In The Matter Of:

Taiwan Semiconductor Manufacturing Co., Ltd. v. Godo Kaisha IP Bridge 1

Dr. Stanley R. Shanfield Vol. I March 27, 2018

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IP Bridge Exhibit 2209



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1 2	VOLUME: I PAGES: 1-186 EXHIBITS: 0	1	APPEARANCES: (CONT'D)	
3	UNITED STATES PATENT AND TRADEMARK OFFICE	2		
4	BEFORE THE PATENT TRIAL AND APPEAL BOARD	3		
5	CASE NO. IPR2017-01841	4	WOLF GREENFIELD & SACKS,	P.C.
6	PATENT 7,893,501	5	BY: Joshua J. Miller, Esq.	
7	FAIBNI 7,055,501	6	-and-	
8	TAIWAN SEMICONDUCTOR MANUFACTURING)	7	Richard F. Giunta, Esq.	
9	,	8	600 Atlantic Avenue	
10	CO., LTD,) Petitioner,)	9	Boston, MA 02210-2206	
11	vs.)	10	617 646-8000	
12	GODO KAISHA IP BRIDGE 1,)	11	Jmiller@wolfgreenfield.com	
13	Patent Owner.	12	Rgiunta@wolfgreenfield.com	
14	ratent Owner.	13	For the Patent Owner	
15	DEPOSITION OF STANLEY R.	14		
15 16	SHANFIELD, PhD, called as a witness by and on	15		
10 17	behalf of the Patent Owner, pursuant to the	16		
17 18	applicable provisions of the Federal Rules of Civil	17		
10 19	Procedure, before P. Jodi Ohnemus, RPR, RMR, CRR,	18 19		
20	CA-CSR #13192, NH-LSR #91, MA-CSR #123193, and	20		
21	Notary Public, within and for the Commonwealth of	21		
22	Massachusetts, at the offices of WilmerHale, 60	22		
23	State Street, Boston, Massachusetts, on Tuesday,	23		
24	March 27, 2018, commencing at 9:09 a.m.	24		
	nation 27, 2010, commencing at 5.05 a.m.			
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1	APPEARANCES:	1	INDEX	
2		2		
3	WILMER CUTLER PICKERING HALE	3	TESTIMONY OF:	PAGE
4	AND DORR LLP	4		
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6	-and-	6	(By Mr. Miller)	
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12 13 14 15 16 17 18	David.cavanaugh@wilmerhale.com -and- TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. BY: Willy Chang, Esq. 8, Li-Hsin Rd. 6 Hsinchu Science Park	12 13 14 15 16 17		
12 13 14 15 16 17 18 19	David.cavanaugh@wilmerhale.com -and- TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. BY: Willy Chang, Esq. 8, Li-Hsin Rd. 6 Hsinchu Science Park Hsinchu 30078, Taiwan	12 13 14 15 16 17 18		
12 13 14 15 16 17 18 19 20 21	David.cavanaugh@wilmerhale.com -and- TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. BY: Willy Chang, Esq. 8, Li-Hsin Rd. 6 Hsinchu Science Park Hsinchu 30078, Taiwan	12 13 14 15 16 17 18 19 20		
11 12 13 14 15 16 17 18 19 20 21 22 23	David.cavanaugh@wilmerhale.com -and- TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. BY: Willy Chang, Esq. 8, Li-Hsin Rd. 6 Hsinchu Science Park Hsinchu 30078, Taiwan	12 13 14 15 16 17 18 19 20 21		

	o Kaisha IP Bridge 1	Page 5		Page
1	EXHIBITS	9	_	•
2	EXHIBIT DESCRIPTION	PAGE	1	A. 342 Otis Street, Newton, Massachusetts.
3			2	Q. And your current employer?
4	Exhibit 1002 previously marked	12	3	A. Draper Laboratory.
5	Exhibit 1001 previously marked	21	4	Q. And what is your position?
6	Exhibit 1004 previously marked	95	5	A. I am distinguished member of technical staff.
7			6	
8			7	Q. And how long have you been at Draper Laboratories?
9			8	
10			9	A. Since 2003. So that would be about 15
11			10	years.
12			11	Q. And are you currently engaged in other
13			12	expert matters?
13 14			13	A. One other, yes.
15			14	Q. And just for the ground rules for today,
16			15	I'm sure you've been deposed before, but each time
			16	it's helpful to walk through them.
17			17	You understand that you are under oath?
18			18	A. Sure. Yes.
19			19	Q. And you understand that because this is a
20			20	question-answer format, any responses need to be
21			21	audible, and a head nod or a head shake is
22			22	insufficient.
23			23	A. I understand that, yes.
24			24	Q. All right. Thank you.
		Page 6		Page
1	STANLEY R. SHANFIELD, PhD, 1	naving	1	And even if Counsel objects, you still
2	satisfactorily been identified by	8	2	need to respond to the question, unless your
3	the production of a driver's license,		3	counsel is instructing you not to answer.
4	and being first duly sworn by the No	otarv	4	A. I understand that. Thank you.
5	Public, was examined and testified a	•	5	Q. And if at any point today if there if I
6	follows to interrogatories		6	ask a question and it's unclear, please help me
	BY MR. MILLER:		7	understand what the point of misunderstanding is,
8	Q. Good morning, Doctor Shanfield.		8	and we can fine tune the question so that we can
9	A. Good morning.		9	understand each other.
10	Q. Could you		10	A. Sure. Yes.
11	MR. SMITH: Real quick: I just w	anted to	11	Q. Have you ever been convicted of a crime?
12	note on the record Doctor Shanfield has		12	A. No.
13	copy of the '501 patent, TSMC 1001, as		13	Q. Have you ever been convicted of perjury?
14	copies of his declarations, and you guys		14	A. No.
15	welcome to flip through those if you'd lil		15	Q. Have any of your expert reports ever been
16	MR. MILLER: Okay. Thank you		16	excluded?
10 17	Q. Could you state your name for the		17	A. No.
17 18	please.	,	18	Q. So there's never been a report struck on
10 19	A. Stanley Shanfield.		19	Daubert grounds or anything like that?
19 20	Q. And could you spell your name, plo	2966	20	A. No, not to my knowledge.
20 21	A. Stanley, S-t-a-n-l-e-y, Shanfield,	case.	21	Q. And are you under the influence of any
21 22	S-h-a-n-f-i-e-l-d.		21	medication today or anything that would prevent you
	Q. Thank you.		23	from testifying fully and honestly?
23	What is your address?		24	A. No.
24	what is your address!		24	A. 11U.

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Page 9

- 1 Q. So today's deposition is going to cover
- 2 your declarations that were filed in the 1841,
- 3 1842, 1843, and 1844 proceedings.
- 4 Do you understand that?
- 5 A. Yes
- 6 Q. And do you understand that this deposition
- 7 is going to be used in both the 1841 and the 1843
- 8 proceedings?
- 9 A. Yes, I understand that.
- 10 Q. How many hours did you spend leading up to
- the filing of declarations in these matters?
- 12 A. I'd have to think through and look through
- my calendar to get a reasonable estimate, but it
- 14 was significant.
- Q. Is significant more than 100?
- 16 A. It's at least on that order of 100.
- 17 Q. More than 200?
- 18 A. Like I said, I -- to get any more accurate
- 19 than that, I'd -- I would need to look in my
- 20 calendar and add it up.
- Q. Was the time equally divided between the
- 22 841 and 842 petitions, versus the 843 and 844
- 23 petitions?

5

24 A. I -- once again, to really know if it was

- 1 person, but it was all mostly these two gentlemen
- 2 (indicating).
- 3 Q. Did you review any documents during the --
- 4 these preparatory sessions?
- 5 A. Yes
- 6 Q. And what documents did you review?
- 7 A. All the documents relevant to the case.
- 8 So everything I had originally looked at when I
- 9 wrote the declaration, and that's -- that's a lot
- 10 of -- a long list of documents.
- 11 Q. Did you look at any documents that were
- not filed in the IPRs?
- 13 A. In the last few days, or over the course
- 14 of the entire writing of my declaration?
- Q. Let's start with the writing of your
- 16 declaration.
- 17 A. Yes, I did.
- 18 Q. So there were documents that you reviewed
- .9 in drafting your declaration that were not filed
- 20 with your declaration.
- 21 A. To clarify: I looked through technical
- 22 data, patents, published papers, and I made
- 23 selections as to what to file from that.
 - So that's what I'm referring to.

Page 10

24

5

13

15

16

- equal, I'd have to check.
- 2 Q. How many hours did you spend preparing for
- 3 today's deposition?
- 4 A. Specifically for coming here?
 - Well, I guess I consider the writing my
- 6 declaration as part of that preparation. So, I
- 7 mean, it would be essentially the time I've spent
- 8 on the declaration.
- 9 Q. And since the declaration was filed --
- there is a moment in time when that was filed.
- 11 Since that time, has there been preparation in
- advance of this deposition today?
- 13 A. Yes.
- Q. And how much time was spent in that
- 15 preparation?
- 16 A. In terms of hours, probably 20 to 30. And
- that's just an estimate. Once again, I have
- 18 records of it, but I would need to check.
- 19 Q. Were there several meetings leading up to
- 20 this deposition?
- 21 A. I met with counsel, yes.
- Q. Was it anyone besides the counsel that's
- 23 here today?
- A. There were -- there was at least one other

- Q. And for today's -- for the preparation for
- 2 today's deposition, were there documents that were
- 3 not filed that you reviewed?
- 4 MR. SMITH: Objection.
 - A. I don't recall any. Doesn't mean -- it's
- 6 possible, but I don't recall any.
- 7 Q. Do you have a copy of your Exhibit 1002
- 8 declaration?
- 9 A. Yes.
- 10 Q. I'm actually thrown off my game. I've
- never had a witness come with their own exhibits
- 12 before.
 - You said you had a copy of the 1002
- 14 declaration?
 - A. Yes, I did.
 - Q. Could you turn to paragraph 16, please.
- 17 (Exhibit 1002, previously marked.)
- **MR. SMITH:** If -- Counsel, if you brought
- 19 copies, could I get a copy of that?
- MR. MILLER: Okay. I feel like there's a
- 21 joke in there about witness being ready and counsel
- 22 not.
- Q. Do you see paragraph 16?
- 24 A. Yes.



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- Q. It says that you were being compensated at 1
- your normal consulting rate; is that correct? 2
- A. Yes, that's correct. 3
- Q. What is your normal consulting rate? 4
- A. \$385 an hour. 5
- Q. Is that your normal consulting rate for 6
- expert witness work? 7
- A. Yes.
- Q. Is it the same rate for technical expert 9
- work? 10
- Let me clarify that question. 11
- If you're hired in the semiconductor field 12
- outside of the patent context or outside of a 13
- litigation matter, what is your consulting rate? 14
- A. It might be that rate. Sometimes it's a 15 16 different rate.
- Q. Is it a higher or lower rate? 17
- 18 A. Lower.
- Q. We're going to go a little backwards. 19
- 20 Do you see paragraph 15?
- 21
- Q. According to paragraph 15, you reviewed 22
- the file history of the '501 patent? 23
- A. (Witness reviews document.) Yes. 24

- Q. Do you remember reviewing a patent 1
- called -- with the -- excuse me. Let me rephrase.
- Do you remember reviewing a document -- or 3
- -- wow. I apologize. I'm tripping over my own 4
- 5

9

- Do you remember reviewing a patent with 6
- 7 the inventor Matsuda listed?
 - A. Well, it would help me if I had the
 - document in front of me of the history, and I can
- recall more clearly what I may have looked at. 10
- When a reference was mentioned, I 11
- typically at least take a look at it. And so 12
- depending on where that appeared and in what 13
- context in the document, I may have looked at it. 14
- Q. Did you review the institution decisions 15
- in these proceedings? 16
- A. I did. 17
- Q. Returning to Exhibit 100 -- your Exhibit 18
- 1002 declaration --19
- A. Uh-huh. 20
- Q. -- in paragraph 20, do you identify the --21
- what you used as the priority date for the claims 2.2
- of the '501 patent? 23
- A. Yes, I do identify it in paragraph 20. 24

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- Q. And what is that date? 1
 - MR. SMITH: Objection.
- A. So what I wrote in paragraph 20 is --3
- applied the date of June 16, 2003, which is the 4
- filing date of the foreign application. 5
- Q. So that is the date for the person of 6
- ordinary skill in the art that you applied in your 7
- analysis? 8
- 9 MR. SMITH: Objection.
 - A. Yes, that is. Yes.
- Q. Could you turn to paragraph 32 in your 11
- declaration, please. 12
- In paragraph 32 did you identify the 13
- qualifications of a person of ordinary skill in the 14
- art? 15
- A. Yes, I did. 16
- Q. And could you read that definition that 17
- 18
- A. What I wrote was "A person of ordinary 19
- 20 skill in the art at the time of the alleged
- invention of the '501 patent would have had the 21
- equivalent of a master's degree in electrical 22
- engineering, physics, chemistry, materials science, 23
- or equivalent training, and two years of work

2

10

- Q. Did you review the entirety of the file 1
- history, or just the portions that were filed as 2
- exhibits to your declarations? 3
- A. I don't actually recall. I think it was 4
- just what was listed as exhibits. 5
- Q. In the file history the examiner would 6
- occasionally identify what it -- what the examiner 7
- asserted were prior art references; correct? 8
- A. Yeah. Maybe if you want you could refer 9
- me to the document, and I'll -- I can comment on it 10
- probably more accurately. 11
- Q. We may get to that, but my -- my question 12
- is a little more focused on just simply what you 13
- reviewed --
- A. Uh-huh. 15
- Q. -- as you were preparing your 16
- declarations. 17
- Did you review the references that the 18
- examiner highlighted in the prosecution file 19
- 20 history?
- A. I reviewed the -- the file history itself. 21
- I don't recall -- it depends on which document 22
- you're referring to, but chances are I didn't go
- through every document that was referenced.



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