Page 109 1 UNITED STATES DISTRICT COURT 2 FOR THE WESTERN DISTRICT OF TEXAS WACO DIVISION 3 -00000-4 ECOFACTOR, INC., : 5 Plaintiff, : 6 : Case No. 6:21-cv-00428 v. 7 ECOBEE, INC., : 8 Defendant. : 9 : 10 11 VIDEOTAPED VIDEOCONFERENCED DEPOSITION OF JOHN PALMER 12 TAKEN THROUGH ADVANCED REPORTING SOLUTIONS, a Veritext company 13 Part II 14 15 16 Taken on Friday, December 16, 2022 17 1:17 p.m. to 5:09 p.m. 18 19 20 21 22 23 24 Reported by: Abigail D.W. Johnson, RPR, CRR, CRC 25

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1	Page 110 A P P E A R A N C E S	1	Page 1
2	ATTEARANCES		December 16, 2022 1:17 p.m.
3	For the Plaintiff:	2	P R O C E E D I N G S (continued)
4	John Link	3	-000-
_	James Pinkens	4	VIDEOGRAPHER: The time now is 1:17 p.m.
5	RUSS AUGUST & KABAT	5	We are back on the record.
6	12424 Wilshire Blvd. 12th Floor	6	EXAMINATION (continued)
0	Los Angeles, California 90025		
7	jlink@raklaw.com	7	BY MS. WOODWORTH:
	(310) 826-7474	8	Q. Dr. Palmer, are you ready to continue?
8		9	A. Of course.
9 10	For the Defendant: Megan S. Woodworth	10	Q. If you could turn in your report to
10	Venable LLP	11	paragraph 652.
11	600 Massachusetts Avenue, NW	12	(Clarification by the reporter.)
	Washington, District of Columbia 20001		
12	mswoodworth@venable.com	13	BY MS. WOODWORTH:
	(202) 344-4507	14	Q. This is part of your response to
13 14		15	Dr. D'Adrade's opinions regarding the combination of
14	Also Present: Andrea Francis (videographer)	16	the Ecobee SMART Thermostat with Benco and Jayade
15	Auso riesent. Andrea rianeis (videographer)	17	correct?
	-00000-	18	A. Give me just a second to find it. Did you
16			
17		19	say "552"?
18		20	Q. 652.
19 20		21	A. Oh, I'm sorry. Yes. This is with regard
20		22	to the the combination or the hypothetical
22		23	combination of Ecobee SMART Thermostat with Jayad
23		24	Q. And my understanding in this paragraph is
24			
25		25	that it's your opinion that Ecobee, specifically, as a
	Page 111		Page 1
1	I N D E X	1	company, in its own patent filing did not cite the
	EXAMINATIONS PAGE	2	Jayadev patent that somehow evidences a lack of
3	Examination (Continued) By Ms. Woodworth112	3	motivation for POSITA to combine the Ecobee SMART
4	Examination By Mr. Link214	4	Thermostat with Jayadev; is that correct?
5	Further Examination By Ms. Woodworth215	5	A. Yes.
6			
7	EXHIBITS	6	Q. If you could turn to Exhibit 6. It is
8	EXHIBIT NO. DESCRIPTION PAGE	7	marked. And can you confirm that Exhibit 6 is a
9	Exhibit 6 Strategic-response control system113	8	printout of the Google patent version of Jayadev that
	for regulating air conditioners for	9	you had used to come to that conclusion?
10		10	A. Yes.
11	Exhibit 7 Report by Tom Webster, P.E		
12	Exhibit 8 Article: "Should Patent Examiners147	11	(Exhibit No. 6 was marked
	Get More Time?"	12	for identification.)
13		13	BY MS. WOODWORTH:
10	Exhibit 9 Expert Report of Brian D'Andrade,154	14	Q. Do you understand that the obviousness
14	Ph.D., P.E., CCNP	15	evaluation is not from the standpoint of any specific
	Exhibit 10 United States Patent: '186209	16	person, but from the standpoint of a hypothetical
15			
16	-000-	17	person of ordinary skill in the art; correct?
17		18	A. Yes. Hypothetical person of ordinary skill
10		19	in the art. But in this case, we have a proposed
18		20	combination involving, specifically, a party to the
19			case. And they presumably employ persons of, at least,
19 20		1 21	case. The mey presumery employ persons of, at least,
19 20 21		21	ordinary skill in the art in their research and
19 20		22	ordinary skill in the art in their research and
19 20 21			development domain. And yet the they're not
19 20 21 22		22	

	Page 134		Page
1	A. A hysteresis band is the basically, the	1	Q. In paragraph 107 and 108, you cite to other
2	operational or the control feature that has the	2	portions of the specification that you say support the
3	thermostat turned depending on whether you're cooling	3	this aspect of the '100 claims.
4	or heating. Let's just give the example of cooling.	4	Do any of these cited sections disclose,
5	The cooling would be would come on when	5	specifically, a method for selecting a particular
6	the temperature is above the setpoint and would turn	6	interval for a compressor delay?
7	off when the temperature is below the setpoint.	7	A. Okay. I have read paragraph 107 and 108.
8	And that hysteresis band would be the	8	And I'm sorry, I have already forgotten your question.
9	difference between the turn-on temperature and the	9	Q. Do you refer to anywhere in these
10	turn-off temperature, in terms of it being a range of	10	paragraphs, do you cite to any part of the
11	operational temperatures.	11	specification that expressly discloses a method for
12	Q. Do those ranges typically revolve around	12	selecting an interval for a compressor for
13	the setpoint for the system?	13	compressor delay?
14	A. Typically, yes.	14	A. It it doesn't put it in specific terms,
15	Q. In your mind, would employing a hysteresis	15	but it does indicate the relationship between change in
16	band constitute an intentional compressor delay, as	16	inside temperature and the need for and how that
17	we've been using that term today?	17	would inform a decision in specifying a compressor
18	A. The hysteresis band is not the same as an	18	delay.
19	intentional delay of the compressor. They a	19	Q. Those were all your words, though, correct,
20	hysteresis band can affect the delay of the compressor,	20	not that of the specification?
20	but it's not the same thing.	20	A. Yes, those were my words. And I cited
21	Q. Would that fall into the second category	$\begin{vmatrix} 21\\22 \end{vmatrix}$	where the information in the specification puts that
22	that we described where the compressor is not on	22	all in context.
	because of the operation control of the compressor?	23	
24			Q. Paragraph 111 to 112, this describes the
25	A. I would say that generally, yes, the	25	portion of the specification that describes the ability
1	Page 135		Page
1	off-time that would result from a change in the		to predict the rate of change of inside temperature
	hysteresis band would generally be a an	$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	under varying conditions; is that correct?
3	unintentional off-time, as as we've been using the	3	A. Yes.
4	term.	4	Q. Does this portion of the specification
5	Q. And I think you actually just answered my	5	describe, specifically, how that prediction is
6	next question, but let me just go ahead.	6	performed?
	If you modify that hysteresis band, you	I _	-
7		7	What calculation is done?
8	make the offset from the setpoint larger so there would	8	What calculation is done? MR. LINK: Objection. Compound question.
8 9	make the offset from the setpoint larger so there would be a modified hysteresis band.	8 9	What calculation is done? MR. LINK: Objection. Compound question. (Clarification by the reporter.)
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8 9	make the offset from the setpoint larger so there would be a modified hysteresis band. Would you also agree that the off-periods for the compressor during a cycle of the modified	8 9	What calculation is done? MR. LINK: Objection. Compound question. (Clarification by the reporter.) THE WITNESS: It does not expressly identify an equation for the calculation.
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8 9 10 11	make the offset from the setpoint larger so there would be a modified hysteresis band. Would you also agree that the off-periods for the compressor during a cycle of the modified hysteresis period or modified hysteresis activity, would still not constitute an intentional delay? Did	8 9 10 11	What calculation is done? MR. LINK: Objection. Compound question. (Clarification by the reporter.) THE WITNESS: It does not expressly identify an equation for the calculation. BY MS. WOODWORTH: Q. Would a person of ordinary skill in the art
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8 9 10 11 12 13 14 15 16 17 18	 make the offset from the setpoint larger so there would be a modified hysteresis band. Would you also agree that the off-periods for the compressor during a cycle of the modified hysteresis period or modified hysteresis activity, would still not constitute an intentional delay? Did you understand that question? A. I I think I understood your question. And the answer is that increasing the width of the hysteresis band is not exactly the same as introducing a delay. Q. And 	8 9 10 11 12 13 14 15 16 17 18	 What calculation is done? MR. LINK: Objection. Compound question. (Clarification by the reporter.) THE WITNESS: It does not expressly identify an equation for the calculation. BY MS. WOODWORTH: Q. Would a person of ordinary skill in the art know how to calculate a rate of change of temperature? A. Yes, they would. Q. And these portions of the specification also do not expressly specify how a rate of change can be used to select the compressor delay setting; correct?
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 make the offset from the setpoint larger so there would be a modified hysteresis band. Would you also agree that the off-periods for the compressor during a cycle of the modified hysteresis period or modified hysteresis activity, would still not constitute an intentional delay? Did you understand that question? A. I I think I understood your question. And the answer is that increasing the width of the hysteresis band is not exactly the same as introducing a delay. Q. And A. But it does impact the operation. Q you said it doesn't introduce a delay? 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 What calculation is done? MR. LINK: Objection. Compound question. (Clarification by the reporter.) THE WITNESS: It does not expressly identify an equation for the calculation. BY MS. WOODWORTH: Q. Would a person of ordinary skill in the art know how to calculate a rate of change of temperature? A. Yes, they would. Q. And these portions of the specification also do not expressly specify how a rate of change can be used to select the compressor delay setting; correct? A. These paragraphs, again, inform the overall understanding of the relationship between rate of change of temperature and desirable changes in in
8 9 10 11 12 13 14 15 16 17 18 19 20 21	 make the offset from the setpoint larger so there would be a modified hysteresis band. Would you also agree that the off-periods for the compressor during a cycle of the modified hysteresis period or modified hysteresis activity, would still not constitute an intentional delay? Did you understand that question? A. I I think I understood your question. And the answer is that increasing the width of the hysteresis band is not exactly the same as introducing a delay. Q. And A. But it does impact the operation. Q you said it doesn't introduce a delay? 	8 9 10 11 12 13 14 15 16 17 18 19 20 21	 What calculation is done? MR. LINK: Objection. Compound question. (Clarification by the reporter.) THE WITNESS: It does not expressly identify an equation for the calculation. BY MS. WOODWORTH: Q. Would a person of ordinary skill in the art know how to calculate a rate of change of temperature? A. Yes, they would. Q. And these portions of the specification also do not expressly specify how a rate of change can be used to select the compressor delay setting; correct? A. These paragraphs, again, inform the overall understanding of the relationship between rate of

	D 170		n (
1	Page 158 particular duty cycle and time period, let's say one	1	Page 1 A. 1[c] begins on 133, yes. And then goes to
2	hour, would that constitute a compressor delay within	2	134.
3	the meaning of the '100 patent?	3	Q. And it recites "a computer processor"
4	MR. LINK: Objection. Incomplete	4	"the processor configured to: access stored data
5	hypothetical.	5	comprising a plurality of internal temperature
			measurements taken within a structure and a plurality
6	THE WITNESS: It wouldn't necessarily, because for one, I as and I may be remembering	6	
7			of outside temperature measurements relating to
8	wrong, but I thought that it was under Ehlers, it's	8	temperatures outside the structure."
9	the customer that specifies the the duty cycle. But	9	Would you admit that as of the time of the
10	even if it's the utility that specifies the maximum	10	filing of this patent application, that such a
11	duty cycle, that without knowing whether, you know,	11	structure was known in the art to a person of ordinary
12	the setpoint is satisfied in 5 minutes or in 7 minutes	12	skill in the art?
13	or in 10 minutes, then	13	MR. LINK: Objection. Vague.
14	And, you know, over one-hour period, you	14	THE WITNESS: A structure, meaning the
15	may have under the under the hypothetical maximum	15	structure for which temperatures inside and outside are
16	duty cycle, you may have that turn on and operate for 5	16	being measured?
17	minutes, and then turn off and stay off for 5 minutes.	17	BY MS. WOODWORTH:
18	And then turn on again for for 7 minutes. And then	18	Q. No, the structure as claimed the computer
19	turn off again for another 5 minutes. And then turn on	19	process can figure to access stored data as it's
20	again until you reach if you're picking a one-third	20	described in this claim limitation.
21	and a duty a one-third duty cycle, once you've	21	A. The the existence of computer processors
22	reached an on time of a total on-time of 20 minutes	22	that are capable of accessing data that's stored that
23	in a given hour, then, then, whatever is left, is	23	is taken over time is, by itself, not a not unheard
24	whatever is left. And you've got to leave it off until	24	of.
25	your hour is complete.	25	Q. Well, and certainly EcoFactor did not
	Page 159		Page 1
1	So in other words, the duty cycle dictates	1	invent that even within the context of that stored data
2	the ratio of on to off-time. And if you specify what	2	being a plurality of internal and external temperature
3	the duration of the on-time is, you can thereby	3	measurements; correct?
4	calculate the off-time. But the specific operation	4	A. That is correct.
5	does not is not the same as as determining a	5	Q. You admit that Ehlers discloses sensing
6	delay.	6	inside temperature; correct?
7	BY MS. WOODWORTH:	7	A. I'm sorry, which paragraph are you
8	Q. If we're looking at a cycle, as we defined	8	referring to?
9	it earlier, as the amount of time that it takes to go	9	Q. Of your report?
9 10	from peak to peak in the thermal wave form of an HVAC	10	A. Yes.
	system strike that. I'm going to move on.	10	
11			
	Let's move on to Claim Element 1[c]. So	12	acknowledge that Ehlers discloses sensing inside
12	Let us have be and a sum of the Chief of the state		temperature measurements?
13	let me just make sure, actually, first, in your this	13	
13 14	portion of your report, you don't have a section that	14	A. I do recall that Ehlers discloses measuring
13 14 15	portion of your report, you don't have a section that expressly falls out for Claim Element 1[b]; correct?	14 15	inside temperature.
13 14 15 16	portion of your report, you don't have a section thatexpressly falls out for Claim Element 1[b]; correct?A. I'm sorry. I'm looking at the wrong	14 15 16	inside temperature. Q. And Ehlers discloses measuring outside
13 14 15 16 17	portion of your report, you don't have a section thatexpressly falls out for Claim Element 1[b]; correct?A. I'm sorry. I'm looking at the wrongdocument. Let me get back to my report.	14 15 16 17	inside temperature. Q. And Ehlers discloses measuring outside temperature as well; correct?
13 14 15 16 17 18	portion of your report, you don't have a section that expressly falls out for Claim Element 1[b]; correct? A. I'm sorry. I'm looking at the wrong document. Let me get back to my report. Can you tell me again what page we are on?	14 15 16 17 18	inside temperature.Q. And Ehlers discloses measuring outsidetemperature as well; correct?A. I'm looking. It looks like I make
13 14 15 16 17	portion of your report, you don't have a section that expressly falls out for Claim Element 1[b]; correct? A. I'm sorry. I'm looking at the wrong document. Let me get back to my report. Can you tell me again what page we are on? Q. Well, I think I found the answer to my	14 15 16 17 18 19	inside temperature.Q. And Ehlers discloses measuring outsidetemperature as well; correct?A. I'm looking. It looks like I makereference to Dr. D'Adrade's report identifying the
13 14 15 16 17 18	portion of your report, you don't have a section that expressly falls out for Claim Element 1[b]; correct? A. I'm sorry. I'm looking at the wrong document. Let me get back to my report. Can you tell me again what page we are on?	14 15 16 17 18	 inside temperature. Q. And Ehlers discloses measuring outside temperature as well; correct? A. I'm looking. It looks like I make reference to Dr. D'Adrade's report identifying the an outside temperature measurement. And then it
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 13 14 15 16 17 18 19 20 	 portion of your report, you don't have a section that expressly falls out for Claim Element 1[b]; correct? A. I'm sorry. I'm looking at the wrong document. Let me get back to my report. Can you tell me again what page we are on? Q. Well, I think I found the answer to my question in paragraph 125. It looks like you're 	14 15 16 17 18 19 20	 inside temperature. Q. And Ehlers discloses measuring outside temperature as well; correct? A. I'm looking. It looks like I make reference to Dr. D'Adrade's report identifying the an outside temperature measurement. And then it
 13 14 15 16 17 18 19 20 21 	 portion of your report, you don't have a section that expressly falls out for Claim Element 1[b]; correct? A. I'm sorry. I'm looking at the wrong document. Let me get back to my report. Can you tell me again what page we are on? Q. Well, I think I found the answer to my question in paragraph 125. It looks like you're focused on Elements 1[a], 1[b], 1[d] and 1[e]; is that 	14 15 16 17 18 19 20 21	 inside temperature. Q. And Ehlers discloses measuring outside temperature as well; correct? A. I'm looking. It looks like I make reference to Dr. D'Adrade's report identifying the an outside temperature measurement. And then it references it looks like paragraph 268 of Ehlers. I
 13 14 15 16 17 18 19 20 21 22 	 portion of your report, you don't have a section that expressly falls out for Claim Element 1[b]; correct? A. I'm sorry. I'm looking at the wrong document. Let me get back to my report. Can you tell me again what page we are on? Q. Well, I think I found the answer to my question in paragraph 125. It looks like you're focused on Elements 1[a], 1[b], 1[d] and 1[e]; is that correct? 	14 15 16 17 18 19 20 21 22	 inside temperature. Q. And Ehlers discloses measuring outside temperature as well; correct? A. I'm looking. It looks like I make reference to Dr. D'Adrade's report identifying the an outside temperature measurement. And then it references it looks like paragraph 268 of Ehlers. I can go and double-check that, but I do believe that

	Page 162		Page 10
1	Q. Okay. Well, let's look at paragraph 268.	1	setpoints; correct?
2	Do you understand that there it describes	2	A. It would be some temperature record,
3	as having a gateway node 1.10 that includes both a	3	whether it was temperature measurements or averages of
4	processer, which can access data stored in a memory;	4	temperature over some period of time. Ehlers, in his
5	correct?	5	list of data stored, refers to temperature averages,
6	A. I'm sorry, I'm still trying to get there.	6	but, you know, what window those are averaged over is
7	You said paragraph 268?	7	not clear.
8	Q. Correct.	8	Q. In order to create an average temperature,
9	A. Yes.	9	you have to have at least two temperature measurements
10	Q. And that so that discloses a gateway	10	correct?
11	Node 1.10, which includes a processor that is	11	A. It in order to create an average, you
12	configured to access stored data in a memory; correct?	12	would have to have two temperature measurements; that
13	A. Yes. And then the next paragraph the	13	is correct.
14	next 40-some paragraphs identify the parameters that	14	Q. Let's look at Figure 3D as well. We might
15	Ehlers recommends being stored in that memory.	15	spend some time here.
16	Q. Let's go to the example in paragraph 293.	16	This figure is described as how the system
17	It states that one of the things that's stored is	17	tracks and learns the thermal gain characteristic of a
18	"weather information and history data including at a	18	home: correct?
19	minimum outside temperature lows and highs"; correct?	19	A. That's part of the description of of
20	A. Yes.	20	this figure.
21	Q. So a minimum outside temperature low would	21	Q. And you understand that there's, kind of,
22	be at least one, and a minimum outside temperature high	22	two sets of lines shown here, correct, those that start
23	would be at least a second outside temperature	23	with 3.12 and the second set that starts with 3.14?
23	measurement; correct?	23	A. You you're overlooking the one that's
25	A. Not not necessarily. That could be an		marked 3.16, but yes, there are multiple sets of lines
20	· ·		
1	Page 163 almanac entry. I mean, it could be information	1	Page 10 on this.
2	that's that's reported from the weather service that	2	Q. Well, 3.16 is not a set, is it? Or is it a
3	he references as an almanac entry. But it's not a	3	set of one?
4	multiplicity of measurements over time; it is a high	4	A. It doesn't fit in either of the other
5	and a low for a given day.	5	categories. So yes, I would say it is probably a set
6	Q. But those would be stored over time?	6	of one.
7	A. Sorry. That would be day, week or billing	7	Q. But you do understand that those the two
	period, is what it says later in the paragraph.		sets, 3.12 and 3.14, refer to two different outside
8		8	
• • •	O Dight And payt is those by day	0	weather town another management and itight agencet?
9 10	Q. Right. And next is those by day.	9	weather temperature measurement conditions; correct?
10	So that would be stored for each day;	10	A. I don't think I understood you correctly on
10 11	So that would be stored for each day; correct?	10 11	A. I don't think I understood you correctly on that.
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