EXHIBIT 6

	Attorneys' Eyes Only		
1	UNITED STATES DISTRICT COURT		
2	NORTHERN DISTRICT OF CALIFORNIA		
3	SAN FRANCISCO DIVISION		
4			
5			
6	ORACLE AMERICA, INC.,)		
7	Plaintiff,)		
8	vs.) No. CV 10-03561 WHA		
9	GOOGLE, INC.,)		
10	Defendant.)		
11			
12			
13	ATTORNEYS' EYES ONLY		
14			
15	Videotaped Deposition of EREZ LANDAU,		
16	taken at 42 Chauncy Street, Boston,		
17	Massachusetts, commencing at 9:50 a.m.,		
18	Wednesday, September 14, 2011, before		
19	Jill Shepherd, RPR, MA-CSR No. 148608,		
20	NH-CSR No. 128, CA-CSR No. 13275, CLR,		
21	Notary Public.		
22			
23			
24			
25	PAGES 1 - 113		
		Page	1
			_

1 used the skeleton. It was one of them, but	1 Q. 35,000 shekels a month?
2 I don't remember which one. It was just for	2 A. Yes.
3 form to fill out my stuff to give it the	3 Q. It is about 3.7 shekels per dollar
4 same format.	4 approximately; is that correct?
5 Q. You didn't review the content of	5 A. That's 3.5 and 3.7 depending on the day of
6 Mr. Vandette or Mr. Poore's reports?	6 the week.
7 A. Not technically.	7 Q. Do you own any Oracle stock or options?
8 Q. Is Oracle paying you anything in addition to	8 A. A few.
9 your regular salary for working on this	9 Q. Do you know approximately how much?
10 case?	10 A. Around \$2,000 worth.
11 A. No.	11 Q. What kind of phone do you use?
12 Q. Approximately how many hours or days have	12 A. iPhone.
13 you spent on this case?	13 Is it possible to get some more water?
14 A. Hours, it's about 100 or 200. Not including	14 (Pause.)
15 this week. This week jump it up.	15 (Exhibit 488 marked.)
16 Q. Is your involvement in this case officially	16 Q. To make things official, have you seen this
17 part of your job responsibilities?	17 notice before?
18 A. It's approved by my manager, but it's not	18 A. (Witness reviewing document).
19 part of my job responsibility.	19 No.
20 Q. Have you in the past performed any work for	20 Q. Okay. Exhibit 488 is just a notice of your
21 other litigations	21 deposition.
22 A. No.	22 Have you been informed that you are
23 Q involving Oracle or Sun?	23 here today to testify as an employee of
24 A. No.	24 Oracle regarding matters in this case?
25 Q. Do you have any patents on Java-related	25 MR. PETERS: Objection. Form.
Page 18	Page 20
1 technology?	1 A. Yes.
1 technology? 2 A. Yes.	
2 A. Yes.	2 (Exhibit 489 marked.)
2 A. Yes. 3 Q. How many?	2 (Exhibit 489 marked.)3 Q. Exhibit 489 is a copy of U.S. patent number
2 A. Yes.	2 (Exhibit 489 marked.)3 Q. Exhibit 489 is a copy of U.S. patent number
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent.
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent.
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially.
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before?
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"?
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review?
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims,
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one.
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase.
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 17 A. Yes. 18 Q. How much? 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the 17 patent?
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 17 A. Yes. 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the 17 patent? 18 A. No.
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 17 A. Yes. 18 Q. How much? 19 A. \$2,000 per patent. 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the 17 patent? 18 A. No. 19 Q. Did you review
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 17 A. Yes. 18 Q. How much? 19 A. \$2,000 per patent. 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the 17 patent? 18 A. No. 19 Q. Did you review 20 A. I would look at them. I'm familiar with
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 17 A. Yes. 18 Q. How much? 19 A. \$2,000 per patent. 20 Q. Do you have any financial interest in the 21 outcome of this litigation? 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the 17 patent? 18 A. No. 19 Q. Did you review 20 A. I would look at them. I'm familiar with 21 them. That's why I did not bother to
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 17 A. Yes. 18 Q. How much? 19 A. \$2,000 per patent. 20 Q. Do you have any financial interest in the 21 outcome of this litigation? 22 A. No. 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the 17 patent? 18 A. No. 19 Q. Did you review 20 A. I would look at them. I'm familiar with 21 them. That's why I did not bother to 22 Q. Did you read through the specification of
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 17 A. Yes. 18 Q. How much? 19 A. \$2,000 per patent. 20 Q. Do you have any financial interest in the 21 outcome of this litigation? 22 A. No. 23 Q. What is your salary? 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the 17 patent? 18 A. No. 19 Q. Did you review 20 A. I would look at them. I'm familiar with 21 them. That's why I did not bother to 22 Q. Did you read through the specification of 23 the patent, the general discussion?
 2 A. Yes. 3 Q. How many? 4 A. Well, I submitted four. I think only one is 5 finished on the line, on the way, fully 6 approved, but four submitted. 7 Q. One patent issued and 8 A. Four patents issued, one of them was 9 approved. They are in process still. It 10 takes several years. 11 Q. What are those patents generally about? 12 A. Most of them are related to memory usage and 13 class loading and fast startup. The same 14 area very close area to the '720 patent. 15 Q. Do you get any bonus or award for submitting 16 patent applications? 17 A. Yes. 18 Q. How much? 19 A. \$2,000 per patent. 20 Q. Do you have any financial interest in the 21 outcome of this litigation? 22 A. No. 23 Q. What is your salary? 24 A. 35,000 dollars shekels. Shekels, it's 	 2 (Exhibit 489 marked.) 3 Q. Exhibit 489 is a copy of U.S. patent number 4 7,426,720, which I will refer to as the '720 5 patent. 6 Have you reviewed the '720 patent 7 before? 8 A. Partially. 9 Q. What do you mean by "partially"? 10 A. I did not read it start to end, only 11 specific. 12 Q. What specific portions did you review? 13 A. The abstracts, and then part of the claims, 14 especially claim number one. 15 Q. You did not let me rephrase. 16 Did you review the figures in the 17 patent? 18 A. No. 19 Q. Did you review 20 A. I would look at them. I'm familiar with 21 them. That's why I did not bother to 22 Q. Did you read through the specification of 23 the patent, the general discussion? 24 A. Not in this form. I was reviewing it when

6 (Pages 18 - 21)

	-	
1	submitted. But in the final form? No.	1 being duplicated via the process of the page
2	It's not always the same.	2 table, TBL, and after that point in the
3	Q. Do you mean you were reviewing a draft of	3 process is created in the schedule, and that
4	this patent?	4 the entire page table is identical.
5	A. Yes.	5 Page table is what translates from virtual
6	Q. Do you know which claims of this patent are	6 addressing into physical addressing, and the
7	asserted in this case?	7 result of it is you have two processes with
	A. I was told. I don't remember by heart.	8 the exact same identity, the same thought,
	Q. Did you review Oracle's infringement	9 same recollection, same memory, same state
10	contentions for this patent?	10 exactly.
	A. No. I think I was asked about it.	11 And after this point, they are going
	Q. What is this patent about?	12 their own separate ways, but the cloning is
13	MR. PETERS: Objection. Form.	13 same state, not just the application. Once
	A. It's about the usage of copy-on-write	14 they start to go their own ways, there is
15	mechanism cloning for the benefit of fast	15 the technique, all the memory they are
16	and efficient memory class loading and other	16 referencing is the read-only, and when
17	stuff.	17 they try to touch it, modify it, they get an
	Q. What functionality in Android is accused of	18 exception automatically. This page has been
19	infringing this patent?	19 copied, and you get your own private copy of
20	MR. PETERS: Objection. Form.	20 it.
	A. Zygote.	21 This is why it's also called
	Q. How do you know what functionality was	22 copy-on-write. Copy-on-write is just a
23	accused in this case?	23 nickname for the entire process of cloning
	A. I looked into zygote code and I can find the	24 via fork. This is the phenomenon and this
25	code that relate to this. I am very	25 technique is used for fast saving and faster
	Page 22	Page 2
1	familiar with Sun's special implementation	1 startup and memory saving in general, but
2	of this patent and I was looking for	2 there is much more.
3	something similar.	3 Q. When was this technique developed?
4	Q. Did you perform that analysis independently	4 A. 1980 plus once a year [sic]. 1979 or to
5	of Oracle's attorneys?	5 1981, but I think it's 1980, plus one
	A. Attorneys? Yes. I was consulting with	6 plus/minus one year.
7	John Mitchell. I was consulting with him.	7 Q. Was it implemented in operating systems like
	Q. Did he tell you what to look at?	8 UNIX?
	A. We agreed upon what we agreed upon is	9 A. It was implemented only in UNIX, not "like."
10	that copy-on-write is an essential part of	10 Q. Is it in Linux?
11	this patent and must be disabled in order to	11 A. Everything from Unix is in Linux as well.
12	disable this patent, and also we agreed that	12 Q. Were there virtual machines that used it?
13	once we disable copy-on-write, all the other	13 A. Yes. CVM, but CVM was the first one, and
14	parts are disabled, so it's efficient to	14 then Android was the only one.
15	disable this entire patent by disabling	15 Q. Are you familiar with the Perl virtual
16	copy-on-write. So disable this entire	16 machine?
17	patent by disabling of copy-on-write. So	17 A. Which?
18	disable of copy-on-write is a must and	18 Q. Perl.
19	sufficient.	19 A. No.
	Q. What is copy-on-write?	20 Q. Which Oracle products use it? Let me
	A. The long version is two days, the short	21 rephrase.
22	version is one hour. I will try to do it.	22 Which Oracle products use
23	It's pretty complicated.	23 copy-on-write?
24	Copy-on-write starts with fork in	24 MR. PETERS: Objection. Form.
25	which the entire image of an application is Page 23	25 A. I told you, CVM. Page 2

1 Q. Turning to page four, paragraph 18, you say,	1 A. To the best of my knowledge; and it's not my
2 "We selected a single production phone."	2 expertise, no.
3 Who is "we"?	3 Q. To the best of your knowledge, some phones
4 A. I would say me and Seeon, and also	4 may have a faster processor than other
5 John Mitchell.	5 phones; is that correct?
6 Q. And you tested two Nexus One phones; is that	6 MR. PETERS: Objection. Form.
7 correct?	7 A. Yes.
8 A. Yes.	8 Q. Would it make sense that faster processors
9 Q. You had two separate phones; is that	9 can result in a faster startup time?
10 correct?	10 MR. PETERS: Objection. Form.
11 A. Yes.	11 A. There is a general trend in the market to
12 Q. Did Oracle send those phones to you in	12 use faster and stronger and more powerful
13 Israel to test?	13 and more memory capacity devices, and on the
14 A. I had them before.	14 other end to use more and more software,
15 Q. Paragraph 19, you say, "Memory consumption	15 demands more performance, more memory, and
16 is not expected to vary between phones" and	16 more stuff to do at startup, so your device
17 "startup time is expected to stay	17 is always too slow and you never have enough
18 proportional to other timing on the phone";	18 memory.
19 is that correct?	19 Q. But if you are using the same software
20 A. Yes.	20 MR. PETERS: Objection. Form.
21 Q. Do all phones have the same amount of	21 Q would a faster processor run that
22 memory?	22 software faster?
23 A. No.	23 MR. PETERS: Objection. Form.
24 Q. Do you know how Android manages memory?	24 A. As a customer of phones, I will use the
25 A. It's very it's too open a question.	25 cheapest phone that can run my set of
Page 38	Page 40
1 Q. Do you understand that if a phone has less	1 software. I won't waste money to make it
1 Q. Do you understand that if a phone has less	
2 memory Android may have to be more	2 faster if I can use a cheaper one, but
2 memory, Android may have to be more 3 aggressive in clearing out memory to make	2 faster if I can use a cheaper one, but3 O. When was the Nexus One phone released?
3 aggressive in clearing out memory to make	3 Q. When was the Nexus One phone released?
 3 aggressive in clearing out memory to make 4 space available 	3 Q. When was the Nexus One phone released?4 A. I don't remember.
 3 aggressive in clearing out memory to make 4 space available 5 A. Yes. 	3 Q. When was the Nexus One phone released?4 A. I don't remember.5 Q. If I told you it was released in
 3 aggressive in clearing out memory to make 4 space available 5 A. Yes. 6 Q for new applications? 	 3 Q. When was the Nexus One phone released? 4 A. I don't remember. 5 Q. If I told you it was released in 6 January 2010, would that make sense?
 3 aggressive in clearing out memory to make 4 space available 5 A. Yes. 6 Q for new applications? 7 A. Sorry. It will clear application that's not 	 3 Q. When was the Nexus One phone released? 4 A. I don't remember. 5 Q. If I told you it was released in 6 January 2010, would that make sense? 7 A. I don't know. I didn't follow the initial
 3 aggressive in clearing out memory to make 4 space available 5 A. Yes. 6 Q for new applications? 7 A. Sorry. It will clear application that's not 8 in use if it's scarce on memory. 	 3 Q. When was the Nexus One phone released? 4 A. I don't remember. 5 Q. If I told you it was released in 6 January 2010, would that make sense? 7 A. I don't know. I didn't follow the initial 8 declaration of it.
 3 aggressive in clearing out memory to make 4 space available 5 A. Yes. 6 Q for new applications? 7 A. Sorry. It will clear application that's not 8 in use if it's scarce on memory. 9 Q. And if an Android-based device has more 	 3 Q. When was the Nexus One phone released? 4 A. I don't remember. 5 Q. If I told you it was released in 6 January 2010, would that make sense? 7 A. I don't know. I didn't follow the initial 8 declaration of it. 9 Q. Why did you test the Nexus One phone?
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11 (Pages 38 - 41)

1			
	e e .	1	
2	0 1 0.1	2	(Exhibit 491 marked.)
3		3	Q. Exhibit 491 is a printout from the Android
4	5 1 5 1	4	Web site.
5	1 , 5	5	Have you ever seen this before?
6		6	A. I think it's a reference that I was giving.
7	· · · · · · · · · · · · · · · · · · ·	7	
8	51 5 1 5	8	sure. You have to be more precise. Let me
9		9	
10	1 1	10	5
11	working on.	11	sure. If you tell me it's the same
12	· · · ·	12	reference that I have given, then it's okay.
13	1	13	But I'm not sure.
	A. Since for Fordtran in '64, I think, '65.		Q. It is.
	Q. Shared memory has been around for a while		A. So, okay. So it's the
16		16	source.android.com/source/initilizing.html.
	A. It is a different shared memory than what	17	It's this.
18			Q. Did you use a Linux machine or a Mac machine
19		19	to test the phones?
20			A. Linux.
21			Q. Which version of Linux?
	Q. In paragraph 28, you say, "All workspaces		A. Ubuntu.
23	1		Q. Which version of Ubuntu?
24			A. Not sure.
25	A. Yes. Page 58	25	Q. Did you install the JDK onto Linux? Page 60
	Page 38		Page 60
	Q. Did you do that yourself?	1	A. I installed the JDK onto Linux, but not for
2	A. No.	2	
3	•	3	<i>.</i>
	A. Seeon. I supervised him.	4	
5		5	č
	A. In most cases I was standing next to him.	6	mut on 9
7		6	1
	Q. Why did he do it?	7	A. It's written over here in the instructions.
8	A. He's more familiar with the Android SDK	7 8	A. It's written over here in the instructions. We took the entire repo. It's page six, the
8 9	A. He's more familiar with the Android SDK techniques. If I would do it, it would take	7 8 9	A. It's written over here in the instructions.We took the entire repo. It's page six, the beginning. For the instructions, page six.
8 9 10	A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking	7 8 9 10	A. It's written over here in the instructions.We took the entire repo. It's page six, the beginning. For the instructions, page six.Q. I understand that. But I want to understand
8 9 10 11	 A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar 	7 8 9 10 11	A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six.Q. I understand that. But I want to understand the build environment that you created to
8 9 10 11 12	 A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is 	7 8 9 10 11 12	A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six.Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you
8 9 10 11 12 13	A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is less valuable.	7 8 9 10 11 12 13	 A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six. Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you put on the Ubuntu version of Linux.
8 9 10 11 12 13 14	A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is less valuable.Q. We'll be sure to ask him if he has the same	7 8 9 10 11 12 13 14	 A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six. Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you put on the Ubuntu version of Linux. Did you put on the Oracle JDK or open
8 9 10 11 12 13 14 15	A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is less valuable.Q. We'll be sure to ask him if he has the same opinion.	7 8 9 10 11 12 13 14 15	 A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six. Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you put on the Ubuntu version of Linux. Did you put on the Oracle JDK or open JDK onto Linux?
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8 9 10 11 12 13 14 15 16 17 18	 A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is less valuable. Q. We'll be sure to ask him if he has the same opinion. A. He got less salary. And, normally, I was supervising for the first time he was doing it, and the second and third and fourth time 	7 8 9 10 11 12 13 14 15 16 17 18	 A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six. Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you put on the Ubuntu version of Linux. Did you put on the Oracle JDK or open JDK onto Linux? A. Yes, as instructed. Q. Do you know which version of JDK? A. Six. What was available then. It's not so
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8 9 10 11 12 13 14 15 16 17 18 19 20	 A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is less valuable. Q. We'll be sure to ask him if he has the same opinion. A. He got less salary. And, normally, I was supervising for the first time he was doing it, and the second and third and fourth time he was doing it, he was doing it alone, and I was just making sure it was okay. There 	7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six. Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you put on the Ubuntu version of Linux. Did you put on the Oracle JDK or open JDK onto Linux? A. Yes, as instructed. Q. Do you know which version of JDK? A. Six. What was available then. It's not so important. Q. JDK6?
8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is less valuable. Q. We'll be sure to ask him if he has the same opinion. A. He got less salary. And, normally, I was supervising for the first time he was doing it, and the second and third and fourth time he was doing it, he was doing it alone, and I was just making sure it was okay. There was many, many executions so I was just 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six. Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you put on the Ubuntu version of Linux. Did you put on the Oracle JDK or open JDK onto Linux? A. Yes, as instructed. Q. Do you know which version of JDK? A. Six. What was available then. It's not so important. Q. JDK6? A. Yes.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is less valuable. Q. We'll be sure to ask him if he has the same opinion. A. He got less salary. And, normally, I was supervising for the first time he was doing it, and the second and third and fourth time he was doing it, he was doing it alone, and I was just making sure it was okay. There was many, many executions so I was just supervising the first time making sure it's 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six. Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you put on the Ubuntu version of Linux. Did you put on the Oracle JDK or open JDK onto Linux? A. Yes, as instructed. Q. Do you know which version of JDK? A. Six. What was available then. It's not so important. Q. JDK6? A. Yes. Q. Did you do this before you downloaded the
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8 99 100 111 122 133 144 155 166 177 188 199 200 211 222 233 24	 A. He's more familiar with the Android SDK techniques. If I would do it, it would take me four times the time than it is taking him. Sometimes he is just more familiar with the issues. And besides, his time is less valuable. Q. We'll be sure to ask him if he has the same opinion. A. He got less salary. And, normally, I was supervising for the first time he was doing it, and the second and third and fourth time he was doing it, he was doing it alone, and I was just making sure it was okay. There was many, many executions so I was just supervising the first time making sure it's correct. Then he can repeat the process again and again. He can repeat the process 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 A. It's written over here in the instructions. We took the entire repo. It's page six, the beginning. For the instructions, page six. Q. I understand that. But I want to understand the build environment that you created to build Android. So you indicated that you put on the Ubuntu version of Linux. Did you put on the Oracle JDK or open JDK onto Linux? A. Yes, as instructed. Q. Do you know which version of JDK? A. Six. What was available then. It's not so important. Q. JDK6? A. Yes. Q. Did you do this before you downloaded the Android code? A. I don't remember. It's not important. If
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16 (Pages 58 - 61)

1 result.	1 (Exhibit 492 marked.)
2 Q. Did you install all the packages that this	2 Q. Exhibit 492 is another Web page from the
3 Web site says to install on Linux?	3 Android Web site that discusses downloading
4 A. I think I'm not sure.	4 the Android source code; is that correct?
5 Q. You see on the bottom towards the bottom of	5 A. This is the title.
6 the page, it has an S-U-D-O, sudo	6 Q. Do you recall seeing this page before?
7 add-apt-get, then a list of a whole bunch of	7 MR. PETERS: Objection. Form.
8 packages.	8 A. Not off the top of my head. Maybe, yes.
9 Are you saying you are not sure if	9 Maybe, no. I'm not sure.
10 these were installed?	10 Q. On the top of page two, it has in green a
11 A. Well, I'm sure what was written here was	11 repo command to download Froyo source code,
12 installed. I am not sure those composed of	12 and that is the same as the command that you
13 everything. I'm sure this was written and	13 listed in paragraph 25 of your report; is
14 this is what was done, but you are asking me	14 that correct?
15 a different question.	15 A. It is the same.
16 Q. Your report doesn't say only says that	16 Q. Do you know what gets downloaded to your
17 you downloaded the Android source code.18 I'm	17 computer when you run this command?18 A. Most of that SDK. This is SDK. There is
19 MR. PETERS: Objection. Form.	19 multiple layers of downloading it. This is
20 Q. Is that correct?	20 the initial one. There are additions to it
21 A. It's ambiguous.	21 to make it functional.
22 Q. What's ambiguous?	22 I want to correct myself. I did not
23 MR. PETERS: Objection. Form.	23 see this key before. There is a key on the
24 A. Saying just the Android itself what is	24 end of page two that you have to copy. I
25 written over here is correct [indicating],	25 did not see it before. So I am sure I did
Page 62	Page 64
1 and it's full of detailed instructions and	1 not see this page before.
2 long ones and	2 Q. This appears to be the Web page that
3 Q. Paragraph 28, you say, "All workspaces were	3 explains how to download the Android source
4 compiled and loaded to the device following	3 explains how to download the Android source4 code and verify that it was downloaded
4 compiled and loaded to the device following5 the directions described at Google's Web	 3 explains how to download the Android source 4 code and verify that it was downloaded 5 correctly; is that correct?
 4 compiled and loaded to the device following 5 the directions described at Google's Web 6 site." 	 3 explains how to download the Android source 4 code and verify that it was downloaded 5 correctly; is that correct? 6 MR. PETERS: Objection. Form.
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 4 compiled and loaded to the device following 5 the directions described at Google's Web 6 site." 7 A. Yes. 8 Q. You testified that Seeon was the one who 9 actually did that; is that correct? 	 3 explains how to download the Android source 4 code and verify that it was downloaded 5 correctly; is that correct? 6 MR. PETERS: Objection. Form. 7 A. Maybe. I did not see it before. We've been 8 using this [indicating]. This was 9 sufficient for us.
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17 (Pages 62 - 65)

1 Q. But if copy-on-write is disabled, it would	1 work that way?
2 just be a waste of memory to load these into	2 MR. PETERS: Objection. Form.
3 preloader?	3 A. What for?
4 A. Yes.	4 Q. Well, you wrote an application that loaded
5 Q. And it might be more sensible to simply	5 all of these classes, but with copy-on-write
6 launch the specific classes that are needed	6 disabled; is that correct?
7 when an application that needs them is	7 A. To show the difference.
8 loaded into memory; is that correct?	8 Q. But would it make sense for Android to
9 A. Yes.	9 actually implement it this way?
10 Q. So, for example, if you had a text messaging	10 MR. PETERS: Objection. Form.
11 application and it needed 15 of these	11 A. Doesn't matter. It was not the purpose
12 classes to run, it would make sense to just	12 to show to demonstrate the way to
13 launch the text messaging application, load	13 demonstrate the value that can be given from
14 just those 15 classes into memory; is that	14 copy-on-write if you are using more of the
15 correct?	15 library loaded. When you find out if you
16 MR. PETERS: Objection. Form.	16 have point one seconds per application
17 A. Not exact.	17 currently, because I don't use much
18 Q. What do you mean?	18 Q. Right.
19 A. You don't need to load anything if you don't	19 A and I want to show what happens if an
20 have anything for it. You just load it on	20 application will use much more. I take the
21 demand when you need it. It loads	21 position that if use everything, which is
22 automatically. You don't have to give a	22 the maximum, when you use everything listed
23 list of anything. If you don't have any	23 now, in the future it might be a larger list
24 kind of something is preloading into your	24 that can utilize much more time saving.
25 system, there's no need for you to preload	25 It's valid. And I just want to demonstrate
Page 86	Page 88
1 it.	1 the potential. I want to say this is
2 Q. But it doesn't make sense to preload it	2 typical, or this is the potential for saving
-	
3 ahead of time unless you are using	3 application. The application becomes more
3 ahead of time unless you are using4 copy-on-write; is that correct?	3 application. The application becomes more4 complex and will save more. The application
 3 ahead of time unless you are using 4 copy-on-write; is that correct? 5 MR. PETERS: Objection. Form. 	 application. The application becomes more complex and will save more. The application become more complex, it would save more.
 3 ahead of time unless you are using 4 copy-on-write; is that correct? 5 MR. PETERS: Objection. Form. 6 A. The preloading is effective with the 	 3 application. The application becomes more 4 complex and will save more. The application 5 become more complex, it would save more. 6 Those applications are very and the
 3 ahead of time unless you are using 4 copy-on-write; is that correct? 5 MR. PETERS: Objection. Form. 6 A. The preloading is effective with the 7 copy-on-write. 	 application. The application becomes more complex and will save more. The application become more complex, it would save more. Those applications are very and the saving is not significant, .1 second per
 3 ahead of time unless you are using 4 copy-on-write; is that correct? 5 MR. PETERS: Objection. Form. 6 A. The preloading is effective with the 7 copy-on-write. 8 Q. So without copy-on-write, it would make more 	 application. The application becomes more complex and will save more. The application become more complex, it would save more. Those applications are very and the saving is not significant, .1 second per application. It's nice. It's not
 3 ahead of time unless you are using 4 copy-on-write; is that correct? 5 MR. PETERS: Objection. Form. 6 A. The preloading is effective with the 7 copy-on-write. 8 Q. So without copy-on-write, it would make more 9 sense to preload on demand? 	 application. The application becomes more complex and will save more. The application become more complex, it would save more. Those applications are very and the saving is not significant, .1 second per application. It's nice. It's not significant. It can reach a few seconds per
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Attorneys	
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2 3 COMMONWEALTH OF MASSACHUSETTS	2
4 MIDDLESEX, SS.	3 WEDNESDAY, SEPTEMBER 14, 2011
5	4 WITNESS PAGE
I, Jill Shepherd, Notary Public, in	5 EREZ LANDAU
6 and for the Commonwealth of Massachusetts,7 do hereby certify that:	6 Examination by Mr. Francis 5
EREZ LANDAU, the witness whose	7 Examination by Mr. Peters 106
8 deposition taken on September 14th, 2011 is	8
9 hereinbefore set forth, was satisfactorily	9
identified by means of driver's license, and	10
10 was duly sworn by me, and that the foregoing11 transcript is a true and accurate record of	11 DEPOSITION EXHIBITS
the testimony given by such witness and such	12 NUMBER DESCRIPTION PAGE
12 testimony is a true and accurate	13
13 transcription of my stenotype notes to the	14 Exhibit 488 Notice 20
best of my knowledge, skill, and ability. 14 I further certify that I am not	15 Exhibit 489 US Patent No. 7,426,720 21
14 I further certify that I am not15 related to any of the parties in this matter	16 Exhibit 490 Summary and Report of Erez 28
by blood or marriage and that I am in no way	17 Landau
16 interested in the outcome of this matter.	18 Exhibit 491 Open Source Project 60
17 IN WITNESS WHEREOF, I have hereunto	19 Exhibit 492 Open Source Project 64
18 set my hand and notarial seal this 14th day19 of September, 2011.	20 Exhibit 493 Open Source Code 67
20	21 Exhibit 494 Open Source Project 71
21	22 Exhibit 495 Android Copy-on-write 76
22	23 Statistics
23Jill Shepherd, RPR24Notary Public	24 Exhibit 496 MtaskClassLoading.java 83
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1 I declare under penalty of perjury	1 DEPOSITION EXHIBITS (CONTINUING)
2 under the laws that the foregoing is	2 NUMBER DESCRIPTION PAGE
3 true and correct.	3
4	4 Exhibit 498 Source Code 93
5 Executed on, 20,	5 Exhibit 499 Source Code 93
6 at	6 Exhibit 500 Supplemental Summary and 102
7	7 Report of Erez Landau
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