EXHIBIT 15

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UNITED STATES DISTRICT COURT DISTRICT OF MASSACHUSETTS SKYHOOK WIRELESS, INC., Weintiff, Weintiff, GOOGLE, INC., GOOGLE, INC., Counterclaim-Plaintiff, Vs. SKYHOOK WIRELESS, INC., Counterclaim-Defendant. VIDEOTAPED DEPOSITION OF ANTHONY S. ACAMPORA, Ph.D. San Diego, California Thursday, September 22, 2011 Volume 1 Reported by: Claire A. Wanner CSR No. 12965, RPR Job No. 172844	 APPEARANCES: For Plaintiff: Irell & Manella LLP BY: SAMUEL K. LU, ESQ. BY: LINA F. SOMAIT, ESQ. 1800 Avenue of the Stars, Suite 900 Los Angeles, California 90067 310.277.1010 For Defendant: Bingham McCutchen LLP BY: ROBERT C. BERTIN, ESQ. 2020 K Street NW Washington, DC 20006 2020 K Street NW Washington, DC 20006 Also Present: Daniel Payan, Videographer Mark Zavislak, Google Jennifer Polse, Google Mark Zavislak, Google Jennifer Polse, Google
1 UNITED STATES DISTRICT COURT 2 DISTRICT OF MASSACHUSETTS 3 SKYHOOK WIRELESS, INC., 4 Plaintiff, 5 vs. 6 GOOGLE, INC., 7 Defendant. 6 GOOGLE, INC., 9 Counterclaim-Plaintiff, 10 vs. 11 SKYHOOK WIRELESS, INC., 12 Counterclaim-Defendant. 13 Interclaim-Defendant. 14 Interclaim-Defendant. 15 Interclaim-Defendant. 14 Interclaim-Defendant. 15 Interclaim-Defendant. 16 Interclaim-Defendant. 17 Videotaped deposition of ANTHONY S. ACAMPORA, 18 Ph.D., Volume 1, taken on behalf of Plaintiff, at 19 402 West Broadway, Suite 900, San Diego, California, 20 beginning at 9:07 a.m., and ending at 5:41 p.m. on 21 Thursday, September 22, 2011, before Claire A. Wanner, 22 Certified Shorthand Reporter No. 12965, RPR.	 INDEX WITNESS: Anthony S. Acampora, Ph.D. EXAMINATION PAGE BY MR. LU 7 EXHIBITS MARKED FOR PLAINTIFF PAGE Exhibit 1 Document entitled "United States 8 Patent No.: US 7,414,988 B2" dated August 19, 2008; 20 pages Exhibit 2 Document entitled "United States 8 Patent No.: US 7,433,694 B2" dated October 7, 2008; 20 pages Exhibit 3 Document entitled "United States 8 Patent No.: US 7,305,245 B2" dated December 4, 2007; 20 pages Exhibit 4 Document entitled "United States 8 Patent No.: US 7,474,897 B2" dated January 6, 2009; 14 pages Exhibit 5 Document entitled "Declaration of 8 Anthony S. Acampora, PH.D." dated September 14, 2011; dated September 14, 2011;
23 25 Page 2	25 Page 4



1 2 3 4 5 6 7 8 9 10 11 2 3 4 	(Index Continued) Exhibit 8 Document entitled "Exhibit 7" 72 dated September 14, 2011; four pages		1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	assumed to be on the record and will be transcribed. Would counsel at this time please identify yourselves and state whom you represent. MR. LU: Samuel Lu of Irell & Manella for Skyhook Wireless. MS. SOMAIT: Lina Somait, Irell & Manella for Skyhook Wireless. MR. BERTIN: Robert Bertin with Bingham McCutchen for Google. MS. POLSE: Jennifer Polse of Google. MR. ZAVISLAK: And Mark Zavislak of Google. THE VIDEOGRAPHER: Thank you. At this time the court reporter may swear in the witness.
<u>щ</u> 5		6	.6	having been administered an oath, was examined and
16 17		þ	.7	testified as follows:
18		þ	.8	
19		þ	9	EXAMINATION
20		Þ	20	BY MR. LU:
21		Þ	21	Q. Good morning, Dr. Acampora.
22		2	22	A. Good morning.
23		2	23	MR. LU: Before we begin, I think I want to
24		2	24	take care of a little bit of housekeeping. I have some
25	Page	- F	25	exhibits that I'd like to mark.
	raye .	-		rage /
1 2	San Diego, California; Thursday, September 22, 2011 9:07 a.m 5:41 p.m.		1 2	Exhibit 1 will be U.S. Patent No. 7414988. (Exhibit 1 was marked.)
3			3	MR. LU: Exhibit No. 2 will be U.s. Patent No.
4	THE VIDEOGRAPHER: Good morning. Here begins		4	7433694.
5	Media No. 1 of the deposition of Anthony S. Acampora,		5	(Exhibit 2 was marked.)
0	Ph.D., in the matter of Skyhook Wireless, Incorporated,		6	MR. LU: Exhibit No. 3 will be U.S. Patent No.
0	This ages is in the United States District		/	/305245.
9	Court District of Massachusetts and the civil action		0 0	(EXHIDIL 5 WAS INAFKEU.) MD I II: Exhibit No. 4 will be U.S. Detent No.
10	number is 1:10-CV-11571-RWZ	4	0	7474807
11	Today's date September 22nd 2011 The time	ĥ	1	(Exhibit 1 was marked)
12	is 9:08 a.m. This deposition is taking place at	ĥ	2	MR I U: Exhibit No 5 will be a document
13	Sarnoff, 402 West Broadway, Suite 900, San Diego.	6	.3	entitled "Declaration of Anthony S Acampora Ph D "
14	California 92101. This deposition is taken on behalf	1	.4	(Exhibit 5 was marked)
15	of the plaintiffs. The videographer is Daniel Payan,	h	.5	MR. LU: And Exhibit 6 will be a document that
16	appearing on behalf of Sarnoff Court Reporters & Legal	h	.6	is labeled Exhibit 1, which I will represent to you is
17	Technologies, located in San Diego, California.	h	.7	an Exhibit 1 attached to the declaration of
18	All present, please take notice that as a part	þ	.8	Anthony S. Acampora, Ph.D.
19	of videotaping of this deposition, very sensitive	þ	.9	(Exhibit 6 was marked.)
20	high-quality microphones are being used. If anyone	þ	20	BY MR. LU:
21	present wishes to make a statement off the record, they	þ	21	Q. So Dr. Acampora, could you please state your
22	should state that they are going off the record and	þ	22	full name for the record?
23	gain concurrence from all parties. The videographer	Þ	23	A. Anthony Acampora.
24	will then stop recording. All recorded comments made	Þ	24	Q. And what is your present business address?
25	by anyone present during this deposition will be	Ę	25	A. I have two. I'm professor of electrical
	Page	6		Page 8



		1	
1	one of the defendants in one of these	1	A Under \$100,000
т 2	multiple defendant matters. Dut Lyses not analoged by	12	A. Under $$100,000$.
2	Coogle as peer as Leep recell, in any of these	2	Q. So please describe what you ve dolle since
د ۵	motters		you ve been retained by Mr. Dertin's Infin in connection
-	$\mathbf{O} \mathbf{S}_{0} \text{ in connection with this matter how much}$		MD DEDTIN: I'm just going to state on the
5	Q. So in connection with this matter, now much	5	MR. DERTIN: THI Just going to state on the
0 7	are you being paid? $A = \frac{6}{2} \frac{6}{2} \frac{6}{2} \frac{1}{2} 1$	0	record that Dr. Acampora is being offered as a witness
/ 0	A. 5000 an nour, which is my customary rate.	0	on claim construction.
0	Q. And to date now much have you billed?		MIK. LU: 50 Holed. THE WITNESS: I read the notants. I read the
9	A. Banpark estimate, about $$20,000$. That might	10	THE WITNESS: I read the patents. I read the
11	be a fittle bit on the high side, but that s that s	11	prosecution history. I had numerous telephone
12 12	O Okay Ballpark what percentage of your total	12	conversations with Mr. Dertin. I attended a
12	Q. Okay. Balipark, what percentage of your total	12	Ince-to-face meeting with Mil. Bertin and Mil. Lebal, and
14	uitness?	1.0	DV MD LU.
15	A Wall that's varied over the years. But if	1 5	BY MR. LU:
15	A. well, that's varied over the years. But if	16	Q. Okay. Did you speak to any individuals other
17	you re asking	17	Linan the employees at Google and the employees at
L / 1 O	Q. Presently. $(0, t_0, 70, p_{oregon}, t_0)$	10	bingham that you ve identified today in connection with
10	A presently, 60 to 70 percent.	10	
20	Q. And now much have you made over the past two	20	A. NO. O Did you do any prior art searches in
20	bellpork?	21	Q. Did you do any prior art searches in connection with your work on this matter?
21 22	A Wall I don't want to assume that you meen	22	A No
22	A. Well, I don't want to assume that you mean reid to my consulting company as opposed to reid to me	22	A. NO. O Did you look at any Google products or
23	in solary from my consulting company	23	Q. Did you look at any doogle products of
27 25	O Well how is your consulting company.	25	A No
20	Q. Wen, now is your consuming company Page 17	2.5	A. NO. Page 19
1	structured, first of all?	1	Q. Did you look at any Skyhook products or
2	A. It's a C corporation.	2	services in connection with your work on this matter?
3	Q. Okay. And who's the owner of the consulting	3	A. No.
4	company?	4	Q. Have you heard of the patent in suit prior to
5	A. My wife and I are co-owners.	5	your work on this matter?
6	Q. So let's break that question into two.	6	A. No.
7	How much money has your corporation received	7	Q. Had you heard of Skyhook Wireless prior to
8	in the past two years from expert consulting work that	8	your work on this matter?
9	you have done?	9	A. No.
10	A. Ballpark figure, it's probably been 1.5 to	10	Q. Had you were you aware of Google location
11	\$1.6 million.	11	services prior to your work on this matter?
12	Q. And that's for both	12	A. In passing, yes.
13	A. That's over a two-year period.	13	Q. And what do you mean by "in passing"?
14	Q over a two-year period?	14	A. Well, I know that they're as an example, on
15	A. Yes.	<u>1</u> 5	my iPhone I could or on my laptop I can certainly
16	Q. Okay. And how much have you been paid	<u>1</u> 6	go to Google map. But my awareness of any location
17	personally from your corporation for the work that	11 7	services that might be provided by Google are are
18	you've done on behalf of that corporation relating to	18	are are really not any deeper than that.
19	expert consulting work?	19	Q. Now, Dr. Acampora, I assume that you received
20	A. Okay. So I'm taking that question to mean,	20	a copy of a subpoena asking you to appear here today
21	what was I paid in salary from my corporation over the	21	tor the deposition, correct?
22	past two years. And it's probably in the range of	22	A. I was aware there was such a subpoena, and I
23	\$600,000.	23	actually saw that subpoena yesterday.
24	Q. How much has your wife been paid from the	24	Q. And were you did you see a second
45	corporation over the past two years?	25	subpoena or perhaps the same subpoena directed
	Page 18		Page 20



1	towards asking you to produce documents in connection	1	and let me know if there are any documents that you
2	with your expert declaration?	2	relied upon in connection with your expert report
3	A. I did yesterday. But I was informed	3	your expert declaration excuse me that are not
4	earlier I believe it was earlier this week that I	4	listed in this declaration.
5	was to produce all of the material I relied on, which I	5	A. I believe that the answer to your question is
6	did.	6	no. But to totally confirm that, I would need to look
7	Q. Okay. And what were the the materials that	7	at my own declaration to see if there's any and
8	you relied on, those were produced to Mr. Bertin?	8	and do some sort of a a cross check between what's
9	A. I believe so.	9	in my declaration and what's in Ms. Manning's
10	MR. LU: Okay. And Mr. Bertin, I just want a	10	declaration.
11	representation that all of materials that Dr. Acampora	11	Q. Okay. But sitting here right now, you not
12	relied upon were, in fact, produced to us as part of, I	12	aware of anything that's listed in that's listed in
13	guess, the declaration of Susan Baker Manning.	13	your expert report? Well, let me strike that question.
14	MR. BERTIN: Yes. That's that's correct.	14	So your expert report lists all of the
15	BY MR. LU:	15	materials that you relied upon in the preparation of
16	Q. Okay. Have you seen the declaration of	16	that expert report?
17	Susan Baker Manning?	17	A. I believe that's the case.
18	A. I did.	18	Q. Okay. And just to make things clear. since
19	Q. And were there any materials that you relied	19	both of us have been referring to your expert
20	upon that were not in the declaration of	20	declaration
21	Susan Baker Manning?	21	A. Declaration.
22	A. Oh, I would need to look at that declaration	22	O as an expert report. for the purposes of
23	to answer that question.	23	this deposition, if we refer to your expert report if
24	O. Sure. We'll pull that out.	24	will be understood that we're referring to your expert
25	Were there documents did you look at any of	25	declaration, Exhibit No. 5.
	Page 21	L	Page 23
1	the dictionary definitions that were provided by	1	A. That's fine.
1 2	the dictionary definitions that were provided by Skyhook as part of the claim construction process?	1 2	A. That's fine.Q. Okay. Did you review any legal cases in
1 2 3	the dictionary definitions that were provided bySkyhook as part of the claim construction process?A. Not that I can recall.	1 2 3	A. That's fine.Q. Okay. Did you review any legal cases in connection with the preparation of your expert
1 2 3 4	the dictionary definitions that were provided bySkyhook as part of the claim construction process?A. Not that I can recall.Q. Okay. So I'd like to have marked as	1 2 3 4	A. That's fine.Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration?
1 2 3 4 5	the dictionary definitions that were provided bySkyhook as part of the claim construction process?A. Not that I can recall.Q. Okay. So I'd like to have marked asExhibit No. 7 the declaration of Susan Baker Manning	1 2 3 4 5	A. That's fine.Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration?A. Any legal cases?
1 2 3 4 5 6	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure 	1 2 3 4 5 6	A. That's fine.Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration?A. Any legal cases?Q. Any case law?
1 2 3 4 5 6 7	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? 	1 2 3 4 5 6 7	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law?
1 2 3 4 5 6 7 8	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the 	1 2 3 4 5 6 7 8	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct.
1 2 3 4 5 6 7 8 9	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I 	1 2 3 4 5 6 7 8 9	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with
1 2 3 4 5 6 7 8 9 10	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I seen have I subsequently seen dictionary definitions 	1 2 4 5 6 7 8 9	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with regard to claim construction that reproduced in my
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1 2 3 4 5 6 7 8 9 10 11 12	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I seen have I subsequently seen dictionary definitions that were produced by Skyhook? Probably, because I did look at Skyhook's claim construction brief after it was 	1 2 3 4 5 6 7 8 9 10 11 12	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with regard to claim construction that reproduced in my declaration. And they may be referenced I I would need to double-check. There may be reference to
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$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\1\\1\\1\\2\\1\\4\end{array} $	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I seen have I subsequently seen dictionary definitions that were produced by Skyhook? Probably, because I did look at Skyhook's claim construction brief after it was filed. Q. But prior to the filing of your declaration, 	1 2 3 4 5 6 7 8 9 10 11 12 13 14	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with regard to claim construction that reproduced in my declaration. And they may be referenced I I would need to double-check. There may be reference to case law there. There may not be, but I was provided with instructions. I did not personally review any
$1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 0 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I seen have I subsequently seen dictionary definitions that were produced by Skyhook? Probably, because I did look at Skyhook's claim construction brief after it was filed. Q. But prior to the filing of your declaration, you did not review any of the dictionary definitions 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with regard to claim construction that reproduced in my declaration. And they may be referenced I I would need to double-check. There may be reference to case law there. There may not be, but I was provided with instructions. I did not personally review any case law
$1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 0 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 1 \\ 1 \\ 2 \\ 3 \\ 1 \\ 1 \\ 5 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I seen have I subsequently seen dictionary definitions that were produced by Skyhook? Probably, because I did look at Skyhook's claim construction brief after it was filed. Q. But prior to the filing of your declaration, you did not review any of the dictionary definitions 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with regard to claim construction that reproduced in my declaration. And they may be referenced I I would need to double-check. There may be reference to case law there. There may not be, but I was provided with instructions. I did not personally review any case law Q. Okay.
$\begin{array}{c}1\\2&3\\5&6\\7&8&9\\112&34\\15&12\\14&15\\17\end{array}$	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I seen have I subsequently seen dictionary definitions that were produced by Skyhook? Probably, because I did look at Skyhook's claim construction brief after it was filed. Q. But prior to the filing of your declaration, you did not review any of the dictionary definitions provided or produced by Skyhook in this litigation? A. That's correct. 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with regard to claim construction that reproduced in my declaration. And they may be referenced I I would need to double-check. There may be reference to case law there. There may not be, but I was provided with instructions. I did not personally review any case law Q. Okay. A with regard to the preparation of my
1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 1 5 6 7 1 1 1 1 1 1 1 1 1 1	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I seen have I subsequently seen dictionary definitions that were produced by Skyhook? Probably, because I did look at Skyhook's claim construction brief after it was filed. Q. But prior to the filing of your declaration, you did not review any of the dictionary definitions provided or produced by Skyhook in this litigation? A. That's correct. MR. LU: Do we have the exhibit stickies? 	1 2 3 4 5 6 7 8 9 10 11 2 3 4 15 16 17 8	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with regard to claim construction that reproduced in my declaration. And they may be referenced I I would need to double-check. There may be reference to case law there. There may not be, but I was provided with instructions. I did not personally review any case law Q. Okay. A with regard to the preparation of my declaration.
1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 1 1 1 2 3 4 5 1 1 1 1 1 1 1 1 1 1	 the dictionary definitions that were provided by Skyhook as part of the claim construction process? A. Not that I can recall. Q. Okay. So I'd like to have marked as Exhibit No. 7 the declaration of Susan Baker Manning A. Can I back up for a second just to be sure that I answered that previous question correctly? I'm assuming you mean as part of the preparation of my declaration? Answer: No. Have I seen have I subsequently seen dictionary definitions that were produced by Skyhook? Probably, because I did look at Skyhook's claim construction brief after it was filed. Q. But prior to the filing of your declaration, you did not review any of the dictionary definitions provided or produced by Skyhook in this litigation? A. That's correct. MR. LU: Do we have the exhibit stickies? There you go. 	1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 16 17 18 9	 A. That's fine. Q. Okay. Did you review any legal cases in connection with the preparation of your expert declaration? A. Any legal cases? Q. Any case law? A. Did I did I personally review case law? Q. Correct. A. No. I was provided with instructions with regard to claim construction that reproduced in my declaration. And they may be referenced I I would need to double-check. There may be reference to case law there. There may not be, but I was provided with instructions. I did not personally review any case law Q. Okay. A with regard to the preparation of my declaration. Q. So let's turn to your declaration for a
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1	A. Range might be one. Wireless local area	1	be acceptable. I would need to do something to fix
2	networks or the range on an access point was not	2	that.
3	necessarily intended to be beyond much beyond a few	3	Q. Okay. Any other differences between cellular
4	hundred feet, or cellular systems might have ranges	4	systems?
5	that well, they may be that small. Some base	5	A. Well, we can spend all afternoon or all
6	stations may have a range that extend to that may	6	morning and all afternoon talking about that, if you
7	extend to several miles. That's one type of	7	want. So how much detail do you want to get down to?
8	difference. They operate in accordance with different	8	Q. Well, what are the other major differences, in
9	standards. They use different parts of electromagnetic	9	your view?
10	spectrum. They use different modulation and coding	10	A. I already mentioned that they use different
11	techniques. They have different design objectives.	11	parts of the spectrum. They're deployed with different
12	Q. What do you mean by "different design	12	objectives in mind, different service quality
13	objectives"?	13	objectives, different modulation and coding techniques,
14	A. Availability, quality of service things of	14	different capacities.
15	this type.	15	How much more detail do you want to get into?
16	Q. What do you mean by "availability"?	16	I can take any one of these topics and take you down to
17	A. One of the issues that we face in wireless	17	the next plateau.
18	communications is the fact that the signal strength is	18	Q. Well, let's ask about some let's ask about
19	not constant. Signal strength can fluctuate for a	19	some differences that I had in mind.
20	variety of reasons. Line-of-sight blockage, multipath	20	Who controls the cell towers?
21	propagation, movement of client devices.	21	A. I'm not sure what you mean by "control."
22	Cellular systems, for the most part, are	22	Q. Well, when you when you install a cell
23	designed with a higher availability requirement than a	23	tower, who does the installation there?
24	wireless, local area network might be. Cellular	24	A. I'm still not quite sure what you mean.
25	systems are designed so that there's a certain quality	25	Q. If I'm if I've got a Verizon Verizon
	Page 37		Page 39
1	of service guarantee. As an example, for basic	1	phone, and I'm connecting to a Verizon a cell tower,
2	cellular telephony, there are two things that we need	2	who owns that cell tower?
3	to be concerned with. What is the likelihood that you	3	MR. BERTIN: Object to form.
4	try to place a cell call and the call doesn't go	4	THE WITNESS: Okay.
5	through because there wasn't a circuit available? And	5	BY MR. LU:
6	you need to be sure that the cellular system is	6	Q. Let me phrase
7	designed so that that does not happen more than some	7	A. I I
8	specified fraction of the time. You need to be sure	8	Q. Let me phrase it to you a little differently.
9	the call is not dropped because the user moves out of	9	So there's a cell tower infrastructure that a
10	range of coverage and can't be picked up by a	10	particular network provider creates, correct, or
11	surrounding cell tower. Or the signal might be	11	builds?
12	dropped blocked or dropped because the signal	12	A. I I think I understand what you're asking.
13	strength simply fades below some floor. You need to	13	I think the answer is yes, but why don't I let you go
14	guarantee a certain call-blocking rate for wireless	14	on to see where it's where it's going.
15	local area networks. These may or may not be design	15	Q. Okay.
16	criteria.	16	A. And if I need to correct what you said, I
17	Some wireless networks my at-home	17	will.
18	network I bought a wireless router, and I installed	18	Q. All right. So a particular network
19	it. And it's giving me pretty good service. I'm the	19	provider let's use Verizon as an example would
20	only one using it, but so I don't need to be worried	20	have a would have cell towers that it controls,
21	about the air link becoming clogged because there's too	21	correct?
22	much demand for a juice. I'm the only user. But in	22	A. I'm I'm I'm I I think the answer
23	terms of of coverage, parts of my house have great	23	to the question as you're as I'm interpreting
24	coverage, and other parts of my house where I have no	24	"control," I think the answer to the question is is
25	signal. In a cellular system, that would probably not	25	yes, but
	Page 38		Page 40



1		1	Δ Vos
2	A. NO. O Quick question Dr. Acampora, Can you read	2	A. 105. Ω And how that was not source code because it
2	Q. Quick question, DI. Acampora. Can you read	3	was in Basic or some other
л Л			A Vos I was it was in programming language
7± E	A. NO. O Company sumitor source and 2	1	A. Tes. I was it was in programming language,
5	Q. Can you write source code?		not source code, correct.
0	A. NO.	0	Q. Okay. Do you have any database programming
/	Q. Do you have any computer programming		experience?
0	experience?		A. I'm not sure what you mean by that. I've got
9	A. well, that's not a simple yes or no.	9	experience with databases.
	I certainly programmed in the past. My	10	Are you asking whether I've written source
	students all program, and I supervise their work. So I	11	code to create database or to operate a database? The
	guess the answer is, yes, I have had experience in	12	answer is no.
L3	writing programs in my past.	13	Q. Do you have any experience in programming
L4	Q. When you say in your past writing programs	14	servers?
L5	A. I I think that was your question.	15	A. Well, I'm going to ask you to clarify that
L6	Q. That was my question.	16	question. I'm not sure what you mean by "programming
L7	A. Yes.	17	servers." I gave you my programming experience before.
L8	Q. My my question is, when you say that you	18	If the computers upon which my programs
L9	have experience writing programs in the past, are you	19	execute are servers, then the answer to the question is
20	talking about putting hands fingers to keys on	20	yes.
21	keyboard, as you used that terminology previously	21	Q. Okay. But you have no experience writing
22	today?	22	source code that is used to operate a server?
23	A. I've done that.	23	A. That is correct.
24	Q. Okay. And how long ago was that?	24	Q. I'm going to put before you what I'm going to
25	A. Long time ago.	25	mark as Exhibit 8, which, to confuse things, is
	Page 6	9	Page /1
1	\mathbf{O} When you say long time ago, are we talking	1	Exhibit 7 from the declaration of Lina Somait in
1	Q. When you say long time ago, are we talking	1	Exhibit 7 from the declaration of Lina Somait in support of Skybook's claim construction brief
1 2 3	Q. When you say long time ago, are we talking '80s? '90s? '70s? Punch cards? MR_BERTIN: Object to form	1 2 3	Exhibit 7 from the declaration of Lina Somait in support of Skyhook's claim construction brief. (Exhibit 8 was marked)
1 2 3 4	Q. When you say long time ago, are we talking '80s? '90s? '70s? Punch cards? MR. BERTIN: Object to form. THE WITNESS: All of the above	1 2 3 4	Exhibit 7 from the declaration of Lina Somait in support of Skyhook's claim construction brief. (Exhibit 8 was marked.) BY MR J U:
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1	Second problem some neture is the Chinese	1	that romambar the number of driving in this
	Second problem, same nature, is the Uninese	1	deliberate feshion in the petert is to seen for WIFI
2	positian problem. Here, I ve got a graph defined by	2	access points, and I would have recorded the same
	euges. And what I want to do is ensure that I drive		access points, and I would have recorded the same
4	the total distance that I've driven is as small as	4 E	multiple times. And that would not accomplish the
5	ne total distance that I ve driven is as small as	6	numple times. And that would not accomplish the
7	possible. Ω And what do you mean that it's on	7	Demomber here, you need to cover each street at least
。 。	Q. And what do you mean that it's an	6	check but try to cover each street the forwast time in
0 0	A The problems of this type are known as	9	order to ansure that you've got each street covered
10	A. The problems of this type are known as	10	once, and you haven't spent, you know, three days
11	Ω Why are they optimization problems?	11	driving up and down in order to collect the data. So
12	A Well notice I said I'm trying to minimize the	12	the the patent was pretty deliberate in terms of
13	distance covered. So I'm optimizing my route to	13	of disclosing how to accomplish this routing for the
14	achieve some objective function. The objective in this	14	purposes of scanning the WIEI database the WIEI
15	case being to minimize the distance traveled And	15	access points
16	there's a cost associated with in the Chinese	16	BV MR I U:
17	nostman example there's a cost associated with each	17	O So that alternative route would be a
18	with each link namely its distance. When I drive this	18	nonoptimized route, correct?
19	link I've accrued a certain distance. When I'm trying	19	A The alternative route would would not have
20	to do is add up all those distances so that the total	20	accomplished the objectives of the invention: that's
21	is as small as possible but such that the subject can	21	correct And if that's what you mean by not optimized
22	be restrained at each edge is covered at least once	22	then it would not be optimized
23	I can cover an edge twice in order to minimize the	23	O Well I'm referring to optimized in terms of
24	distance, but each edge has to be covered at least	24	what you've been referring to optimized which is
25	once and I need to cover I need to do that in the	25	minimizing the distance that's covered
_	Page 109		Page 111
1	shortest distance total.	1	A. In this case, in the case of this patent, that
2	Q. But one could drive other routes that cover	2	is a criteria.
3	each edge at least once but that don't minimize the	3	Q. And so a
4	distance, correct?	4	A. That's what the Chinese postman problem
5	MR. BERTIN: Object to form. Mischaracterizes	5	that's the problem the Chinese postman solution
6	testimony.	6	addresses.
7	THE WITNESS: Well, are you saying can I drive	7	Q. And so there are other routes that do not
8	some other route that covers each edge but doesn't	8	drive a Chinese postman route that would cover each and
9	minimize the distance?	9	every street and each and every corner, but it would
	I suppose that one could do that, but that's	10	not be optimized because the distance covered would be
<u>н</u> т 1 2	not what's in the patent. Because if you were to do	12	greater than the Chinese postman algorithm route?
12	that one way to do it is just to make up an	12	A. It It It's worse than that. It's not
µ.ऽ h⊿	example Just take Mannattan, rectangular streets and	11	just the distance wouldn't be infinitized, but it's also
	avenues. And mist, just drive up and down each street	15	accurate and streat many times, which you don't want do
16	Vou know make a right turn, go to the payt streat	16	if if you don't want to do unnecessorily because
17	drive down so forth and so on When you get to the	17	that will introduce errors that the invention if any
18	northernmost houndary repeat the process by now	18	is intended to avoid
19	driving the avenues of first north to south and south	19	Ω I'd like you to turn to page 7 and paragraph
20	to north and complete the process. Except along the	20	22. Second sentence says: "The scanning is performed
21	way for whatever reason I decide I'm going to	21	using a Chinese postman format to drive each street a
22	hacktrack and cover three streets 10 times	22	minimum number of times and nreferably only once to
23	Now using your criteria I would have covered	23	avoid introducing a bias towards certain streets "
24	every edge, but that would be contrary to what's	24	Do you see that?
25	actually taught in the patent. Because if I were to do	25	A. I do.
	Page 110		Page 112
	-	1.1	-



1	expert reports have you submitted in connection with claim construction in your role as an expert witness?	1	Q. In preparing your report, were you provided
2	A Rough estimate 20	2	arry principles of claim construction that are not articulated in your report or declaration including
4	A. Rough estimate, 20. O. So do you have an understanding of the process	4	the claim construction principles listed on page 26
5	of construing a claim in a court in a patent case?	5	27 and 28?
6	A Well I don't know And the reason I don't	6	Δ Okay. There may have been some additional
7	know is in each and every instance among these	7	discussion with regard to claim construction principles
8	approximately 20 including the current matter I was	8	that I was exposed to as I was preparing my
9	provided with a set of instructions that I was asked to	9	declaration But the principles that I applied are
10	follow in performing my opinions Those instructions I	10	contained on these three pages
11	understand	11	Ω Do you recollect what other principles you may
12	Whether they conform to some other criteria	12	have been exposed to that would not be listed on these
13	that you're alluding to I'm not a lawyer I don't	13	three pages or anywhere else in your declaration?
14	know But I do know the instructions that I was	14	A Not that I can recall
15	provided with and I'd be happy to tell you what they	15	Ω As an expert what do you understand strike
16	are And these are the these are the instructions	16	that
17	that I followed in forming my opinions	17	What do you understand your role as an expert
18	Ω So you don't have any formal legal training in	18	to be in the claim construction process?
19	natent law?	19	MR BERTIN: Object to form
20	A That's correct	20	THE WITNESS: I believe that it's my role to
21	0 Okay And as you mentioned you are not a	21	offer an opinion as to how one of skill in the art
22	lawyer You have no ID?	22	would view the proper construction or would view the
23	A That's correct	23	proper construction of these claims to be a person
24	O So where are the instructions that you	24	of skill in the art at the time of the inventions. Who
25	followed for the purposes of the of construing the	25	would that person be and how would that person
	Page 129		Page 131
1	claims in this particular case?	1	understand these claims.
1 2	claims in this particular case? A. They begin on page 26 of my declaration.	1 2	understand these claims. BY MR. LU:
1 2 3	claims in this particular case?A. They begin on page 26 of my declaration.Q. That's the section that's labeled "claim	1 2 3	understand these claims. BY MR. LU: Q. Now, you have not applied claim construction
1 2 3 4	claims in this particular case?A. They begin on page 26 of my declaration.Q. That's the section that's labeled "claim construction principles"?	1 2 3 4	understand these claims. BY MR. LU: Q. Now, you have not applied claim construction principles in construing these claim terms that are not
1 2 3 4 5	claims in this particular case?A. They begin on page 26 of my declaration.Q. That's the section that's labeled "claim construction principles"?A. That's correct.	1 2 3 4 5	understand these claims. BY MR. LU: Q. Now, you have not applied claim construction principles in construing these claim terms that are not listed either on pages 26, 27, and 28 of your expert
1 2 3 4 5 6	claims in this particular case?A. They begin on page 26 of my declaration.Q. That's the section that's labeled "claim construction principles"?A. That's correct.Q. And where do they end?	1 2 3 4 5 6	understand these claims. BY MR. LU: Q. Now, you have not applied claim construction principles in construing these claim terms that are not listed either on pages 26, 27, and 28 of your expert report or elsewhere in your declaration; is that
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1	phrases would mean to one of skill in the art But	1	knows this is plain and ordinary. It's not used any
2	they may have been given a different interpretation or	2	differently And no the inventor has specifically
3	special meaning in the patent or related documents. So	3	defined this in an unconventional fashion. There are
4	in such case in such cases it would be my role as	4	shades of grav between those two
5	an expert to identify that as well	5	And what I did is attempt to find support in
5	No	6	the claim the specification and prosecution
7	Ω So all of the principles for claim	7	history as to how one of ordinary skill in the art
, 0	Q. So all of the principles for claim	0	having read all of this would construct the phrase
0	of your dealeration are resited in these three pages of	0	DV MD LU.
9	of your declaration are recited in those three pages of	9	BY MR. LU:
11	your expert declaration?	10	Q. Are there any claim terms for which you
10	A. The principles that I applied in forming my	11	believe the patentee or the inventor specifically
	opinions as to now these phrases should be construed		defined the claim term in an unconventional fashion?
13	are based on these three pages.	13	A. Well, there are several cases where I believe
14	Q. Now	14	the inventors coined phrases or used phrases in an
15	A. The instructions provided to me in these three	15	unconventional fashion. And I even have opinions on
16	pages.	16	those expressed in my declaration. There may be other
17	Q. Now, if they were additional legal principles	17	instances where that was done as well, but I don't have
18	of which you were not aware, could that influence your	18	an opinion on that.
19	opinion?	19	Q. Which phrases, in your opinion, were phrases
20	A. I don't know.	20	in which the inventors coined phrases or used phrases
21	Q. So it's possible it could influence your	21	in an unconventional fashion?
22	opinion?	22	A. Reference symmetry, arterial bias, avoids
23	A. I I I don't know. You need you need	23	arterial bias, rules and predefined rules, being
24	to give me a specific example.	24	suited, target area, several related terms, calculated
25	Q. Let's go through these claim construction	25	position information, calculated positions of the WIFI
	Page 133		Page 135
	-	<u> </u>	
1	principles and you can explain your understanding of	1	access points, calculated locations, and recorded
1	principles, and you can explain your understanding of	1	access points, calculated locations, and recorded
1 2 3	principles, and you can explain your understanding of them to me.	1 2	access points, calculated locations, and recorded location information.
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2	characterize as lack as being in lack of reference	2	access points, the user typically encounters a physical
3	symmetry.	3	location" figure 6, and "in which there are
4	BY MR. LU:	4	numerous access point locations on all sides of the
5	O And what is shown in figure 6° Just back	5	users." So the user is 601, and there are numerous
6	un back un a little bit on back to figure 5	6	access stations 602 that we see marked on figure 6
7	So we have calcu calculated location of	7	that are, as the specification describes it on all
8	user marked with a little X. Do you see that?	8	sides of the user within range of the of the devices
9	A I do	9	802 radio The resulting in position calculation has
10	Ω And we have user 501 which is a solid black	10	reduced location bias and is more accurate as a result
h 1	dot Do you see that?	11	So that's what figure 6 is is showing But
12	A I do	12	there's a real problem in in this regard. This
13	Ω And you see radio range of user devise being	13	nerhans is what the inventors would like their
14	surrounded by a circle? Do you see that?	14	invention to produce. They have no way of knowing if
	A I do	15	this is going to be produced or not because they have
16	A. $100.$	16	no way of knowing in advance where the access points
17	A By the way, thanks for calling my attention to	17	are and whether it's possible to achieve this reference
	that The V in figure 5 is the location the	18	symmetry that's represented in figure 6 and discussed
10	calculated location of the user. The actual location	19	in the accompanying text. The access point locations
20	is the the black circle. And all of the calculated	20	m the accompanying text. The access point locations
b1	locations of access points are on one side of that	21	symmetry. It may really all be on one side of the
b 2	user They're all to the left of that user. Some of	22	symmetry. It may rearry an be on one side of the
03	them are beneath the user some of them are above the	23	So this reference that we had some
b4	user but they're all to the left. And this again is	24	discussion earlier about whether things were achievable
5	$a_{}$ this is a situation that the inventors	25	or not and here's an example of something that may not
Γ	Page 165		Page 167
1	characterize as a "lack of reference symmetry "	1	be achievable. It's something beyond control of
2	Ω	2	wheever is taking measurements of of access points
3	Δ And if $\frac{1}{2}$ if $\frac{1}{2}$ if $\frac{1}{2}$ if $\frac{1}{2}$ and $\frac{1}{2}$ and the	3	in an attempt to determine where the access points are
4	section of the patent titled "reference symmetry" tells	4	located. The access points may not be symmetrically
5	us what the inventors mean by "reference symmetry"	5	located around the user. It may not be possible to get
6	or what they're trying to express by the term	6	to this situations that the inventors are are are
7	"reference symmetry " at least in the specification	7	striving for Just may not be possible. It's
8	When Llooked at that and tried to relate that	8	beyond it's beyond the control of the whoever's
a	description to the claim language. I found that there	9	taking the measurements
	wasn't it wasn't a relationship. They didn't man	10	Ω And what
1 1	over And I don't know where else to look for	11	A I think I I think I even discuss in my
12	reference symmetry. I scoured the patent and its	12	expert declaration that what's not disclosed at all in
13	prosecution history and as the phrase is used in the	13	the patent is intentionally seeding the target area
14	claims it it it there simply isn't a	14	with access points in an attempt to ensure access
15	description	15	symmetry Otherwise Liust don't see how the
16	Ω Let's turn to figure 6 what the inventors	16	teachings of the patent can produce reference symmetry
17	have characterized as "positioning with reference	17	as it's represented in figure 6 and described in the
18	symmetry " Do you see that?	18	specification
19	A I do	19	And again, the claims the use of the phrase
20	0 Can you describe what's depicted in figure 6	20	in the claim don't even relate to this. They relate to
21	"nositioning with reference symmetry"?	21	something else that's not discussed at all in the
22	A Well yeah Lean If you look at column 9	22	specification
23	beginning at line 64 and this is part of the	23	O. Just on that point if a target is if a
24	description of figure 6. In fact, it may be the	24	targeted area is intentionally and densely seeded with
25	totality of description of figure 6.	25	access points, a person having ordinary skill in the
			access points, a person nating oraniar, sinn in the



1	art would be more likely to be able to determine	1	And and that's as the phrased is used in
2	reference symmetry, correct?	2	the specification. How it's used in the claim, it's
3	A. What do you mean by "determine reference	3	it's just not described. One would not know how
4	symmetry"?	4	it's what the phrase means as it's used in the
5	Q. Well, you're talking	5	claim.
6	A. Reference symmetry of what? Are we talking	6	Q. Okay. So ultimately, the conclusion of your
7	now about the claim language or the specification?	7	paragraph 74 is that even practicing the technique
8	Q. We're talking about the we're talking about	8	disclosed in the patent, illustrated in figures 5 and
9	the specification.	9	6, one would have no idea of whether or note there is
10	A. Just the specification. Because again, as I	10	indeed a condition of reference symmetry because the
11	testified earlier, the use of the phrase in the claim	11	location of the WIFI access points is simply not known?
12	is different than what's described in the	12	MR. BERTIN: Object to form.
13	specification.	13	THE WITNESS: That's not what paragraph 74
14	In neither case would one know, a priori, what	14	says.
15	this means without reading. In the case of the	15	BY MR. LU:
16	specification, one can sort of glean what the inventors	16	Q. Okay. So what about my statement was
17	meant. But in my opinion, it's not possible to ensure	17	incorrect?
18	that you've gotten to that there, no matter what	18	A. Well, you you you you tried to
19	measurement technique you use. And it's with regard to	19	characterize what you said was a conclusion I've drawn
20	the claims. It it it it just it	20	in paragraph 74, and I don't think I've drawn that
21	it it it there's no suggestion as to what the	21	conclusion.
22	phrase means as it's used in the claim because it's	22	Q. What is the conclusion that you draw
23	used there's a different reference in mind. I know	23	from paragraph in paragraph 74?
24	what the reference point is that they have in mind in	24	A. Well, the last line reads if that's a
25	the specification. I don't even know what the	25	conclusion there is a fundament thus and I
	Page 169	<u> </u>	Page 171
-			
T	reference point is in the in the claim.	1 L	gave the reasons why earlier in the paragraph there
2	And if you d like, I can explain that.		is a fundamental lack of any objective standard for
3	Q. Well, let's get an answer to my question that	3	determining whether distribution of wIFI access points
4 E	I originally presented which is: If you have an area	4	And again this days not relate to how the
5	that is intentionally and densely seeded with access	5	And again, this does not relate to now the
0 7	points, known access points, a person naving ordinary	07	phrase appears in the claim. There was a claim the
/ 0	skill ill the art would be likely to be able to	/	phrase is used differently in the claim. It's not with
0	determine reference symmetry in accordance with what's		is with record to a user
10	MD_DEDTIN: Object to form	10	Is with legal to a user. O Okay. So turning back to figures 5 and 6
11	THE WITNESS: I'm I'm I'm I'm not	11	Q. Okay. So turning back to figures 5 and 6
12	sure that's even a property posed question	12	that that that that troubled me a little bit
1 3	BY MR I II.	1 3	You asked about figure 5 and the conclusion
14	O Well okay	14	that I've drawn concerning
15	A What I would know is that unless the access	15	Ω And 6?
16	points coincidentally were cited in such a way as to	16	A Veah Figures 5 and 6
17	provide this and now I'm going to read from the	17	Figure 5 has nothing to do with reference
18	specification "to provide a sufficient number of	18	symmetry. In fact, the except as an example of the
19	reference point with balance or symmetry around the	19	situation that lacks reference symmetry
20	user " then you could not have reference symmetry And	20	O Okay
21	that would suggest that you've got to intentionally	21	A Now that $$ that sort of gets to the heart of
22	deploy the access points in such a way that you have	22	what I've been trying to explain Figure 5 may be the
23	got a sufficient number and balance or symmetry around	23	reality It may not be as a result of any particular
24	the user no matter where the user might be This	24	measurement technique or any particular location
25	this would be rather difficult to accomplish	25	technique. It may, in fact, be the case that there are
_	Page 170		Page 172
1			



1	access points located only on one side of the user. so	1	A. Okay. And how large a radius do you want me
2	there's nothing you can do to fix that If reference	2	to draw?
3	symmetry means you have sufficient density of access	3	O. Just around the size of the other circles
4	points and they're uniformly spread around the user	4	MR BERTIN: So this is a circle that
5	here's an example of where that situation could not	5	MR LU: And let's label that
6	is is simply unachievable. You can't you can't	6	MR BERTIN Dr Acampora is being asked to
7	ast to that point without intentionally laying down a	7	draw in the lower left-hand corner of the center how on
2 2	whole hunch of additional access stations above the	/ 2	figure 1 of the QSS notant just so the record is
0	whole build of additional access stations above the	0	algor
9	eight that are shown here, if these are, in fact, the	10	Clear.
	locations of those eight access points. You're stuck.	10	MR. LU: Let's label that circle user.
	Q. What's a sufficient number of WIFI access	<u>н</u> т	Let's draw a similar circle in the exact same
	points, in your opinion?	12	location with the exact same label on figure 3.
13	A. You got me. Those are the inventors words,	13	You can keep that. All right.
L4	not mine.	14	BY MR. LU:
15	Q. Turning to figures 3 and 4	15	Q. So getting back to figure 3. What we have
L6	A. Okay.	<u>16</u>	here are calculated locations of WIFI access points
L7	Q we have in this image known locations of	11 7	that are in white diamonds and the location of the
18	WIFI access points, which are in black circles. We	18	actual access points in black circles and then a blue
19	have calculated locations of access points, which are	19	circle, which is now labeled "user."
20	in white diamonds.	20	And we have in figure 4 the exact same thing,
21	Do you see that?	21	except that rather than simply driving artery 304 and
22	A. Yes.	22	artery 305, a Chinese postman routing methodology has
23	Q. And this is a example of a scanning scenario	23	been driven.
24	showing arterial bias.	24	MR. BERTIN: And to be clear, the circles have
25	A. Yeah. The so-called random model, where the	25	been added to the to these figures. They don't
	Page 173		Page 175
-		4	
1	collection of data was coincidentally some other reason	1	exist in the patent by themselves.
1 2	collection of data was coincidentally some other reason for traversing the route.	1 2	exist in the patent by themselves. MR. LU: Correct.
1 2 3	collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you	1 2 3	exist in the patent by themselves. MR. LU: Correct. BY MR. LU:
1 2 3 4	collection of data was coincidentally some other reason for traversing the route.Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand	1 2 3 4	exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the
1 2 3 4 5	collection of data was coincidentally some other reason for traversing the route.Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box.	1 2 3 4 5	exist in the patent by themselves. MR. LU: Correct.BY MR. LU:Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference
1 2 3 4 5 6	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the 	1 2 3 4 5 6	exist in the patent by themselves. MR. LU: Correct.BY MR. LU:Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in
1 2 3 4 5 6 7	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? 	1 2 3 4 5 6 7	exist in the patent by themselves. MR. LU: Correct.BY MR. LU:Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3?
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1 2 3 4 5 6 7 8 9	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. 	1 2 3 4 5 6 7 8 9	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question.
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1 3 4 5 6 7 8 9 10 11 12	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. 	1 2 3 4 5 6 7 8 9 10 11 12 13	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications.
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1 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. A. Like that? Q. Yeah. And why don't you put an X on figure 4 	1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications. A. So the specifications. So we're not we're not considering the claim. Again, the claim appears to
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\2\\13\\14\\15\\16\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1$	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. A. Like that? Q. Yeah. And why don't you put an X on figure 4 as well. 	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\11\\12\\13\\14\\15\\16\\16\\16\\16\\16\\16\\16\\16\\16\\16\\16\\16\\16\\$	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications. A. So the specifications. So we're not we're not considering the claim. Again, the claim appears to use reference symmetry in some other way that's not
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\2\\14\\15\\16\\17\\17\\17\\17\\17\\17\\17\\17\\17\\17\\17\\17\\17\\$	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. A. Like that? Q. Yeah. And why don't you put an X on figure 4 as well. A. Same spot? 	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\1\\1\\2\\1\\1\\1\\1\\1\\5\\1\\7\\1\\1\\7\\1\\7\\1\\7\\1\\7\\1\\7\\1$	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications. A. So the specifications. So we're not we're not considering the claim. Again, the claim appears to use reference symmetry in some other way that's not defined at all. You can't glean what it is from claim
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\2\\3\\14\\15\\16\\17\\18\end{array}$	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. A. Like that? Q. Yeah. And why don't you put an X on figure 4 as well. A. Same spot? Q. Same spot. 	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\11\\2\\14\\15\\16\\18\\18\end{array} $	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications. A. So the specifications. So we're not we're not considering the claim. Again, the claim appears to use reference symmetry in some other way that's not defined at all. You can't glean what it is from claim or anything in the specification. It's indefinite.
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\1\\1\\1\\2\\1\\3\\4\\1\\5\\1\\6\\1\\7\\1\\8\\9\end{array}$	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. A. Like that? Q. Yeah. And why don't you put an X on figure 4 as well. A. Same spot? Q. Same spot. A. Done. 	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\2\\14\\15\\16\\17\\18\\9\end{array} $	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications. A. So the specifications. So we're not we're not considering the claim. Again, the claim appears to use reference symmetry in some other way that's not defined at all. You can't glean what it is from claim or anything in the specification. It's indefinite. So we're looking now only at the
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\1\\1\\1\\2\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1$	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. A. Like that? Q. Yeah. And why don't you put an X on figure 4 as well. A. Same spot. A. Done. Q. Okay. Let me just grab my pen back. 	$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\1\\4\\5\\1\\7\\1\\9\\20\end{array}$	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications. A. So the specifications. So we're not we're not considering the claim. Again, the claim appears to use reference symmetry in some other way that's not defined at all. You can't glean what it is from claim or anything in the specification. It's indefinite. So we're looking now only at the specification, as if I could rip the claims off and
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\1\\1\\1\\2\\1\\1\\4\\1\\5\\6\\7\\1\\8\\9\\0\\1\\1\\2\\0\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1$	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. A. Like that? Q. Yeah. And why don't you put an X on figure 4 as well. A. Same spot? Q. Same spot. A. Done. Q. Okay. Let me just grab my pen back. And I'll tell you what. We're also going to 	$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\1\\4\\1\\5\\6\\7\\8\\9\\0\\1\\1\\2\\0\\2\\1\end{array}$	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications. A. So the specifications. So we're not we're not considering the claim. Again, the claim appears to use reference symmetry in some other way that's not defined at all. You can't glean what it is from claim or anything in the specification. It's indefinite. So we're looking now only at the specification, as if I could rip the claims off and focus only on the specification.
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\23\\14\\15\\6\\7\\18\\9\\0\\12\\22\\22\\22\\22\\22\\22\\22\\22\\22\\22\\22\\22\\$	 collection of data was coincidentally some other reason for traversing the route. Q. Okay. And I'd like you to put an X, if you won't mind, in the middle in the upper right-hand corner of the middle box. A. You want me to mark it right on the Q. Yes, please? A on Exhibit 1 itself? Q. On Exhibit 1 itself. A. So you want me to put an X in the middle of Q. The upper right-hand corner of the middle box. A. You mean just put an X here? Q. Just put an X there. A. Like that? Q. Yeah. And why don't you put an X on figure 4 as well. A. Same spot? Q. Same spot. A. Done. Q. Okay. Let me just grab my pen back. And I'll tell you what. We're also going to draw a circle right right here. 	$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\1\\1\\5\\6\\7\\8\\9\\0\\1\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2$	 exist in the patent by themselves. MR. LU: Correct. BY MR. LU: Q. Now, Dr. Acampora, per the teachings of the patents, is there a greater degree of reference symmetry around the user in figure 4 than there is in figure 3? A. Well, before I even attempt to answer that, I've got to ask a question. Are you referring to the claims, or are you referring to the specification? Q. My patent my question made it clear, per the teachings of the patent specifications. A. So the specifications. So we're not we're not considering the claim. Again, the claim appears to use reference symmetry in some other way that's not defined at all. You can't glean what it is from claim or anything in the specification. Is that what you're asking me to do?
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1	symmetry for the calculated location of WIFI access	1	But the perceived degree of reference symmetry might be
2	points in figure 4 around "user" than there is in	2	affected favorably by using what I believe the authors
3	figure 3?	3	feel is their invention. deliberately driving every
4	A. Well, I I have to ask another question	4	street in the target area in according with the Chinese
5	before I can begin to answer that. What are the Xs	5	postman routing algorithm.
6	that you asked me to draw represent?	6	And again, that's reference symmetry with
7	O You can ignore the Xs	7	regard to the user, which has nothing to do with how
8	Δ Ignore the Xs	8	reference symmetry is used in the claims. It's used in
9	Okay I think I understand your question	9	a different way. It's not discussed relative to the
10	And the answer is going to require a certain amount of	10	user at all. In fact, one would not know how it's used
11	And the answer is going to require a certain amount of	11	in claims
12	explanation. So let me try to be as offer as I can and	12	O Turning to paragraph 75 of your deducation
12	as clear as I call.	12	Q. Turning to paragraph 75 of your declaration,
1 4	On the one hand, both figures 5 and 4 have the	11	directed terror de the statement that you instand which
14	same degree of reference symmetry with regard to the	15	directed towards the statement that you just made which
15	user, which is the only context in which reference	15	is, as used in the claims, one it's not discussed
16 1 17	symmetry is discussed in the specification because	16	relative to the user, and one would not know how it's
ц7 1 с	location of the access points and location of the user	щ7 Д О	used in the claims." It being reference
т8	have not changed one bit. So let me give an example of	18	symmetry strike that.
19	what I mean.	19	Why don't you explain what paragraph 75 says.
20	Let's suppose that the actual locations of the	20	MR. BERTIN: Object to form.
21	access points are the the computed locations the	21	THE WITNESS: Okay. So as I testified several
22	calculated locations are the actual locations. So I'm	22	times already, the only discussion of reference
23	going to divorce this notion of reference symmetry from	23	symmetry that would suggest what it means, how the
24	the scanning method for the moment.	24	inventors use the phrase, is in there's a section on
25	Suppose I know exactly where the access points	25	reference symmetry in the specification. And that
	Page 1//	′	Page 1/9
1	are located. The distribution of access points	1	rafarance symmetry is discussed with regard to a user
1	are located. The distribution of access points	1	reference symmetry is discussed with regard to a user.
1 2 2	are located. The distribution of access points relative to the user are what they are, and they appear to be the same in both figures. Now, what the notant	1 2 3	reference symmetry is discussed with regard to a user. There's a known reference point. The point the the location of the user. And reference symmetry is
1 2 3	are located. The distribution of access points relative to the user are what they are, and they appear to be the same in both figures. Now, what the patent	1 2 3	reference symmetry is discussed with regard to a user. There's a known reference point. The point the the location of the user. And reference symmetry is described with record to some dama and uniform
1 2 3 4	are located. The distribution of access points relative to the user are what they are, and they appear to be the same in both figures. Now, what the patent appears to be saying is that with regard to the same	1 2 3 4	reference symmetry is discussed with regard to a user. There's a known reference point. The point the the location of the user. And reference symmetry is described with regard to some dense and uniform
1 2 3 4 5	are located. The distribution of access points relative to the user are what they are, and they appear to be the same in both figures. Now, what the patent appears to be saying is that with regard to the same reference symmetry by a different measure, the	1 2 3 4 5	reference symmetry is discussed with regard to a user. There's a known reference point. The point the the location of the user. And reference symmetry is described with regard to some dense and uniform distribution of access points relative to that point.
1 2 3 4 5 6	are located. The distribution of access points relative to the user are what they are, and they appear to be the same in both figures. Now, what the patent appears to be saying is that with regard to the same reference symmetry by a different measure, the calculated locations relative to the random model and	1 2 3 4 5 6	reference symmetry is discussed with regard to a user. There's a known reference point. The point the the location of the user. And reference symmetry is described with regard to some dense and uniform distribution of access points relative to that point. Now, when we look at the claim, we see no
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$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\3\\4\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1$	are located. The distribution of access points relative to the user are what they are, and they appear to be the same in both figures. Now, what the patent appears to be saying is that with regard to the same reference symmetry by a different measure, the calculated locations relative to the random model and the deliberate Chinese postman model it would appear that the calculated positions are better distributed around the user in figure 3 than figure 4. But to draw that conclusion, once again, I have to rely on the actual scanning method. So if the invention if the inventors are intending to say that if you use our deliberate Chinese postman routing algorithm, you will achieve better reference symmetry with regard with respect to the location of the user	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	reference symmetry is discussed with regard to a user. There's a known reference point. The point the the location of the user. And reference symmetry is described with regard to some dense and uniform distribution of access points relative to that point. Now, when we look at the claim, we see no language of that type whatsoever. In fact, what we do see is so I'm reading from claim 1 now. MR. BERTIN: That's of the 988 patent; is that correct? THE WITNESS: 988 patent, claim 1, correct. Column 14, line 22, beginning with the "wherein." "Wherein said calculated position information is obtained from recording multiple readings of the WIFI access points at different locations around the
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$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\3\\4\\1\\6\\1\\8\\9\\0\\1\\2\\2\\2\\3\\2\\2\\2\\3\\2\\2\\2\\2\\2\\2\\2\\3\\2$	are located. The distribution of access points relative to the user are what they are, and they appear to be the same in both figures. Now, what the patent appears to be saying is that with regard to the same reference symmetry by a different measure, the calculated locations relative to the random model and the deliberate Chinese postman model it would appear that the calculated positions are better distributed around the user in figure 3 than figure 4. But to draw that conclusion, once again, I have to rely on the actual scanning method. So if the invention if the inventors are intending to say that if you use our deliberate Chinese postman routing algorithm, you will achieve better reference symmetry with regard with respect to the location of the user than for the examples given in 3 and 4. That would appear to be the case. With regard to other language in the from the drawn from exactly the same section of the specification, the section discussing reference symmetry, that refer to reference symmetry only with regard to the locations of the access points relative to the user, that's the same in both figures.	1 2 3 4 5 6 7 8 9 10 11 23 14 15 16 17 18 9 20 21 22 3	reference symmetry is discussed with regard to a user. There's a known reference point. The point the the location of the user. And reference symmetry is described with regard to some dense and uniform distribution of access points relative to that point. Now, when we look at the claim, we see no language of that type whatsoever. In fact, what we do see is so I'm reading from claim 1 now. MR. BERTIN: That's of the 988 patent; is that correct? THE WITNESS: 988 patent, claim 1, correct. Column 14, line 22, beginning with the "wherein." "Wherein said calculated position information is obtained from recording multiple readings of the WIFI access points at different locations around the WIFI access points so that the multiple readings have reference symmetry relative to other WIFI access points in the target area." I have no idea what that means. We no longer have a point of reference. We have multiple readings. Somehow these multiple readings have reference symmetry relative to other WIFI access points. In the specification, reference symmetry is defined, A,
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1	access points are uniformly distributed and densely	1	can be understood to mean the deviation from the
2	distributed around that user	2	calculated position information for a WIFI access point
3	Here somehow that concept of reference	3	towards heavily trafficked roads and away from the
4	symmetry is appears well the words "reference	4	actual geographic location of the access point due to
5	symmetry " not the concept but the words "reference	5	the tendency of random scanning to result in a greater
6	symmetry" appear regard to other WIEI access points	6	number of scans from heavily trafficked roads "
7	and multiple readings from different locations around a	7	Do you see that?
8	WIFL access point What what reference point must	8	A I do
9	the access points be distributed uniformly and densely	9	Ω What is the basis for your statement that this
10	relative to as was taught in the specification for the	10	Q. What is the basis for your statement that this is quote "due to the tendency of random scanning as a
11	known reference point of the user? I don't know where	11	result in a greater number of scans from heavily
12	the reference point is here. I I I don't know where	12	trafficked roads"?
1 3	know what they're talking about here	1 3	A Okay. So this may be somewhat repetitive to a
14	MR I U: Okay Why don't we take a quick	14	A. Okay. So this may be somewhat repetitive to a discussion we had earlier today with regard to figure 3
15	break	15	in the 088 patent or it might have been from the 245
16	THE VIDEOGR APHER: Off the record The time	16	national patent of it might have been from the 245
17	is 3.21 p.m.	17	the accompanying text from the specification. So let
18	(A brief recess was taken)	18	me just locate that and we'll review this
19	THE VIDEOGRAPHER: We're going back on the	19	Okay. So figure 3 example scapping scapario
20	record The time is 3:30 n m	20	showing arterial bias
21	MR I U: So when we were off the record we	21	By the way. I'm using figure 3 from the 988
22	reviewed some testimony that Dr. Acampora had provided	22	natent but I'm going to assume that the blue markings
23	regarding figures 3 and figure 4 and specifically the	23	that you asked me to include are not present, so I'm
24	distribution of the calculated locations of the access	24	using the pristing figure 3 not the marked-up figure 3
25	points in figure 3 compared to figure 4	25	Ω That's fine
	Page 181		Q. That's line. Page 183
1	The question was: "Was the distribution in	1	A. And what we have in figure 3, the black dots
2	figure 4 did that have better reference symmetry	2	represent the actual locations of access points. The
3	than the distribution in figure 3?" And the answer may	3	white diamonds represent the calculated position of the
4	not have reflected at least as transcribed may	4	access points. And the accompanying description, which
5	not have reflected Dr. Acampora's answer.	5	appears in column 7 and 8 of the patent, tells us
6	BY MR. LU:	6	that and I'm reading now from column 7, line 52.
7	Q. So would you like to comment on that	7	"The quality of the data collected is greatly
8	particular answer?	8	affected by the scanning methodology employed by the
9	A. Yes. Figure 4 in the context of the question	9	scanning vehicles. Each model has its own benefits and
10	and the context of the reply that was given appears to	10	limitations. One approach, known as the random model,
11	have better reference symmetry than figure 3. Whereas,	11	places scanning devices in vehicles as they are
12	as you read it to me off the record the roles of	12	conducting daily activities for business or personal
13	as you read it to me on the record, the roles of	F -	conducting daily activities for business of personal
14	figure 3 and 4 were reversed.	13	uses" business or personal "use," singular.
	figure 3 and 4 were reversed. Q. Thank you.	13 14	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi
15	figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of	13 14 15	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The
15 16	figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of your answer is accurate other than the transposition of	13 14 15 16	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The concept is that over time, these vehicles will cover
15 16 17	figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of your answer is accurate other than the transposition of figures 3 and 4.	13 14 15 16 17	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The concept is that over time, these vehicles will cover enough streets in their own random fashion in order to
15 16 17 18	figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of your answer is accurate other than the transposition of figures 3 and 4. THE WITNESS: That is correct.	13 14 15 16 17 18	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The concept is that over time, these vehicles will cover enough streets in their own random fashion in order to build a reliable reference database. The model does,
15 16 17 18 19	figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of your answer is accurate other than the transposition of figures 3 and 4. THE WITNESS: That is correct. MR. BERTIN: Okay.	13 14 15 16 17 18 19	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The concept is that over time, these vehicles will cover enough streets in their own random fashion in order to build a reliable reference database. The model does, in fact, provide a simple means to collect data, but
15 16 17 18 19 20	figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of your answer is accurate other than the transposition of figures 3 and 4. THE WITNESS: That is correct. MR. BERTIN: Okay. BY MR. LU:	13 14 15 16 17 18 19 20	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The concept is that over time, these vehicles will cover enough streets in their own random fashion in order to build a reliable reference database. The model does, in fact, provide a simple means to collect data, but the quality of resulting data is negatively affected
15 16 17 18 19 20 21	figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of your answer is accurate other than the transposition of figures 3 and 4. THE WITNESS: That is correct. MR. BERTIN: Okay. BY MR. LU: Q. So let's turn to page 31 of your expert	13 14 15 16 17 18 19 20 21	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The concept is that over time, these vehicles will cover enough streets in their own random fashion in order to build a reliable reference database. The model does, in fact, provide a simple means to collect data, but the quality of resulting data is negatively affected due to issues of arterial bias.
15 16 17 18 19 20 21 22	 as you read it to file off the record, the foles of figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of your answer is accurate other than the transposition of figures 3 and 4. THE WITNESS: That is correct. MR. BERTIN: Okay. BY MR. LU: Q. So let's turn to page 31 of your expert declaration. And I direct your attention to paragraph 	13 14 15 16 17 18 19 20 21 22	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The concept is that over time, these vehicles will cover enough streets in their own random fashion in order to build a reliable reference database. The model does, in fact, provide a simple means to collect data, but the quality of resulting data is negatively affected due to issues of arterial bias. "Figure 3 describes the challenge of the
15 16 17 18 20 21 22 23	 as you read it to file off the record, the roles of figure 3 and 4 were reversed. Q. Thank you. MR. BERTIN: Just to be clear, the rest of your answer is accurate other than the transposition of figures 3 and 4. THE WITNESS: That is correct. MR. BERTIN: Okay. BY MR. LU: Q. So let's turn to page 31 of your expert declaration. And I direct your attention to paragraph 79 which states: "Based on my review of the 	13 14 15 16 17 18 20 21 22 23	uses" business or personal "use," singular. "These vehicles could be delivery trucks, taxi cabs, traveling salesmen or just hobbyists. The concept is that over time, these vehicles will cover enough streets in their own random fashion in order to build a reliable reference database. The model does, in fact, provide a simple means to collect data, but the quality of resulting data is negatively affected due to issues of arterial bias. "Figure 3 describes the challenge of the random model. When the scanning vehicle traverses
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1	BY MR. LU:	1	the inventors mean by arterial bias. It's the only
2	Q. So because the patent doesn't describe any	2	description they give, and I had to struggle to create
3	other way in which	3	a situation. And even as I was struggling to invent a
4	MR. BERTIN: Were you done with your answer	4	situation on the fly, I realize that that may not
5	there?	5	result in arterial bias. It's more likely to result in
6	THE WITNESS: I was not.	6	significant errors, but not necessarily arterial
7	MR. LU: Okay.	7	bias arterial bias? The word itself "arterial,"
8	MR. BERTIN: Do you mind just letting him	8	it's bias caused by the fact you're traveling the
9	finish?	9	arteries. This is quite clear.
10	THE WITNESS: Yeah. The language that I was	10	BY MR. LU:
11	referring to that we discussed earlier appears in	11	Q. Now, what if I were to provide instructions to
12	paragraph 21 of my report. "Their, quote, 'discovery,'	12	my drivers to drive a programmatic route but only to
13	unquote, if any, appears to be a deliberate and	13	take roads that had at least four lanes. Would that
14	possibly unachievable effort to improve the accuracy."	14	create arterial bias?
15	So they're setting up this arterial bias.	15	A. Well, how many lanes are there on the average
16	They're telling us how it's created. And even the name	16	roads? If if four if four lanes would be
17	itself, "arterial bias," it's bias caused by the fact	17	regarded as a very wide road and other streets have one
18	that the measurements are being taken along arteries.	18	lane, then that might be arterial bias. On the other
19	That's what they intended when they used the phrase	19	hand, if most roads have four lanes and a few roads
20	"arterial bias."	20	have eight lanes, then what you just described would
21	So the construction and I won't reread	21	not produce what the authors intended by the use of the
22	it but it's exactly what I opine on in paragraph 79.	22	phrase "arterial bias."
23	And that's just that's nothing more than a summary	23	Arterial bias means you're scanning the
24	of exactly what the inventors taught us they meant by	24	heavily trafficked roads, the main arteries, the big
25	arterial bias in the specification.	25	streets. That's completely consistent with common
	Page 189		Page 191
1	Now, is there another way that you could get	1	sense and understanding, what we mean by an artery in
2	arterial bias? So suppose you drive the and this is	2	the vehicular traffic sense and what's disclosed in the
3	why the objectives of the invention might not be	3	specification.
4	achievable.	4	Q. But one can create arterial bias by scanning
5	Suppose you drive some different route. Let's	5	that is other than random; in my example, instructions
6	call it a quasi quasi-deliberate route so we're not	6	to only drive streets that are at least a certain
7	pinning it down to any specific routing algorithm. So	7	number of lanes wide, correct?
8	maybe you're driving on streets other than main	8	A. Not as it's used in this patent, no, not
9	arteries. But as I testified earlier, there are	9	correct. The patent does not suggest that there
10	propagation effects of shadow-fading caused by line of	10	they're setting up a problem. They're telling you how
11	sight blockage by buildings, multipath propagation,	11	that problem would commonly be would commonly occur.
12	that can still cause the resulting access point	12	A bunch of vehicles are sent out on a mission on
13	location calculations to be significantly in error.	13	missions. Those missions are to get from point A to
14	Whether the errors would coincidentally cause	14	point B. And as the patent describes, you're more
15	them to be bias towards arteries, that, I don't know.	15	likely to navigate onto an artery, travel that artery,
16	But so, yeah, maybe you I I guess I'm	16	and that's what's going to cause the arterial bias.
17	convincing myself even further that arterial bias can	17	The patent does not suggest deliberately creating what
18	only be caused by driving in this random way where	18	you're characterizing as arterial bias by instructing
19	there would be a tendency to scan heavily trafficked	19	the fleet to drive only on the main roads.
20	roads.	20	Now, if you instructed I think common sense
21	Coincidentally, and probably highly unlikely,	21	consistent with what's in the patent, why this arterial
22	one might get arterial bias because of some	22	bias exists, would be consistent with telling the fleet
23	unpredictable propagation patterns. But that just	23	to drive the main arteries because you want them to get
24	further shows that the objectives of the patent cannot	24	to their destination quickly. It's not an attempt to
25	be guaranteed. But in any event, there's no doubt what	25	create arterial bias as much as an attempt to get to
	Page 190		Page 192



1			
-	diagram had sufficient detail that one could actually	1	one category rather than another category.
2	identify unambiguous steps to be followed. It couldn't	2	A. I understand.
3	be so high level as we know better than the box labeled	3	Q. Okay.
4	computer to begin with.	4	Now, turning to paragraph 86, it states: "As
5	Q. So if there were a description that was	5	discussed below, I have considered the claims and
6	sufficient to identify unambiguous steps to be	6	here's my opinion that logic is not a structure and
7	followed, that description could disclose sufficient	7	that these terms are therefore means-plus-function
8	structure, correct?	8	terms.
9	A. Where are you reading from now? If if	9	"I have reviewed the disclosure of the 988
10	you're going to read from my report	10	patent and for the reasons discussed below, it is my
11	O. That was not	11	opinion it does not disclose corresponding structures
12	A it might help if you tell me where.	12	capable of performing the functions stated in the logic
13	Q. That was not a question from your report.	13	limitations."
14	That was a question based upon what you just said about	14	Now, the first question is: Is this
15	flow charts. And I'll tell you what I'm trying to	15	statement are these two statements made in paragraph
16	get at.	16	86 true for all six of the logic terms listed in
17	Are flow charts and algorithms the only means	17	paragraph 84?
18	by which a sufficient structure can be disclosed? Flow	18	A. I believe the answer to the question is yes.
19	chart and code excuse me are the only means by	19	But if you'd like an unambiguous confirmation of that,
20	which a sufficient structure can be disclosed for	20	I'll need to read reread my opinions for each of
21	purposes of means-plus-function?	21	them. But I believe the answer to the question is yes.
22	A. Probably not.	22	Q. Okay. Now paragraph, 87 states: "Logic is
23	Q. Okay.	23	not a structural term."
24	A. Things are coming to mind might be a	24	Do you see that?
25	recipe. Do this, followed by this, add three cups of	25	A. I see that.
	Page 201		Page 203
1	this at catera at catera. I could imagina a racina	1	0 What is your what did you mean when you
1	this, et cetera, et cetera. I could imagine a recipe	1	Q. What is your what did you mean when you said "logic is not a structural term"?
1 2 3	this, et cetera, et cetera. I could imagine a recipe having enough specificity that I'd know one would know how the computer was programmed	1 2 3	Q. What is your what did you mean when you said "logic is not a structural term"?
1 2 3 4	this, et cetera, et cetera. I could imagine a recipe having enough specificity that I'd know one would know how the computer was programmed.	1 2 3 4	Q. What is your what did you mean when you said "logic is not a structural term"?A. When I see the word "logic," I don't know what the structure of that logic is _So as I write: "A
1 2 3 4 5	this, et cetera, et cetera. I could imagine a recipehaving enough specificity that I'd know one wouldknow how the computer was programmed.Q. Okay. And if a description had sufficientspecificity to know how the computer would be	1 2 3 4 5	Q. What is your what did you mean when you said "logic is not a structural term"?A. When I see the word "logic," I don't know what the structure of that logic is. So as I write: "A person of ordinary skill in the art would understand
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$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\1\\1\\2\\3\\1\\4\\5\\1\\6\\1\\7\end{array}$	 this, et cetera, et cetera. I could imagine a recipe having enough specificity that I'd know one would know how the computer was programmed. Q. Okay. And if a description had sufficient specificity to know how the computer would be programmed, would that be sufficient structure for means-plus-function? A. If what had? Q. A description, a written description A. Written description had Q sufficient disclosure so that you would know how to program the computer, would that be sufficient structure under your understanding of the law relating to means-plus-function? A. Well, possibly. But that sort of just shift with the debate. And that's why we really need to see a specific example of what you're referring to. 	1 2 3 4 5 6 7 8 9 11 12 13 14 5 6 7 8 9 11 2 3 4 5 6 7 8 9 11 2 3 4 5 6 7 8 9 11 2 3 4 5 6 7 8 9 11 2 3 4 5 6 7 8 9 11 2 3 4 5 6 7 8 9 11 2 3 4 5 6 7 8 9 11 2 3 4 5 6 7 8 9 11 12 3 14 5 6 7 8 9 11 12 3 14 5 6 7 8 9 11 12 12 12 14 5 15 11 12 12 12 12 12 12 12 12 12 12 12 12	 Q. What is your what did you mean when you said "logic is not a structural term"? A. When I see the word "logic," I don't know what the structure of that logic is. So as I write: "A person of ordinary skill in the art would understand logic to mean a series of defined steps for performing function as opposed to a structure." So "logic" is functional, not physical. You know, thinking could be logical, as an example. So you need to see more context. You need to see the language of the claim itself. You need to go back to the specification in order to infer what, if any, structure corresponds to logic. If the claim term is written so that the logic is as it appears in the claim, is defined only by what it does. Q. Now, the patent relates to a WIFI location server; is that correct? The 988 patent, claim 1,
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\3\\4\\1\\5\\6\\7\\1\\1\\1\\8\end{array}$	 this, et cetera, et cetera. I could imagine a recipe having enough specificity that I'd know one would know how the computer was programmed. Q. Okay. And if a description had sufficient specificity to know how the computer would be programmed, would that be sufficient structure for means-plus-function? A. If what had? Q. A description, a written description A. Written description had Q sufficient disclosure so that you would know how to program the computer, would that be sufficient structure under your understanding of the law relating to means-plus-function? A. Well, possibly. But that sort of just shift with the debate. And that's why we really need to see a specific example of what you're referring to. The debate has now shifted to: Is the 	1 2 3 4 5 6 7 8 9 0 11 2 3 4 15 16 17 18	 Q. What is your what did you mean when you said "logic is not a structural term"? A. When I see the word "logic," I don't know what the structure of that logic is. So as I write: "A person of ordinary skill in the art would understand logic to mean a series of defined steps for performing function as opposed to a structure." So "logic" is functional, not physical. You know, thinking could be logical, as an example. So you need to see more context. You need to see the language of the claim itself. You need to go back to the specification in order to infer what, if any, structure corresponds to logic. If the claim term is written so that the logic is as it appears in the claim, is defined only by what it does. Q. Now, the patent relates to a WIFI location server; is that correct? The 988 patent, claim 1, relates to a WIFI location server, correct?
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1	you'd like me to, I can try, but I can tell you that	1	Q. So it's a computer, correct? A WIFI location
2	will take time because I haven't been asked to do that.	2	server is a computer. correct?
3	and I haven't got an opinion on that.	3	A. Well, possibly. In the at completely
4	O. So in interpreting the logic terms of the 988	4	out of context, a server would be one of skill in
5	patent, you did not consider what the meaning of a WIFI	5	the art would have some understanding that the server
6	location server is, correct?	6	is some type of a computer.
7	MR BERTIN: Object to form	7	O Now is the term "logic" in the field of
8	THE WITNESS: No. I didn't say that either.	8	electronics a purely functional term?
9	BY MR LU:	9	A You need to be more specific. If if the
10	0 Okay	10	logic that's when you say "in the field of
11	A But you you asked me for a construction	11	electronics " if the logic is given in the form of
12	and that I'm not prepared to do Whether I considered	12	bunch of Boolean operations to be performed to be
13	the preamble with regard to these logic limitations	13	performed then it is presented in functional form
14	well sure. I read the entire patent including the	14	ves
15	claim and all parts of the claim including the	15	ycs. O But
16	proamble	16	Q. Dut A. If it's a specific circuit showing gates and
17	O Okey. So did you have on understanding when	17	A. If it's a specific clicuit showing gates and interconnection of gates and so forth and so on to
10	Q. Okay. So the logic terms what a WIEI logic terms	10	interconnection of gates and so form and so on to
10	you interpreted the logic terms what a wirf location	10	accomprish some tasks, then perhaps. But again, we
20	A Well I have an understanding of what that is	29	need to I in sort of borderine speculation light
20 51	A. Well, I have an understanding of what that is	20	now. Then perhaps it's it's not just functional
2T 2-2	with regard to the parts of it as claimed in claim 1. Ω	27	form but actually snowing a block diagram, so I would
44 72	Q. Okay. A Exact that I don't know what these logic	22	know now to build this thing. And I need then I
23	A. Except that I don't know what these logic	23	would need to see the context. $\Omega = \Omega^{1}$
2-1 25	function	27	Q. Okay. A Dut none of that by the way is presented in
2.5	Page 205	2.5	A. But none of that, by the way, is presented in Page 207
1	So I know that I could sort of see what	1	this patent. There are no circuit diagrams.
1 2	So I know that I could sort of see what based upon what's written in the specification, this	1	this patent. There are no circuit diagrams. O. So you would disagree with a definition of
1 2 3	So I know that I could sort of see what based upon what's written in the specification, this location server is some sort of a thing that is being	1 2 3	this patent. There are no circuit diagrams. Q. So you would disagree with a definition of logic that would included hardware, such as
1 2 3 4	So I know that I could sort of see what based upon what's written in the specification, this location server is some sort of a thing that is being accessed by WIFI users that's being queried by WIFI	1 2 3 4	this patent. There are no circuit diagrams. Q. So you would disagree with a definition of logic that would included hardware, such as applications, specific integrated circuit, or
1 2 3 4 5	So I know that I could sort of see what based upon what's written in the specification, this location server is some sort of a thing that is being accessed by WIFI users that's being queried by WIFI users in an attempt to determine the location. And	1 2 3 4 5	this patent. There are no circuit diagrams. Q. So you would disagree with a definition of logic that would included hardware, such as applications, specific integrated circuit, or field-programmable gate array software, or a
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$\begin{array}{c}1\\2&3\\4&5\\6&7\\8&9\\10\\11\\2\\13\\14\\15\\16\\7\\18\\9\\0\\1\\22\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\$	So I know that I could sort of see what based upon what's written in the specification, this location server is some sort of a thing that is being accessed by WIFI users that's being queried by WIFI users in an attempt to determine the location. And it's created by means of some this deliberate scanning algorithm, the Chinese postman. I would understand that. But then the claim goes on. It's it's it's it's telling then it's telling us exactly what's being claimed, and that's where I fall off the bandwagon because there is some some of these terms, in my opinion, are indefinite. Q. So "thing." A WIFI location server can be a human brain? MR. BERTIN: Object to object to form. Argumentative. THE WITNESS: I would not interpret this I don't think one of skill in the art would interpret the server to be a human brain. BY MR. LU: Q. Okay. A. It's telling us it's comprising a database of WIFI access points. So there's got to be a database. It can be it can't be only a brain.	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	 this patent. There are no circuit diagrams. Q. So you would disagree with a definition of logic that would included hardware, such as applications, specific integrated circuit, or field-programmable gate array software, or a combination of hardware and software? A. What logic? The claimed logic? Q. Just just the use of the word "logic." A. I I need this in context. Q. Okay. So in the context of computer and computer electronics, you would disagree with a definition of logic that would be hardware, such as an application, specific-integrated circuit, or a field-programmable gate array software, or a combination of software and hardware, correct? A. At this point I would neither agree nor disagree. I need to see more context. Q. Have you heard the phrase "emitter-coupled logic"? A. It's a type of electronics. It's a I believe it's a type of bipolar electronics that's actually capable of operating at substantial clock speeds.



1	So that might be an example of something of	1	O. Is a programmable logic array something that
2	logic in electronics that's not nurely functional	2	can be held in your hand?
3	I've read the circuit diagram That circuit diagram	3	A I can huy a PI A a programmable logic array
4	is is represents the electronics that has been	4	But all that is is a bunch of gates that have not vet
5	fabricated on a chip And it I know the Roolean or	5	been programmed at that point. So that's that
5	twith table functionality that the abin is performing	5	that that it it that's a hunch of
7	There I think there's some structure	7	that that it it that's a bullen of
/	O Is sustain high speed have structure.		gates.
8	Q. Is custom high-speed logic structural or	8	Q. Can you buy a emitter an emitter-coupled
9	functional?	9	logic device?
LO	A. Don't know. I need to see the I would need	10	A. Let me see if I can help you out. Can I buy a
11	to see the the context.	11	chip that was built using emitter-coupled logic
L2	Q. Are logic families structural or functional?	12	technology?
13	Are commercially available logic families structural or	13	Q. Sure.
L4	functional?	14	A. Yes.
15	A. I need to see the context once again.	15	But once again, if I saw the phrase because
L6	MR. BERTIN: Object to form.	16	again, we are talking here about I came here to
L7	BY MR. LU:	17	testify about construction of certain phrases using
L8	Q. Is reconfigurable logic structural or	18	these patents, and you're asking me a bunch of
L9	functional?	19	abstractions. So I need to be sure that you're not
20	A. Well, I I I again and let me this	20	going to misapply some of the responses that I'm
21	time try to elaborate a little bit. I would need to	21	giving.
22	see the context.	22	If I saw emitter-coupled logic for performing
23	If it's reconfigurable logic for performing a	23	some function in a claim specification and and
24	function and the specification included a block	24	and and and in a claim it's a limitation of a
25	diagram a circuit block diagram of that	25	claim and the specification does not show me the block
	Page 217		Page 219
1	reconfigurable logic that performs that function, then	1	diagram for that emitter-coupled logic, then whether I
2	that might denote something other than function.	2	know that emitter-coupled logic thing is something I
3	But if there's no description in the	3	could hold in my hand or not is still being described
4	specification whatsoever about this reconfigurable	4	functionally. I need the block diagram, a flow chart,
5	logic for performing this function no Boolean	5	something that's describing how this emitter-coupled
6	operations, no truth tables, no flow chart then, in	6	logic is structured. I need something more than just
7	my opinion, that would be functional.	7	the phrase "emitter-coupled logic."
8	0. And	8	You're asking can I can I hold a chip that
9	A. And that's why I said you'd need to tell me	9	was built based upon emitter-coupled logic in my
LO	the context.	10	hand emitter-coupled logic technology. Answer, ves.
L1	O. Is emitter-coupled logic structural or	11	If I see emitter-coupled logic for performing a
L2	functional?	12	function in a claim. I'd have to go back to
L3	A I I don't even know how to comprehend that	13	specification to find out whether there's any
14	question Does structural	14	disclosure of the blocked diagram the circuit
15	Ω Does emitter-coupled logic bring to mind a	15	connections a flow chart something to tell me when
16	structure or is that a nurely functional term?	16	that emitter-coupled logic used in the claim is
17	A It brings to mind a class electronics, so it's	17	structure And if it's not in the specification, then
18	A. It offings to finite a class electronics, so it's	18	it will be my opinion that emitter coupled logic is
10	class of electronics	10	heing described purely in functional terms
20	Class of electronics. O - Compating that you can hald in your has $\frac{19}{10}$	20	MD I II: Why don't we take a short break since
4U 01	Q. Something that you can hold in your hand?	20	wire shout to run out of torg
6T 20	A. It brings to mind a class of electronics.	22	we re about to run out of tape.
22	I nat's all. I know what emitter-coupled logic is.	22	THE VIDEOGRAPHER: This marks the end of
23 74	It's not necessarily something I can hold in my hand.	23	Media No. 3 of the deposition of Dr. Anthony Acampora.
24	It's a technology that can be used to build chips. So	24	we're going off the record, and the time is
25	it's not something I can hold in my hand, no.	25	4:30 p.m.
	Page 218		Page 220



1	(A brief recess was taken.)	1	begun, as an example. That that might be, but I'm
2	THE VIDEOGRAPHER: Here begins Media No. 4 in	2	not sure that that would be the only understanding of
3	the deposition of Dr. Anthony Acampora.	3	"predefined " That's just by way of really more by
4	We're back on the record. The time is	4	way of example So I don't know what a "predefined
5	4:39 p.m.	5	rule" is absent context
6	BY MR. LU:	6	O Okay Let's turn to paragraph 123 The
7	O. Dr. Acampora. I'd like you to turn to page 49	7	second sentence, referring back to the term "being
8	of your declaration.	8	suited." states that "it is applied apparently to
9	A. I'm there.	9	different types of equations or algorithms that can be
0	O. And I'd like you to take a look at	10	used for different numbers of access points."
.1	paragraph 121 and any other portions of this section	11	What is what did you mean when you wrote
2	that you need to review in order to answer any	12	that sentence?
.3	questions.	13	MR. BERTIN: Object to form.
4	First question I have for you is: Outside the	14	THE WITNESS: Well, once again. I think the
.5	context of the patent specification, do you have an	15	words speak for themself. So are you asking me to
.6	understanding of what a "rule" is?	16	state what I'm written here differently?
.7	A. So outside of the context of the patent, as I	17	BY MR. LU:
.8	understood your question, I would understand a "rule"	18	O. Well, I'm trying to understand what is meant
9	to be an instruction to be followed.	19	here because it's not absolutely crystal clear to me
20	Q. And	20	what what you're stating here.
21	A. Like add a cup of water, mix thoroughly.	21	A. Well, in a role reversal, let me ask, what's
22	Q. Would a rule also include a statement like:	22	not clear about it?
23	If A, do B; but if C, then do D?	23	Q. Well, the word "apparently to different types
24	A. Again, we're outside the context of the	24	of equations or algorithm," what equations or
25	patent?	25	algorithms are you referring to there?
	Page 221		Page 223
1	O Vez Outside of the content	1	A Wall in in the alaims if I look at if
1	Q. Yes. Outside of the context	1	A. Well, in in the claims, if I look at if
1 2 2	Q. Yes. Outside of the context A. So you're asking is that is that an example	1 2 2	A. Well, in in the claims, if I look at if we look at claim 1 of the 245 patent, next to last
1 2 3 4	Q. Yes. Outside of the context A. So you're asking is that is that an example of a rule? And suppose I know what A and B are and C and D are then was that might be a rule	1 2 3	A. Well, in in the claims, if I look at if we look at claim 1 of the 245 patent, next to last element, the claim speaks about choosing a corresponding location/datermination algorithm. From
1 2 3 4 5	Q. Yes. Outside of the context A. So you're asking is that is that an example of a rule? And suppose I know what A and B are and C and D are, then, yes, that might be a rule.	1 2 3 4	A. Well, in in the claims, if I look at if we look at claim 1 of the 245 patent, next to last element, the claim speaks about choosing a corresponding location/determination algorithm. From plurality of the location/determination algorithms
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12345678901234567890122345	 Q. Yes. Outside of the context A. So you're asking is that is that an example of a rule? And suppose I know what A and B are and C and D are, then, yes, that might be a rule. Q. Okay. Now, outside the context of the patent specification, do you have an understanding of what a "predefined rule" would be? A. That's less clear. There I think one would need one would need some context to get an understanding of what a "predefined rule" is. Q. Do you have an understanding of the phrase "predefined" standing on its own MR. BERTIN: Object to form. BY MR. LU: Q outside of the context of the patent specification? A. Well, no. I I don't. I can tell you what comes to mind, but that's not to say that it's correct. So suppose I'm going to perform some process. But that's a big "if." I'm not sure that's a context in which "predefined" is being used or not. And again, we're not talking about the patent at all now. So maybe there's some sort of a process that's going to be performed. "Predefined" might mean something that was defined before this process was 	1 2 3 4 5 6 7 8 9 0 1 1 2 1 4 5 6 7 8 9 0 1 1 2 1 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2	 A. Well, in in the claims, if I look at if we look at claim 1 of the 245 patent, next to last element, the claim speaks about choosing a corresponding location/determination algorithm. From plurality of the location/determination algorithms, said chosen algorithm being suited for the number of identified WIFI access points. So your question was, as as I understood it, related to what's the location determination algorithm? Was that your question? Q. Well, my my question was, what are you to what were you referring when you made reference to "algorithms" in that second sentence of paragraph 123? MR. BERTIN: Object to form. THE WITNESS: Different methodologies. Methodologies expressed by some sort of a mathematical relationship. BY MR. LU: Q. So an algorithm requires a methodology expressed by a mathematical relationship, correct? A. Well, mathematical in the most general sense. It might be some sort of a it might be Boolean math as opposed to real-number arithmetic. But there'd be a procedure to be followed. Well, it's equations or algorithms. So a procedure to be followed. And I



ANTHONY S. ACAMPORA, PH.D.

234567890112314	 guess it may be expressed by means of some sort of logic or instructions or mathematical symbolism. But that's what I get from reading the specification. BY MR. LU: Q. So an algorithm in this instance can be an equation, Boolean logic, a series of instructions. Anything else? A. Well, let me go back to the specifications. MR. BERTIN: Can you read back the question? (Record read.) MR. BERTIN: Object to form. THE WITNESS: Okay. Here's the difficulty that I'm having in addressing your question. But by explaining the difficulty, maybe I'll answer your 	1 2 3 4 5 6 7 8 9 10 11 12 13 14	in the event that the numerical accuracy needs to be improved. So there are a set of equations, and given in column 12. And when I go back to the claim, I see that the claim actually requires some plurality of the algorithms. And then I'm gonna and I'm not sure what those algorithms are. There's one algorithm that's actually shown. And then I'm going to choose one that's best suited, whatever that means. So I'm concluding that these algorithms are rules or mathematical descriptions, something of this type, based upon what I'm reading here. BY MR. LU: Q. The patent claims reference that the
15	question.	15	algorithms can include a simple, signal-strength,
16	"Being suited" appears in claim 1 of the 245	16	weighted, average model. Do you see that? That's in
117 10	patent. And I read some of the claim language, and	17	the appended claim 6?
10	are different types of let's be specific	19 19	A. 1 do. O Do you have an understanding of what a simple
20	different types of algorithms different algorithms	20	signal-strength, weighted average model would be?
21	in any event, that it be chosen from among. So I'm	21	A. Well, I think we discussed that earlier today.
22	going to choose an algorithm being suited from some	22	Q. Fair enough. So I think it the answer is
23	number of algorithms.	23	"yes"?
24	And again, these algorithms are described in	24	A. I well, yes.
25	the specification. Specification refers to simple	25	Q. Okay. Dependent claim 7 says: "The plurality
	Page 225	'	Page 227
1	signal strength, weighted models, nearest neighbor	1	of the location determination algorithms includes the
2	models combined with triangulation techniques, adapted	2	nearest neighbor model."
3	smoothing based on device velocity, different equations	3	Do you know what a "nearest neighbor model" is
	perform better under different scenarios and tend to be	4	in terms of a location determination algorithm?
4	perform better under unterent scenarios and tenu to be	1	in terms of a rocation determination argontain.
4 5	used together in hybrid deployments to product the most	5	A. No.
4 5 6	used together in hybrid deployments to product the most accurate final readings. Preferred embodiments	5	A. No. Q. Okay. Claim 8 says: "The plurality of the
4 5 6 7	used together in hybrid deployments to product the most accurate final readings. Preferred embodiments (Reporter interruption.)	5 6 7	 A. No. Q. Okay. Claim 8 says: "The plurality of the location determination algorithm includes a triangulation technique."
4 5 6 7 8 9	used together in hybrid deployments to product the most accurate final readings. Preferred embodiments (Reporter interruption.) THE WITNESS: Preferred embodiments of the invention can use a number of positioning algorithms	5 6 7 8	 A. No. Q. Okay. Claim 8 says: "The plurality of the location determination algorithm includes a triangulation technique."
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4 5 7 8 9 10	used together in hybrid deployments to product the most accurate final readings. Preferred embodiments (Reporter interruption.) THE WITNESS: Preferred embodiments of the invention can use a number of positioning algorithms. Decision of which algorithm to use is driven by the number of access points observed and the user case	5 6 7 8 9 10 11	 A. No. Q. Okay. Claim 8 says: "The plurality of the location determination algorithm includes a triangulation technique." Do you know what a "triangulation technique" would be in the context of location determination? A. Yeah. I believe I have an opinion on that in
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$\begin{array}{c} 4\\5\\6\\7\\8\\9\\11\\12\\14\\15\\18\\9\\0\\1\\12\\18\\19\\0\\1\\0\\1\\0\\1\\0\\1\\0\\1\\0\\0\\1\\0\\0\\1\\0$	used together in hybrid deployments to product the most accurate final readings. Preferred embodiments (Reporter interruption.) THE WITNESS: Preferred embodiments of the invention can use a number of positioning algorithms. Decision of which algorithm to use is driven by the number of access points observed and the user case application using it." And it goes on. But it describes some filtering techniques, common filters. That's where the math or the equations come in. But also some broad references made to all of these algorithms from among which one might be chosen that one being best suited, whatever that means there's actually only one algorithm this close. I actually don't know what all of the different algorithms are. The	5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20	 A. No. Q. Okay. Claim 8 says: "The plurality of the location determination algorithm includes a triangulation technique." Do you know what a "triangulation technique" would be in the context of location determination? A. Yeah. I believe I have an opinion on that in my report. I think I know what a what what a triangulation technique is. A location determination algorithm that includes a triangulation technique not from what I'm seeing in this specification, no. In fact, I'm finding that to be quite ambiguous. Q. Okay. Do you have a turning to dependent claim 9, do you have an understanding of what an "adaptive smoothing technique based on device velocity"
$\begin{array}{c} 4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\1\\1\\5\\1\\1\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2$	used together in hybrid deployments to product the most accurate final readings. Preferred embodiments (Reporter interruption.) THE WITNESS: Preferred embodiments of the invention can use a number of positioning algorithms. Decision of which algorithm to use is driven by the number of access points observed and the user case application using it." And it goes on. But it describes some filtering techniques, common filters. That's where the math or the equations come in. But also some broad references made to all of these algorithms from among which one might be chosen that one being best suited, whatever that means there's actually only one algorithm this close. I actually don't know what all of the different algorithms are. The patent doesn't tell me what they are. It simply says, there are a whole burch of different things that way	5 6 7 8 9 10 11 23 14 15 16 17 8 9 20 21 22	 A. No. Q. Okay. Claim 8 says: "The plurality of the location determination algorithm includes a triangulation technique." Do you know what a "triangulation technique" would be in the context of location determination? A. Yeah. I believe I have an opinion on that in my report. I think I know what a what what a triangulation technique is. A location determination algorithm that includes a triangulation technique not from what I'm seeing in this specification, no. In fact, I'm finding that to be quite ambiguous. Q. Okay. Do you have a turning to dependent claim 9, do you have an understanding of what an "adaptive smoothing technique based on device velocity" might be in the context of a location determination algorithm?
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4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	used together in hybrid deployments to product the most accurate final readings. Preferred embodiments (Reporter interruption.) THE WITNESS: Preferred embodiments of the invention can use a number of positioning algorithms. Decision of which algorithm to use is driven by the number of access points observed and the user case application using it." And it goes on. But it describes some filtering techniques, common filters. That's where the math or the equations come in. But also some broad references made to all of these algorithms from among which one might be chosen that one being best suited, whatever that means there's actually only one algorithm this close. I actually don't know what all of the different algorithms are. The patent doesn't tell me what they are. It simply says, there are a whole bunch of different things that you could do, but it doesn't reveal what they are, except in one instance the equations appearing in column 12, or the same equations weighted by the C parameter	5 6 7 8 9 10 11 23 14 15 16 7 8 9 0 11 22 23 24 25	 A. No. Q. Okay. Claim 8 says: "The plurality of the location determination algorithm includes a triangulation technique." Do you know what a "triangulation technique" would be in the context of location determination? A. Yeah. I believe I have an opinion on that in my report. I think I know what a what what a triangulation technique is. A location determination algorithm that includes a triangulation technique not from what I'm seeing in this specification, no. In fact, I'm finding that to be quite ambiguous. Q. Okay. Do you have a turning to dependent claim 9, do you have an understanding of what an "adaptive smoothing technique based on device velocity" might be in the context of a location determination algorithm? A. Well, I might have some understanding of what an adaptive smoothing technique is. Based upon device velocity, no. But moreover, the claim is to is



$\begin{array}{r}1\\2&3&4&5&6\\7&8&9&0&1&2&3&4\\1&1&1&2&1&2&2&2&3\\2&2&2&2&2&2&2\\2&2&2&2&2&2&2\\2&2&2&2&$	referring back to the method of claim 1, wherein the plurality of location determination algorithms includes an adaptive smoothing technique based on device velocity. Well, here, I have some understanding of what adaptive smoothing is. Adaptive smoothing based on device velocity, no. And location determination algorithm including adaptive smoothing technique based on device velocity, again, no. Not from what's taught in the specification and not from anything outside of this either. Q. Now, if one were to have multiple location determination algorithms and use each of those multiple location determination algorithms with a particular number of WIFI access points and determine that one performed better than the others, is that something that one of ordinary skill in the art could do? A. I'm going to ask you to repeat that question. But first, we need to do something about the glare that is blinding me right now. Q. Which pane is it coming through? A. It's coming through this one here, but I'm not sure what we can do since those shades are not providing enough now, we may actually need to hang	1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 10 11 2 3 10 11 2 3 12 1 12 1 12 1 12 1	 Q. Well, let me narrow my question a little bit. When you say "dominated by a single method, are there alternative methods disclosed in the patent specification for creating the database? MR. BERTIN: Object to form. THE WITNESS: No. There were there were there are one-sentence sound bytes, if you will, but no discussion of how it would be done, leaving one to sort of scratch one's head what's meant by this. BY MR. LU: Q. Would one of ordinary skill in the art know how to create a database which involves driving a vehicle in a systematic manner around along every street without using the Chinese postman model? A. Not without some further description. Q. Would one of ordinary skill in the art know how to drive a vehicle in a systematic manner along every street without utilizing the Chinese postman model? A. Would one know how as opposed to could one create some alternative to the Chinese postman? Q. Well, let's A. No. I think one would would need to ponder that for a while and figure out how to do it.
25	something up. That that that just is I	25	Q. What is your
	1490 222		1490 101
1	I I I really can't go on like this, at least not	1	A. And then there'd also be some limitations of
2	in this position.	2	cost, time, and other factors to take into
2		1	11 11
3 ⊿	MR. BERTIN: Do you want to take a break?	3	consideration as well.
3 4 5	MR. BERTIN: Do you want to take a break? MR. LU: Sure. Let's take a short break.	345	consideration as well. Q. What do you mean by "there could also be some limitations of cost time, and other factors to take
3 4 5 6	MR. BERTIN: Do you want to take a break? MR. LU: Sure. Let's take a short break. MR. BERTIN: And reposition you is probably the easiest thing	3 4 5	consideration as well.Q. What do you mean by "there could also be some limitations of cost, time, and other factors to take into consideration as well"?
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		1	
1	their building.	1	Chinese postman routing: you've used the special van
2	Would all but an insignificant number as you	2	with the directive antennas
3	interpret that claim, require the capture of those WIFI	3	One of the problems I'm having is that the
4	access points that are shielded so that they cannot be	4	patent doesn't tell vou how much directivity to use in
5	captured from the street, using any technology?	5	these antennas. So if I have something other than a
6	A. I I understand the question. What claim	6	perfect shield around these access points. I could
7	are we discussing here?	7	deploy a van with a sufficiently large aperture antenna
8	O. Well, both of the independent claims, the 988	8	that I'm going to capture all but an insubstantial
9	and the 694 patents.	9	number of the access points by driving this Chinese
LO	A So let's just discuss one of them I	10	postman routing algorithm
L1	haven't I haven't reached the 988 patent first	11	And maybe it's in the eye of the beholder. If
L2	So as Lunderstood your question, if all of	12	after the end of the day, whoever is responsible for
L3	the access points were enclosed in the Faraday cage	13	gathering data comes back to the back to the office
L 4	let's say a small Faraday cage not one that would	14	and concludes. I haven't got enough files. I know
L5	actually extend over streets that a van that the van	15	there were more access points out there. Maybe the
L6	is driving up and down. But these are small Faraday	16	next day they go back out with a bigger antenna. I
L7	cages that don't extend over any streets.	17	don't know.
L8	Then I don't think that I can't imagine the	18	O. But what your but the claims all but
L9	situation where one would where one could infringe	19	substantially all of the WIFI access points, as you
20	this claim if every access point were captured in a	20	understand it, requires a heroic effort, including the
21	Faraday cage. But because there would be no access	21	use of directional antennas, such as the ones that are
22	points in the database. There wouldn't be no database	22	disclosed in the patent specification?
23	of WIFI access points in that case.	23	MR. BERTIN: Object to form. Mischaracterizes
24	Q. So by that reasoning as well, one would not	24	his testimony.
25	infringe the claim if somehow all of the all but an	25	THE WITNESS: That's not what I said.
	Page 237		Page 239
1	incignificant strike that	1	The notant montions the use of direction
т 2	Insignificant strike that.	1	Ine patent mentions the use of directive
2	So by that same reasoning, if building	2	antennas. Whether they re necessary of hot to 1
כ ⊿	interference alone was sufficient to prevent wIFI	3	doint timink that the use of the alaim
4 5	access point signals from exiting the building and	4 5	necessarily a limitation of the claim.
5	would still need to be contured. And all but on	5	insubstantial number of those access points recorded in
0 7	would still need to be captured. And all but an	0	the detabase you haven't mat this claim limitation
/ 8	to infringe the claim, correct?		And perhaps the only way to get to that point is by
9	A Well the claim requires a database of WIEI	a	And perhaps the only way to get to that point is by
10	access points. And included in that database are	10	the situation
11	records for substantially all WIFI access points in the	11	BY MR III.
12	target area And substantially all means all but	12	O So continuing on with that paragraph you
L3	an insignificant number of Well again since we're	13	state: "Skyhook's rewriting would exclude the purpose
_3 L4	dealing with the claim term let me be precise	14	of the disclosed collection method from the boundaries
L5	The disputed term is substantially all WIFI	15	of the claim. For example, a target area might be
L6	access points. And my proposed construction is and	16	scanned in 500 WIFI access points included in the
L7	I should have bold fast faced these constructions so	17	database of claims. Six months later, there might now
L8	I could find them easily. "All but an insignificant	18	be 1.000 WIFI access points in that same area. If the
L9	number of WIFI access points in the target area."	19	target area had not been rescanned during that time
20	So in the scenario that you just painted, some	20	the database would still have 500 access points and
21	reason the signals can't get out of the buildings but	21	will still have substantially all observed WIFI access
22	you haven't put in Faraday cages, which means some of	22	points simply because no observations had been made
23	the signals did leak out. You're not so we're no	23	during a time in which the actual number of WIFI access
24	longer talking about a complete electromagnetic shield.	24	points present changed dramatically. Skyhook's
25	Then you made your heroic attempt: you've done the	25	proposed construction would destroy the usefulness of
	Page 238		Page 240



1	the target area. I think you're asking me a different	1	A. I haven't formed an opinion on that.
2	question.	2	Q. Let me put to you differently.
3	If here's what I'm hearing you ask. If	3	As an expert in WIFI technology, if I were to
4	substantially, all WIFI access points means all but an	4	ask you how would you go about determining the number
5	insignificant number of WIFI access points in the	5	of WIFI access points on the island of Manhattan, how
6	target area, would I know what that claim limitation	6	would you go about doing that?
7	meant?	7	He smiles.
8	O. Would I know whether that claimed limitation	8	A. Yes.
9	were ever met?	9	MR. BERTIN: Object to form.
10	A. I don't know. I I actually have not got an	10	THE WITNESS: First, you'd have to give me the
11	opinion on that. I would need to think about that	11	budget. Then I would tell you if I thought it was
12	probably fairly deeply. I I don't know.	12	possible, given the budget and the time. So you you
13	O Because I wouldn't know because one	13	need to give me
14	wouldn't know whether or not some paranoid wearing an	14	BY MR LU
15	aluminum foil hat hasn't put you know 1 000 WIFI	15	O Million dollars Million dollars and one
16	access points within a Faraday cage within his	16	vear
17	building correct?	17	MR BERTIN: Object to form
18	MR BERTIN: Object to form	18	BY MR I U
19	THE WITNESS: That's not the only reason	19	Ω That's the budget: that's the time
20	BY MR I II:	20	A You know I even then I'm not sure it could
21	O But there are other reasons because a WIFI	21	be done. One thought that's going through my mind is
22	access point might be located underground not and	22	setting out on foot knocking on doors looking for
23	still in a target region correct?	23	access points and maybe even needing to huy my way
24	Δ That's another reason	24	into the premises to do a visual inspection. So L I
25	There are that's the problem why I at	25	might run out of your million-dollar hudget before I
	Page 245		Page 247
1	this point I actually haven't got an opinion on that	1	got a if I start at Battery Park, I may not get past
1 2	this point I actually haven't got an opinion on that because I'd have to think about these different	1 2	got a if I start at Battery Park, I may not get past Wall Street and run out of budget. I I don't know.
1 2 3	this point I actually haven't got an opinion on that because I'd have to think about these different scenarios and which one of those were covered by the	1 2 3	got a if I start at Battery Park, I may not get past Wall Street and run out of budget. I I don't know. You're really creating a a a wild hypothetical
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