

Transcript of William C. Messner, Ph.D., Volume 2

Date: December 12, 2019

Case: American National Manufacturing Inc. -v- Sleep Number Corporation, et al. (PTAB)

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WORLDWIDE COURT REPORTING & LITIGATION TECHNOLOGY



307			309
UNITED STATES PATENT AND TRADEMARK OFFICE	1	APPEARANCES	
BEFORE THE PATENT TRIAL AND APPEAL BOARD	2		
	3	REPRESENTING THE PETITIONER:	
AMERICAN NATIONAL IPR2019-00497	4	Mr. Kyle L. Elliott	
MANUFACTURING INC., U.S. PATENT 8,769,747	5	Attorney at Law	
Petitioner,	6	Mr. Kevin S. Tuttle	
v.	7	Attorney at Law	
SLEEP NUMBER CORPORATION IPR2019-00500	8	Spencer Fane LLP	
f/k/a SELECT COMFORT U.S. PATENT 9,737,154	9	1000 Walnut Street, Suite 1400	
CORPORATION,	10	Kansas City, MO 64106-2140	
Patent Owner.	11	kelliott@spencerfane.com	
	12	ktuttle@spencerfane.com	
VOLUME II VIDEOTAPED DEPOSITION OF	13		
WILLIAM C. MESSNER, Ph.D.	14	REPRESENTING THE PATENT OWNER:	
MINNEAPOLIS, MINNESOTA	15	Mr. Luke Toft	
THURSDAY, DECEMBER 12, 2019	16	Attorney at Law	
9:13 A.M.	17	Fox Rothschild LLP	
	18	222 South Ninth Street, Suite 2000	
	19	Minneapolis, MN 55402	
JOB NO.: 275001	20	ltoft@foxrothschild.com	
PAGES: 307 - 436	21		
REPORTED BY: PATRICK J. MAHON, RMR, CRR	22	ALSO PRESENT: Jacob Arvold, Videographer	
308 DEPOSITION OF WILLIAM C. MESSNER, Ph.D.,	1	INDEX	310
HELD AT THE OFFICES OF:	2		
	3	EXAMINATION:	
	4	BY MR. ELLIOTT - PAGES 314 and 419	
FOX ROTHSCHILD LLP	5	BY MR. TOFT - PAGE 380	
222 SOUTH NINTH STREET	6		
MINNEAPOLIS, MINNESOTA 55402-3338	7	NUMBER/DESCRIPTION PAGE	
	8	Exhibit 16	
	9	email correspondence	
	10	ANMI00178036 - 178041	
	11		
	12	EXHIBITS REFERRED TO:	
Pursuant to Notice, before Patrick J.	13	NUMBER/DESCRIPTION PAGE	
Mahon, Notary Public in and for the County of	14	Exhibit 1	
Hennepin, State of Minnesota.	15	Declaration of Dr. William	
	16	C. Messner In Support Of	
	17	Patent Owner's Response on	
	18	Patent '154 and CV	
	19	(170 pages)	
	20		
* * * *	21		
	BEFORE THE PATENT TRIAL AND APPEAL BOARD	BEFORE THE PATENT TRIAL AND APPEAL BOARD	### REPORT THE PATENT TRIAL AND APPEAL BDARD

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l	-	Conducted on De	313
1	EXHIBITS REFERRED TO, continued:		1 PROCEEDINGS
2			2 WHEREUPON, the following proceedings were
3	EXHIBIT/DESCRIPTION P	AGE	3 duly had:
4	Exhibit 2 4	13	4 THE VIDEOGRAPHER: Here begins disk number
5	Declaration of Dr. William		
6	C. Messner In Support Of		1 - 1
7	Patent Owner's Response on		6 Dr. William C. Messner in the matter of American
8	Patent '747 and CV		7 National Manufacturing Inc. versus Sleep Number
9	(170 pages)		8 Corporation, before the Patent Trial and Appeal
10	Exhibit 4 4	12	9 Board, United States Patent and Trademark Office,
11	Patent 3,068,494		10 Case Nos. IPR2019-00497 and IPR2019-00500.
12	(3 pages)		Today's date is December 12th, 2019. The
13	Exhibit 7 3	39	12 time on the video monitor is 9:13 a.m.
14	Patent No.: US 8,769,747 B2,		The videographer today is Jacob Arvold,
15	Mahoney et al.		14 representing Planet Depos.
16	(16 pages)		This video deposition is taking place at
17	Exhibit 8	39	16 222 South 9th Street, Suite 2000, Minneapolis,
18	Patent Number: 5,629,873,		17 Minnesota.
19	Mittal et al.		18 Will counsel voice identify themselves and
20	(29 pages)		19 state whom they represent.
21			
22	(continued.		20 MR. ELLIOTT: Kyle Elliott with Spencer
			21 Fane, representing American National, Petitioner.
			22 And with me today also, and yesterday as well, is
		312	314
1	EXHIBITS REFERRED TO, continued:		1 Mr. Kevin Tuttle, also with Spencer Fane,
2			2 representing American National.
3		AGE	3 MR. TOFT: Luke Toft, representing Sleep
4		82	4 Number Corporation, with Fox Rothschild.
5	Patent Number: 5,277,187,		- THE LUDECOD ADDIED TO
	Pillsbury		5 THE VIDEOGRAPHER: The court reporter
6	(22)		6 today is Patrick Mahon, representing Planet Depos.
7	(23 pages)	24	
6 7 8	Exhibit 10	24	6 today is Patrick Mahon, representing Planet Depos.
7 8 9	Exhibit 10	24	 6 today is Patrick Mahon, representing Planet Depos. 7 And we may proceed. 8 WILLIAM C. MESSNER, Ph.D.,
7 8 9 10	Exhibit 10	24	 6 today is Patrick Mahon, representing Planet Depos. 7 And we may proceed. 8 WILLIAM C. MESSNER, Ph.D., 9 a witness in the above-entitled proceedings, after
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1 A Nothing of substance regarding the	1 sorry, measuring the temperature usually at one			
2 testimony.	2 location in a room.			
3 Q Nothing regarding the testimony?	3 Q And are the offsets used by the '154 and			
4 A Nothing, uh-huh.	4 '747 patents a way of compensating for error in			
5 Q Okay. Any conversations with anyone else	5 that system?			
6 regarding the testimony?	6 A So when you refer to the offsets, are you			
7 A No.	7 referring to the adjustment?			
8 Q Okay. I'll try and kind of pick up	8 Q Yeah, I think yesterday, definitionally,			
9 suddenly where we left off. And if we need to, I	9 we defined the offset as when you use the additive			
10 can go back into some foundational stuff.	10 slash subtractive			
11 A Sure. Uh-huh.	11 A Right.			
12 Q So does error exist in every system?	12 Q adjustment factor; is that correct?			
13 A Does air exist?	13 A That's right.			
14 MR. TOFT: Object to form.	14 Q Okay. So is that offset used by the '154			
15 BY MR. ELLIOTT:	15 and '747 patent a way of compensating for error in			
16 Q Yeah, e-r-r-o-r?	16 that system?			
17 A Oh, error.	17 A Yes, it is.			
18 Q Error.	18 Q Okay. And are offsets used in other			
19 A Error. I'm sorry.	19 systems to compensate for error?			
20 MR. TOFT: Oh.	20 A Yes.			
21 A Got it.	21 Q Were they used in 2006 in other systems to			
22 BY MR. ELLIOTT:	22 compensate for error?			
316	318			
1 Q Yeah. I knew there would be something	1 A Yes.			
2 foundational when you start off that lovely.	2 Q And is Mittal one example of using offsets			
3 Sorry, let me start over again.	3 for correction of error?			
4 A Yes.	4 A Yes.			
5 Q Does error, e-r-r-o-r, exist in almost	5 Q Now, you mentioned in your example of			
6 every system?	6 temperature, you talked about deviation?			
7 A I mean, depends on what you mean by	7 A Yes.			
8 "error." I mean, so to the extent that a	8 Q Could deviation be defined as a band?			
9 dimension or a value is not exactly the same as	9 A So I would say it this way: Deviation			
10 some desired value, yeah, sure.	10 might fall within a band. I wouldn't say			
11 Q And do you typically work as, you know,	11 deviation is a band.			
12 engineers, problem solvers to try and compensate	12 Q Okay.			
13 for the error in the system?	13 A I wouldn't use that term.			
14 A Certainly. I mean, sometimes some error	14 Q Okay. So deviation would typically be			
15 is acceptable. I mean, when we think about	15 expressed in the context of error as a plus or			
16 engineering drawings and the like, there's	16 minus; is that a fair statement?			
17 tolerances. Same thing in, you know, temperatures	17 A That's usually the way it's – if it's a			
18 in a room, we allow for some small amount of	18 single quantity, yes. I mean, if you're talking			
19 deviation from a desired temperature. And even	19 about falling within a certain, say, position,			
20 within, say, let's again think about temperature,	20 landing a probe on another planet, when we talk			
21 then the temperature in a room is not the same	21 about a landing ellipse, in that case it's not a			
22 everywhere. So you're only measuring the pressure	22 single number. They look at an acceptable range,			

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1 an acceptable area in which they can drop the	1 would an absolute value defining around a target,	
1 an acceptable area in which they can drop the 2 Q So the bands of Mittal, they give a	would an absolute value defining around a target, would that be a range or a band?	
3 pressure range; correct?	3 MR. TOFT: Object to form.	
4 A Yes.	4 A So when you say "an absolute value," you	
5 Q Okay. And do the '747 and '154 patents	5 mean that a quantity minus another quantity falls	
6 anywhere disclose a band or a range of pressures?	6 within – the absolute value of the difference	
7 MR. TOFT: Object to form.	7 between two quantities is a number?	
8 A I'm not sure. I'd like to take a moment	8 BY MR. ELLIOTT:	
9 to	9 Q Well, let me introduce a different term.	
10 BY MR. ELLIOTT:	10 A Okay.	
11 Q Let me direct you to Exhibit Number 7.	11 Q Let's start with, I think, one that's a	
12 That's the '747 patent.	12 little easier to deal with and that's tolerances?	
13 A Yes.	13 A Yes.	
14 Q You can look at that one.	14 Q Okay. So tolerances are typically	
15 A Okay.	15 expressed as a plus or minus; correct?	
16 Q You had indicated yesterday that the	16 A Not necessarily.	
17 specifications are identical between the two; is	17 Q Okay.	
18 that correct?	18 A So tolerances in drawings are often	
19 A They are, except for some line numbers and	19 plus-minus, say, a number, but frequently they're	
20 column numbers, as you pointed out.	20 plus something, minus another number, or even	
21 Q Okay.	21 zero. So you have to be at least this big or no	
22 A Yeah. Okay. Oh, you were directing me to	22 bigger than this (motioning). Again, it's for	
320	322	
1 this. Did you want me to —	1 making sure that things fit within each other.	
2 Q Yeah. So the question I'm asking is, do	2 Q All right. Okay. Fair. Could I use an	
3 the '747 and '154 patents anywhere disclose a	3 absolute value to express that type of tolerance?	
4 range or a band of pressures?	4 A You mean the plus-minus kind? I'd say	
5 MR. TOFT: Same objection.	5 potentially. It depends on how it's worded, yes.	
6 MR. ELLIOTT: And I'm sorry, the objection	6 Q Okay. And if I'm using the plus-minus as	
7 was?	7 a tolerance, would that be considered a range?	
8 MR. TOFT: Compound.	8 A I think one would be able to translate the	
9 MR. ELLIOTT: Okay.	9 plus-minus into a range.	
10 A I don't recall them using the specific	10 Q And would that range also then be a band,	
11 word "band." The closest one would potentially	11 in terms of temperature, for example?	
12 Let me restate that.	12 A Could be. I'd have to look at the exact	
So the '747 and the '154 specifications	13 circumstances.	
14 and the claims, as I recall, refer to	14 Q Okay.	
15 "substantially equal." So substantially equal	15 A Yeah, yeah.	
16 indicates not exactly equal potentially. So in	16 Q So let me direct your attention to the	
17 that sense, there may be a band, but nothing is	17 '747 patent. The relevant portion really starts	
18 specified in terms of what's the lower bound and	18 on column 7, line 51, and carries over to column	
19 what's the upper bound.	19 8. But the specific language that I think will be	
AADVAND ELLIOTT.	20 - 6 interest been in in a share 0 line 1 - 1 2	

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20 of interest here is in column 8, lines 1 and 2.

21 Take a moment to take a look at that, if you

22 would, please, Dr. Messner.

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20 BY MR. ELLIOTT:

21 Q If I do an absolute value of something to

22 define a range or a band, would that be -- well,

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