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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

AMERICAN NATIONAL MANUFACTURING INC.,

Petitioner,

vs.

SLEEP NUMBER CORPORATION, f/k/a SELECT COMFORT CORPORATION,

Patent Owner.

CASE IPR2019-00514(Patent 5,904,172)

DEPOSITION OF ROBERT GIACHETTI, PhD, PE

VOLUME II

October 8, 2019

Chicago, Illinois

Reported by: Diana G. Polk Job no: 26064

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1	DEPOSITION OF ROBERT GIACHETTI, PhD, PE VOLUME II		INDEX
2	DATE: October 8, 2019	2	Witness: Page ROBERT GIACHETTI, PhD, PE
3 4	TIME: 9:00 a.m. LOCATION: Fox Rothschild LLP		Redirect Examination by Mr. Hare 294
4	321 N. Clark Street,	4	Recross-Examination by Ms. Nath 325
5	Suite 1600	5	
5	Chicago, Illinois		EXHIBITS
6	e	6	
7		7	Giachetti Deposition:
8		'	Exhibit 6
9		8	For Identification 325
10		9	
11		10	
12		11	
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14 15		14	
16		15	
17		16	
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20		19 20	
21		21	
22		22	
23		23	
24 25		24	
20		25	
	Page 292		Page 294
1	APPEARANCES:	1	(Witness sworn)
2	FOX ROTHSCHILD, LLP 222 South Ninth St, Suite 2000	2	ROBERT GIACHETTI, PhD, PE,
3	Minneapolis, MN 55402	3	called as a witness herein, having been first duly
4	PH: 612.607.7000 anath@foxrothschild.com	4	sworn, was examined and testified as follows:
-	ltoft@foxrothschild.com	5	REDIRECT EXAMINATION (cont'd)
5	BY: MS. ARCHANA NATH, ESQ. MR. LUKE TOFT, ESQ.	6	BY MR. HARE:
6	MR. LUKE IOFI, ESQ.	7	Q Good afternoon.
_	On behalf of the Patent Owner;	8	MS. NATH: Or good morning.
7 8	SPENCER FANE, LLP	9	MR. HARE: Good morning. Sorry. Screwed that
	5700 Granite Parkway, Suite 650	10	one up.
9	Plano, TX 75024 PH: 214.750.3623	11	BY MR. HARE:
10	jhare@spencerfane.com	12	Q Yesterday we had talked about Exhibit 3
11	ktuttle@spencerfane.com BY: MR. JASPAL SINGH HARE, ESQ.	13	which is a petition for IPR. Do you recall that?
1 × 1	MR. KEVIN S. TUTTLE, ESQ.	14	A Yes.
12		15	Q Do you generally agree with the substance
13	On behalf of the Petitioner.	16	of that document?
14		17	MS. NATH: Object to form.
15 16		18	BY THE WITNESS:
17		19	A Yeah. Generally speaking, yes.
18 19		20	BY MR. HARE:
20		21	Q Can you tell me if there's anything you
21		22	don't agree with that you recall?
22 23		23	A I don't recall.
		24	Q Thank you. Yesterday you also talked
24 25		25	about, you know, potentially how you found prior art,

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	Page 295		Page 297
1	correct?	1	MS. NATH: Object to form.
2	A Yes.	2	BY MR. HARE:
3	Q Can you tell me your general process for	3	
	finding prior art.	1	Q One of the things that was raised
4	61	4	yesterday was date of invention or possible date of
5	A Yeah. So I have someone that works at my	5	around May 1996. Do you recall?
6	direction. I sent him to look for prior art. I also	6	A I recall that being mentioned yesterday.
7	did a prior art search myself using terms from the	7	Q What if any strike that.
8	underlying technology that I understood and I searched	8	Are you familiar with the concept of
9	basically the US Patent Office for that. I searched	9	antedating?
10	trade journals and things like that.	10	A I have a limited understanding of that.
11	Q There's a certain way of searching and	11	Q I'll represent to you that in certain
12	engineering and doing research, correct?	12	periods in the system you can take your prior art date
13	A Yes.	13	and move it back to the date of actual invention by
14	Q Can you tell me about that, like, for	14	presenting evidence.
15	example, you know, how a first year out of	15	A Yes.
16	undergraduate school would go about researching to	16	Q Does that comport with your understanding
17	solve a problem?	17	of antedating?
18	A Sure. So I think someone who's fresh out	18	A Yes.
19	of the gates, they might just use Google or something	19	Q So in this case there's a potential that
20	like that and type in their keywords but the keywords	20	the patent owner may attempt to move their date of
21	are the part that's tricky and so what you do to	21	invention back and I believe the date that was
22	generate those, and once you have them, then you can	22	suggested yesterday was May 1996, do you recall?
23	use Google or go to Google Patents or go to the US	23	A Yes, I do.
24	Patent Office to search. You want to look for the	24	Q What difference would it make if they did
25	premise of the invention for the art you're looking at	25	establish a date of May '96 to your report?
2.5	premise of the invention for the art you're looking at	25	establish a date of May 90 to your report?
	Page 296		Page 298
1	and so that's what I did.	1	A That wouldn't change my analysis. All of
2	Q One of the things you also talked about	2	the prior art I reviewed came before that and the
3	yesterday was secondary indicia of nonobviousness. Do	3	sources of literature that I used to support my
4	you recall?	4	analysis also came before that.
5	A Yes.	5	Q You also understand that certain art that
6	Q Does your report analyze those?	6	qualifies as 102(b). Do you understand the
7	A No. I had no evidence for secondary	7	significance of that?
8	indicia that I had to work with so the other thing is	8	A For anticipation?
9	that we're talking about a piece of hardware that's on	9	Q Yeah, or even for obviousness.
10	the device that doesn't show up in marketing type	10	A I think I do.
11	things. This is something within an enclosure that's	11	Q Do you understand that you cannot antedate
12	not like something you would advertise so I didn't	12	a reference that's a 102(b) that qualifies as 102(b)
13	look.	13	art?
$14^{13}$	Q Can you tell me if there was evidence out	14	A Yes, I do.
$14 \\ 15$	· · · · · · · · · · · · · · · · · · ·	15	
15 16	there you would have considered it and how you would have used it.	16	
			so, for example, Shafer, which is Exhibit 6 to your
17	MS. NATH: Object to form.	17	deposition and also in the proceeding Exhibit 1007, you
18	BY THE WITNESS:	18	understand that qualifies under 102(b), correct?
19	A Yes. So if there was financial data	19	A Correct.
20	presented or some sort of huge blip in sales that I	20	Q And similarly Ramacier, for example,
21	found or was presented with, then I would look at that.	21	Exhibit 8 to your deposition, Exhibit 1014 in the
22	BY MR. HARE:	22	proceeding, that also qualifies as 102(b) art?
23	Q And as far as you know, that just doesn't	23	A Yes.
24	exist, correct?	24	Q And then same question for Vrzalik Exhibit
25	A That's correct.	25	10 to your deposition and Exhibit 1012 in the
25	A That's contect.	25	To to your deposition and Exmon 1012 in the

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1	proceeding, that also qualifies as 102(b) art?	1	proposing three separate ones?
2	A Yes, I understand.	2	MR. HARE: Yeah.
3	Q Okay. I don't need to go through all of	3	MS. NATH: If you can ask it that way then
4	them, right?	4	MR. HARE: Go ahead.
5	A Right. A lot of them are very old.	5	BY THE WITNESS:
6	Q One of the things another thing we	6	A So in the art you have to have, when you
7	talked about, you talked about with opposing counsel	7	monitor the pressure you need a sensor and to connect
8	yesterday, was the claim constructions for pressure	8	that sensor you need a port and so there are a number
9	monitoring means PPM1, 2, and 3.	9	of different places where the port could go but there's
10	A Correct.	10	a functionality that it also must accomplish and that
11	Q Can you explain that and try to explain in	11	is measuring the pressure in the bladder. So there are
12	plain English what's the logic behind those three. And	12	several places where it could go and so in the first
13	if you need to look at your report	13	one, which is the most general one which is PMM1, that
14	A Yes, let me get that out.	14	just defines that there's a port that is coupled to the
15	MR. HARE: Do you mind if he looks at this copy?	15	interior of the valve enclosure assembly and so that
16	MS. NATH: Object to form but, yes, go ahead. As	16	means that this port could really have fluid
17	long as there's no annotations on it, that's fine.	17	communication I take that back the fluid
18	MR. HARE: There's no annotations but there may	18	communication part. So basically this allows you to
19	be just let me double-check.	19	put that port somewhere because it's coupled. Now,
20	MR. TUTTLE: There is none on mine.	20	when you move on to PMM2 now PMM2 is more specific and
21	MS. NATH: Let's use Kevin's. It's more clean.	21	puts that port on the enclosure that is then fluidly
22	And I'm going to flip through real quick.	22	coupled to the interior of the enclosure, so PMM2 is
23	MR. HARE: You objected to form. What was the	23	more specific, and then finally PMM3 is also more
24	issue with that question? If you need to read it back	24	specific in that now that port is positioned on the
25		25	valve.
	Page 300		Page 302
1	MS. NATH: Sure. Go ahead. Would you read it	1	BY MR. HARE:
2	back for me.	2	Q Would it be fair to summarize PMM1 as the
3	(Record read as requested:	3	broadest, this covers multiple preferred embodiments in
4	"Q Can you explain that and try to	4	the '172 patent?
5	explain in plain English what's the	5	MS. NATH: Objection, leading.
6	logic behind those three. And if you	6	BY THE WITNESS:
7	need to look at your report")	7	A That's right. Yesterday I called it the
8	MS. NATH: So it's compound and also vague, can	8	umbrella that the others are under so I think that's
9	you explain that, and by that I mean there was just	9	accurate.
10	no it was unclear to me what you were actually asking	10	BY MR. HARE:
11	to explain.	11	Q And then PMM2 and 3 are just more specific
12	MR. HARE: Okay. Let me ask it again.	12	embodiments, correct?
13	BY MR. HARE:	13	A That's correct.
14	Q Can you explain PMM1, PMM2, PMM3, please.	14	MS. NATH: Objection, leading and compound.
15	MS. NATH: Object to form. Go ahead.	15	MR. TUTTLE: Other than my hand marking of EX 4
16	MR. HARE: What's the objection? And I'm still	16	on the front I do not see I have any marking.
17	not sure what you're asking him to do. It's compound	17	MS. NATH: Other than the annotation of the
18	and I don't know what you mean by explain them.	18	exhibit number on the front page, this appears to be
19	MR. HARE: Well, it's the terms that he used.	19	the same unmarked version of what we used yesterday as
	MS. NATH: Are you asking him to explain their	20	Exhibit 4.
20		21	BY MR. HARE:
20 21	definitions or the idea of having three separate ones?	1	
20 21 22	I'm just not sure what he's explaining.	22	Q If you could turn your attention to
20 21 22 23	I'm just not sure what he's explaining. MR. HARE: The logic behind the three separate	22 23	Exhibit 4, which is the '172 patent, it's also Exhibit
20 21 22	I'm just not sure what he's explaining.	22	· ·

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1	Page 303		Page 305
	MS. NATH: Objection, compound.	1	tab in the large hole on the side of the valve
2	BY THE WITNESS:	2	enclosure portion.
3	A So on, let's see, Figures 3, 4, 6, 7, 8,	3	Q That's the stop, correct?
4	9, those figures show the valve enclosure assembly and	4	A It could be a stop.
5	on those images there's a port visible on the enclosure	5	Q If you look at 198 in Figure 8
6	so that would cover PMM1 and 2. Then I think in Figure	6	A Okay. I see that in Figure 8.
7	1 you can see a port that looks like it is on the valve	7	Q There appears to be some it's not clear
8	itself which does not appear in the other it does	8	what that is, correct?
9	appear in Figure 9. Excuse me. So Figure 9 shows	9	A Right. So 198
10	ports on the valve, the valves themselves, so that	10	MS. NATH: Objection, leading.
11	would be PMM3 and PMM1.	11	BY THE WITNESS:
12	BY MR. HARE:	12	A In Figure 8 198 appears to be drawn to
13	Q Moving on, yesterday you also talked about	13	some portion in between the valve cartridge and the
14	guides and stops, right?	14	valve enclosure assembly.
15	A That's right.	15	BY MR. HARE:
16	MS. NATH: Objection, leading.	16	Q How would one of ordinary skill in the art
17	MR. HARE: I don't believe that's an improper	17	understand that, those two 198s?
18	question. It's just a background question.	18	A Those two 198s in this case, I think that
19	MS. NATH: I retract that objection.	19	a person of ordinary skill in the art would use their
20	BY MR. HARE:	20	engineering background and the text and just develop
21	Q Can you try to explain to me in plain and	21	something on their own based on the text trying to
22	ordinary English what are guides and stops.	22	incorporate both of these features as best they can.
23	A So guides and stops limit the motion of	23	Q Yesterday you also talked about or were
24	something in a particular direction or limit the total	24	asked about, you know, often certain prior art
25	travel in a particular direction so in this case the	25	references addressing particular problems. Do you
	Page 304		Page 306
1	guides allows movement in one plane in one dimension	1	recall?
2	and the stops disallow that motion.	2	A Yes.
3	MS. NATH: I apologize, I'm slow, but I'll object	3	Q What's the relevance of that, if any?
4	to that as asked and answered before that answer came.	4	A It was not relevant to my analysis.
5	BY MR. HARE:	5	Q Why?
б	Q One thing in the Gifft patent, which is	6	A Because I was looking for the
7	Exhibit 4, I can turn your attention to the reference	7	functionality of the patents and how that functionality
-	numeral 198.	8	
8		-	was accomplished.
9	A Okay.	9	Q Yesterday you recall also talking about
9 10	Q 198 is referenced strike that.	9 10	Q Yesterday you recall also talking about whether or not certain references talk about or
9 10 11	Q 198 is referenced strike that. If you could turn your attention to	9 10 11	Q Yesterday you recall also talking about whether or not certain references talk about or disclose how to assemble them?
9 10 11 12	Q 198 is referenced strike that. If you could turn your attention to column 5.	9 10 11 12	<ul><li>Q Yesterday you recall also talking about whether or not certain references talk about or disclose how to assemble them?</li><li>A I recall that.</li></ul>
9 10 11 12 13	Q 198 is referenced strike that. If you could turn your attention to column 5. A Yes.	9 10 11 12 13	<ul> <li>Q Yesterday you recall also talking about whether or not certain references talk about or disclose how to assemble them?</li> <li>A I recall that.</li> <li>Q What's the relevance of that if any?</li> </ul>
9 10 11 12 13 14	<ul> <li>Q 198 is referenced strike that. If you could turn your attention to</li> <li>column 5.</li> <li>A Yes.</li> <li>Q The paragraph starting at Line 34.</li> </ul>	9 10 11 12 13 14	<ul> <li>Q Yesterday you recall also talking about whether or not certain references talk about or disclose how to assemble them?</li> <li>A I recall that.</li> <li>Q What's the relevance of that if any?</li> <li>MS. NATH: I'm going to object to the</li> </ul>
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9 10 11 12 13 14 15 16 17 18 19	<ul> <li>Q 198 is referenced strike that. If you could turn your attention to</li> <li>column 5.</li> <li>A Yes.</li> <li>Q The paragraph starting at Line 34.</li> <li>A I see it.</li> <li>Q Just review that for me.</li> <li>A Okay.</li> <li>Q What is 198?</li> <li>A 198 is the solenoid stop. So that's on</li> </ul>	9 10 11 12 13 14 15 16 17 18 19	<ul> <li>Q Yesterday you recall also talking about whether or not certain references talk about or disclose how to assemble them?</li> <li>A I recall that.</li> <li>Q What's the relevance of that if any?</li> <li>MS. NATH: I'm going to object to the characterization of the question, calls for a legal conclusion. Sorry.</li> <li>BY THE WITNESS:</li> <li>A So as an engineer when I look at a patent, the patent needs to teach how it works, otherwise, it's</li> </ul>
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9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q 198 is referenced strike that. If you could turn your attention to</li> <li>column 5.</li> <li>A Yes.</li> <li>Q The paragraph starting at Line 34.</li> <li>A I see it.</li> <li>Q Just review that for me.</li> <li>A Okay.</li> <li>Q What is 198?</li> <li>A 198 is the solenoid stop. So that's on</li> <li>about Line 39.</li> <li>Q Do you see that in Figure 4? Do you see</li> <li>198 in Figure 4?</li> </ul>	9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q Yesterday you recall also talking about whether or not certain references talk about or disclose how to assemble them?</li> <li>A I recall that.</li> <li>Q What's the relevance of that if any?</li> <li>MS. NATH: I'm going to object to the characterization of the question, calls for a legal conclusion. Sorry.</li> <li>BY THE WITNESS:</li> <li>A So as an engineer when I look at a patent, the patent needs to teach how it works, otherwise, it's not doing what it's supposed to do and what you have in the patent is you have the images that show you how to how the parts are laid out and as an engineer</li> </ul>
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q 198 is referenced strike that. If you could turn your attention to</li> <li>column 5.</li> <li>A Yes.</li> <li>Q The paragraph starting at Line 34.</li> <li>A I see it.</li> <li>Q Just review that for me.</li> <li>A Okay.</li> <li>Q What is 198?</li> <li>A 198 is the solenoid stop. So that's on</li> <li>about Line 39.</li> <li>Q Do you see that in Figure 4? Do you see</li> <li>198 in Figure 4?</li> <li>A I see that in Figure 4 but it does not</li> </ul>	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q Yesterday you recall also talking about whether or not certain references talk about or disclose how to assemble them?</li> <li>A I recall that.</li> <li>Q What's the relevance of that if any?</li> <li>MS. NATH: I'm going to object to the characterization of the question, calls for a legal conclusion. Sorry.</li> <li>BY THE WITNESS:</li> <li>A So as an engineer when I look at a patent, the patent needs to teach how it works, otherwise, it's not doing what it's supposed to do and what you have in the patent is you have the images that show you how to how the parts are laid out and as an engineer usually those drawings are good enough to illustrate</li> </ul>
9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q 198 is referenced strike that. If you could turn your attention to</li> <li>column 5.</li> <li>A Yes.</li> <li>Q The paragraph starting at Line 34.</li> <li>A I see it.</li> <li>Q Just review that for me.</li> <li>A Okay.</li> <li>Q What is 198?</li> <li>A 198 is the solenoid stop. So that's on</li> <li>about Line 39.</li> <li>Q Do you see that in Figure 4? Do you see</li> <li>198 in Figure 4?</li> </ul>	9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q Yesterday you recall also talking about whether or not certain references talk about or disclose how to assemble them?</li> <li>A I recall that.</li> <li>Q What's the relevance of that if any?</li> <li>MS. NATH: I'm going to object to the characterization of the question, calls for a legal conclusion. Sorry.</li> <li>BY THE WITNESS:</li> <li>A So as an engineer when I look at a patent, the patent needs to teach how it works, otherwise, it's not doing what it's supposed to do and what you have in the patent is you have the images that show you how to how the parts are laid out and as an engineer</li> </ul>

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