FORD MOTOR COMPANY v. PAICE L.L.C., ET AL. NEIL HANNEMANN (875)

April 30, 2015

Prepared for you by



Bingham Farms/Southfield • Grand Rapids
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	Page 1	Τ	Page 3
1	UNITED STATES PATENT AND TRADEMARK OFFICE		-
2	BEFORE THE PATENT TRIAL AND APPEAL BOARD	1 2	
3	X	3	
4	FORD MOTOR COMPANY, :	$\frac{3}{4}$, ,
5	Petitioner, :	5	· -
6	vs. : IPR2014-00875	6	•
7	PAICE LLC & ABELL FOUNDATION, :	7	2000 101111 0011101
8	INC., :	8	
9	Patent Owner. :	9	
10		10	(= 10) 555 1165
11	^	11	
12		$\frac{1}{12}$	
13	Deposition of NETL HANNEMANN	13	- /
14	Deposition of NEIL HANNEMANN Washington, DC	14	
15	Thursday, April 30, 2015	15	04.10 2000
16	9:53 a.m.	- 1	
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22		¹ 22	
23	Job No.: 78417	23	
24	Pages: 1 - 113	24	J . ,
25	Reported by: Janet A. Hamilton, RDR	25	(===) : == ====
	Page 2		Page 4
1	Deposition of NEIL HANNEMANN, held at the		CONTENTS
2	office of:	2	
3	office of	3	
4		4	, 3
5	Fish & Richardson, PC	5	
6	1425 K Street, NW	6	
7	11th Floor	7	
8	Washington, DC 20005	8	. ,
9	(202) 783-5070	9	
10	(202) 703 3070	10	
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19	Pursuant to Notice, before Janet A. Hamilton,	19	
20	Registered Diplomate Reporter and Notary Public in and	20	,
21	for the District of Columbia.	21	
22	ior the pistrict or columbia.	22	•
23		23	
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25		25	Kawakatsu

	Page 5		Page 7
1	PROCEEDINGS	1	MR. LIVEDALEN: Guarnieri.
2		2	A Pete Guarnieri. The primary ones, and Linda
3	(Hannemann Deposition Exhibit No. 1 and	3	Kordziel was also in the meetings at times.
4	Exhibit No. 2 were pre-marked for identification and	4	Q Anyone else that you can think of?
5	are attached to the transcript.)	5	A No. That was it.
6	NEIL HANNEMANN,	6	Q Or is there anyone else who you can't
7	a witness herein, being duly sworn, testified as	7	remember their name?
8	follows:	8	A No. It was really the, just the three
9	EXAMINATION BY COUNSEL FOR THE PETITIONER	9	people.
10		10	Q Did you review any documents in these
11	2.1	11	meetings?
12	Q cocaog.	12	A Yes, we did.
13		13	Q Did any of them refresh your recollection on
13 14	Q Troute you proude state your rain name to	14	
		15	anything?
15		l .	A Well, I guess every time I review a document
16	Q and your or personnel analogue	16	it's refreshing my memory, so I would say yes.
17		17	Q What documents did you review?
18	450.	18	A They were all either the, my declaration,
19		19	the patents at issue or the prior art references.
20	£ 53.5.	20	Q So basically the declaration and the things
21	,,	21	you cite in the declaration?
22	£, , , ,	22	A Yes.
23	and a second and a second and a second	23	Q Anything else?
24		24	A No. I think that was pretty much it.
25	Q Any has your experience changed in any	25	Q The court reporter's marked as Exhibit 1
	Page 6		Page 8
1	way relevant to these proceedings since your	1	well, she's marked two exhibits, Exhibit 1 and Exhibit
2	depositions a couple of weeks ago?	2	2.
3	A You mean experiences I may have had between	3	A Okay.
4	the two depositions. Is that what your, like work I	4	Q Can you please tell us what is Exhibit 1?
5	may have done between depositions?	5	A Well, Exhibit 1 is my declaration and
6	Q That would be one example.	6	IPR2014-00875 relating to patent 7,559,388, and
7	A Yeah. In that example, no, I haven't done	7	Exhibit 2 is a copy of the patent 7,559,388.
8	anything relevant between the depositions.	8	Q How much time did you spend preparing
9	Q Has it changed in some other way?	9	Exhibit 1?
10		10	A Um, boy, I don't really recall. It was back
11		11	in probably March or February.
12	, 3	12	Q Did you work with Fish & Richardson
13	•	13	attorneys in preparing Exhibit 1?
14	, , , , ,	14	A Yes, I did.
15	•	15	Q Would you turn to page 13, paragraph 35.
16		16	A Okay.
		17	Q Can you read into the record, the sentence
18		18	starts on line 7 says "as noted in the '388 patent"?
	•	19	A Just the first, that sentence?
20		20	·
	C,	l .	Q Just that sentence, yeah.
		21	A Yeah. "As noted in the '388 patent, these
22		22	prior systems fail to understand that the vehicle
23		23	operational mode should preferably be controlled in
24		24	response to the vehicle's actual torque requirements,
25	always get this pronunciation wrong.	25	i.e., the road load, which provides superior



Page 9 Page 11 1 performance in terms of both vehicle response to 1 of using a road load -- strike that. Are you offering operator commands and dual efficiency under the widely 2 an opinion on the benefits of using road load to 3 varying conditions encountered in the real world 3 select vehicle mode? 4 4 driving situations." A Not what's beyond stated in the patent, no. 5 5 Q That statement that you quote about superior Q Well, what's -- what's stated in the patent? 6 performance, do you have any basis to support that 6 A Well, it's the -- what I cite is column 13, 7 lines 33 and 49 in the patent. 8 A I don't have any test data, but the '388 Q So are you offering an opinion that the road 9 9 patent is based on a, a, you know, a road load basedload -- strike that. Are you offering an opinion that L 0 system and the others aren't, and I guess, you know, 10 using road load to select vehicle mode provides 11 that, you know, particular element could give superior 11 benefits? 12 performance. h 2. MR. LIVEDALEN: Objection. Asked --13 Q Are you offering an opinion that a road Q Or are you just quoting the patent? 14 MR. LIVEDALEN: Objection. Vague. Asked load-based system provides superior performance to h 4 15 other systems? 15 and answered. 16 A The -- I believe the patent gives that, that 16 A Well, I am -- this is my analysis of the 17 17 statement, that's -patent, and that's a statement the patent makes, and I 18 Q Are you, Mr. Hannemann, offering an opinion 18 don't have any reason to disagree with that statement. 19 that a road load-based system offers superior Q Do you have any reason to agree with it? 20 performance to other systems? b.0 A Well, I -- I do agree with it, yes. 21 A I would just defer to any statements about 21 Q Why? What basis do you have for agreeing 22 that that are in the patent. 2 23 Q Do you have any opinion that a road b.3 A Well, it's just discussing some general 24 load-based system provides superior performance to concepts that someone of skill in the art would 25 understand are technically correct. other systems? Page 10 Page 12 1 MR. LIVEDALEN: Asked and answered. 1 Q Where does it discuss -- are you talking 2 A Yeah. That's not -- that's not something I 2 about column 13, lines 33 to 49, the ones you cite? A Yes. 3 analyzed. I -- I'm just going off material in the 3 4 patent. 4 Q Have you done any test data to address 5 5 Q Can you provide any support for the whether those statements are correct or not? 6 statement that a road load-based system provides 6 A I haven't done any testing, no. superior performance to other systems other than just 7 Q Yeah, that was a bad question. The question 8 quoting the '388 patent? 8 is, have you done any testing to address whether those 9 A I would say the '388 patent is sufficient 9 statements in the patent are correct? 10 for that. 0 A Correct. I have -- I've not done any 1 1 Q You can't cite anything else that supports 1 1 12 that statement; correct? 12 Q Have you done any independent analysis to 13 A Well, I haven't, like I say, I haven't 13 determine whether those statements in the patent are 14 analyzed that as part of this case. So I haven't done . 4 15 the research to go cite a different reference other . 5 A No. My -- my work here was to respond to 16 than what I've looked at for this case. . 6 the declaration of either Dr. Stein or Davis. So I 17 Q Further down, can you read the next sentence didn't do any independent work. 18 into the record, please? Starts with "additionally." 18 Q Likewise, when you talk about prior art 19 A "Additionally this failure to recognize 19 systems incorrectly sizing system components, do you 20 benefits of using road load to select vehicle mode 2.0 have any support for that statement other than the 21 also led prior art systems to incorrectly cite other Þ. 1 patent? 2.2 system components such as the battery and motors which 22 A I'm basing that statement on the patent. 23 similarly resulted in operating the engine under less 23 Q And you have no other support; correct? 24 efficient conditions." 24 A Correct. Q Are you offering an opinion on the benefits 25 Q So for all these statements about the '388



Page 13 Page 15 patent being superior to other modes or providing nonlinear, the engine output torque threshold will be benefits, you rely solely on the '388 patent for those 2 3 3 MR. LIVEDALEN: Objection. Mischaracterizes statements; correct? 4 A Well, I wouldn't say all the other comments, 4 previous testimony. 5 but if they're all in the same section, it's my A Well, the patent does state that it's 6 6 limited to a threshold, and so it wouldn't exceed the analysis of the patent, so it's based strictly on the 7 threshold, but it may be possible that it's lower than 8 the threshold. Q Could you turn to page 16, paragraph 40. 9 9 Q What is the "it" in your last answer? A Okay. 0 10 A The engine torque output. Q Do you see it? 11 Q In the portion of the graph where you have 1 A Yes. 2 Q There's a portion of a dashed line that's 12 the cross-hatching, is the engine torque output box . 3 labeled engine torque output. Do you see that? pointing to a section of a line where the engine 4 torque output is limited to a threshold? . 5 Q And did you add some cross-hatching between A In this part of the graph, yes, that's --6 the engine torque output and the road load? that is the threshold limit. 7 Q What does figure 7C show in paragraph 40 of A Yeah. That's not in the original graph. 8 Q Why did you add that cross section? 18 your declaration? 9 A Well, that's the, the difference in, you A So figure 7, there's a general description 2 0 20 in the patent of what figure 7 is which states figure know, a limited torque output and the road load. 21 Q The line for engine torque output that's 21 7 comprising figures 7A through C and extending over 22 22 two sheets is a timing diagram showing road load, being pointed to, and that's at the bottom of your 23 cross-hatching; right? b.3 engine torque output, the state of charge the battery 2.4 A Yes. bank and engine operations as functions of time, thus 2.5 illustrating a typical control strategy employed Q Is that a linear -- is that line generally Page 14 linear? during low speed city driving, highway cruising and 2 2 MR. LIVEDALEN: Objection. Vague. extended high load driving. 3 Q What is 7C? A It is shown in this graph as linear. I 3 would -- based on the, what I understand of the 4 A Well, this general description I just read 5 5 control strategy in the patent, I don't think it describes A through C. necessarily has to be linear. 6 Q You cannot elaborate on that? 7 Q Why is that? 7 A Well, let me see if the patent elaborates on 8 A I think that the patent which is determining 8 it anywhere. 9 the road load, if the amount of road load changes 9 Q Can you elaborate on it separate from 0 during a certain time period, then it may change its 10 looking at the patent? . 1 control strategy. The control strategy may change the 11 Mr. Hannemann, did you hear my question? 12 engine output torque. A Yeah and --13 Q Can you give me an example what you're ΙЗ. Q The question was, can you elaborate on 4 talking about in connection with this portion of the 14 figure 7C separate from reading what the patent says . 5 curve that where you've got the cross-hatching? 15 about it? 6 A Well, if -- I mean you can see in what's 16 A And, no, I'd rather read from the patent, 17 referenced as area F that's near the top portion of so, for accuracy. 18 that what appears to be a straight line does turn into 18 Q Does figure 7C mean anything to you separate 19 a curve line. So if that, that kind of curve 19 from reading the patent? 20 20 character, you know, of the, of the road load were in A Well, I -- I think that it's most accurate 21 a mode similar to the mode that's referred to in the 21 to refer to the patent for that reference. 22 cross-hatched area, then it's possible the engine 22 Q That wasn't my question. I can read the 23 output torque could also not follow the linear 23 patent. I can't go into your brain. What does figure 24 characteristic that it has here. b 4 7C mean to you? Q So you're saying that if the road load is 2.5 MR. LIVEDALEN: Objection. Asked and



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