY MR	. SEAL:
6	Q.	Referring back to your declaration for a moment in
7		paragraph 213, which you just referenced, you rely
8		on paragraph 27 from Sakamoto to discuss
9		transitioning from stop-position mode.
10		Now if you could, please, review
11		paragraph 27 from Sakamoto and direct me to the
12		portion of the paragraph that in your opinion
13		discloses transitioning from stop-position mode to
14		either normal mode or high mode.
15	А.	So what was your question again?
16	Q.	I would like you to identify for me the portion of
17		paragraph 27 in Sakamoto that teaches activating
18		the GPS receiver while in stop-position mode to
19		move into either normal mode or high mode.
20	Α.	Well, in 27, he's saying that when the environment
21		is such that it's easy to receive GPS signals, the
22		receiver is in normal mode, and then when that
23		signal level drops below a certain threshold, he
24		transitions to and in normal mode, he only
25		periodically is checking the or computing the

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1		GPS position, and then when you drop below that
2		level, you transition to the high sensitivity mode.
3		He's not talking here about transitioning from the
4		stop-positioning mode to the start-positioning mode
5		or to normal or high.
6		So his in this paragraph, he's talking
7		about these two different levels, K1 and K2, and
8		these are the threshold levels that determine
9		whether, if you're in high mode, high sensitivity
10		mode, whether you go to normal sensitivity mode, or
11		if you're in normal sensitivity mode, whether you
12		go back to high sensitivity mode. That's what he's
13		describing in this paragraph.
14	Q.	Going back to the claim language of the '113 patent
15		for a moment. You were testifying earlier that it
16		would not make sense for the '113 patent to teach
17		deactivation in response to a signal level when it
18		could not reactivate in response to a signal level.
19	А.	I don't know that I phrased it that way, but what I
20		said was that Sakamoto does talk about deactivating
21		some all or some portion of the GPS receiver
22		when the signal level drops below a certain
23		threshold, not one of the thresholds in
24		paragraph 27, and I said if he dropped below that
25		threshold and never had any ability to turn himself

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back on by checking the signal level, then he would 1 2 be permanently off until somebody lowered that 3 threshold. 4 Q. If the '113 patent requires that the GPS receiver 5 reactivate in response to a signal level, does that not suggest to you that the deactivation is 6 7 something other than a complete powering off of the **GPS** receiver? 8 9 MR. SNADER: Objection. Form. 10 THE WITNESS: You could do it in any number of ways. You could completely power off the 11 12 GPS receiver and then periodically turn back on a 13 portion of it to test the signal. If you're actually interested in minimizing power 14 15 consumption, that's probably the best way to do it. 16 You could turn off the processor portion 17 of the GPS receiver, which is certainly the highest power consumption component, and leave the radio 18 19 portion on and continually check -- if you're 20 actually interested in power consumption, that 21 would probably not be the optimal approach -- or 22 you could just simply periodically turn on the 23 portion -- turn everything off and then 24 periodically turn on the portion that you would 25 need to turn on to check the signal level, and if

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it was above that threshold, then reactivate the 1 whole rest of the receiver. 2 3 I think my point earlier was that in 4 '113, you are faced with the same problem and 5 they -- of how you determine the signal level so that you can reactivate the GPS receiver and they 6 7 don't provide any great detail about how you would do that, so Gotoh -- I mean -- not Gotoh. 8 9 Sakamoto describes turning the power off 10 and describes going into various other positioning 11 modes in various ways, some of them automatic, and 12 the only reasonable way to do that would be to be 13 able to check to see whether you're back above that threshold. 14 15 BY MR. SEAL: 16 Right. But if the claim language of the '113 0. 17 patent requires deactivating the GPS functionality 18 in response to a signal level threshold and then 19 reactivating the GPS functionality in response to a signal level threshold, that would require that 20 21 deactivation does not mean completely shutting off 22 the GPS receiver so that it cannot receive signals, 23 correct? 24 MR. SNADER: Object to form. 25 Go ahead, Robin. THE WITNESS:

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1 MR. SNADER: Objection. Form. I think I've answered that. 2 THE WITNESS: 3 There are a number of ways that you could do that. You could turn off the GPS receiver entirely -- and 4 remember, '113, just like Sakamoto, is interested 5 in minimizing power consumption, so they would 6 7 presumably turn off the GPS receiver in a way that allowed them to minimize power consumption. 8 How 9 they would then determine that that signal level was above the threshold to turn it back on could be 10 11 done in a number of ways. 12 They could decide to turn off only a portion of the GPS receiver, which would still 13 14 consume power even when they weren't checking the 15 GPS signal level, they could turn off the entire 16 GPS receiver, which would be consuming no power until they decided to check, and then they'd have 17 18 two options. One of them is to turn on the entire 19 receiver just in order to check the signal level, which would consume a lot of power because you 20 21 don't need position yet, or to turn on some portion 22 of the GPS receiver that allows them to check the 23 power, and if it's above the threshold, turn the 24 rest of the receiver on. 25 The '113 patent doesn't talk about that

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1		in any great detail and neither does Sakamoto,
2		but a person of skill in the art would understand
3		that there are numerous ways in which you could
4		perform that.
5		MR. SEAL: Okay. And I'm not trying to
6		be argumentative here and I'm not trying to have
7		you answer the question multiple times, so if I
8		come across as if I'm doing that, I apologize. I
9		am trying to understand your answer, though, so I'm
10		trying to get a little more detail, but if my
11		question is unclear or if you think I'm being
12		unfair, let me know. It's certainly not my
13		intention.
14		THE WITNESS: I understand.
15	BY MR	. SEAL:
16	Q.	Specifically in the circumstance in which Sakamoto
17		turns off power to the GPS receiver completely, how
18		could it then reactivate the GPS receiver in
19		response to a signal level?
20	Α.	He would have to periodically measure that signal
21		level and he would need to do that by turning on
22		some portion of the receiver that would allow him
23		to measure that signal level to determine whether
24		it was above the threshold.
25	Q.	And what

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1	А.	And so not the entire receiver, he just has to turn
2		on a portion of it, and if he is above that
3		threshold, then he activates the entire receiver
4		and starts positioning and starts calculating
5		positions either in high sensitivity mode or on a
6		periodic basis in normal sensitivity mode.
7	Q.	Now you say that Sakamoto doesn't have to turn on
8		the entire receiver, but he would have to turn on
9		the portion of the receiver that is capable of
10		receiving a GPS signal and measuring its strength,
11		correct?
12	А.	Yes, and so would the '113 patent. You know, you
13		mentioned earlier that there was a statement
14		about GPS receiver being in standby mode. Well,
15		that would mean that the GPS receiver hasn't
16		actually been deactivated, right? If it's in
17		standby mode, then it's still partially turned on.
18		So, you know, possibly Sakamoto could do
19		that. Sakamoto could also turn it off and then
20		periodically turn on a portion of it. So there are
21		many ways that that could be done, but both '113
22		and Sakamoto have the same problem, that if you
23		turn off the entire GPS receiver, completely power
24		it down because the signal is below a threshold,
25		and you want to turn it back on when it's above

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1 that threshold, you have to turn something back on in order to measure whether it's above the threshold. You either have to turn something back on or something has to have not been turned on.
5 Q. Alternatively, you could have an understanding of the term deactivate that does not include powering off, correct?

MR. SNADER: Objection. Form.

9 In which case you would be THE WITNESS: 10 deactivating the major power-consuming portions of the GPS receiver. And I don't think that Sakamoto 11 12 is inconsistent with that. I described it as 13 turning the power off, but Sakamoto is very clear that he says that you stop position searching, and, 14 15 you know, you could stop position searching by 16 turning off all of the correlators and processors 17 and everything else and still leave the receiver 18 detector on and be able to measure the signal level. So, you know, I think you could do it in 19 20 any number of ways and neither the '113 patent nor 21 Sakamoto are explicit in how that's done.

22 MR. SEAL: Okay. I think we're through 23 with the '113. 24 We'll now look at the '256 patent.

We'll now look at the '256 patent, please, which I'll mark as Exhibit 5.

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1		(Marked for identification:
2		Deposition Exhibit No. 5.)
3	BY MR	. SEAL:
4	Q.	And specifically, I would like to direct you to
5		claim 10, which is in column 12. Claim 10 includes
6		a limitation that reads, "A battery powered monitor
7		configured to activate and deactivate at least one
8		portion of the electronic tracking device to
9		conserve battery power in response to a signal
10		level of the received communication signal." Do
11		you see that?
12	А.	I see that.
13	Q.	And your opinion, as reflected in your declaration,
14		is that Sakamoto's GPS receiver 10 is the "at least
15		one portion of the electronic tracking device" that
16		is activated and deactivated in response to a
17		signal level; is that correct? If it helps, I'm
18		referring to paragraph 146 of your declaration.
19	А.	I'm reading that right now. Thanks.
20		MR. SEAL: We'll go ahead and mark your
21		declaration as Exhibit 6.
22		(Marked for identification:
23		Deposition Exhibit No. 6.)
24		THE WITNESS: Okay. So your question
25		was is the portion that is being activated and

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1		deactivated in response to a signal level so
2		your question was, is the electronic portion of
3		the electronic tracking device on the GPS receiver?
4		I believe in this section of my declaration, that
5		is correct.
6	BY MR	. SEAL:
7	Q.	Okay. Looking at paragraph 146 from your
8		declaration, there's on page 185, there is a
9		sentence that reads, "In my opinion, similar to the
10		'256 patent, Sakamoto teaches activating the GPS
11		receiver by selecting the normal mode due to a
12		signal level that is good (above a particular
13		threshold value, e.g., K2) and deactivating the GPS
14		receiver when the stop-positioning mode is selected
15		when the signal level value is below a
16		pre-determined threshold (i.e., poor signal level)
17		and positioning cannot be performed." Do you see
18		that?
19	А.	Yes.
20	Q.	I want to direct your attention specifically to the
21		part about activating the GPS receiver by selecting
22		the normal mode due to a signal level that is good.
23	А.	Okay.
24	Q.	So
25	А.	What about it? Is there a question?

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1	Q.	There is. One second.
2	Α.	Okay. Sorry.
3	Q.	That's all right.
4		You reference the threshold value K2 in
5		that paragraph, and that value K2 represents the
6		threshold to transition into normal mode; is that
7		correct?
8	Α.	Yes, that's correct, from high sensitivity mode.
9	Q.	From high sensitivity mode?
10	Α.	From high sensitivity mode or from stop-positioning
11		mode. It's just that when you are above K2, you
12		are from wherever you were when signal level is
13		above K2, you go to normal mode.
14	Q.	Okay. It is not your opinion, is it, that moving
15		from high mode to normal mode activates the GPS
16		receiver, is it?
17	Α.	No, because the GPS receiver is already active and
18		being continuously used in high mode.
19	Q.	Okay. So this limitation, if met by Sakamoto,
20		would have to be met by moving from stop-position
21		mode into normal mode at threshold K2, correct?
22	Α.	Yes, you can transition to if, in stop-position
23		mode, you had a signal level below the level that
24		you can receive or calculate positions, an example
25		that I've used in thinking about this is you're in

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1		a tunnel and so the signal level goes below where
2		you can reliably calculate positions, and then you
3		drive out of the tunnel and suddenly your signal
4		level is above this K2 level, you immediately go to
5		normal mode.
6	Q.	Okay. And the method by which Sakamoto moves from
7		stop-position mode into normal mode for purposes of
8		the '256 patent would be the same mechanism that we
9		discussed for the '113 patent; is that correct?
10	Α.	I think so, yes.
11		MR. SEAL: Okay. I would now direct your
12		attention to the Gotoh reference, which we're going
13		to mark as Exhibit 7.
14		(Marked for identification:
15		Deposition Exhibit No. 7.)
16	BY MR	. SEAL:
17	Q.	Before I ask specific questions about the Gotoh
18		reference, I believe your testimony is that a
19		person of ordinary skill in the art would modify
20		Sakamoto by adding the accelerometer from Gotoh
21		when Sakamoto was in stop-position mode; is that
22		correct?
23	А.	I think that's correct. Let me find it in my
24		declaration. I just want to make sure I'm at the
25		right place for why he would do that.

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1		Yes, so you would add Gotoh's
2		accelerometer in reckoning calculations to
2		Gakamotola ao that you would still be able to
2		Jakamoto S So that you would still be able to
4		determine, at least to some level of accuracy or
5		position, when the GPS signal was too low to
6		measure to reliably compute a position.
7	Q.	So one of ordinary skill in the art would use
8		Gotoh's accelerometer in combination with Sakamoto
9		only when Sakamoto is operating in the
10		stop-position mode; is that correct?
11	Α.	Yeah, and this is very common in GPS receivers.
12		They include an accelerometer, and when the signal
13		is not sufficient to be able to compute a GPS fix,
14		they then sometimes it's called flywheeling.
15		You essentially use the accelerometer to compute
16		position values, position fixes that are estimated
17		position fixes based on your trajectory, which was
18		measured by the accelerometer, and then when GPS
19		comes back, you stop doing that and go back to
20		using your GPS position.
21	Q.	If you look at paragraph 158 of your declaration on
22		the '256 patent, I do have a question there.
23		There's a sentence in the paragraph that
24		reads, "Sakamoto, as modified by Gotoh, teaches
25		that Gotoh's accelerometer 13 activates or

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1		deactivates based in part on the signal level of
2		the GPS satellite signal (the 'received
3		communication signal') as taught by Sakamoto." Do
4		you see that?
5	А.	Yes.
6	Q.	And it's your testimony that the accelerometer
7		activates when the signal level drops below a
8		certain threshold and Sakamoto enters into
9		stop-position mode, correct?
10	А.	Yes.
11	Q.	Can you describe for me the mechanism by which the
12		accelerometer of Gotoh would deactivate when it is
13		operating in stop-position mode, when Sakamoto is
14		operating in stop-position mode?
15	А.	Well, it would not deactivate until it was until
16		the signal level came above the stop-positioning
17		threshold. So the claim requirement is, "Wherein
18		the accelerometer activates or deactivates based in
19		part on the signal level of the received
20		communication signal."
21		So in Gotoh, or Sakamoto as modified by
22		Gotoh, when the signal level dropped below the
23		threshold for stop-positioning, the accelerometer
24		would take over and calculate positions, and when
25		the signal level went above that threshold, the GPS

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receiver would take over and the accelerometer would not be necessary.

3 And certainly, again, both Sakamoto and 4 the '256 are concerned with power consumption, so 5 there would be no need to continue to use the accelerometer and calculate those positions when 6 7 you had GPS fixes because it adds no new value. 8 So the mechanism by which Sakamoto would detect a Q. 9 signal level to exit stop-position mode and 10 deactivate the accelerometer, that's the same mechanism that we discussed in context -- in the 11 12 context of the '113 patent earlier, correct? 13 Α. Well, he would -- I don't know that it's exactly the same mechanism, but, you know, basically what 14 you would do is when the GPS was being used, the 15 16 GPS receiver was being used, you would deactivate 17 the accelerometer, and when the GPS receiver was deactivated, you would activate the accelerometer. 18 19 You're using one or the other.

I don't know whether, you know, you would necessarily use the threshold of the signal to turn on the accelerometer. You might just have something that said, you know, I'm only going to power one of these at a time, and, you know, on the basis of that, the accelerometer would be activated

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and deactivated. 1 2 I mean, the trigger for it is clearly that 3 the GPS signal level -- for activation, the GPS signal level has gone below that threshold and for 4 5 deactivation it's gone above that threshold, but there are many ways you could implement that from 6 7 an electronics perspective. MR. SEAL: If you'd look at the Kulach 8 9 reference, which we're going to mark as Exhibit 8. (Marked for identification: 10 11 Deposition Exhibit No. 8.) 12 MR. SEAL: Actually, I want to refer to 13 you to paragraph 171 of your declaration which discusses the Kulach reference. 14 15 THE WITNESS: Give me a second to 16 reorient myself here. 17 171, you said? Okay. 18 MR. SEAL: Yes. 19 BY MR. SEAL: 20 So referring to that paragraph and to Kulach as Q. 21 necessary, could you describe for me the mechanism 22 by which the accelerometer in Kulach deactivates? 23 So in paragraph 90 of Kulach, the right-hand Α. 24 column, it says, "While not in use, the apparatus 25 10 can disable most of its sensors to conserve

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1		energy and enable a subset of sensors, such as the
2		one or more accelerometers, only frequently enough
3		to maintain context awareness."
4		So Kulach describes that when it's not
5		necessary to use the sensors and these are
6		sensors 12, which are described elsewhere in Kulach
7		as accelerometers that when you don't need them
8		to when you don't need to use them, you power
9		them off in order to conserve energy.
10	Q.	Is there anything in paragraph 90 of Kulach or
11		elsewhere that describes maintaining that context
12		awareness in response to a signal?
13	Α.	In Kulach, in response to a signal level?
14	Q.	Correct.
15	Α.	Are you saying any signal level or
16	Q.	A GPS signal level.
17	Α.	I don't think the Kulach has a GPS receiver.
18	Q.	Okay.
19	Α.	So it wouldn't be turning those sensors on and off
20		in response to a signal level. It turns them on
21		and off to conserve power so that when they are not
22		needed, it turns them off. And then according to
23		paragraph 90, just as I had described for Gotoh and
24		his receiver, it periodically turns them on so that
25		it can figure out where it is, but then turns them

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back off again. 1 How does Kulach determine that the sensors are not 2 Q. 3 needed as a prelude to deactivating them? 4 Α. He says that, "While not in use, the apparatus can 5 disable most of its sensors to conserve energy and enable a subset of the sensors, such as one or more 6 7 accelerometers, only frequently enough to maintain context awareness." 8 9 So when there is not a lot of activity --10 and Kulach is specifically directed to detecting 11 motion of the user. So when the user is 12 essentially stationary, not particularly active, 13 you can power down most of the sensors and might periodically turn them on just to sort of see if 14 there's been any change, and if there has, you 15 16 would power them up again and understand the user 17 is not moving. 18 MR. SEAL: Thank you. 19 I would now like you to take a look at 20 the IPR petition itself for the '256 patent, which 21 I'm going to mark -- I think we're at Exhibit 8. 22 If you could turn to page 48 of the petition. 23 THE REPORTER: I'm sorry, Brian, I think 24 Exhibit 8 was the Kulach reference, you said. So this will be Exhibit 9. 25 MR. SEAL:

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1		I apologize.
2		(Marked for identification:
3		Deposition Exhibit No. 9.)
4	BY MR	. SEAL:
5	Q.	So Mr. Andrews, at the bottom of page 48, there's a
6		statement that says, "Additionally, Sakamoto
7		teaches detecting a battery level of terminal 1's
8		battery and powering on/off the GPS receiver based
9		on the battery level," and it cites Sakamoto,
10		paragraph 39. Do you see that?
11	А.	Yes.
12	Q.	Do you agree with that statement?
13	Α.	Let me read 39. Yes.
14	Q.	What is the mechanism by which Sakamoto powers the
15		GPS receiver on or off in response to the battery
16		level?
17	А.	Well, in 39, I can spare you reading the entire
18		thing, but the very last sentence after in 39,
19		he's talking about a battery control unit which
20		"notifies positioning control unit remaining
21		battery amount warning when the modern battery
22		remaining amount falls below a certain threshold
23		value." That's the beginning of 39. And at the
24		end, "After the remaining battery amount warning,
25		the power consumption may be reduced by cutting off

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1	the power to the GPS receiver 10."
2	Q. Is it your understanding that Sakamoto
3	automatically cuts off the power to GPS receiver 10
4	in that situation or is it done manually by the
5	user?
6	MR. SNADER: Objection. Form.
7	THE WITNESS: Which user? Are you
8	talking about searcher B?
9	MR. SEAL: Yes, position searcher B in
10	paragraph 39 of Sakamoto.
11	THE WITNESS: That is listed as an
12	alternative, that position searcher B might be
13	notified of the battery warning level and would
14	then transmit a position search request specifying
15	the high sensitivity positioning mode or the normal
16	sensitivity positioning mode at the discretion of
17	position searcher B. So it would be automatic
18	because position searcher B is described here as
19	putting the receiver into either the normal or the
20	high mode, not the power off mode.
21	BY MR. SEAL:
22	Q. But position searcher B, that's an individual; is
23	that correct?
24	A. Yeah, it's some third party that wants to know the
25	position of the user A.

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1	Q.	And position searcher B has the ability to cut off
2		power to GPS receiver 10, correct, by using the
3		man-machine interface?
4	А.	He's not at the device, he's remote. So I think he
5		has the ability to direct the device to be in
6		normal or high sensitivity mode, but I don't
7		believe he's described as being able to turn it
8		off.
9	Q.	So in other words, in your opinion, position
10		searcher B does not have the ability to direct
11		Sakamoto's device to enter into stop-position mode?
12	Α.	I don't recall if he can set that threshold or not.
13		I think that that's by user A. But more
14		specifically, in paragraph 39, the statement about
15		position searcher B is unrelated to the statement,
16		"After the remaining battery amount warning, the
17		power consumption may be reduced by cutting off
18		power to the GPS receiver," because I'll read it
19		here the portion of this paragraph that talks
20		about position searcher B says, "Alternatively, the
21		position searcher B may be notified of the
22		remaining battery amount warning and the terminal
23		address corresponding to this warning" so which
24		device it is "and the communication control unit
25		21 requested to transmit a position search message

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1		specifying the high sensitivity mode or the normal
2		sensitivity mode, positioning mode at the
3		discretion of position searcher B."
4		So the only thing that's described here
5		for position searcher B is that he has the
6		discretion to direct this device to be in high
7		sensitivity or low sensitivity mode based on him
8		receiving the battery level warning, but he's not
9		described as being able to turn off the GPS as
10		position searcher B.
11	Q.	So in your opinion, the last sentence of the
12		paragraph that reads, "After the remaining battery
13		amount warning, the power consumption may be
14		reduced by cutting off the power of the GPS
15		receiver 10," does not refer to any ability of
16		position searcher B?
17	А.	I think that that is a correct statement because
18		everything that's talked about position searcher B
19		doing is either normal mode or high mode, not off.
20	Q.	In paragraph 28 of Sakamoto, which I understand is
21		embodiment 1, there is a sentence the last
22		sentence of the paragraph reads, "Upon receiving
23		this warning, the terminal user A operates the
24		man-machine interface control unit 14, as described
25		above, to select from the normal sensitivity

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1		position mode, the high sensitivity position mode,
2		or cutting off the power of the position
3		information communication terminal 1." Do you see
4		that?
5	Α.	I see that.
6	Q.	So in that embodiment, would you agree that the
7		user has the ability to cut power to the device in
8		response to a battery level warning?
9	Α.	Yeah, and it's all in one sentence. So here you're
10		saying that user A, the one that's actually holding
11		the device, can put it after he receives this
12		warning, he can essentially decide what he wants to
13		do. He can put it into high sensitivity mode,
14		normal sensitivity mode or he can turn it off.
15	Q.	That embodiment described in paragraph 28, the user
16		might choose not to turn off the power in response
17		to the battery warning, correct?
18	А.	Might.
19	Q.	Or a user might not see the battery level warning
20		for some reason, correct?
21	Α.	It's possible.
22		MR. SEAL: Okay. That's it for the '256.
23		I notice we've been going for a little
24		over an hour, if anybody needs to take a short
25		break. I don't have a whole lot left.

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1	THE WITNESS: Sure.
2	VIDEOGRAPHER: Off the record at
3	9:14 a.m.
4	(Whereupon a break was taken
5	from 9:14 a.m. to 9:28 a.m.)
6	VIDEOGRAPHER: We are back on the record
7	at 9:28 a.m.
8	BY MR. SEAL:
9	Q. Mr. Andrews, during the break, have you
10	reconsidered any of your earlier testimony or had
11	any changes in your opinion?
12	A. No.
13	MR. SEAL: Okay. I'm going to try to cut
14	the remaining questions short a bit. I think I'm
15	almost done, actually, but I just want to ask
16	whether with regard to the '618 patent and your
17	declaration there. And we'll go ahead and mark the
18	'618 patent as Exhibit 10 and your declaration
19	regarding the '618 patent as Exhibit 11.
20	(Marked for identification:
21	Deposition Exhibit Nos. 10-11.)
22	BY MR. SEAL:
23	Q. And I've marked those so that you can review them
24	as much as you like in response to the question,
25	but the question is whether your understanding of

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Γ

1		the mechanisms by which Sakamoto moves from the
2		stop-position mode to either normal mode or high
3		mode for purposes of your opinion regarding the
4		'618 patent are the same as previously discussed
5		for the '113 patent and the '256 patent.
6	А.	I would say essentially. The '113 patent is ever
7		so slightly different. I would say that my
8		opinions on '618 are essentially the same for the
9		'256, and the opinions relative to the questions
10		you have asked are not significantly different for
11		'113.
12		There are some very subtle differences in
13		'113 between '113 and '256 and '618, '113 being
14		a slight outlier. So I would say, you know,
15		definitively that yes, my opinions on '618 are
16		on those topics are the same as for '256.
17		MR. SEAL: Okay. Thanks very much. I
18		don't have any other questions.
19		THE REPORTER: Robin, did you
20		MR. SNADER: Nothing on cross.
21		VIDEOGRAPHER: Okay. This concludes
22		today's deposition. The time is 9:31 a.m. and we
23		are off the record.
24		
25		(Deposition concluded at 9:31 a.m.)

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1 | STATE OF MICHIGAN)

2 | COUNTY OF OAKLAND)

3 Certificate of Notary Public 4 5 I do hereby certify the witness, whose attached testimony was taken in the above matter, was first duly 6 7 sworn to tell the truth; the testimony contained herein 8 was reduced to writing in the presence of the witness, by 9 means of stenography; afterwards transcribed; and is a 10 true and complete transcript of the testimony given. Ι 11 further certify that I am not connected by blood or 12 marriage with any of the parties, their attorneys or 13 agents, and that I am not interested directly, indirectly 14 or financially in the matter of controversy. 15 In witness whereof, I have hereunto set my hand 16 this day at Clarkston, Michigan, State of Michigan. 17 I hereby set my hand this day, May 15, 2021. 18 19 Karen Fortna 20 21 22 Karen Fortna, CRR/RMR/RPR/CSR-5067 23 Notary Public, Oakland County, Michigan My Commission expires 4/30/2025 24 25

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scheduling@fortzlegal.com

fortzlegal.com

Toll Free: 844.730.4066

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scheduling@fortzlegal.com

fortzlegal.com

Toll Free: 844.730.4066