

1                   IN THE UNITED STATES DISTRICT COURT  
2                   FOR THE EASTERN DISTRICT OF TEXAS  
3                   TYLER DIVISION

3 MIRROR WORLDS, LLC                   \*   Civil Docket No.  
                                          \*  
4                   \*   6:08-CV-88  
VS.                   \*   Tyler, Texas  
5                   \*  
                          \*   September 30, 2010  
6 APPLE, INC., ET AL               \*   12:40 - 4:20 P.M.

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8                   TRANSCRIPT OF JURY TRIAL  
9                   AFTERNOON SESSION - PART 1  
10                  BEFORE THE HONORABLE LEONARD DAVIS  
11                  UNITED STATES DISTRICT JUDGE

12 APPEARANCES:

13                                   FOR THE PLAINTIFF

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33 (Proceedings recorded by mechanical stenography,  
34 transcript produced on CAT system.)  
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P R O C E E D I N G S

COURT SECURITY OFFICER: All rise.

(Jury out.)

THE COURT: Please be seated.

The Court has reviewed the parties' briefing, and with that, is going to deny the Defendants' motion with regard to the waiver of the attorney/client privilege.

The Court is going to grant the Defendants' motion for directed verdicts to the two claims, 16 and 18, of the '427 patent.

The Court has a written order that will be provided to you.

Is there anything further before we bring the jury in?

MR. CARROLL: None from the Plaintiff, Your Honor.

THE COURT: All right. Bring the jury in.

COURT SECURITY OFFICER: All rise for the jury.

(Jury in.)

THE COURT: Counsel, approach, if you would.

(Bench conference.)

1 THE COURT: This patent -- I just want to  
2 know whether I need to leave it in the Charge?

3 MR. RANDALL: No. I'm going to withdraw  
4 it, and I would like to do this, though.

5 We have an agreement not to discuss  
6 withdrawn claims, and so when I withdraw it, and -- I  
7 don't want it discussed, just like I won't discuss these  
8 claims.

9 MR. CARROLL: I don't know what you said,  
10 Judge.

11 THE COURT: I just asked if they were  
12 going to assert that in the patent, because if they're  
13 not, I want to take it out of the Charge. He said that  
14 they are not going to, but he doesn't want you beating  
15 him over the head with the fact that they've withdrawn  
16 that.

17 MR. RANDALL: Oh, okay. And I'm not  
18 going to beat him over the head with that ruling or the  
19 other.

20 THE COURT: Well, you'd be violating the  
21 rule if --

22 MR. RANDALL: Okay.

23 THE COURT: You'd be violating my order.

24 (Bench conference concluded.)

25 THE COURT: Very well.

1                   Who will be your next witness?

2                   MR. RANDALL: Your Honor, our next  
3 witness is by videotape deposition. It's Mr. -- or  
4 Professor Mark Lansdale. He'll testify about his  
5 MEMOIRS system.

6                   The time on this, Your Honor, is 20  
7 minutes for Apple, and 6 minutes for Mirror Worlds.

8                   THE COURT: Okay.

9                   (Video clip playing.)

10                  QUESTION: And did you describe both the  
11 design and the functionality of the MEMOIRS system in  
12 articles?

13                  ANSWER: Yes. I believe it was published  
14 principally in an article in the International Journal  
15 of Man-Machine Studies, but there are a number of other  
16 auxiliary publications at the conferences that I went to  
17 and also the occasional book chapter.

18                  QUESTION: And did you at any time,  
19 during your work at any of those universities, work on a  
20 project call MEMOIRS?

21                  ANSWER: Yes, I -- I developed that  
22 system while I was working at Loughborough University.

23                  QUESTION: And approximately when did you  
24 begin development of MEMOIRS?

25                  ANSWER: This work was in my head in



1 received January 26th, 1990, and accepted in revised  
2 form, November 25, 1990.

3 I will mark for identification as Exhibit  
4 6 an article from Applied Ergonomics, 1988, entitled:  
5 The Psychology of Personal Information Management, by  
6 Professor Lansdale. And this document bears Bates-stamp  
7 No. 14844 through 14855. And it bears a date at the  
8 bottom right-hand corner of nearly every page, Applied  
9 Ergonomics, March 1998.

10 So did the MEMOIRS system have the  
11 capability of organizing off of its documents based on  
12 time?

13 ANSWER: Yes. That -- that was its  
14 principal structure.

15 QUESTION: Okay. And did the MEMOIRS  
16 system also -- as described in your article, also have  
17 the capability of not only organizing all the documents  
18 based on time, but also searching for particular  
19 attributes of all those documents and coming up with a  
20 sublist, if you will?

21 ANSWER: Yes.

22 QUESTION: Although there is no objective  
23 measure of difficulty, this certainly complies with most  
24 people's experience that documents can effectively  
25 become lost in computer-based and paper-based

1 information storage systems.

2                   Add this to the continuing expansion of  
3 the size of personal databases and the continued fueling  
4 of this trend by the new technology, and there's clearly  
5 a need for effective techniques for the storage and  
6 retrieval of information.

7                   Do you see that?

8                   ANSWER: Yes.

9                   QUESTION: What did you mean by that in  
10 your article in 1989 on MEMOIRS?

11                  ANSWER: Well, what you try to do with a  
12 paragraph like that at the beginning of a paper is  
13 simply trying to establish that there is a real problem,  
14 and that in this particular case the problem will get  
15 increasingly more severe as the technology matures.

16                  QUESTION: Was it your understanding that  
17 you were the only person that discovered that problem --

18                  ANSWER: No.

19                  QUESTION: -- as of 1989?

20                  ANSWER: No. I mean, the interesting  
21 thing about this paragraph is that it reflects nicely  
22 the fact that one didn't have to go to a great deal of  
23 trouble to establish that point. You would regard it as  
24 universally accepted.

25                  QUESTION: Does -- Exhibit 6, The



1 Psychology of Personal Information Management, does that  
2 describe in similar fashion the functionality of MEMOIRS  
3 as Exhibit 2 and 4 does?

4 ANSWER: No. I wouldn't say so. In  
5 fact, I doubt -- in fact, I'm fairly sure that there is  
6 no reference to MEMOIRS in here at all.

7 There is reference, though, to some of  
8 the basic principles on which MEMOIRS is built.

9 QUESTION: But it doesn't lay out the  
10 specifics regarding the functionality of MEMOIRS like  
11 Exhibit 2 or 4. Is that fair to say?

12 ANSWER: I think that's fair to say, yes.

13 QUESTION: The very next paragraph, so --  
14 so under Background in your 1989 MEMOIRS article, the  
15 second paragraph states: Apart from the continuing  
16 development of more powerful traditional methods, such  
17 as keyword systems and relational databases, this need  
18 has also stimulated some novel approaches, such as the  
19 Spatial Database Management System, SDMS, by Bolt in  
20 '79, of the late '70s.

21 Do you see that?

22 ANSWER: Yes.

23 QUESTION: What were you referring to  
24 there in that article?

25 ANSWER: I'm referring to a number of

1 innovative studies in which this was perhaps the most  
2 conspicuous at MIT -- the Spatial Database Management  
3 System -- which has been published by Bolt and others,  
4 Negroponte, very much in the spirit of what you might  
5 describe as gee-whiz technology, where the world was  
6 going to look very different and the tasks were going to  
7 be very different because of the way that the technology  
8 was going to develop.

9                   So this second paragraph is -- is the --  
10 if you like, the pull as well as the push. So you've  
11 got the push of the problem and the pull of the new  
12 technology, bringing two sides of the coin together to  
13 represent a strong motivation to work on things like  
14 personal filing systems.

15                   QUESTION: Do you recall how you became  
16 aware of the Spatial Database Management Systems, SDMS,  
17 from MIT some time prior to writing your article in '89?

18                   ANSWER: Well, I would have come across  
19 SDMS in '81 or '82 when I was working for AT&T. At that  
20 time, there was a great deal of fluidity in information  
21 exchanged between, if you like, major players -- IBM,  
22 AT&T, Xerox. All of these places had user interface  
23 groups, and they were all sharing this kind of  
24 information. And SDMS was a very popular and exciting  
25 contribution to that.

1                   QUESTION: And was it well-known in the  
2 '81 and '82 timeframe?

3                   ANSWER: Oh, yes. That would have been  
4 my impression, within that community, yes.

5                   QUESTION: All right. And then you go on  
6 directly underneath that paragraph, again at Bates-stamp  
7 645 of your 1989 MEMOIRS article.

8                   And you state: It appears from this work  
9 that faced with fragmentary recall, humans are  
10 particularly sophisticated at using information from  
11 their own memories and any cues available from external  
12 feedback.

13                   For this reason, the MEMOIRS system is  
14 based on what is, in effect, an interactive diary, known  
15 as a timebase, showing, in suitable units, the  
16 chronological structure of the database.

17                   ANSWER: Yeah.

18                   QUESTION: What did you mean by that?

19                   ANSWER: Well, the key thing here is that  
20 when you attribute document X, that attribution takes  
21 place in time and will have been preceded or followed by  
22 other attributions.

23                   And what the study of human memory shows  
24 is that the -- that process is not independent of what's  
25 taken place before. So if somebody attributes a

1 document with a red triangle, it's highly likely that  
2 they are going to remember something about what had  
3 happened before and afterwards.

4                   So that chronological sequencing is, in  
5 effect, a compatible representation of human memory.  
6 It's one of the few things that all of us share.  
7 The diary would naturally be able to include those, and  
8 there's no -- there's no principal difference that I see  
9 between memories for events which are prospective and  
10 memories for events that are retrospective.

11                   If you put an entry in a diary, you can  
12 do it backwards and forwards. They are both events.

13                   QUESTION: And here at Page 319 of your  
14 1989 MEMOIRS article, you state: A timebase, therefore,  
15 providing a time-based categorization, and also  
16 illustrating other contextual information, such as  
17 meetings, holidays, and deadlines, for example --

18                   ANSWER: Yes.

19                   QUESTION: -- provides a natural  
20 framework for the structure of the databases.

21                   Do you see that?

22                   ANSWER: Yes.

23                   QUESTION: So are you describing there  
24 the ability of MEMOIRS, as designed and described, to  
25 store in a chronological way future deadlines, holidays,

1 and meetings?

2 ANSWER: Yes.

3 QUESTION: Would the MEMOIRS systems, as

4 described in your articles, allow for storing future

5 events; for instance, deadlines, and meetings?

6 ANSWER: Yes.

7 QUESTION: Directing your attention

8 further down, your article under 3.1 Hardware and

9 Programming --

10 ANSWER: Yes.

11 QUESTION: -- here, are you describing

12 how MEMOIRS runs on a Macintosh?

13 ANSWER: Yes.

14 QUESTION: And that documents are

15 displayed on a Sony color monitor?

16 ANSWER: Yes.

17 QUESTION: And the next paragraph down

18 states: The system supports a multimedia database

19 (color, data, graphics, images, text and sound).

20 ANSWER: Yep.

21 QUESTION: Are you describing there the

22 capability of MEMOIRS to store in a chronological order

23 different types of documents?

24 ANSWER: Yes.

25 QUESTION: What different types of

1 documents?

2                   ANSWER: Anything you might want to

3 envisage.

4                   QUESTION: Such as data, graphics,

5 images, text, and sound?

6                   ANSWER: Yes.

7                   QUESTION: And, again, you state here:

8 The system supports a multimedia database (color, data,

9 graphics, images, text, and sound), a near conventional

10 electronic diary, and various office tools.

11                   Do you see that?

12                   ANSWER: Yes.

13                   QUESTION: Certainly, diary entries,

14 reminders, holidays, all of those dates would be entered

15 in the system for future events, correct?

16                   ANSWER: Yes, they would.

17                   QUESTION: And then with respect to date,

18 you mentioned date was automatic. I -- I want to direct

19 your attention to the second bullet where it says:

20 Date.

21                   Do you see that?

22                   ANSWER: Yes, I'm still looking at it.

23                   QUESTION: It says: Date-stamping of

24 documents as they enter the system is automatic.

25                   ANSWER: Yes.

1                   QUESTION:  What was the purpose of that?

2                   ANSWER:  Because you couldn't possibly

3 have a system like this work if all the documents didn't

4 have a place in their -- in the chronology of the

5 database.

6                   QUESTION:  The search window would -- if

7 you searched all the documents on the system --

8                   ANSWER:  Yes.

9                   QUESTION:  -- that were stored

10 chronologically for a particular attribute and three

11 documents matched --

12                   ANSWER:  Yes.

13                   QUESTION:  -- could the MEMOIRS system,

14 as described in the 1989 article, show those three

15 documents in thumbnail form, as you've described it, in

16 Search Window 1?

17                   ANSWER:  Yes.

18                   QUESTION:  Okay.  Does that functionality

19 of MEMOIRS allow a user to search all the documents on a

20 system for a subset and then to view a subset of those

21 documents in thumbnail form, as you previously

22 described --

23                   ANSWER:  Yes.

24                   QUESTION:  -- in the search window?

25                   ANSWER:  Yes.

1                   QUESTION:  You go onto state:  An  
2   automatic date stamp defines the time attribute linked  
3   to the document in the database.  
4                   Is that an indication of your MEMOIRS  
5   system as described in your 1989 article of indexing and  
6   assigning a date stamp to each document?  
7                   ANSWER:  Yes.  
8                   QUESTION:  And was each document that  
9   was -- that either entered the system or it was  
10  generated by the system, given a time -- a unique  
11  timestamp?  
12                  ANSWER:  Yes.  Everything that happened  
13  in the system had a date stamp.  
14                  QUESTION:  I want to direct your  
15  attention to the right side of the page underneath MIT's  
16  Architecture Machine Group's Spacial Data Management,  
17  1979.  
18                  Do you recognize that depiction as part  
19  of the Spacial Data Management System from MIT?  
20                  ANSWER:  Yes, I think I do.  
21                  QUESTION:  And you were aware of that --  
22  their work on spatial data management --  
23                  ANSWER:  Yes, I certainly was.  
24                  QUESTION:  -- in the early '80s?  
25                  ANSWER:  Yes.



1                   QUESTION: Was there ever a way to see  
2 documents in sequence -- in chronological sequence --  
3 without clicking on the specific time period?

4                   ANSWER: I am asking myself the question  
5 as I am trying to answer your question of how -- how I  
6 would do that.

7                   I don't think that you -- I think your  
8 question presupposes a certain representation. I think  
9 that the functionality you're describing is doable, but  
10 not necessarily in the image that you have in mind.  
11 I wonder if you appreciate the problem I've got in  
12 answering that one.

13                   QUESTION: I would like to once again  
14 direct your attention to Figure 3. It shows the  
15 documents present in the particular time period; is that  
16 correct?

17                   ANSWER: Figure 3? Yes, it -- let me  
18 just -- let me just check.

19                   Yeah, okay. It implies that some process  
20 has taken place where the user has -- has clicked on a  
21 particular element of the timebase and produced three  
22 documents.

23                   QUESTION: And are those documents  
24 displayed in a chronological order?

25                   ANSWER: No. But they are simultaneous,

1 so it wouldn't make much sense.

2                   QUESTION: So once you narrow down the  
3 time period to a certain granularity, the search window  
4 does not display documents in a chronological order --

5                   ANSWER: The search window is the -- the  
6 interval over which these documents appear is defined by  
7 the granularity of the timebase.

8                   And within that, the search window  
9 fulfills a different function, which is to show the  
10 visual representation of the documents that have been  
11 retrieved.

12                   The question about whether they show them  
13 in chronological order depends on how many search  
14 windows you've got open.

15                   QUESTION: Do the search windows  
16 automatically update themselves?

17                   ANSWER: I think not. It wouldn't have  
18 been -- it wouldn't have been logical to do that,  
19 because a search is an event in the database. So we  
20 wouldn't have -- we wouldn't have had an updating search  
21 window, because that implies an automatic process in the  
22 background.

23                   This system was entirely user-driven.  
24 There is no background processing. It does simply what  
25 the user tells it to do. It is, therefore, static in

1 that sense.

2 QUESTION: Did the system provide a user  
3 with an interface to create backups for that user?

4 ANSWER: No. No. This is an  
5 experimental system.

6 QUESTION: Were there any implementations  
7 of MEMOIRS where the user did not have to make explicit  
8 decisions about what attributes to use at the time of  
9 filing?

10 ANSWER: Well, no and yes, because --  
11 because MEMOIRS itself automatically encodes chronology;  
12 but in all other respects, the user has to make  
13 conscious decisions.

14 Do you mean do I have the technical  
15 knowledge of how the -- how the items were actually held  
16 in the code?

17 QUESTION: Yes.

18 ANSWER: I think the easy answer to say  
19 to that is no, that I was entirely involved in how the  
20 user experienced the software.

21 QUESTION: And so for a given timebase,  
22 there could be in MEMOIRS past documents, correct?  
23 Documents that were stored?

24 ANSWER: Yes, which is predominantly what  
25 it was.

1                   QUESTION: Right. And there could be  
2 documents stored as of the day that the user was using  
3 it, right? Present documents, correct?

4                   ANSWER: Yes. I guess so, yes.

5                   QUESTION: And the timebase could also  
6 reflect future events, correct?

7                   ANSWER: Yes. They could -- they could  
8 reflect entries in the diary for the future.

9                   QUESTION: Right. And so in looking at a  
10 timebase for MEMOIRS, the timebase could be divided up  
11 into a past section, a present section, and a future  
12 section, correct?

13                  ANSWER: Yes.

14                  QUESTION: MEMOIRS, both the system and  
15 specifically the timebase, could operate as a diary of a  
16 person's -- a diary, correct?

17                  ANSWER: Yes. It could be used as a  
18 diary. The point of the -- the whole point of the work  
19 is that the diary and the database are one and the same  
20 thing, and the -- the technical difficulties in  
21 describing the system are how you make that a coherent  
22 philosophy.

23                  QUESTION: And a user of MEMOIRS could,  
24 for instance, search through all the chronologically  
25 ordered and stored documents on the system and search

1 for documents written by Dad, for instance?

2 ANSWER: Yes.

3 QUESTION: And MEMOIRS stored all of the

4 documents and events in chronological order, correct?

5 ANSWER: Yes.

6 QUESTION: And MEMOIRS and your paper

7 specifically described how to apply different possible

8 attributes to those documents to allow for searches --

9 ANSWER: Yes.

10 QUESTION: -- of those documents,

11 correct?

12 ANSWER: Yes.

13 QUESTION: And so, for instance, if a

14 user applied as one of those attributes, authors --

15 let's say, Mom or Dad --

16 ANSWER: Yes.

17 QUESTION: -- you could search through

18 all the documents stored on the database in

19 chronological order and select all of Dad's documents?

20 ANSWER: Yes.

21 QUESTION: And the system would allow the

22 user who searched for all of the Dad documents to see

23 those documents in a search window.

24 Page 322, Figure 1.

25 ANSWER: Yes.

1                   QUESTION:  If you --if you take a look  
2  at the timebase in Figure 1, it looks like the scroll  
3  box on the bottom of the timebase --  
4                   ANSWER:  Yes.  
5                   QUESTION:  -- has an end point.  
6                   ANSWER:  Has an end point?  
7                   QUESTION:  It -- let me ask the  
8  question --  
9                   ANSWER:  Yes, it does look as if it has  
10 an end point.  If I move the white little box to the  
11 right, according to the Apple Star Guidelines at the  
12 time, which I think were dated '87, that would imply  
13 that when I got to the right, I'd gone as far to the  
14 right as that would go.  
15                   But you if you looked at Excel  
16 spreadsheets, for example, as an alternative method, if  
17 you continue going right, you can extend -- you can  
18 actually add columns.  It's a veritable feast.  
19                   QUESTION:  And sitting here today, do you  
20 know if that is how MEMOIRS worked?  
21                   ANSWER:  Worked?  
22                   QUESTION:  Sitting here today, do you  
23 know if the MEMOIRS system had that functionality?  
24                   ANSWER:  No, I can't tell you how, from  
25 memory.  I can tell you what's -- I would have thought

1 then and what I think now, which is it clearly couldn't  
2 go to infinity. That goes without saying.

3                   So it probably had some rule which would  
4 extend it to the right-most -- that's to say  
5 future-most -- item in the database and perhaps a bit  
6 further for situations of -- of organizational  
7 consistency.

8                   QUESTION: Hence, their behavior with  
9 respect to the timebase is very similar. There are some  
10 differences and properties between diary entries and  
11 documents which are discussed below.

12                   ANSWER: Yes.

13                   QUESTION: But the obvious one to note  
14 here is that the timebase holds diary and document  
15 information --

16                   ANSWER: Yes.

17                   QUESTION: -- physically separate for  
18 clarity and presentation.

19                   ANSWER: Yes, that was what I was  
20 referring to earlier.

21                   QUESTION: And is that -- is that  
22 accurate with respect to your recollection of how  
23 MEMOIRS functioned at that point in time?

24                   ANSWER: I wouldn't have written it if it  
25 wasn't accurate.

1 (End of video clip.)

2 MR. RANDALL: Your Honor, Apple's next  
3 witness is Mr. Ed Belove.

4 COURTROOM DEPUTY: Please raise your  
5 right hand and be sworn.

6 (Witness sworn.)

7 EDWARD J. BELOVE, DEFENDANTS' WITNESS, SWORN

8 DIRECT EXAMINATION

9 BY MR. SOOBERT:

10 Q Good afternoon, Mr. Belove.

11 A Good afternoon.

12 Q Would you state your name for the record?

13 A Edward J. Belove.

14 Q And where do you live?

15 A In Cambridge, Massachusetts.

16 Q Okay. Can you describe your educational  
17 history briefly since high school?

18 A I attended Harvard College and graduated in  
19 1972 with a degree in applied mathematics.

20 Q Is that equivalent to a computer science  
21 degree?

22 A Yes. At the time, there was no Department of  
23 Computer Science so the computer courses were all in  
24 applied mathematics.

25 Q Okay. And what did you do after you graduated



1 from Harvard?

2       A     I went to work for Data General, which was a  
3 mini-computer company. Worked there for about nine  
4 years doing systems design and architecture of operating  
5 system and the computers.

6           And following that, I helped found a startup  
7 company called Microcom, which was one of the early  
8 personal computer software companies, and we did  
9 electronic mail systems for early personal computers.

10       Q     Okay. Where did you go after that?

11       A     After that, I went to Lotus Development, which  
12 at the time was the largest personal computer software  
13 company. I was the Director of Advanced Development,  
14 and after six months, became Vice President of Corporate  
15 Research and Development at Lotus.

16       Q     Okay. What year did you join Lotus?

17       A     1985.

18       Q     And what was your position there?

19       A     Initially, Director of Advanced Development.

20       Q     Okay. And what kind of products, just  
21 briefly, did Lotus have at the time?

22       A     The major product at the time was 1-2-3, which  
23 was an integrated spreadsheet product that had  
24 spreadsheet graphics and a database and a couple of  
25 related products.

1           So I joined to work on the non-spreadsheet  
2 products.

3           Q     Okay.  What about Magellan, that product?

4           A     That started -- the project started in 1988,  
5 and we released it in -- I believe it was the spring of  
6 1989 that it shipped.

7           Q     Okay.  Was it commercially available at that  
8 time, 1989?

9           A     Yes.

10          Q     Okay.  And what was the goal of Lotus  
11 Magellan?

12          A     The goal was -- at that point, hard disk  
13 drives had become bigger and people were putting an  
14 awful lot of their business information on their  
15 personal computers.

16                 And with this proliferation of files, it was  
17 very hard to find the information you wanted, so we  
18 designed a product that enabled you to search very  
19 efficiently over the entire hard disk by indexing all  
20 these files and find the files and the data that you  
21 were looking for.

22          Q     So it had indexing and searching capability as  
23 of 1990?

24          A     Yes.

25                 MR. SOOBERT:  Let's go to DX502, please,

1 Diane.

2 Q (By Mr. Soobert) Do you -- do you recognize  
3 this document, Mr. Belove?

4 A Yes. It's the explorer's guide for Lotus  
5 Magellan. It was the product manual.

6 Q Okay. And you're familiar with this manual?

7 A I am.

8 Q Okay. And it's an accurate representation of  
9 how Lotus Magellan operated in that timeframe,  
10 1989/1990?

11 A Yes.

12 Q Okay. Let's play a clip about Lotus Magellan,  
13 a video, and then while we're playing that, can you kind  
14 of walk us through. It doesn't have any audio with it.  
15 Maybe you can narrate it a bit on the fly, if you could.

16 A Okay.

17 Q And that's Lotus Magellan demo clip.

18 (Lotus Magellan demo clip playing.)

19 A Okay. This is the Magellan screen. It was  
20 running under MS/DOS. The first thing we did here is  
21 create an index of all the files. You could do all the  
22 drives, and for the purpose of this demo, the work  
23 indexing, the sample directory called MG sample.

24 And at this point, you may hit enter, and it  
25 will start to index all the files. And that should take

1 it a few minutes.

2           There, you can see it. The file index has  
3 being created.

4           And what it shows you at that point is a list  
5 of the files. And on the right is a quick summary of  
6 the first page of each file. And there are many  
7 different file types. This particular one we're looking  
8 at now is a spreadsheet.

9           Actually, this is another spreadsheet. The  
10 one below it is a database, and what it shows you is the  
11 first page of information of each of these files. And  
12 it attempts to do it in the form that the application  
13 for the file would be.

14           This is a database.

15           I think the next file is a graphics file, so  
16 it even attempts to show that. And this is all being  
17 done by Magellan internally.

18           And so with this file list, there's a number  
19 of things you could do. It -- it contains information  
20 about all the files. And you can sort it in different  
21 ways.

22           In this case, we're choosing to sort it by  
23 time and date. And so that list is now ordered by date.  
24 And we'll just zoom out using FAT. And you can -- it's  
25 ordered by date, and we could re-sort it in order by

1 type or by name. In this case, we'll do it by name.  
2 And it shows that list that way as well.  
3 We can go back to the date list and unzoom it,  
4 and, again, this is the first page of the XYWRITE file  
5 there.  
6 Another thing you can do is search the index,  
7 and what we'll do here is type a word in. In this case,  
8 the word is articles, and it will look through the  
9 index, find all the files that contain the word  
10 articles; and that's what you'll see as a subset of that  
11 original list containing all those files. And, again,  
12 in each case, you can kind of quickly go through and see  
13 what's in the file.  
14 It also ranks them in relevance, and that's  
15 what the percentages there is, how relevant it is to the  
16 question you asked it.  
17 So I guess in this case, we'll go back to a  
18 whole list -- oh, another feature of Magellan is it can  
19 back up files automatically. You hit Control F1, you  
20 get this backup dialogue. You could back up all the  
21 files on a drive or do it by date, like this year's  
22 files.  
23 In this case, we're choosing to update the  
24 worksheets to save all of these spreadsheet files. You  
25 can save it on any drive. We'll put it in the MG backup

1 directory, and then hit enter, and it will actually do  
2 the backup, which is very fast, because there are only a  
3 couple of files in there.

4 But what we'll do is again hit the explore  
5 button, which is F9, and go down and look at the backup  
6 directory, and there you can see those are the three  
7 spreadsheet files that were backed up out of the main  
8 structure into this other backup directory.

9 I believe that's it.

10 (End of Lotus Magellan demo clip.)

11 Q Okay. Thank you.

12 So we went through that pretty fast, a lot of  
13 screens there, a lot of information, so let's just take  
14 just a step back.

15 Lotus Magellan had the capability of indexing  
16 and searching all the documents that were on the hard  
17 drive?

18 A Right. Any -- any type of file that was  
19 supposed under MS/DOS, spreadsheets, databases,  
20 graphics.

21 Q And that was as of 1990, right?

22 A Correct.

23 Q Okay. And that's also described in the  
24 document we looked at earlier, the guide?

25 A Yes.

1 Q Okay. And we can sort, using Lotus Magellan,  
2 in that timeframe the files by date and put them in a  
3 chronological order, put all the documents on the system  
4 in a chronological stream, if you will, right?

5 A That's correct. MS/DOS timestamped each file  
6 as it was changed, and using that, you could order them.

7 Q Okay. So each document in the filing system  
8 had its own unique timestamp, right?

9 A That's correct.

10 Q All right. And if I wanted to take that  
11 stream of documents and create a substream, some subset  
12 of documents, could I do that?

13 A You could. One way was the way we showed.  
14 Create a subset of documents that contain a word.  
15 Another way would be to select a subset of the documents  
16 and mark them based on time or a file type.

17 Q All right.

18 A Or any of the information that we have about  
19 the file.

20 Q Okay. And I said could you do that.

21 Did Lotus Magellan actually do that in 1990?

22 A It had that capability, yes.

23 Q Okay. And -- now, the types of documents that  
24 were handled by the system and indexed and searched  
25 using Lotus Magellan, there are a diverse set of

1 documents that could be indexed and searched, like  
2 spreadsheets, text, graphics?

3 A Yes. I tried to show a variety of documents.

4 Q Okay. What about the concept of a glance view  
5 or a preview of the document content? Was that --

6 A As you see, the thing we're looking at there  
7 is, in fact, glance view. In this case, it's  
8 spreadsheet file, and that's what 1-2-3 in 1989 looked  
9 like.

10 And so Magellan will quickly show you. As I  
11 did in my first piece, as I moved down the list of  
12 documents, you saw you got a quick glance of the data  
13 that was in each document.

14 Q Okay. Now, what about copying or moving  
15 documents from -- from the system to another storage  
16 medium, archiving? Did it have that capability?

17 A Yes. As you can see on the bottom, that F2 is  
18 copy. If I hit Shift F2, I can move the files. And I  
19 think I showed at the end of the demo is a backup, an  
20 explicit backup.

21 Q Okay. Now, I think you mentioned that was an  
22 MS/DOS-based system, a Microsoft system.

23 A That's correct.

24 Q All right. So that was setting on a Microsoft  
25 operating system?



1           A     Yes.

2           Q     Okay.  Was there a comparable product in that  
3     timeframe for a Macintosh or Apple-based system?

4           A     About a year after we first released Magellan,  
5     there was -- a version of a program like this was  
6     released for the Macintosh.

7           Q     And what was that program called?

8           A     That was called On Location.

9           Q     And roughly, what timeframe was that?

10          A     Roughly, 1990.  I don't know exactly when in  
11     the year.

12          Q     Okay.

13                     MR. SOOBERT:  Diane, can you bring up  
14     DX532, please?

15          Q     (By Mr. Soobert) That's the -- that's another  
16     Lotus Magellan article, right?

17          A     Yes.  That's a -- it's a book that was  
18     produced by an independent publisher about using Lotus  
19     Magellan.  It was written by one of the developers.

20          Q     Okay.  And that accurately describes the  
21     system and reflects the way the software operated in  
22     1990, right?

23          A     Yes, it does.

24          Q     All right.  Let's go to -- instead of the  
25     documents, let's just play the On Location.  This is the

1 Macintosh-based version of a search and indexing system.

2 MR. SOOBERT: And this is the On Location  
3 demo clip, Diane.

4 (Lotus Magellan On Location demo clip  
5 playing.)

6 A Yeah. This is what the Macintosh desktop  
7 looked like at the time.

8 Again, the first thing you do here is create  
9 an index, and the first thing you do is select the disk  
10 you want the index in. You want to index all the files  
11 on that disk.

12 MR. STEIN: I'm going to object to this  
13 testimony. I don't believe he has any personal  
14 knowledge of this slide.

15 THE COURT: Okay. Restate your question.

16 MR. SOOBERT: Sure.

17 MR. STEIN: I don't believe he has any  
18 personal knowledge of the On Location system that has  
19 been put up there.

20 THE COURT: No. I asked him to restate  
21 his question.

22 MR. STEIN: But I -- the -- the  
23 witness --

24 MR. CARROLL: No, No. He understands.

25 MR. STEIN: Oh, okay.

1 Q (By Mr. Soobert) Mr. Belove, are you familiar  
2 with the On Location system?

3 A Yes.

4 Q Are you familiar with how it operated in  
5 1990/91, roughly that timeframe?

6 A As I user, I am, yes.

7 Q How did you gain that familiarity?

8 A When it first came out, I got a copy, because  
9 it was a product similar to the ones we did, and we did  
10 a fairly detailed evaluation of it.

11 Q Okay. And that software was actually  
12 developed by ex-Lotus employees, Peter Miller and Mitch  
13 Kapor?

14 A Yes. Peter worked for me when I was at Lotus.  
15 In fact, he gave me an early copy of it to try, and I  
16 worked closely with Mitch Kapor.

17 Q So you're familiar enough and comfortable  
18 enough describing for us how they operate, right?

19 A From a user viewpoint, yes. I don't know  
20 about the internals of that system.

21 MR. SOOBERT: All right. Let's run the  
22 tape, please.

23 (Lotus Magellan On Location demo clip  
24 continues.)

25 A Again, you first fire up the system, and we

1 went back to creating an index from that disk.

2           One of the features that On Location had was  
3 you could tell it which types of files you wanted to  
4 index. You could index all of them or just a subset of  
5 the types. And at that point, you see it's a fairly  
6 extensive list of both Apple products and non-Apple  
7 products.

8           So once we've selected, we just say create it,  
9 and it will create an index. Again, it's reasonably  
10 fast going through that.

11           And then it will go back and look at the files  
12 that are in that index, go back to the main screen,  
13 select the index we just created, and you can see it  
14 gives you a list of files, and they're sorted by date  
15 and time.

16           And you can see from this list that there are  
17 a lot of different types of files, and, you know, we can  
18 see the name and size and other features about them. In  
19 fact, you can re-sort the list just by clicking on the  
20 headings there. Click on name, and it re-sorts by name.

21           We'll go in this case and click on the date  
22 last modified, so, again, it's in date order now.

23           And similar to Magellan, you can select a  
24 subset of these documents by typing in a word, and these  
25 are the various documents in the -- on the disk that

1 contain the word examples. Again, that list can be  
2 sorted by name or by date.

3           And you double-click on it, and you see this  
4 glance view. In this case, it's a graphical file, and  
5 all we see is the text. But it gives you an idea of  
6 what's in the file.

7           And what we've done here is you can also run  
8 the native program for the file and see what it looks  
9 like in its regular program. In this case, Mac Draw,  
10 which is a drawing program, and that's the detail of  
11 what the file -- the graphics file looks like.

12           On Location also had the ability to copy and  
13 move files. In this case, the first thing we'll do is  
14 copy it to another location on the same disk. And so  
15 what will happen, in fact, as soon as we copy it, On  
16 Location updates the index.

17           And so the new file will show up on this list  
18 of the subset files that includes the word examples.

19           And you can see it's our original and the copy  
20 we made that we put into My Documents.

21           Another use of the copy command, if you select  
22 a file, is to copy it to external disks. In this case,  
23 we didn't say copy, but instead of selecting a System 7  
24 disk, we'll select this, what's called Repository, which  
25 is a separate disk on the system.

1           And once we do the copy, it will move -- it  
2 will make a copy of it on this external disk. And you  
3 can see Repository. There it's got examples, which is  
4 the file we just copied over there to this other disk.  
5 I believe that's all we have to show.

6                       (End of Lotus Magellan On Location demo  
7                       disk.)

8           Q        (By Mr. Soobert) Thank you, Mr. Belove.

9                       Okay. So that essentially had a mirror image  
10 functionality to the Lotus Magellan product?

11          A        Very similar, yes.

12          Q        Okay. And that, again, was 1991?

13          A        1990, I believe, it when it was -- but  
14 certainly, it was on the market in 1991.

15          Q        Okay. So let's fastforward to sometime in  
16 1996, and somebody would have come to you and said, hey,  
17 I've got -- I've got a new system for indexing and  
18 searching documents and organizing them and putting them  
19 in a chronological, time-ordered stream, would you have  
20 a reaction to that?

21          A        I would say it was a good idea. It's pretty  
22 much like a product that we produced seven years earlier  
23 or six years earlier.

24          Q        Thank you.

25                       MR. SOOBERT: Pass the witness.

1 THE COURT: Cross-exam.

2 CROSS-EXAMINATION

3 BY MR. STEIN:

4 Q Good afternoon, Mr. Belove.

5 A Good afternoon.

6 Q Apple's lawyers are paying you to help them  
7 today, right?

8 A Yes.

9 Q And at what hourly rate are they paying you?

10 A It's not an hourly rate. It's a fixed fee for  
11 the entire week that I've been here.

12 Q How much is that?

13 A It's \$20,000.

14 Q Isn't it true that Lotus Magellan did not  
15 store time -- timestamped information itself but used  
16 the -- the operating systems index for time-based  
17 information?

18 A Well, it didn't use the operating system  
19 index, but it did get the timestamps from the operating  
20 system, yes.

21 Q Is it -- is it your testimony that Lotus  
22 Magellan indexed the timestamps from the operating  
23 system?

24 A No. It did not index the timestamps.

25 Q It was just using the timestamps from the

1 operating system, right?

2 A (Nods head.)

3 Q So it --

4 A I'm sorry.

5 Q So it didn't create a time-ordered sequence of

6 documents itself, did it?

7 A Yes, it did. It would take that document,

8 sort them by time, and create that sequence.

9 Q If -- if -- if a user asked Magellan to do

10 that, right?

11 A No. As you saw when it brought up that list,

12 it could, you know, order them by time.

13 Q Right. The user would order them -- the

14 user -- you would -- you would get the list. I mean,

15 you could order them by time, if you chose to?

16 A Yes, you could, I guess.

17 Q And that -- that's the same kind of

18 functionality that was generally available -- in the

19 process of getting results and ordering them by time,

20 that was available back then, right?

21 A Not generally available, no. In fact, you

22 could -- you could list a directory, but you could not

23 list all of the files on the disk, to my knowledge.

24 There may have been utilities, but I don't

25 know of any that did.



1           Q     You're relying on -- for example, in listing a  
2     directory, you could get the directory and order by --  
3     order them by time in a -- in a similar manner that  
4     Magellan was doing for maybe a larger set of documents,  
5     right?

6           A     Yes, you could for a similar directory.

7           Q     And so there was nothing new about doing that  
8     back then, right?

9           A     About sorting?

10          Q     Right.

11          A     No.  Sorting has been around for 40 years.

12          Q     And Magellan wasn't creating some kind of  
13     central store in which all the documents were stored or  
14     maintained or included any time-ordered sequence, were  
15     they?

16          A     No, it was not.

17          Q     And Magellan did not store future -- strike  
18     that.

19                     Magellan did not store calendar entires, did  
20     it?

21          A     No.

22          Q     In the examples you gave of archiving, in each  
23     case, the user had to manually select, take action to do  
24     the archiving, correct?

25          A     In the examples I showed, yes.



1 as an administrative associate in the Computer Science  
2 Department?

3 ANSWER: Yes.

4 QUESTION: And after 2000, when the  
5 applied mathematics program began, did you continue to  
6 work as an administrative associate for the Computer  
7 Science Department in parallel?

8 ANSWER: Yes.

9 QUESTION: Why don't you start with 1985  
10 when you began working in the Computer Science  
11 Department.

12 ANSWER: Okay.

13 QUESTION: Were you working for a  
14 specific professor or graduate students at that point in  
15 time?

16 ANSWER: Yes.

17 QUESTION: And who were they?

18 ANSWER: David Gelernter.

19 QUESTION: And for how long did you  
20 continue to perform those same duties for Dr. Gelernter?

21 ANSWER: I would say until the present  
22 time.

23 QUESTION: Have you ever heard the term  
24 Lifestreams?

25 ANSWER: Yes.

1                   QUESTION: In what context had you heard  
2 the term?

3                   ANSWER: When I handled technical  
4 reports.

5                   QUESTION: Is it fair to say that your  
6 role relating to Lifestreams was limited to filing and  
7 maintaining technical reports on the project?

8                   ANSWER: Yes.

9                   QUESTION: Now, in terms of the technical  
10 reports that you were handling in this time period, the  
11 late 1980s to the mid-1990s, can you describe your  
12 practice with respect to the distribution of technical  
13 reports?

14                  ANSWER: Yes.

15                  QUESTION: Please do so.

16                  ANSWER: The author of a technical report  
17 would print the report out and then give it to me, and I  
18 would get a technical report number from the business  
19 office of the Computer Science Department on the ground  
20 level, on the basement -- in the basement of the  
21 building.

22                  I would go to the office where a black  
23 looseleaf binder was kept, and I would open it up and go  
24 to the last page on which technical reports were  
25 entered, and if I saw TR -- and sometimes it was RR for

1 research reports, but they were interchangeable.

2                   If I saw the last entry be TR-1000, I  
3 would then enter the new technical report that I was  
4 handling as TR-1001, and I'd enter the following  
5 information: The title, names of the authors, the date.

6                   It would either be a -- an exact date or  
7 just the month and the year in which I was recording it;  
8 then funding -- funding acknowledgments, if there were  
9 any; acknowledgments of grants and so on, off of which  
10 they worked.

11                  And then I would go upstairs to my office  
12 and I would type up a title page for this technical  
13 report, which gave the title, the authors, the date, the  
14 technical report number that I had just entered into the  
15 black binder in the business office, and then the  
16 acknowledgments of any granting agencies or  
17 institutions.

18                  Once I had typed that up, I made it part  
19 of the hard copy document that had been given to me by  
20 the author, or one of the authors; and I would have it  
21 copied at Science Park Copying Center that was at  
22 Science Park New Haven at that time, and I would enter  
23 on the Science Park ticket sheet, the -- the title --  
24 identifying title and how many pages they were, whether  
25 they wanted it double-sided or single-sided, whether



1 authors, and then I would wait for any request, yes.

2 QUESTION: So, typically, when they were  
3 requested, it would be requested by people outside of  
4 Yale?

5 ANSWER: Yes.

6 QUESTION: And when you received a  
7 request from outside of Yale for a copy of a technical  
8 report, would you need to get permission from anyone to  
9 send that technical report to the person requesting it?

10 ANSWER: Not that I recall.

11 QUESTION: Now, were there any  
12 restrictions or limitations on what technical reports  
13 could be sent out, if requested?

14 ANSWER: Not that I recall.

15 QUESTION: Were there any technical  
16 reports that were deemed confidential to Yale?

17 ANSWER: No.

18 QUESTION: As a matter of your practice  
19 with respect to technical reports from the period of the  
20 late 1980s to the mid-1990s, within a week of receiving  
21 a technical report from the author, you would have  
22 copies available for distribution?

23 ANSWER: Yes.

24 QUESTION: And if those copies were  
25 requested, you would then distribute them to people

1 requesting the technical report?

2 ANSWER: Yes.

3 QUESTION: And that would all be within

4 about a week of the date that's listed on the cover

5 sheet for the technical report?

6 ANSWER: As far as I recall, yes.

7 QUESTION: And that would have been true

8 for any reports relating to Lifestreams during the

9 period of the late 1980s to the mid-1990s?

10 ANSWER: As far as I can recall, yes.

11 QUESTION: So your recollection is that

12 you would have received requests for technical reports

13 by mail or e-mail; is that right?

14 ANSWER: Yes.

15 QUESTION: And then how would you go

16 about sending copies of technical reports to the

17 requester?

18 I would send it by regular mail.

19 QUESTION: When you received a request

20 for technical reports from the Linda Group, what was the

21 thing that was being requested?

22 ANSWER: The specific technical report.

23 QUESTION: And how would it be -- how

24 would it be identified?

25 ANSWER: By title and/or by TR number.



1                   QUESTION: And what is your understanding  
2 as to how people outside of Yale that are requesting  
3 technical reports in the period from the late 1980s to  
4 the mid-1990s would know the title and/or the technical  
5 report number for the reports that they were requesting?

6                   ANSWER: I have absolutely no idea.

7                   QUESTION: Do you have any information as  
8 to how somebody outside of Yale would have known what  
9 the technical report number and/or title for a technical  
10 report was as of the late 1980s to the mid-1990s?

11                  ANSWER: I do not.

12                  QUESTION: Let's talk for a minute about  
13 the binder of technical report numbers and titles.

14                  You know what I'm talking about, yes?

15                  ANSWER: Oh, yes.

16                  QUESTION: Now, you testified earlier  
17 that the binder that was in the business office was on  
18 the shelf of the business -- on a shelf in the business  
19 office?

20                  ANSWER: Yes.

21                  QUESTION: And can you tell me, when you  
22 say shelf, you mean a bookshelf?

23                  ANSWER: Yes.

24                  QUESTION: Was the bookshelf locked?

25                  ANSWER: No.

1                   QUESTION: Can you describe for me what  
2 the bookshelf was, what it looked like?

3                   ANSWER: Yes. It's a -- an open  
4 bookshelf, high up on the wall.

5                   QUESTION: Okay. And the binder of  
6 bibliographic information about technical reports sat on  
7 the open bookshelf up on the wall?

8                   ANSWER: Yes.

9                   QUESTION: Can you recall any point in  
10 time during the late '80s to mid-'90s when the binder  
11 was not on that bookshelf in the business office of the  
12 Computer Science Department?

13                  ANSWER: I don't recall it being any  
14 other place.

15                  QUESTION: That's where it was kept in  
16 the ordinary course?

17                  ANSWER: Yes.

18                  QUESTION: Are you aware of any reason  
19 why someone visiting the Computer Science Department in  
20 the late 1980s to the mid-1990s wouldn't be told what  
21 technical reports had been published by the Department  
22 if they were requesting a technical report?

23                  (REPORTER'S NOTE: The answer on the video  
24 does not match the answer on the deposition.)

25                  ANSWER: Yes.

1 (REPORTER'S NOTE: The question here is missing,  
2 but it shows up later in a random spot with no  
3 response.)

4 ANSWER: Well, if it were addressed --  
5 the question were addressed to me about the technical  
6 reports that were under my control, yes.

7 THE COURT: All right. Very well.  
8 You may proceed.

9 QUESTION: Other than someone not knowing  
10 that information, can you think of any reason why  
11 information about what technical reports had been  
12 published would not be provided to somebody coming into  
13 the department and requesting it?

14 ANSWER: Yes.

15 QUESTION: Okay.

16 ANSWER: I'm not aware of whether there  
17 was a technical report list, a list of all the technical  
18 reports.

19 QUESTION: Now, that binder that was in  
20 the business office would have information about what  
21 technical reports had been published, at least for the  
22 Linda Group, between the late 1980s and the mid-1990s?

23 ANSWER: Yes.

24 QUESTION: And that binder would have  
25 been available to anyone working in the business office?

1                   ANSWER:  No.

2                   QUESTION:  But if a professor from  
3 another institution e-mailed you and asked for  
4 information about what publications -- I'm sorry -- what  
5 published technical reports had come out of the Linda  
6 Group, you would have responded to that inquiry by  
7 providing that information?

8                   ANSWER:  I don't recall any instance in  
9 which that -- that occurred.

10                  (REPORTER'S NOTE:  This is the question that  
11 was missing and noted previously in the  
12 transcript.)

13                  QUESTION:  And as a corollary to that, it  
14 would also be true that if someone was requesting  
15 information about what technical reports were available,  
16 that that information would also be made available to  
17 them?

18                  (REPORTER'S NOTE:  There was not an answer.)

19                  QUESTION:  And if someone had contacted  
20 you in the late 1980s to the mid-1990s and asked you for  
21 technical reports relating to the Lifestreams project,  
22 you would have also provided them with that information?

23                  ANSWER:  Yes.

24                  QUESTION:  Is it fair to say then that  
25 during the late 1980s to the mid-1990s, you didn't view

1 there to be anything about the Lifestreams technical  
2 reports that was a secret?

3 ANSWER: As far as I know, there was no  
4 secret.

5 QUESTION: Can you tell me what Hatchell  
6 Exhibit 3 is, please?

7 ANSWER: It's a Yale technical report.

8 QUESTION: Okay. And if you'll look at  
9 it, it's Technical Report No. 1070; is that correct?

10 ANSWER: Yes.

11 QUESTION: And it's dated here April  
12 1995; is that correct?

13 ANSWER: Yes.

14 QUESTION: And so the date that's listed  
15 here on the front page of Hatchell Exhibit 3 would be  
16 the date that you assigned to the technical report in  
17 the binder, correct?

18 ANSWER: Yes.

19 QUESTION: And that would also be the  
20 date at which time you were provided the technical  
21 report by the author?

22 ANSWER: Yes.

23 QUESTION: And that would also be the  
24 date within a week of which the technical report would  
25 be available for distribution to someone who requested

1 it, correct?

2 ANSWER: Yes.

3 QUESTION: You mentioned earlier that you

4 would maintain a different folder for the distribution

5 records for each technical report.

6 Do you recall that?

7 ANSWER: Yes.

8 QUESTION: As I look through this, I

9 don't see any records of a distribution of Technical

10 Report 1070 in Exhibit 4. Could you confirm that I

11 didn't miss something?

12 ANSWER: Yes, that's correct.

13 QUESTION: Are you aware of any

14 distribution record of Technical Report 1070?

15 ANSWER: No.

16 QUESTION: Did you search for

17 distribution records for Technical Report 1070?

18 ANSWER: Yes.

19 QUESTION: And what did you find?

20 ANSWER: I found nothing.

21 QUESTION: Do you recall that during your

22 conversation with Ms. Smith on May 13th, 2008, you

23 looked for but were unable to find in your file cabinet

24 the folder of Lifestreams 1070 distribution records?

25 ANSWER: Well, there were no distribution

1 records for 1070; otherwise, they would be included  
2 here.

3 QUESTION: Do you recall whether or not  
4 you ever provided a copy of Technical Report 1070 to  
5 anyone who requested it?

6 ANSWER: I do not recall.

7 QUESTION: One way or the other?

8 ANSWER: That's correct.

9 QUESTION: So you can't say, sitting here  
10 today, that you never provided a copy of Technical  
11 Report 1070 to somebody requesting it?

12 ANSWER: Actually, I -- that is not  
13 correct. I -- I had every -- I had records in my -- in  
14 my file cabinet of every tech -- of every technical  
15 report that I distributed from the Linda Group, and I  
16 diligently went through it, and I did -- I found no  
17 record at all of 1070.

18 The only ones I found were in --

19 QUESTION: Other than -- I'm sorry. Are  
20 you done?

21 ANSWER: Yes.

22 QUESTION: Other than your review of the  
23 Lifestreams drawer in your file cabinet, do you recall  
24 with certainty that you did not send Technical Report  
25 1070 to someone who requested it?

1                   ANSWER: I recall with certainty that I  
2 did not send TR-1070 out to anybody who requested it,  
3 because it's not -- it's not in the record of Hatchell  
4 4, Document 4.

5                   QUESTION: Did you participate in any way  
6 in Dr. Gelernter's effort to get patents on his work on  
7 Lifestreams?

8                   ANSWER: Yes.

9                   QUESTION: Can you describe what your  
10 involvement was?

11                  ANSWER: Yes.

12                  QUESTION: Go ahead, Mr. Hatchell.

13                  ANSWER: I recall that I faxed something  
14 to the lawyers who visited -- visit -- that David gave  
15 me to fax.

16                  QUESTION: Do you recall any other  
17 involvement in helping Dr. Gelernter obtain patents on  
18 Lifestreams-related work?

19                  (REPORTER'S NOTE: There was not an answer to  
20 the question.)

21                  QUESTION: Is the corridor in which your  
22 office is secure, a locked corridor?

23                  ANSWER: No.

24                  QUESTION: And going over to the second  
25 page, it says: The technical report was stored at Yale



1 University in the files of Christopher Hatchell, an  
2 administrative assistant whose tasks included  
3 distribution of the technical report.

4 Do you see that?

5 ANSWER: Yes.

6 QUESTION: How is it that that  
7 information came to be communicated to the Patent  
8 Office?

9 (REPORTER'S NOTE: There was not an answer to  
10 the question.)

11 QUESTION: I'm going to hand you what's  
12 been marked as Hatchell Exhibit 10.

13 The next sentence is: This technical  
14 report was stored at Yale University in the files of  
15 Christopher Hatchell, an administrative associate whose  
16 tasks included distribution of this technical report.

17 ANSWER: Yes.

18 QUESTION: Do you see that?

19 ANSWER: Uh-huh.

20 (REPORTER'S NOTE: There is not a question,  
21 just an answer.)

22 ANSWER: I have no idea.

23 QUESTION: Now, the binder is not kept in  
24 a locked file in the Office of Computer Science at Yale  
25 University, is it?

1                   ANSWER:  No, it is not.

2                   QUESTION:  Are you aware of any list  
3  containing bibliographic information about the technical  
4  report that is kept in a locked file in the Office of  
5  Computer Science at Yale University?

6                   ANSWER:  No, I'm not.

7                   QUESTION:  So as far as you know, the  
8  last sentence here:  Further, the list containing the  
9  bibliographic information about the technical report  
10 from which the technical report number -- I'm sorry --  
11 information about the technical report from which the  
12 technical report number was determined is kept in a  
13 locked file in the Office of Computer Science at Yale  
14 University?

15                   As far as your knowledge goes, that  
16 statement is not accurate?

17                   ANSWER:  Yes.  It is not accurate.

18                   QUESTION:  And you never told anyone that  
19 they should tell the Patent Office that the list  
20 containing bibliographic information about the technical  
21 report was kept in a locked file in the Office of  
22 Computer Science?

23                   ANSWER:  To the best of my knowledge, I  
24 did not.

25                   QUESTION:  The question was, and it's not

1 true that the list containing bibliographic information  
2 about the technical report is kept in a locked file in  
3 the Office of Computer Science?

4                   ANSWER: No. If -- if they're referring  
5 to the -- if this reference is to the -- the looseleaf  
6 binder, no.

7                   QUESTION: Do you know one way or another  
8 whether, in 1998, the binder that we've been speaking  
9 about was contained in a locked file in the Office of  
10 Computer Science at Yale University?

11                   ANSWER: I don't know one way or the  
12 other.

13                   QUESTION: Did you ever tell anyone that  
14 the binder was contained in a locked file in the Office  
15 of Computer Science at Yale University?

16                   ANSWER: I -- I don't recall, but -- but  
17 if I did, the -- the -- the person may have  
18 misunderstood me and -- when I said contained in a  
19 locked office.

20                   QUESTION: Can you elaborate?

21                   ANSWER: Well, if -- if I did say  
22 something about that, I -- that person could very easily  
23 have misunderstood -- might have understood locked  
24 file -- my -- my statement kept in a locked office in  
25 the Computer Science Department and might have

1 thought -- might have thought I said locked file.

2 QUESTION: As of today, is the binder  
3 kept in a locked office?

4 ANSWER: Yes, it is in a locked office.

5 QUESTION: As far back as you can  
6 remember, was the binder always kept in a locked office?

7 ANSWER: Yes.

8 (End of video clip.)

9 MR. RANDALL: Your Honor, Apple's next  
10 witness is a Ms. Nancy Silver, who is a Ph.D. student at  
11 the University of Toronto.

12 The time allocation is 5 minutes for  
13 Apple and 1 minute for Mirror Worlds.

14 THE COURT: All right. Proceed.

15 (Video playing.)

16 QUESTION: Can you state your full name  
17 for the record?

18 ANSWER: Nancy Sharon Silver.

19 QUESTION: Start off with, can you just  
20 describe your educational background?

21 ANSWER: Yeah. I have a bachelor's in  
22 history from the University of California at Santa Cruz,  
23 and I have a second bachelor's in computer science at  
24 the University of California at Santa Cruz as well.

25 And then I got a master's in computer

1 science in human computer interaction at the University  
2 of Toronto in 1996.

3 QUESTION: And when did you first attend  
4 the University of Toronto?

5 ANSWER: 1993.

6 QUESTION: Okay. Did you write a thesis?

7 ANSWER: Yes.

8 QUESTION: And who is Ron Baecker?

9 ANSWER: Ron Baecker was my thesis  
10 advisor.

11 QUESTION: Were you in California when  
12 you were working on your thesis in 1995?

13 ANSWER: Yeah.

14 QUESTION: So the court reporter has  
15 handed you what's been marked as Exhibit 3, Yale  
16 University Department Computer Science Technical Report,  
17 April 1995, to appear edited in Technology Review: The  
18 Lifestreams Approach to Reorganizing the Information  
19 World, Nicholas Carrierio, Scott Fertig, Eric Freeman,  
20 and David Gelernter.

21 Do you recognize this document?

22 ANSWER: Yes.

23 QUESTION: So is the first time you saw  
24 the Lifestreams Technical Report marked as Exhibit 3  
25 during the course of preparing your thesis?

1                   ANSWER:   Yes.

2                   QUESTION:  Did you have access to the  
3   Lifestreams Technical Report marked as Exhibit 3 in the  
4   United States?

5                   ANSWER:   Yes.

6                   QUESTION:  When you first obtained a copy  
7   of the Lifestreams Technical Report marked as Exhibit 3,  
8   did you understand it to be publicly available?

9                   ANSWER:   Yeah.

10                  QUESTION:  How do you know you understood  
11   it to be publicly available?

12                  ANSWER:   Well, because it says Technical  
13   Report, for one thing, and it says -- and there's  
14   nothing that says it's confidential for the other thing.

15                  So, I mean, if I were handed something  
16   that said confidential on it, I would never use it.  
17   There's nothing on here that says it's confidential.  It  
18   says Yale University Technical Report.

19                  QUESTION:  The court reporter has handed  
20   you what's been marked as Exhibit 5, a document entitled  
21   Thesis Schedule.  And this was produced to Mirror  
22   Worlds.

23                  Ms. Silver, do you recognize this  
24   document?

25                  ANSWER:   Yes.

1                   QUESTION: What year do the dates on this  
2 document refer to?  
3                   ANSWER: 1995.  
4                   QUESTION: How do you know?  
5                   ANSWER: Because that's when I was  
6 working on my thesis.  
7                   QUESTION: What's the earliest date on  
8 this document?  
9                   ANSWER: June 5th.  
10                  QUESTION: When you created your thesis  
11 schedule, was it a list of events you had already done?  
12                  ANSWER: Oh, no, no. It was definitely  
13 things that I had to do.  
14                  QUESTION: So looking forward?  
15                  ANSWER: Yeah. It was like a to-do list.  
16                  QUESTION: So did you perform research  
17 for your thesis prior to June 5th, 1995?  
18                  ANSWER: Yes.  
19                  QUESTION: Do you recall reviewing any  
20 literature or technical reports for your thesis after  
21 June 5th, 1995?  
22                  ANSWER: No.  
23                  QUESTION: Do you recall reviewing any  
24 literature or technical reports for your thesis after  
25 creating this schedule?

1                   ANSWER: No.

2                   QUESTION: After reviewing this thesis  
3 schedule, are you confident that you obtained a copy of  
4 the Lifestreams Technical Report marked as Exhibit 3  
5 prior to June 5th, 1995?

6                   ANSWER: Yes.

7                   QUESTION: Why?

8                   ANSWER: Well, because, you know, I just  
9 wanted to get this thesis done. I had done all my  
10 coursework in Toronto -- when I was in Toronto. And  
11 then, like I mentioned earlier, my dad had died, and I  
12 came back to stay with my mom, who was having a really  
13 hard time.

14                   And, you know, I wasn't the typical  
15 master's student who was trying to get the most out of  
16 my education at that time, unfortunately. So I really  
17 just wanted to finish.

18                   And I wasn't looking to add anything at  
19 this point. So when I finished a phase, I finished it,  
20 and I was done. So I can't imagine myself going out  
21 looking for more papers.

22                   QUESTION: Isn't it possible that even if  
23 you had found or were advised of the Lifestreams  
24 Technical Report after your research phase was over, you  
25 would have included it because you thought it was very



1 similar to your Timescope (sic) work?

2 ANSWER: If somebody important told me to

3 include it, then I would feel that I had to, yeah.

4 QUESTION: Are you aware of any document

5 you provided to Apple dated June '95 or earlier that

6 references the Yale Technical Report relating to

7 Lifestreams?

8 ATTORNEY: Object to form.

9 ANSWER: No.

10 QUESTION: Are you aware of any -- any

11 document that you provided to Apple that was created in

12 June of '95 or earlier that specifically references

13 Lifestreams?

14 ANSWER: No.

15 (End of video clip.)

16 MR. RANDALL: Your Honor, Apple's next

17 witness is Professor Ron Baecker from the University of

18 Toronto.

19 THE COURT: All right. Ron Baecker.

20 MR. RANDALL: Did you say how long?

21 THE COURT: Is that a --

22 MR. RANDALL: It's a live witness.

23 THE COURT: Live -- no. I just said Ron

24 Baecker.

25 MR. RANDALL: Oh, I'm sorry.

1 (Witness sworn.)

2 RONALD M. BAECKER, DEFENDANTS' WITNESS, SWORN

3 DIRECT EXAMINATION

4 BY MR. SOOBERT:

5 Q Good afternoon, Dr. Baecker.

6 A Good afternoon.

7 Q Can you state your name for the record,  
8 please.

9 A Ronald M. Baecker.

10 Q Okay. Where do you live?

11 A I live in Toronto, Ontario, Canada.

12 Q Okay. And where do you work?

13 A I work at the University of Toronto.

14 Q Okay. And how long have you been at the  
15 University of Toronto?

16 A Since 1972.

17 Q And are you familiar with what's generally  
18 referred to as technical reports in the computer science  
19 field?

20 A Yes, I am.

21 Q And how about back in the 1995 timeframe?

22 Were you generally familiar with them in that  
23 time?

24 A I'm familiar with them since the mid-'60s when  
25 I was a graduate student at MIT.

1           Q     Were those types of reports, in your  
2 experience, publicly available?

3           A     They were certainly publicly available, yes.

4           Q     Okay. Why do you think that they are publicly  
5 available?

6           A     It was part of the culture of the academic  
7 establishment of -- within computer science at  
8 universities that part of what we needed to do to do our  
9 job was to disseminate our results through technical  
10 reports, and we did that very vigorously. It was very  
11 important.

12                     And the departments promoted the dissemination  
13 of the technical reports as well so that other  
14 professors and also people in the industry would learn  
15 about our work.

16           Q     In your experience, was it common for someone  
17 to request a technical report and actually get one?

18           A     Yes. It was -- it was -- many of us  
19 subscribed to mailing lists in which we learned about  
20 technical reports from various universities. The  
21 universities sent out lists of those reports to  
22 subscribers.

23                     When you visited the department or had someone  
24 visit you, it was very common to take them to the  
25 departmental library and show them the list of technical

1 reports so that they could get copies of the technical  
2 reports.

3           So it was certainly an active forum of  
4 publication dissemination of knowledge.

5           Q     Okay.

6           MR. SOOBERT: Diane, could I have DX378,  
7 please?

8           Q     (By Mr. Soobert) Now, Dr. Baecker, this is a  
9 copy of the technical report, TR-1070, from Yale  
10 University: Lifestreams Approach to Reorganizing the  
11 Information World, dated April 1995.

12                  Do you see that?

13          A     Yes, I do.

14          Q     Are you familiar with this technical report?

15          A     Yes, I am.

16          Q     Okay. How are you familiar with it?

17          A     We reviewed this technical report with great  
18 interest, because my master's student, Nancy Silver, and  
19 I were working on a similar project that we had started  
20 in '94. So we were very familiar with the technical  
21 report.

22          Q     And did you have familiarity with that report  
23 back in 1995?

24          A     Yes, I certainly did.

25          Q     Okay. And is TR-1070 there in this exhibit an

1 example of the type of technical report that would have  
2 been publicly available in April '95 and since April  
3 '95?

4 A Yes, it certainly is a good example.

5 Q Okay.

6 MR. SOOBERT: I pass the witness.

7 THE COURT: All right. Cross-exam.

8 CROSS-EXAMINATION

9 BY MR. CANTINE:

10 Q Dr. Baecker, do you have any personal  
11 knowledge of whether TR-1070 was publicly available on  
12 or before June 28th, 1995?

13 A I know --

14 Q Can you offer sworn testimony to the jury  
15 whether or not Technical Report 1070 was publicly  
16 available, in your hands, did you read it anytime before  
17 June 28th, 1995?

18 A I cannot swear that I saw it prior to June  
19 28th, '95, but the culture of the way technical reports  
20 worked meant that many people --

21 Q Excuse me, sir.

22 A -- could have seen it at this point.

23 Q I appreciate that. We're on a tight --

24 MR. SOOBERT: Your Honor, I ask that he  
25 be able to answer the question.

1 THE COURT: Allow the witness to answer.

2 Q (By Mr. Soobert) Go ahead.

3 A The way the technical reports worked from the  
4 mid-'60s and certainly up through '95 was that once  
5 something was in -- was given a number and put as a  
6 technical report from a major university Computer  
7 Science Department, there were no guarantees that people  
8 would not see it. It was very clear that people would  
9 see that technical report.

10 But to answer your original question, I  
11 personally cannot testify as to the date that we saw it.  
12 I know it was in '95, but I cannot remember the exact  
13 date.

14 Q So you can't offer any personal testimony that  
15 Dr. Gelernter's report, TR-1070, was publicly available  
16 on or before June 28th, 1995; is that true?

17 A I cannot testify that I saw it. It was  
18 publicly available, because it was listed in the  
19 technical report series in April of '95.

20 Q You don't have any personal knowledge of  
21 Dr. Gelernter's practice with respect to the publication  
22 of his technical reports, do you?

23 A I don't have any knowledge of Dr. Gelernter's  
24 practice, but I have knowledge of the practices of  
25 reputable academics of which Dr. Gelernter is one.

1           Q     I asked you, sir, if you had personal  
2 knowledge of his personal practices.

3           A     No, I do not.

4           Q     Okay. And you have no personal knowledge of  
5 Yale's practices, with respect to those technical  
6 reports, at that time, do you?

7           A     I know that the technical reports were put on  
8 websites and were indexed in indices, such as the  
9 University of Indiana University Unified Computer  
10 Science Technical Report Index, yes.

11          Q     Let's try it again.

12                Do you have any personal knowledge of Yale's  
13 practice with respect to the publication of technical  
14 reports?

15          A     Yes. They put on it their website.

16          Q     In 1995?

17          A     Yes.

18          Q     You have personal knowledge of that?

19          A     Do I have personal knowledge of that?

20          Q     Yes.

21          A     No, I do not.

22          Q     Okay. Thank you.

23                By the way, are you being paid by Apple to be  
24 here today?

25          A     Yes, I'm being paid.

1 Q How much?

2 A We haven't figured out -- I haven't discussed

3 a daily rate yet, but for the hourly work I did, it was

4 \$375 an hour.

5 Q And you've been here all week?

6 A I have been here all week.

7 Q Okay.

8 MR. CANTINE: No further questions.

9 THE COURT: All right. Thank you.

10 Redirect?

11 MR. SOOBERT: Nothing further, Your

12 Honor.

13 THE COURT: Thank you. You may step

14 down.

15 Who will be your next witness?

16 MR. RANDALL: It's our expert, Your

17 Honor, Dr. Feiner.

18 THE COURT: Doctor who?

19 MR. RANDALL: Dr. Feiner.

20 THE COURT: Feiner?

21 All right. How's the jury doing? Do you

22 need a break before we start?

23 Okay. All right. We'll take a -- I'm

24 going to -- let's try to do it in -- well, we'll give

25 you a 15-minute break.



1                   We'll be in recess until 2:25.

2                   COURT SECURITY OFFICER: All rise for the

3 jury.

4                   (Jury out.)

5                   (Recess.)

6                   COURT SECURITY OFFICER: All rise.

7                   (Jury in.)

8                   THE COURT: Please be seated.

9                   All right. Let's proceed.

10                  MR. RANDALL: Thank you, Your Honor.

11                  Apple calls Dr. Steven Feiner.

12       STEVEN FEINER, Ph.D., DEFENDANTS' WITNESS, PREVIOUSLY

13                                   SWORN

14                                   DIRECT EXAMINATION

15 BY MR. RANDALL:

16           Q       Would you state your name for the record,

17 please?

18           A       My name is Steven Feiner.

19           Q       Can you briefly summarize your educational

20 experience?

21           A       Sure. I have a bachelor of arts degree in

22 music and a Ph.D. in computer science from Brown

23 University.

24           Q       And can you describe your professional

25 employment experience?

1           A     Sure. I've been a research and teaching  
2 assistant, assistant professor, then a full professor of  
3 computer science at Columbia University, beginning with  
4 research and teaching assistant in 1985. I've been at  
5 Columbia for 25 years right now.

6           I teach courses and have taught courses in a  
7 range of subjects in video logic, computer graphics,  
8 software viewing, mobile computing; and currently I've  
9 been teaching mostly courses in user interface design  
10 and 3-D user interface design.

11          Q     Have you ever acted as a consultant in the  
12 area of computer science or an expert in that area?

13          A     Yes, I have.

14          Q     And approximately how many times?

15          A     Been on the order of maybe 12 or so active  
16 cases and also several consulting arrangements with  
17 companies in which I've evaluated technology that they  
18 have been working on as well as giving talks about the  
19 work that I'm doing and work that's being done in  
20 general and various aspects of computer science.

21          Q     Okay. And have you studied the patents that  
22 have been asserted in this case?

23          A     Yes, I have.

24          Q     You've studied the patents and you also  
25 studied the file histories?

1           A     I've studied the patents. I've studied the  
2 file histories. I've studied references that are on the  
3 face of the patent, and a variety of material.

4           Q     Have you studied the prior art as well?

5           A     I have studied other prior art; the prior art  
6 that I know of on my own and prior art that was provided  
7 me during the course of the case.

8           Q     And have you also looked at and had access to  
9 the discovery in this case, including deposition  
10 transcripts and documents produced by Mirror Worlds,  
11 documents produced by Apple, documents produced by third  
12 parties?

13          A     I have had access to all of those documents  
14 and probably more as well and, of course, the Court's  
15 claim construction order.

16          Q     Do you feel comfortable in your understanding  
17 of all the technical materials you've read in this case?

18          A     Yes, I do.

19          Q     And have you been asked to form any opinions  
20 in this case?

21          A     I have not been directed to form any opinions,  
22 but I have generically been asked to come up with  
23 opinions.

24          Q     Have you formed an expert opinion in the case  
25 about what --

1 MR. RANDALL: By the way, can you please

2 put up LX1?

3 Q (By Mr. Randall) I have put up before you LX1,  
4 and at the top row, it shows '227, Claims 13 and 22;  
5 '427 patent, Claims 1, 8, 16, 18, and 25; the '313,  
6 Claims 1, 2, 3, 9, and 11.

7 Do you see those claims?

8 A Yes, I do.

9 Q Do you understand that those claims are being  
10 asserted by Mirror Worlds against Apple?

11 A Yes.

12 Q And have you studied those claims?

13 A Yes, I have.

14 Q Have you studied the file histories as they  
15 relate to those claims, including the Court's claim  
16 construction?

17 A Yes.

18 Q Have you studied each and every claim term and  
19 element that is included in those claims?

20 A Yes, I have.

21 Q And based on your review and your experience  
22 of the patents, the claims, each and every claim term  
23 included in those asserted claims, the Court's claim  
24 construction, did you form an opinion as to the scope of  
25 those claims by the structure?

1           A     Yes, I have.

2           Q     All right. Based on that -- and did you also  
3 study Apple's accused products and the relevant  
4 technical material, including the deposition testimony  
5 regarding the operation of those accused products?

6           A     Yes, I have.

7           Q     And based on all of that work, did you form  
8 opinions that Apple's accused products do not infringe  
9 any of those asserted claims I just mentioned?

10          A     Yes. My opinion is that Apple's accused  
11 products do not infringe any of those claims.

12          Q     All right. Now, with respect to your review  
13 of the evidence, did you form opinions in this case  
14 regarding invalidity?

15          A     Yes, I did.

16          Q     Did you, in forming those opinions, did you  
17 also apply, as you just mentioned, your review and  
18 conclusions regarding the scope of the claims and the  
19 proper construction of those claims, the Court's claim  
20 construction, your review of the file history, did you  
21 apply the scope of those claims to prior art that you  
22 reviewed in this case?

23          A     I did.

24          Q     And did you review both prior art,  
25 publications, patents and other publicly available

1 material?

2 A Yes, I reviewed a very wide range of material.

3 Q All right. And based on your construction of  
4 the claims, and guided by the Court's construction and  
5 your application of those claims to the prior art, did  
6 you form in your mind the expert opinion that each and  
7 every claim asserted by Mirror Worlds against Apple that  
8 I just listed are invalid?

9 A I did.

10 Q Did you review the expert reports of Dr. Levy  
11 and Marc Frapier.

12 A Yes I, did.

13 Q And who is Marc Frapier?

14 A Marc Frapier is a person who spent a number of  
15 weeks in looking at the source code for the Mac OS 10  
16 operating system or actually looked specifically at two  
17 versions of it, both Tiger and Leopard, and as well also  
18 for the iPhone, iPad, and iPod series.

19 Q And did you rely in part on Mr. Frapier's  
20 experience and review of the Apple source code in  
21 forming your opinions in this case regarding  
22 non-infringement?

23 A I formed my opinions relying both on  
24 Mr. Frapier's review of the source code and also myself,  
25 as well as talking with Apple employees who are familiar

1 with the source code.

2 Q Did you prepare expert reports in this case?

3 A Yes, I did.

4 Q Did you prepare --

5 MR. RANDALL: Strike that.

6 Q (By Mr. Randall) Did you prepare an expert

7 report detailing your opinions regarding the fact that

8 Apple does not infringe any of these asserted claims?

9 A Yes. I prepared a non-infringement report.

10 Q And was your non-infringement report provided

11 to counsel for Mirror Worlds?

12 A As far as I know.

13 Q And were you --

14 A I didn't provide it personally myself, but I'm

15 sure your law firm did.

16 Q Were you deposed by the lawyers for Mirror

17 Worlds regarding your expert opinions of

18 non-infringement?

19 A Yes, I was.

20 Q All right. Did you also prepare an expert

21 report in this case detailing your opinions regarding

22 invalidity of each of the asserted claims?

23 A Yes, I did.

24 Q And were you deposed by Mirror Worlds' lawyers

25 regarding those opinions?

1           A     Yes.

2           Q     All right.

3                   MR. RANDALL:  Can you bring up SF1,  
4  please?

5           Q     (By Mr. Randall) I'm showing you what's up on  
6  the screen as the '227, '313, and '427.

7                   Are those the patents that you reviewed,  
8  studied, and formed opinions on regarding both  
9  non-infringement and invalidity?

10          A     Yes.  Those are the three Mirror Worlds  
11  patents that I reviewed, studied, read very carefully,  
12  and references that are the faces.

13          Q     There's a bullet down below that says the  
14  invalidity date.

15                  Now, do you understand that date, June 28th,  
16  1995, to be the date that is exactly one year before the  
17  first patent in that chain was filed, and therefore,  
18  that is the, what lawyers call, the critical date?  So  
19  if any prior art is out there that describes those  
20  inventions was publicly available before June 28th,  
21  1995, then the patent is invalid; do you understand  
22  that?

23          A     I certainly understand that.  I looked at that  
24  first patent very carefully.  Actually, the copy I had  
25  was a little hard to read, so I made sure I verified



1 that it was 28, not 25.

2 Q Also up there, it says the same written  
3 description. Do you understand that to mean that the  
4 written description describing how someone is supposed  
5 to practice this invention, including the figures and so  
6 forth, are all the same for those two patents?

7 A Yes, I do.

8 Q All right.

9 A There being only minor differences.

10 Q Okay.

11 MR. RANDALL: Can you pull up SF2,  
12 please?

13 Q (By Mr. Randall) Now, this -- do you  
14 understand that this document shows the asserted claims  
15 along the top row, and then down the left column, under  
16 claim terms, has a set of -- of elements that run  
17 through various claim -- claims asserted by Mirror  
18 Worlds?

19 A So on the left is basically a colored bubble  
20 and each of them has a shortened paraphrase of the  
21 important parts of the five claim terms.

22 Q And what are those checkmarks in the -- in the  
23 right side of the box?

24 A The checkmarks on the right are designed to  
25 indicate that for each one of the columns where a column

1 corresponds to a claim of a specific patent, for  
2 example, the first column to the right of the bubbles is  
3 the column for Claim 13 of the '227, and the claim in  
4 the patent is a dependent claim, Claim 22.

5           The checkmarks indicate that the two bubbles  
6 indicates one having to do with the stream and the other  
7 one having to do with a time-stamping uniquely identify  
8 the units, that apply to that claim, and that one needs  
9 to be found to infringe the claim, or they need to be  
10 shown to actually have those, and to show that they were  
11 things that actually did these things.

12       Q     All right. Now, with respect to -- let's  
13 start with non-infringement.

14           Do you understand that Apple, number one,  
15 doesn't have to prove anything; it's Mirror Worlds'  
16 burden to show that Apple practices, with respect to the  
17 accused products, each and every element of every  
18 asserted claim?

19       A     Yes.

20       Q     So even though you may have an objection and  
21 disagreement with Mirror Worlds' position about whether  
22 or not Apple satisfies each and every element of every  
23 claim, are you going to focus your opinions in this  
24 presentation on a few of the elements that are missing?

25       A     I'm going to focus my -- because there's so

1 many different elements involved and such limited time,  
2 I'm going to focus on specific ones in presenting the  
3 case.

4 Q Okay. All right. With respect to the accused  
5 products, do you understand that Mirror Worlds is  
6 asserting that Mac OS 10 Leopard and Snow Leopard both  
7 infringe?

8 A Yes, I understand that.

9 Q Okay. And do you understand that Mirror  
10 Worlds is alleging that Apple's Mac OS 10 Leopard and  
11 Snow Leopard infringe each of the asserted claims that  
12 are listed there across the top?

13 A Yes, I do.

14 Q Okay. And that the Mac OS 10 Tiger infringes  
15 just the '227, Claims 13 and 22?

16 A I do.

17 Q And based on your review and analysis and  
18 expert opinion in this case, do you believe that Apple  
19 does not infringe any of those claims?

20 A I did not believe Apple infringes any of those  
21 claims.

22 MR. RANDALL: Let's go to SF4, please.

23 Q (By Mr. Randall) Can you describe what's  
24 represented here by this slide?

25 A Okay. So this basically is a summary of what

1 we've just been talking about, and we've listed --  
2 there's five points, and the point is, in order to be  
3 able to go and show that Apple products don't infringe  
4 any of the Mirror Worlds claims, we are basically trying  
5 to show that there is none of the five.

6           So there is a stream and a time-ordered diary  
7 that needs to have a past, present, and future portion.  
8 There is no timestamp that uniquely identifies any of  
9 the data units. There is no two operating systems.  
10 There is no receding foreshortened stack.

11           And, finally, there is no apparent sliding  
12 without clicking a cursor, none of this to pop up a  
13 glance view. No cursor.

14           These are shorthand for the much longer  
15 language of the individual claims.

16       Q     Now, you understand that it is sufficient to  
17 show non-infringement if Apple is able to demonstrate,  
18 even though it's not our burden, any one of those items  
19 that is missing from the claim?

20       A     Right. The claim basically is a collection of  
21 limitations, and if we have shown, no matter what it is,  
22 is missing from the claim, then there is  
23 non-infringement.

24       Q     All right. Let's focus on the stream and  
25 past, present, and future time-ordered diary.

1                   And what does this slide represent?

2           A       What we are looking at here is a part of the  
3 Court's claim construction, and so the idea is that  
4 there is a bunch of terms that are used in the patent,  
5 and one needs to have some clarity as to exactly what  
6 those terms mean, especially when they're terms that are  
7 not ones that people of ordinary skill in the art would  
8 use with an understanding that they mean amongst them  
9 the same thing.

10                   Stream is such a term. It's not a term that  
11 we normally use with a set and clear meaning. And,  
12 therefore, the Court has essentially, based on a review  
13 of the patent's file history, et cetera, has come up  
14 with a definition that needs to be used in evaluating  
15 the patent and its claims.

16                   We have to make sure we use this definition,  
17 whether we like it or not.

18                   And in this case, with some additional  
19 emphasis being added, there's some underlining and  
20 bold-facing being used that is not in the original  
21 construction by the Court, this is saying that when we  
22 see stream in the patent claims, we have to understand  
23 it in the following way:

24                   That it needs to be a time-ordered sequence.  
25 The sequence is one thing after another in one set

1 order. That order needs to be based on time. It's a  
2 sequence of documents, and the sequence of documents  
3 that's time-ordered needs to function as a diary of a  
4 person's life or of an entity's life, electronic  
5 portions, that is.

6 And very, very important, because that "and"  
7 is crucial, and not just is it a diary, but it's one  
8 that has three main portions: A past, a present, and a  
9 future.

10 Q And does Apple's operating system satisfy this  
11 element?

12 A No, it does not.

13 MR. RANDALL: Let's go to SF6, please.

14 Q (By Mr. Randall) What does this slide  
15 represent?

16 A So this is basically designed to help support  
17 the assertion that I just made.

18 What we're looking at over here is a view of  
19 find a window in Apple, and that's a view of Figure 1 of  
20 the Mirror Worlds' patents.

21 And one of the points being made is you're  
22 looking at a hierarchical file system. This is an  
23 approach that's been used for decades, in fact, before  
24 Apple was even founded as a company. And this is the  
25 notion of folders that contain successive folders and

1 maybe even more folders all the way down, and as well  
2 also, the leaves, or what computer scientists call  
3 trees, there are files.

4           So what we're looking at here in alphabetical  
5 order, starting with desktop at the top going all the  
6 way down to, I think, it's public at the bottom. Those  
7 little blue rectangular things stand for folders, and  
8 the things that are also on that screen there that are  
9 white are actual files; in this case, images of files of  
10 documents.

11           So we're seeing hierarchical on Apple. We're  
12 seeing non-hierarchical, strict linear representation,  
13 and internally and visually in Mirror Worlds. We're  
14 seeing that filings and directories are required.

15           You're actually seeing the names of those  
16 things in the Apple screenshot.

17           And you're seeing, in fact, no names, I  
18 believe, over here in the case of Mirror Worlds, because  
19 one of the features of their work is that file engine  
20 directories are not required.

21           In Mirror Worlds, not only is it linear, but  
22 it is time-ordered. And throughout the patents, the  
23 only ordering being discussed is a temporal order.

24           And in Apple, a lot of the prior art, even  
25 before Apple was a gleam in anyone's eye, was the notion

1 of being able to sort on name, as is happening in this  
2 case, on date modified, on size, on kind, on any of a  
3 variety of different attributes.

4 Q And are those systems here, this file names  
5 and directories, that is utilized by Apple and has been  
6 utilized by Apple throughout its history, is that  
7 fundamentally different than this concept that is  
8 displayed here in Mr. Gelernter's patent?

9 A It's -- well, it's not only fundamentally  
10 different, but if you read the -- the patents from  
11 Freeman and Gelernter, they spend quite a lot of time  
12 railing against this approach and saying that we really  
13 need to do something different from this.

14 So this is fundamentally different in the most  
15 profound way.

16 MR. RANDALL: Can you pull up Slide 7,  
17 please?

18 Q (By Mr. Randall) What does this slide labeled  
19 mainstream represent?

20 A Okay. So we're seeing here two more items  
21 from the Court's claim construction. We've just seen  
22 before, the construction for stream. Now we're seeing  
23 construction for mainstream.

24 So whenever we see mainstream in a claim, we  
25 need to make sure that we interpret it the way that the



1 Court has defined it and construed it. And so this is a  
2 stream, as we saw before, that is inclusive of every  
3 data unit.

4           These are data units, documents of importance  
5 to the user that's been received by or generated by the  
6 computer system, and then underneath you're seeing just  
7 a copy but without that additional highlighting of the  
8 construction for stream that I discussed before.

9           Q     And did you analyze and reach a conclusion  
10 regarding whether Apple's accused operating systems  
11 practice either a mainstream or a stream as defined by  
12 the Court?

13          A     Yes, I did. And I could not find a mainstream  
14 or a stream in any of the Apple operating systems. They  
15 don't have it.

16                   MR. RANDALL: Can you pull up 8, please?

17          Q     (By Mr. Randall) Now, I think we've seen this  
18 once or twice before, but can you please identify what  
19 this slide showing Spotlight index and search engine is?

20          A     Okay. It's supposed to describe the Spotlight  
21 technology at a very, very high level, and it's showing  
22 at the left that this is the folder system -- I'm not  
23 sure I can actually successfully point to anything here  
24 without messing things up.

25          Q     Well, would you like --

1 MR. RANDALL: Your Honor, may the witness  
2 just step down from the --  
3 THE COURT: Yes, he may.  
4 MR. RANDALL: -- witness stand a moment?  
5 And I'll give him this pointer.  
6 THE WITNESS: Thank you.  
7 THE COURT: All right. You need to get  
8 the microphone.  
9 No, not that one. This one (indicates).  
10 THE WITNESS: Thank you.  
11 A Okay. So what we're seeing over here is the  
12 folder system, and this is just the regular file system,  
13 hierarchical, as the folder is emphasizing of the  
14 Macintosh computer.  
15 Here we have Spotlight over here. Spotlight  
16 basically is going to build some data structures based  
17 on the material that's in that folder system.  
18 There's a search interface that lets you  
19 actually search for stuff. You can submit a query. You  
20 can get back results, and the way this works is the  
21 query is going to query stuff that's in the Spotlight  
22 Store. It's got a content index that you've heard about  
23 before, that provides a way of indexing the stuff that's  
24 actually in the file.  
25 And it's got a Metadata Store that stores

1 information about the file, things like, for example,  
2 dates, authors, things of that sort, lots of different  
3 kinds of metadata. And in one of the operating system,  
4 the metadata is also indexed in the content index.

5           And of course, this is really not so  
6 standalone, because while the content is indexed over  
7 here, the full content in the sense of the actual full  
8 sentences, for example, pictures, et cetera that are in  
9 the documents, are still in the documents; and the  
10 Spotlight Store ultimately points out to the regular  
11 file system to where the documents are.

12       Q     Now, Dr. Feiner, the Spotlight does not have  
13 an index to store these files, but the files are stored  
14 where? I mean, where are the documents?

15       A     The files are stored the way they always have  
16 been stored within the Macintosh's regular hierarchical  
17 file system.

18       Q     All right. So the documents are not stored in  
19 the Spotlight Store?

20       A     The documents are not within the Spotlight  
21 Store, correct.

22       Q     They're in the file system?

23       A     Yes.

24       Q     All right. And does the Spotlight Store, as  
25 it's depicted, is it time-ordered?

1           A     The Spotlight Store is not time-ordered. The  
2     Spotlight Store is ordered by object ID.

3           Q     All right. And there are two components I see  
4     there. There in the Spotlight Store is the content  
5     index and the Metadata Store.

6                     Are either one of those ordered by time?

7           A     They are not ordered by time, no.

8           Q     And what are they ordered by?

9           A     Well, the content index, depending upon the  
10    version of the operating system, is essentially  
11    maintained as one of two different kinds of trees.

12                     One of them is sometimes pronounced as tree  
13    (pronouncing), but you also pronounce it as tree, either  
14    a B-tree or a purse tree.

15                     And that's basically designed to let you very  
16    quickly be able to go -- and when you're typing stuff in  
17    to do a retrieval request, you can, as you're typing, be  
18    able and go get information back, because it's a very  
19    efficient way to index.

20          Q     And do those distinctions mean that Apple does  
21    not have either a mainstream or a stream?

22          A     They are among them -- I think a number of  
23    other reasons I think Apple's file system -- rather  
24    Apple does not have either a mainstream or a stream.

25                     There are additional reasons as well, and I

1 hope I have time to get to them.

2 Q Okay.

3 MR. RANDALL: Let's go to SF9.

4 Q (By Mr. Randall) What is depicted here,  
5 Dr. Feiner?

6 A So what we're showing over here is a little  
7 scenario in which a person has over the years taken some  
8 pictures, all on New Year's in the wee hours of the  
9 morning, and they put them on a photo CD.

10 They have now put the photo CD into -- on the  
11 left, it's going to a Macintosh system; on the right, it  
12 would be a system running on Mirror Worlds' invention.

13 And when you put it into the Macintosh system  
14 actually, just putting it in there, although you get  
15 access to this from the file system, it's actually  
16 non-accessible at that point from Spotlight.

17 And so what you could do is if you wanted it  
18 to be accessible to Spotlight, you could copy those  
19 photos into a system onto the main drive, for example.

20 And then what you're seeing up there is a list  
21 in the hierarchical file system. There's a directory  
22 that might have the version of the photo CD or might not  
23 have been. In this case, called New Year's photos. And  
24 you're seeing in this case sorted by the first letter of  
25 the name on each one of those images, a set of images.

1 Notice that they are file-- sorted

2 alphabetically, not by date.

3 Although the dates, however, are dates from  
4 2007 up through 2010, and so this is typically the way  
5 in which a person might want to actually see the  
6 pictures they have taken over the years.

7 And then here is the hypothetical Mirror  
8 Worlds system. You put in your photo CD; and as the  
9 patents describe, since the material on the photo CD is  
10 new to the Mirror Worlds system, they get added at the  
11 head of the stream. And that's supposed to be  
12 represented by those brightly colored figures that are  
13 being added at the head of the stream.

14 So they're all being added at whatever the  
15 current date is.

16 Q Okay. Does the Apple system act as a diary of  
17 a person's electronic system?

18 A Okay. The -- I'm going to sit down here.

19 So the Apple system does not act as a diary of  
20 a person's electronic life. And one of the reasons  
21 is -- and I thought we actually had some slides for  
22 this, but maybe we're not going to have time to show  
23 them.

24 MR. RANDALL: Well, let's go 10.

25 Q (By Mr. Randall) And first, let's talk about

1 this for a moment.

2 A Okay. So this is related to what I was just  
3 going to say, and what we have over here is one of the  
4 things that I considered in the process of trying to  
5 evaluate the patents. And this is actually an excerpt  
6 from one of the pages of a very, very thick document,  
7 which is the file history.

8 This is all of the written interactions that  
9 the inventors had had with the U.S. Patent Office.

10 And one of the things that happened during the  
11 course of the action is the Patent Examiner, looking at  
12 the claims that are being made by the inventors, is  
13 going to do his or her best to try to say, well, wait a  
14 second; is this really novel relative to other stuff?

15 In this case, some material was presented.  
16 The inventors are now responding, and they're basically  
17 saying, well, we are novel, and here's why. And what  
18 we're doing basically is we're amending our claims to  
19 make sure that we capture stuff that we've talked about  
20 in our specification, but that we don't step on and  
21 don't sound like we're doing things that have been done  
22 before.

23 Q All right.

24 A So what they're saying here is the amended  
25 claims do not permit data users to remove from the

1 mainstream and still remain in the computer system,  
2 because there was some previous art in which one could  
3 actually remove something from something that the Patent  
4 Examiner was saying that the Mirror Worlds inventors'  
5 work was too much alike.

6           And they're trying to say, no, no, no. In our  
7 system, you cannot remove data units from the  
8 mainstream. They still have to be in the computer  
9 system, okay? If you get rid of them completely, that's  
10 okay, but if they're still in your computer system,  
11 that's a no-no, and you may not do that with something  
12 that is a mainstream. Our mainstreams don't let that  
13 happen.

14       Q     Okay. Let's -- in fact, let's see if we can  
15 do this. Why don't you put that microphone down, and  
16 we'll use the other one.

17           One's loud; one's not quite loud enough, but  
18 we'll -- we'll change it a little bit.

19       A     Okay.

20       Q     Okay. Now -- so here in this office action,  
21 the applicants are telling the Patent Office that their  
22 invention is different.

23           If -- if -- if documents in a computer system  
24 can be maintained outside of this mainstream, then it's  
25 not practicing their invention, right?



1           A     Documents -- yes. Documents are of importance  
2 to the user. If they're outside, then, sorry, it's not  
3 a mainstream.

4           Q     Right. And we'll get to that in a moment.

5                     So, for instance, if the Apple operating  
6 systems have a privacy feature that allows users to  
7 select very important, very sensitive documents and put  
8 them in a folder and exclude them from the Spotlight  
9 search, if you will, then Apple's operating systems  
10 would not infringe; is that right?

11          A     That's absolutely true. In fact, I think even  
12 the very presence of a facility that, that's not an  
13 obscure thing that only a programmer or someone who knew  
14 some obscure codes would know how to do, but something  
15 that's very clear and obvious and easy to get to part  
16 of -- a well-documented part of the user interface, the  
17 very fact that you make that available, whether or not  
18 someone uses it, indicates that we're not creating a  
19 mainstream.

20          Q     All right.

21                     MR. RANDALL: Let's go to No. 11.

22          Q     (By Mr. Randall) All right. And here's -- and  
23 we've heard -- I don't know whether you were in the  
24 courtroom earlier or not, but we've heard from a series  
25 of Apple employees about Spotlight's privacy preferences

1 and the ability of users to select important and  
2 sensitive documents.

3           For a variety of reasons, perhaps they're  
4 sharing a computer. Perhaps they don't want their kids  
5 to see their financial returns or financial information.

6           There's a whole host of reasons why people may  
7 say, whoever turns on this computer and has access to my  
8 computer, I don't want them to have full access on a  
9 search to everything I've got.

10           So maybe, just maybe users would want to take  
11 certain important, sensitive documents and take them  
12 outside of the main library or index, Spotlight, and put  
13 them somewhere else where they're not subject to  
14 searches.

15           Now, that was explained earlier, and I'm  
16 asking you if -- is that Apple's feature right there?

17         A     This is Apple's feature right there, and you  
18 can see that that's designed for regular users. It has  
19 a very nice, very carefully worded explanation to what  
20 Spotlight does at the top. It tells you clearly that  
21 this prevents Spotlight from searching locations.

22           To make it really easy, in fact, you can drag  
23 whatever you would like to directly -- a folder or even  
24 a disk, an entire disk, can literally be dragged right  
25 into the list over there.

1           So it's essentially one very fast action, and  
2 those things will not -- simply will no longer be  
3 searched, but they will also actually be actively  
4 deleted from the Spotlight database.

5           Q     All right. Now, I don't know also whether you  
6 were here for Dr. Levy's testimony, but Dr. Levy  
7 suggested to the jury that -- that this feature was only  
8 used for and only available for documents that were  
9 completely unimportant to the user; and that apparently  
10 users would select documents, put them in a privacy  
11 folder, because they were completely unconcerned with  
12 them and they were not important to them.

13                     Do you agree with that?

14           A     I completely disagree with that. I think  
15 there is a facility for people -- or rather for  
16 documents that are completely unimportant to you, and  
17 that's called delete. If you don't like them, you don't  
18 care about them, you don't want them, they're taking up  
19 space that's not being well-used, you get rid of them.

20                     This is specifically the things that you don't  
21 want to have searched, and it's a little bit -- because  
22 they're not to be searched and because of literally the  
23 name Privacy over here -- this is a little bit like  
24 having, let's say, safe in your house, and you put in  
25 the safe not the things you don't care about, you put in

1 the safe probably the things that you are most concerned  
2 about.

3 Q All right.

4 A And so these are things that you care about,  
5 and as well as there are even other reasons. It turns  
6 out that when common things currently, and I've actually  
7 even seen this on the web, is because Spotlight, which  
8 is, to me, a really good thing, also takes time. A  
9 number of people will simply drag in there an entire  
10 disk, because they just don't really want to use  
11 Spotlight, and they want to just have their disk and not  
12 be indexed, or would drag in portions of it that they  
13 don't want to have indexed, because that way it will  
14 just take them less time, and also provide less clutter  
15 for the return results that are coming back.

16 Q All right. So is it your opinion that because  
17 Apple's operating systems that are accused of  
18 infringement provide this feature expressly to its users  
19 to segregate documents from the Spotlight function that,  
20 therefore, for this reason alone, Apple doesn't infringe  
21 the claims, right?

22 A And for that reason alone, this is clearly not  
23 in a mainstream and it's not intended to be a  
24 mainstream.

25 Q All right.

1 MR. RANDALL: Let's go to SF12, please.

2 Q (By Mr. Randall) All right. Can you please --  
3 so this is -- indicates at the top that there is no  
4 stream past, present, or future time-ordered diary in  
5 the Apple operating system.

6 Is that your opinion?

7 A So this is -- yes, this is my opinion.

8 This is just a set of bullet points that are  
9 summarizing the things I've talked about. The point is  
10 that Mac OS 10 has a hierarchical file system that  
11 requires users to name files and saving in folders;  
12 precisely the kinds of systems that are being criticized  
13 in the specification of the patents.

14 Spotlight isn't a mainstream, because it  
15 doesn't have every document in the system. There are  
16 actually some documents that because of their very name  
17 are not going to get included.

18 And you can also exclude items on your own  
19 from the index. Even if they're already in there, you  
20 can pull them out, and literally they will be deleted  
21 from the Spotlight index, if they were there originally.

22 There are parts of the file system that are  
23 not included, as was mentioned before, that could well  
24 make some users, in fact, a little bit upset, because  
25 they would have wanted to have those things included.

1           The Spotlight Store is not time-ordered. It's  
2 ordered by ID number, object ID, as I mentioned before.  
3 And this is yet another issue. Just the idea of  
4 searching for documents, sorting them via date, for  
5 example, that's not a stream. That's something that --  
6 I mean, I've been doing since -- and I'm certainly not  
7 unique -- since the very first time I used a computer.

8           Every system I know of provides you with the  
9 ability to list things in date-sorted order for creation  
10 date or modification date or when last-used date. And  
11 that's just a standard facility that I couldn't imagine  
12 an operating system user interface not providing.

13       Q     Okay.

14           MR. RANDALL: And let's go to Slide 13,  
15 please.

16       Q     (By Mr. Randall) All right. This is a  
17 timestamp to uniquely identify, and I think that we  
18 heard -- it's interesting we heard from Professor  
19 Lansdale earlier with respect to his time-ordered  
20 MEMOIRS system.

21           And he said that they do need to stamp  
22 documents in his MEMOIRS system to order them by date.  
23 And I'm asking you, in Apple's operating systems, do  
24 they have what the Court has construed the timestamp to  
25 identify mean?

1 Does Apple have a date and time value that  
2 uniquely identifies each document?

3 A Apple actually does not. Documents are  
4 associated with date and time values, but the  
5 granularity, how specifically those values are, is very,  
6 very coarse.

7 They basically have one-second granularity, so  
8 it's very easy to have many, many documents that are  
9 created or modified or last looked at or whatever at  
10 that same time with the granularity of one second.

11 Q And is that similar to --

12 A Even if you had a whole bunch of documents  
13 that every one of them -- however unusual that might  
14 be -- had a different date, it's still not the case that  
15 the Apple operating systems use that date to identify  
16 anything.

17 It's simply an attribute, like size, for  
18 example. You can find out the size of a document. You  
19 certainly don't identify -- rather the operating system  
20 doesn't identify something by its size, even though a  
21 user might look at something and say, oh, yeah, that's  
22 the thing that's this big or this is the thing that I  
23 did at a particular time.

24 Q All right.

25 MR. RANDALL: Let's go to 14.

1           Q     (By Mr. Randall) Now, what you have here is  
2 that Spotlight does not use a date or time value that  
3 uniquely identifies each document.

4                     That is the Court's construction, correct?

5           A     Yes.

6           Q     That Spotlight simply doesn't use it; is that  
7 right?

8           A     That's correct.

9           Q     And you have also here that Spotlight uses ID  
10 numbers, which you previously testified to, to uniquely  
11 identify the documents; is that correct?

12          A     That is true.

13          Q     All right. In the --

14          A     Actually, I could mention that, in fact,  
15 within a Spotlight Store, the ID number uniquely  
16 identifies the document, but on a computer, you might  
17 have multiple stores.

18                     And I think we heard some reasons before for  
19 why that's the case. And, in fact, although you might  
20 argue that a lot of people don't have a second hard  
21 drive in their Macintosh or plugged in externally, it  
22 doesn't have to be a hard drive anymore.  
23 It could be a USB key.

24          Q     All right.

25          A     So that would have a separate store.



1                   And the ID number, as you move something from  
2 one place to the other, would change.

3           Q       And Apple has documents in their system and  
4 documents can be in their system that have the same  
5 date, right?

6           A       Right. I'd be shocked if there were an Apple  
7 computer anywhere in which there were documents having a  
8 unique date.

9           Q       Okay.

10                   MR. RANDALL: Let's go to 16, please.

11           Q       (By Mr. Randall) All right. Here, the Court  
12 has identified what operating system means. The  
13 software that handles basic computer operations; e.g.,  
14 managing input/output, memory applications, et cetera,  
15 and presents an interface to the user.

16                   Did you apply that definition provided by the  
17 Court in rendering your opinion that Apple does not have  
18 two operating systems as defined by the Court?

19           A       Yes, I did.

20           Q       And is that another reason why Apple does not  
21 infringe?

22           A       Indeed, that is.

23                   MR. RANDALL: Let's go to Slide 18.

24                   Oh, I'm sorry. We're going to go to  
25 Slide 17.

1           A     So I think here probably the --

2           Q     (By Mr. Randall) Can you briefly describe what

3 this slide means?

4           A     Okay. So I think -- I'm not going to talk

5 about iPhone, only about Mac OS X.

6                     MR. RANDALL: Let me go to the next one.

7                     Excuse me. My fault.

8           Q     (By Mr. Randall) So this says no receding

9 foreshortened stack. And on the left-hand side, do you

10 recognize that as the Cowart prior art that we've seen

11 and the jury has seen before?

12          A     Yes, I do.

13          Q     All right. The right side is Mirror Worlds'

14 patent, right?

15          A     That's correct. There's a little bit of extra

16 additions over there to try and make a point.

17          Q     Okay. And the Patent Office -- the inventors

18 told the Patent Office that their system, their

19 invention, the Mirror Worlds system was different than

20 Cowart, because the windows in Cowart do not get smaller

21 as they recede back into space, and that that was a key

22 aspect of the streams of the Mirror Worlds invention.

23 Is that right?

24          A     That's absolutely right, because they're being

25 presented with something which you're seeing a receding

1 stack.

2           If all the items in that receding stack are  
3 the same size and if they want to be able to go and have  
4 their work being upheld over that, they're going to have  
5 to go and get around it. And what they do in their case  
6 is they have a picture that they've already presented.

7           That picture has things that get smaller  
8 towards the back; and at this point, they're giving it  
9 up being able to say that anyone who does things, they  
10 don't get smaller towards the back are doing what they  
11 are doing.

12       Q     All right.

13       A     So they're narrowing basically, and this is  
14 the part of that delicate dance that they have to  
15 perform for the Examiner. The Examiner is saying, wait  
16 a second; this thing has been done before. And they're  
17 saying, well, in that case, we really are only going to  
18 claim those things in which stuff gets smaller as it  
19 gets towards the back of a receding stack.

20       Q     All right. So, Dr. Feiner, let me direct you  
21 to SF19, please.

22           All right. Now, this is Coverflow, and we've  
23 heard testimony from the Apple witnesses about this that  
24 Coverflow is not -- does not recede into the background;  
25 it is not a foreshortened stack. They confirmed that

1 with the source code.

2           Do you agree with that?

3       A     I agree with that. I've looked at the source  
4 code. I've looked at the actual user interface itself.  
5 And you're seeing an example of that over here in  
6 which -- there's two issues over here. One of them is  
7 receding, going back away from the screen. And the  
8 other one is foreshortening.

9           And in this case, all of the albums on this  
10 shiny shelf that you're seeing, with the exception of  
11 the one in the front, they're all the same distance from  
12 the user's screen in the sense that the front edge  
13 and -- actually, I should get up and point over here.

14           The front end of each one of these albums over  
15 here, this edge and this and this and this and this and  
16 this and this and this (indicates), they are all  
17 basically the exact same height.

18           The rear edge, which you really can't see all  
19 that well, because the one over here is covering the  
20 side ones a little bit, but I can tell you that based on  
21 the analysis of the code and based also on situations in  
22 which -- depending upon where the camera is, you can  
23 actually see the rear edges.

24           You'll be able to tell that the rear edges are  
25 all also at the exact same distance. So each one of

1 these things is lined up on a shelf, basically at a  
2 60-degree angle, angled in like this on one side, in  
3 like that on the other side.

4 As well, not only is this not receding, but it  
5 is not foreshortened in the sense that all of the items  
6 over here basically are now at the same height. So not  
7 only are they the same distance in the front and the  
8 back, but they're all also the same height.

9 You can see them from that red line being  
10 drawn across on over there. The pair of red lines we're  
11 showing you, both the front edges in this case are all  
12 the same size. So this is not an example of the kind of  
13 foreshortening technical computer graphics and regular  
14 graphics term that the inventors had in mind.

15 Q All right. So is that -- did you also rely on  
16 your conclusion that there -- Apple does not provide a  
17 receding foreshortened stack as required by the claims  
18 in reaching your conclusion, that that is another  
19 independent reason why Apple does not infringe these  
20 claims?

21 A Absolutely.

22 Q All right.

23 MR. RANDALL: Let's go to SF20, please.

24 Q (By Mr. Randall) This is the claim term that  
25 we've talked about previously. It says: Displaying

1 glance views in response to sliding the cursor over the  
2 stack without clicking.

3 Do you see that?

4 A Yes.

5 Q And is this another requirement of the claims?

6 A This is another requirement that's on the  
7 claims.

8 Q All right. And did you apply -- in reaching  
9 your conclusions regarding non-infringement, did you  
10 apply these definitions provided by the Court?

11 A This is --

12 Q For instance, glance view --

13 A Oh, yes. I'm sorry. Yes. Yes.

14 These actually were not the Court's  
15 construction. These are from the patent.

16 But in the case of glance view, yes, this is  
17 definitely an abbreviated representation of a  
18 document -- this combination here.

19 Q Okay. And what's shown there with respect to  
20 this glance view? Can you describe that?

21 A Okay. So what would be shown here, if this  
22 were animated, the idea would be that -- maybe I'll try  
23 to animate it a little bit and try to wave my hands a  
24 little bit to tell --

25 MR. RANDALL: Well, let's go to -- let's

1 go to Clip 8.

2 Q (By Mr. Randall) Can you describe what's  
3 happening here?

4 A What's happening is the cursor is sliding  
5 along, and the idea is that, although you really can't  
6 see this, no one is doing any clicking here. They're  
7 just moving the cursor.

8 And the idea is that what the cursor is  
9 touching is a document that is in that receding  
10 foreshortened stack, and the glance view is over here,  
11 and this cursor is touching a document there.

12 And this would be the glance view of that  
13 document, and the idea is that as you slide the cursor  
14 along like this, you see glance views of -- a glance  
15 view rather of the appropriate document. And this is  
16 done in a way in which there's no clicking. It's just  
17 sliding.

18 And that basically is what's being described  
19 here.

20 Q All right. So that is -- that is a claim  
21 element also that when you slide that cursor across the  
22 stack, that it shows the glance view of the document  
23 that the cursor is pointing to, right?

24 A That's correct.

25 Q Without clicking, right?

1           A     That's correct.

2           Q     All right.

3                     MR. RANDALL:  Diane, can you play Clip 6,  
4 please?

5                     (Clip 6 playing.)

6           Q     (By Mr. Randall) Now, that is demonstrating  
7 here that this pointer or cursor is sliding over.  At  
8 least what Mirror Worlds claims is this document  
9 representation, and nothing happens; no glance view is  
10 occurring, correct?

11          A     That's right.

12                     Just to clarify, that little white cursor we  
13 see moving around on the bottom, that's one from the  
14 machine here.

15                     But the black cursor that's moving at the top  
16 is the Macintosh cursor.  And the point is, if you  
17 actually do this on one of the machines running Mac OS  
18 10, you're going to see exactly what you're seeing,  
19 which is the same thing; nothing is going to happen.

20          Q     Now, is that -- is this another independent  
21 reason -- and we've covered a few of them -- is this  
22 another independent reason why the Mac -- why the Mac OS  
23 10 accused operating systems do not infringe Mirror  
24 Worlds' patents?

25          A     Yes.  The fact that you cannot in any way, by



1 sliding a cursor across the stack, cause the glance view  
2 of the appropriate document to appear, that's another  
3 reason.

4 Q Okay. Let's move on.

5 MR. RANDALL: Can you pull up --

6 A I think Dr. Levy actually agreed with that.

7 Literally, there was no cursor and,  
8 consequently, that could not to be the case.

9 MR. RANDALL: Can you pull up KU10,  
10 please?

11 Q (By Mr. Randall) All right. Now, these are a  
12 number of agreements that have been entered into between  
13 Apple and other companies; is that right?

14 A That's correct.

15 Q Okay. And did you review patents and patent  
16 applications that Apple actually licensed an agreement  
17 from Mr. Lans, which is Exhibit 392 in this case; from  
18 VNM, which is Exhibit 393 in this case; from a  
19 Mr. Green, which is DX394; from E-Data, which is DX398;  
20 from Advanced Audio Devices and SP Technologies, which  
21 is DX419; from Gobeli, which is DX420; and Concert  
22 Technology and FlashPoint, DX400?

23 A Yes. I agree to the ones you just read.

24 Q All right. And for each of those agreements,  
25 did you form an opinion that the patents and

1 applications that Apple licensed were either technically  
2 comparable or more important than the Mirror Worlds'  
3 patents-in-suit?

4 A Yes, I did.

5 Q And did you provide that information to  
6 Apple's damages expert?

7 A Yes.

8 MR. RANDALL: Let me pull up DX225,  
9 please.

10 Q (By Mr. Randall) Do you recognize this?

11 Now, do you recognize this? The name here,  
12 it's called Media Manager with integrated browsers, and  
13 the inventors are Dowdy, David Heller, among others.  
14 The assignee is Apple.

15 So this is an Apple patent, right?

16 A Yes, I've read this patent.

17 Q All right. And does it relate to Coverflow?

18 A Yes, it does.

19 Q All right. And did you hear Dr. Levy testify  
20 that it would have been impossible for Apple to somehow  
21 design around these patents, if they don't infringe, but  
22 they said that it would be impossible to design around  
23 these patents?

24 Does this patent show how this could be done  
25 with Coverflow?

1           A     Yes, it does. And if you have the ability to  
2 turn to some of the later pages in that -- in the  
3 figures, I can give you an example.

4                     MR. RANDALL: Okay. Why don't we move  
5 on.

6           A     Okay. There is an example at the bottom for  
7 example Figure 2(a). It's not quite as nice looking as  
8 the figure that's on the cover, but the idea is that the  
9 covers in this case are not overlapping; and they are  
10 also -- it's a little hard to see, of course, over here,  
11 but we're presuming, because they're being shown in  
12 squares, that they're all parallel to the screen.

13                    If they're all the same distance from the  
14 screen, they're not overlapping, they're not receding,  
15 and consequently, this would not in any way be thought  
16 of as something that could be practicing those claims.

17           Q     (By Mr. Randall) All right.

18                    MR. RANDALL: Now, can you pull up,  
19 please, LX1?

20           Q     (By Mr. Randall) So we went through the claim  
21 terms; for instance, the stream, the past, present,  
22 future time-ordered diary.

23                    Now, that's required by '227, Claims 13, 22;  
24 '427, Claim 1 -- I'm going right across the top there --  
25 and '427, Claim 25; and then '313, Claims 1, 2, 3, and

1 11.

2 Do you see that?

3 A Yes, I do.

4 Q All right. So -- and you've already provided  
5 your expert opinion that Apple does not satisfy those  
6 claim elements and those claims; is that right?

7 A That's correct.

8 Q All right. So for that independent reason, is  
9 it your expert opinion that Apple does not infringe any  
10 of those claims with the checkmarks across the top?

11 A Yes, that is my opinion.

12 Q All right. Now, with respect to this  
13 timestamp to uniquely identify, that is required by  
14 those claims, the '227, Claims 13 and 22.

15 Is it your opinion that Apple does not satisfy  
16 that claim element and, therefore, does not satisfy  
17 those -- does not infringe those claims?

18 A So -- yes, it is my opinion, and it's  
19 redundant in the sense that if it doesn't have a stream,  
20 that by itself is enough. And in this case, we're  
21 saying it doesn't have a stream, and it also doesn't  
22 have a timestamp to uniquely identify.

23 Q All right. And you provided your opinion with  
24 respect to the lack of two operating systems, right, in  
25 Mac OS 10?

1           A     Yes.

2           Q     Mac OS 10 is Mac operating system 10, right?

3           A     That's right.

4           Q     All right.

5           A     They don't have two operating systems.

6           Q     All right. And so those check boxes in those  
7 claims there, all the claims of the '427 and Claims 1,  
8 2, and 3 of the '313 patent, is it your opinion that  
9 Apple does not infringe any of those claims because it  
10 lacks the required two operating systems, as defined by  
11 the Court?

12          A     Yes, it does.

13          Q     All right. And then with respect to this  
14 receding foreshortened stack, we've gone over that many  
15 times, and Apple employees have testified about the lack  
16 of that element, and they've also confirmed that in the  
17 source code.

18                 Is it your expert opinion that Apple does not  
19 practice that receding -- back into space --  
20 foreshortened -- the documents are getting smaller, as  
21 they said about the Cowart reference -- stacked and,  
22 therefore, does not infringe Claims -- of the '427,  
23 Claim 1, 18, and 25, and all of the asserted claims of  
24 the '313?

25          A     Yes. It's my opinion that Apple does not

1 infringe any one of the claims that requires that.

2 Q All right. And with respect to the -- that  
3 last element: Displaying the glance view in response to  
4 sliding the cursor over the stack, do you agree that  
5 the -- that element, as recited in the claims, all of  
6 the '427 and '313 claims that are asserted in this case,  
7 that Apple does not infringe those claims?

8 A That is my opinion.

9 And just to make it really clear, the parens  
10 around some of those checks just correspond to the  
11 without-clicking portion there, because not all of the  
12 claims -- the ones that are outside the parens don't  
13 require the without-checking part.

14 Q All right.

15 A But I believe that this simply does not get  
16 done by any of those claims.

17 Q All right. Now, let's turn to your opinions  
18 regarding invalidity.

19 Now, as you mentioned earlier, you reviewed  
20 numerous prior art references and patents, and you  
21 reviewed and studied each and every element of the  
22 asserted claims, correct?

23 A That's correct.

24 Q And you compared the elements of each and  
25 every element of the asserted claims to the prior art,

1 correct?

2 A That's right.

3 Q And -- and reached conclusions that all of the  
4 asserted claims in these, the 12 claims, were invalid;  
5 is that right?

6 A Yes, I did.

7 Q All right.

8 MR. RANDALL: Let me put up Slide 23.

9 Q (By Mr. Randall) So for time purposes,  
10 unfortunately -- maybe we'll be able to hear from Chris  
11 Schmandt of MIT. We've got a video of him.

12 And that was -- I don't know if you were here,  
13 but Professor Lansdale, who's -- who is the author of  
14 the MEMOIRS time-based diary, 1989, he was referring to  
15 the work at MIT by Chris Schmandt and Dr. Negroponte and  
16 others, and that was from 1979.

17 Are you familiar with that work?

18 A I am very familiar with that work. I actually  
19 saw it back in the 1970s on a couple of occasions.

20 Q Okay. At MIT?

21 A At MIT, yes.

22 Q All right. And let me -- let me back up a  
23 moment.

24 The red marker over on the right at the  
25 bottom, that invalidity bar, now, that time on the

1 timeline is one year before Dr. --before -- actually,  
2 it was Dr. Freeman at the time -- or Mr. Freeman filed  
3 that original application to the '227, right?

4 A That's correct. That's supposed to be June  
5 28th, 1995 --

6 Q Right.

7 A -- the point of which, if you find something  
8 that essentially does the things that are being claimed,  
9 then that would essentially enable you to invalidate  
10 those claims.

11 Q Okay. And so you're familiar with and have  
12 studied the articles associated with and the patents, to  
13 the extent they apply, of those prior art systems, the  
14 SDMS system from MIT that's listed there in 1979, the  
15 MEMOIRS time-based diary that Professor Lansdale wrote  
16 many articles about and testified about, correct? You  
17 read those?

18 A That's correct.

19 Q Did you also review the deposition testimony  
20 and videotapes of those individuals?

21 A Yes, I did.

22 Q All right. And then Lotus Magellan and On  
23 Location right there in 1989 and 1990, we heard from  
24 Mr. Ed Belove about those two prior art references,  
25 correct?



1           A     That's right.

2           Q     All right. And you studied those two as well?

3           A     I studied the -- the documentation to those.

4           Q     All right. And then the Apple Piles patent

5 right there in 1992, we heard from Ms. Gitta Salomon,

6 right? She came up with that, along with her

7 colleagues --

8           A     Uh-huh.

9           Q     -- while at Apple and attended the CHI

10 Conference and presented there and distributed the

11 videotape, right?

12          A     That's correct.

13          Q     And did you study the materials about that

14 system?

15          A     I studied the materials about that system. I

16 actually have been familiar with the paper associated

17 with that that was presented in CHI '92, since -- at the

18 very latest, the mid-'90s.

19          Q     All right. And then we have this Retrospect

20 Archiving. Can you just briefly describe what that is?

21          A     This is an automatic archiving system that was

22 sold back in the '90s and -- which was used to be able

23 to go and schedule archival backups of the files that

24 were on your computer.

25                 Because, of course, the disks didn't

1 necessarily work properly, and you might come home one  
2 day and discover that your computer wasn't working, and  
3 your valuable files, if they hadn't been backed up,  
4 would be gone.

5           Or for that matter, you might have on your  
6 own, through pure accident, deleted something, and then  
7 you'd like to be able to get it back.

8           So archiving is a very important function, and  
9 it goes back, in fact, well before Retrospect in the  
10 computer world.

11       Q     All right. And then the Workscape 1994, we  
12 saw that when Dr. Lucas actually came and testified.

13       A     Yes.

14       Q     And you've studied that system as well?

15       A     And I have studied videotapes of that system,  
16 and I believe I also have seen demos of that prior to my  
17 involvement with this case.

18       Q     Okay. And you have also studied this Yale  
19 Technical Report 1070 that we've heard about; is that  
20 right?

21       A     Yes, I have.

22       Q     All right. Let me just go through that for a  
23 moment, because we just heard some testimony about that.

24           Are you also familiar with Mr. Gelernter's  
25 secretary, Mr. Chris Hatchell, and his testimony?

1           A     Only from the material that was provided to  
2 me.

3           Q     Okay. And you're familiar with -- well, we'll  
4 move on. I'll get to that in a moment.

5                     MR. RANDALL: Can you pull up Slide 25?

6           Q     (By Mr. Randall) Now, this slide shows the  
7 prior art references, at least among the prior art  
8 references that you studied, regarding chronological  
9 organization of documents; is that right?

10          A     That's correct.

11          Q     All right. And I think the one that we  
12 haven't heard from yet is this Hitachi reference. Can  
13 you briefly describe that?

14          A     Okay. So that is -- I'm not remembering right  
15 now whether it was actually an issued patent or a patent  
16 application that was then published, I think, in 1994  
17 perhaps.

18                     It's a Japanese patent, and so I am familiar  
19 with it through a translation. And it basically  
20 describes an approach in which there is a kind of  
21 prospective timeline that you can see going back towards  
22 the back.

23                     The drawings in this document are -- as you  
24 can probably notice, they're done by hand. They're not  
25 particularly good. But they are supposed to show a

1 timeline with dates on the side, and there is a --

2 little document stacks.

3           You can see the one -- actually, stand it up.

4 You can see one --

5           THE WITNESS: Can we make this a little  
6 bit bigger? It's going to be fuzzy and bad, but easier  
7 to see probably if you make it bigger.

8           A     So we can see one over here. We can see one a  
9 little further back. It looks like the documents are a  
10 little smaller. One a little smaller again. And this  
11 is all done by hand, and so it doesn't look all that  
12 nice.

13           So, basically, here we see a kind of glance  
14 view over here, which can be called up by the user. And  
15 this, basically, is a description of the user interface  
16 that has that kind of flavor.

17           Q     (By Mr. Randall) Okay.

18           MR. RANDALL: Can we go back to the  
19 main -- there we go.

20           Q     (By Mr. Randall) Okay. So each of these  
21 references were, in your view, publicly available prior  
22 to the critical date and show the chronological  
23 organization of documents; is that right?

24           A     That's correct.

25           Q     Okay. And the MEMOIRS time-base diary, were

1 you here for Professor Lansdale's testimony?

2 A Yes, I was, and I've also read the paper that  
3 that image is being taken from.

4 Q Okay. And had access to and reviewed his  
5 entire transcript, right?

6 A Uh-huh.

7 Q Okay.

8 A Yes.

9 MR. RANDALL: Can you pull up 26, please?

10 Q (By Mr. Randall) This slide shows prior art  
11 indexing and searching and sorting of documents by date.

12 Do you see that?

13 A Yes, I do.

14 Q And again, all these references here:

15 MEMOIRS, Lotus Magellan, On -- the MEMOIRS was testified  
16 about by Professor Lansdale; and the Lotus Magellan and  
17 On Location systems were testified about by Ed Belove;  
18 the Piles patent, Gitta Salomon, and her video was  
19 presented; and Mr. Lucas talked about the Workscape  
20 system, correct?

21 A Yes.

22 Q All right. Now, these -- are these -- you  
23 studied all of --

24 A Uh-huh.

25 Q -- these materials as well, right?

1           A     Yes, I did.

2           Q     And did you reach any conclusion regarding  
3 whether or not all of this art was both public and  
4 disclosed portions of the invention in this case?

5           A     Okay. So it was all public, but in the case  
6 of one or more of the asserted patents, these are not  
7 actually disclosed to the Patent Office by the  
8 inventors.

9           Q     Right. So, for instance, there are stars by a  
10 number of these items, correct?

11                   Let me ask you, was the MEMOIRS ever  
12 submitted -- all of those articles submitted to the  
13 Patent Office?

14           A     I know that an earlier article by Lansdale  
15 appears on the face of the patents; but this particular  
16 article, which is on a later version of the system, was  
17 not.

18           Q     Okay. So this -- and you heard Dr. Lansdale  
19 say that one of the earlier references that was  
20 disclosed to the Patent Office was kind of a high-level  
21 idea and concept-based paper and that the more detailed  
22 one is right here; is that right?

23           A     Right. This is the one with the --  
24 limitation.

25           Q     All right. And you read -- you read his

1 testimony about that subject, right?

2 A Yes, I did. And I should mention -- is just a  
3 programming language.

4 Q Okay. So the Patent Office, before they  
5 issued the claims, did not have all of these references,  
6 right?

7 A Yes.

8 Q Okay.

9 MR. RANDALL: Let's go back one slide to  
10 24.

11 Q (By Mr. Randall) These visual displays that  
12 are -- all predate the critical date, and so they're all  
13 before the Lifestream's date that was filed there in  
14 1996, and they're all before the critical date of '95.

15 The -- all of these references were not before  
16 the Patent Office either, right?

17 A That is correct.

18 Q And --

19 A In one or more of the asserted patents.

20 Q Right. Okay.

21 MR. RANDALL: Let's go to Slide 26,  
22 please. I think we just went through that one. Let's  
23 go to 27.

24 Q (By Mr. Randall) Now, this shows the prior  
25 art: Sliding the cursor over a stack to display a

1 glance view without clicking.

2 Do you see that?

3 A Yes, I do.

4 Q So did you study the SDMS system and view the  
5 videotape that's available? And this system was  
6 publicly available in 1979 and 1980; is that right?

7 A It was from the documentation of it that these  
8 pictures are taken from and also from running and being  
9 demoed, although I'm not sure how public the demos were.  
10 But certainly, the description and the paper corresponds  
11 to it.

12 Q Right.

13 A Yeah.

14 Q But it was well publicized prior to 1995,  
15 correct?

16 A This is one very tiny portion of a very  
17 well-publicized system, yes.

18 Q Okay. And that representation that we're  
19 seeing there, you know, shows the system's performance  
20 when -- and by the way, that -- that system back in '79  
21 had a touchscreen, right?

22 A That had a touchscreen. So it had a lot of  
23 very expensive pieces of equipment.

24 Q Right. And so there were glance views.  
25 There, the individual is pointing and touching



1 that screen, and as they touch the screen and run their  
2 finger along the spine of that stack, the glance view is  
3 on the right, which are slides of Boston as they appear,  
4 correct?

5 A And they're appearing on a very, very  
6 expensive display.

7 Q Right. In 1979.

8 A In 1979.

9 Q All right. So a user could slide their finger  
10 along -- along the spine of that stack; and as they did,  
11 the corresponding slide, in this case from Boston, would  
12 appear in a glance view on the right, correct?

13 A That's correct.

14 Q All right. So Apple's Piles patent -- and we  
15 did hear from Ms. Salomon about this, but did you also  
16 see the video that showed the cursor running up and down  
17 the pile, and the glance view popping out and showing a  
18 representative view?

19 A Yes, I did. So this is a more conventional  
20 kind of desktop system, which you're moving the mouse  
21 and the cursor, which I dare not try to point to --  
22 well, I'll try it.

23 The cursor, which you're seeing over here --

24 Q Right.

25 A -- if I can do this successfully, as it moves

1 up and down, you're seeing on the side that the glance  
2 view used -- the language of the patents-in-suit appears  
3 for that particular document in the stack.

4 Q Okay.

5 MR. RANDALL: Let's go to Slide 28.

6 THE WITNESS: And I'm not sure where we  
7 clear it. Oh, does that do it? I'm not sure where the  
8 clear all button is. I'd like to get rid of this over  
9 there. Oh, I see. He's pressing the screen. Okay. So  
10 it's a touchscreen.

11 Q (By Mr. Randall) Okay.

12 A Thank you.

13 Q So did you study the prior art that was  
14 available prior to the critical date and determine that  
15 each and every one of these claim elements was present  
16 in the prior art prior to the critical date and publicly  
17 available?

18 A Yes, I did.

19 Q Okay.

20 MR. RANDALL: Can we go to Slide 29,  
21 please? This is 57.13.

22 Q (By Mr. Randall) This is 57.13. Again, did  
23 you show the key limitations here shown in the color  
24 coordinated colors where the stream limitations occur?

25 Do you see that?

1           A     That's correct.

2                     So we're seeing stream, but we're also seeing  
3 highlighted in yellow substream and mainstream, which  
4 are defined in terms of streams. So if you don't have  
5 stream, you can't have any of those others.

6                     But all it takes is one of these things to be  
7 gone, and that entire claim is not going to be  
8 infringed.

9           Q     All right. But with respect to your  
10 invalidity opinions, did you review each and every  
11 element of each and every asserted claim and determine  
12 that those and each and every element was disclosed  
13 publicly in the prior art before June 28 of '95?

14          A     Yes, I did.

15          Q     Okay. And based on that conclusion, did  
16 you -- did you render your opinion that all of the  
17 asserted claims are invalid?

18          A     Yes, I did.

19                     MR. RANDALL: Let's go to Slide 32.

20          Q     (By Mr. Randall) All right. Now, can you  
21 please describe what is referred to here, with respect  
22 to the Spatial Data Management System at MIT that was a  
23 system that was developed under a government grant by  
24 Mr. Bolt, Donelson, and Schmandt and others, correct?

25          A     Correct.

1 Q And they built their system at MIT, correct?

2 A That's correct.

3 Q And as Mr. Schmandt testified in his

4 deposition, which you reviewed, he and others at MIT

5 allowed corporations to come and visit publicly in order

6 to show them this great technology so that they could

7 perhaps get more grants and do more research, right?

8 A That's right.

9 They had demonstrations as well, and in

10 addition to demonstrations, they also published

11 material. And this is from a glossy published book that

12 was sent out to a number of folks.

13 Q Right. And so there was a -- these -- we've

14 gone through these -- these elements before, the

15 timestamp to identify, the displaying, the glance view

16 in response to sliding the cursor over the stack without

17 clicking, the stream, and the receding stack.

18 Do you see that?

19 A Yes, I do.

20 Q So did you find in this reference and publicly

21 available prior art those elements that run through a

22 number of the asserted claims?

23 A Yes.

24 Q Okay.

25 MR. RANDALL: Can you pull up Slide 33,

1 please?

2 Q (By Mr. Randall) Oh, by the way, the SDMS  
3 system, this well-known system from 1979, was never  
4 considered by the Patent Office with respect to these  
5 patents, right?

6 A That's correct.

7 Q It was never ever provided, right?

8 A That's correct.

9 Q All right.

10 MR. RANDALL: Let's go to MEMOIRS,  
11 Slide 33.

12 Q (By Mr. Randall) Now, key detailed  
13 descriptions of this system also is not disclosed to the  
14 Patent Office, correct?

15 A That's right, because this is a different  
16 paper than the one that was on the face, so...

17 Q All right. And did this system demonstrate a  
18 time-based diary of chronologically structured database  
19 of all documents?

20 A Yes, it did. And in part, you can see a  
21 little bit of that in the timeline across the bottom in  
22 the larger window called time-base.

23 Q All right. And did it disclose a mainstream  
24 and a substream?

25 A Yes, it did.

1 Q And a unique timestamp to identify the  
2 documents?

3 A Yes.

4 Q And did -- as you heard Professor Lansdale  
5 testify, did this have a past, present, and future  
6 portion of these streams?

7 A Yes, because you could have documents in it.  
8 You could also have entries that were essentially  
9 calendar entries for the future.

10 Q Okay. And did it also display glance views as  
11 publicly described in the articles?

12 A Yes. And you see some of them peeking out  
13 from behind the window.

14 Q It says the in tray back there?

15 A Those are documents that are in the in tray,  
16 yes.

17 MR. RANDALL: Can we go to Slide 34,  
18 please?

19 Q (By Mr. Randall) All right. This is the  
20 Hitachi reference you referred to earlier; is that  
21 right?

22 A Yes.

23 Q And this was not before the Patent Office  
24 either, was it?

25 A It was not.

1 Q And does it disclose a timestamp to identify?

2 A Yes.

3 Q And this is a 1992 reference, correct?

4 A '92, but published in '94. I'm not sure how  
5 one, you know, classifies it, but it certainly was  
6 before the 1995 date.

7 Q All right. And did this disclose a  
8 time-ordered stream?

9 A Yes.

10 Q And displaying glance views in response to  
11 sliding the cursor over the stack without clicking?

12 A Yes.

13 Q And that shows right there with the glance  
14 view popping up?

15 A That's right.

16 Q Bottom left-hand corner?

17 A Yes.

18 Q All right. And did it also show a -- the  
19 receding foreshortened stack?

20 A Yes, it did. And I'm actually not remembering  
21 whether the without-clicking part was there, but that  
22 certainly was displaying the glance view in response to  
23 selecting a document.

24 Q Okay.

25 MR. RANDALL: Let's go to Slide 35,

1 please?

2       A     Another thing I should mention -- if you'll  
3 actually go back. I want to be very, very careful about  
4 this, is that that's a hand-drawn picture back there,  
5 and looking at that stack, it's definitely receding; but  
6 the way it's drawn, admittedly by someone who is doing  
7 it by hand and isn't a very good draftsman, is not  
8 actually foreshortened, at least the stack that you're  
9 seeing the blue line pointing to.

10       Q     (By Mr. Randall) Right.

11       A     Certainly bigger than the stack that's behind  
12 it. And one can imagine, if this were actually  
13 implemented in a computer that used 3-D graphics  
14 software to go in and create the imagery, that you  
15 probably would see that being drawn in perspective. But  
16 it is not in this hand-drawing.

17       Q     All right. You would -- you would certainly  
18 check the source code and determine exactly whether that  
19 was --

20       A     If there were source code available.

21       Q     -- whether it was foreshortened or not, right?

22       A     If there were source code available. I can if  
23 there were source code available.

24       Q     Okay. All right. This document, the O'Neil  
25 patent, this wasn't considered by the Patent Office



1 either, was it?

2 A That's correct.

3 Q All right. And did this have timestamps to  
4 identify?

5 A Yes, it did.

6 Q And did it have a time-ordered stream of  
7 future documents where a current -- for instance,  
8 current date is May 2?

9 A Right. And so we're seeing, basically, a set  
10 of documents that represent days with our calendar  
11 entries, and they're arranged in a receding  
12 foreshortened stack, and as well, there are glance  
13 views.

14 I'm trying to remember right now what they  
15 called them in the patent. It wasn't glance view, but  
16 the idea was described in the patent as being sort of a  
17 summary of that particular day in this case giving it  
18 the date.

19 Q Okay.

20 MR. RANDALL: Let's go to Slide 36.

21 Q (By Mr. Randall) So this was the Lotus  
22 Magellan system, and you both reviewed Mr. Belove's  
23 testimony provided in deposition and the manuals that he  
24 provided, correct?

25 A That's correct.

1           Q     And the software was even provided to opposing  
2 counsel.

3                     Did you -- were you here for his demonstration  
4 of that software to the jury?

5           A     I believe I was not here during that.

6           Q     Okay. Did you study this system and reach any  
7 conclusions regarding this system?

8           A     I studied the documentation for this system,  
9 and my conclusions are that the things that are listed  
10 over there are in this system.

11          Q     Okay. And was this -- the Lotus Magellan  
12 system from 1990 to 1995, was that before the Patent  
13 Office?

14          A     No, it was not.

15          Q     Okay. The On Location system was also  
16 displayed by -- and shown to the jury by Mr. Belove, and  
17 he testified that it was publicly available and sold  
18 approximately by 1990 or 1991.

19                     Did you study that system as well?

20          A     Yes, I did.

21                     And I want to clarify a previous answer. I  
22 think I actually was in the room during his time on the  
23 stand, but I was thinking about what I was going to be  
24 saying and trying to remember stuff, and so I wasn't  
25 really paying a lot of attention.

1           Q     Okay.  So does this On Location system have --  
2  show glance views?  
3           A     Yes, it does.  
4           Q     All right.  And does it -- does it have  
5  streams and substreams?  
6           A     It has streams, it has substreams; and in  
7  fact, it was explicit about the idea that the index  
8  would be automatically updated as files were going to be  
9  created and modified, moved, deleted, et cetera.  
10                   MR. RANDALL:  Let's go to the Piles  
11  patent, 724 -- oh, I'm sorry.  Yes, Slide 38.  
12           Q     (By Mr. Randall) Now, do you have an opinion  
13  regarding whether the claims in the '227, Claims 13 and  
14  22; Claims 1, 2, 3, 9, and 11 of the '313; and Claims 1,  
15  8, 16, 18, and 25 of the '427 are invalidated by the  
16  Piles patent in combination with Retrospect?  
17           A     Yes.  And that slide sums up my view, that all  
18  of those claims are invalidated by that combination.  
19           Q     And did you find that Claim 13 of the '227  
20  patent was anticipated by the '724 Mander patent or the  
21  Piles system -- and/or the Piles system?  
22           A     Yes.  
23           Q     Okay.  And found that each and every element  
24  of the Claim 13 of the '227 was disclosed in that  
25  reference?

1           A     That's correct.

2           Q     All right. And with respect to the other  
3 claims listed here, was it your conclusion that they  
4 would have been obvious over the combination of the '724  
5 Mander patent in combination with the Retrospect  
6 Automatic Archiving System?

7           A     That's right. Combining together the patent,  
8 along with Retrospect would render those claims obvious.

9           Q     All right. And in reaching those conclusions,  
10 you analyzed each and every claim element and determined  
11 that each and every claim element was present in the  
12 combination of those two references, correct?

13          A     That's correct.

14          Q     And did you find any motivation to combine  
15 those two references, the Mander patent and the  
16 Retrospect automatic archiving reference?

17          A     Yes. So Retrospect is -- as I think was  
18 mentioned before, it's a commercially available piece of  
19 software, which is specifically designed to provide  
20 backup for Macintosh. It's been highlighted in green,  
21 added after the fact over there.

22                 And the Mander system is running on a  
23 computer, and it's not just running on a computer. It's  
24 a system developed by Apple employees right on top of a,  
25 hardly surprising, Apple computer.

1                   And so I think you can imagine that they  
2 might, in fact, have even been running this, although I  
3 don't know that for a fact, on an Apple computer that  
4 would be running Retrospect. But they certainly -- if  
5 they weren't, they could have.

6           Q       Okay. And so if, for instance -- okay.

7                   MR. RANDALL: Let me go to Slide 39.

8           Q       (By Mr. Randall) So this shows the Apple Files  
9 system along -- and the U.S. Patent '724, correct?

10          A       That's correct.

11          Q       Okay. And this was not considered by the  
12 Patent Office in the asserted patents, right?

13          A       Right. I mean, the picture is actually not  
14 from the patent. The picture is similar to the ones in  
15 the patent, but it's from the video.

16          Q       Okay. And did you study this reference?

17          A       Yes, I did.

18          Q       Okay. And what --

19          A       The references, I guess, in the patents.

20          Q       Yeah.

21          A       And this one also, the --

22                   MR. RANDALL: Can you pull up Slide 40,  
23 please?

24          Q       (By Mr. Randall) And what does this reference?

25                   What does this represent?

1           A     So this is a figure from the '724 patent, and  
2 it's trying to point out that there's two operating  
3 systems present.

4                 Now, the sort of upside down L-shaped thing is  
5 actually pointing out hardware over there, but the  
6 patent makes it very clear that the work being done in  
7 Mander is being on an Apple computer and, therefore,  
8 trying -- the point being made over here is that there's  
9 both the operating system of the Apple computer itself,  
10 as well the, in this case, document stream operating  
11 system that you could consider Mander to be that running  
12 on top of it --

13          Q     Okay.

14          A     -- and making use of the facilities of the  
15 regular Apple operating system.

16          Q     All right. And so under the Court's  
17 definition, that is two operating systems; is that  
18 right?

19          A     That would be two operating systems under the  
20 Court's definition the way that Dr. Levy applied it.

21          Q     Right. Okay.

22                 And that is the same with respect to the  
23 streams in the On Location reference, correct?

24          A     Uh-huh, yes.

25          Q     The stream and mainstream, if you apply

1 Dr. Levy's definition, then that certainly is a stream  
2 and a mainstream, right?

3 A Yes.

4 Q All right.

5 MR. RANDALL: Let's go to 32. I'm sorry.

6 Sorry about that. No. 41.

7 Q (By Mr. Randall) Can you describe what's  
8 referenced here?

9 A Okay. So this is a figure from the Mander  
10 patents Figure 15. It's a flowchart, which is supposed  
11 to describe these sort of box diagrams, what's happening  
12 in part of the code that's part of the method that's  
13 being described.

14 And the idea is that there's a new document  
15 coming in; and if it's new in this case, then it's going  
16 to get indexed. A bunch of things are going to get  
17 done.

18 They're going to count the number of times  
19 that certain words are used in the document, and then  
20 it's telling you that if it's a system initialization,  
21 and all the documents are indexed, then go back up to  
22 the top and index essentially all of the documents.

23 So this is pointing out that any new document  
24 coming in is going to be subjected to this process; and,  
25 therefore, represented within what, in this case, would

1 be the mainstream of the Mander patent.

2 And the bottom part is describing the notion  
3 of what would be called in the language of the Mirror  
4 Worlds' patents the substream that contains data units  
5 only from the mainstream.

6 And so here the question is whether the new  
7 document is part of a pile; and if the answer is yes,  
8 then essentially the vector for this pile, which is a  
9 collection of documents, ends up being computed.

10 Q Okay.

11 MR. RANDALL: Let's go to Slide 46,  
12 please.

13 Q (By Mr. Randall) All right. You have studied  
14 the Workscape system, correct?

15 A Yes, I have.

16 Q We talked about that during your examination,  
17 and you studied all of the material and looked at the  
18 video and listened to the testimony of Mr. Lucas and  
19 reviewed his transcripts, right?

20 A Uh-huh, yes.

21 Q And have you formed any opinions regarding  
22 whether the Workscape system invalidates the claims that  
23 are asserted in this case?

24 A Yes, I have.

25 Q And what is your opinion?



1           A     Okay. Now, I'm trying to remember. I think  
2     that the ones that involve sliding without clicking --  
3     I'm trying to remember if that actually --  
4                     MR. RANDALL: Let me pull up Slide LX1  
5     for you. LX1.  
6           Q     (By Mr. Randall) All right. So with respect  
7     to the Workscape system that you studied --  
8           A     Yes.  
9           Q     -- did you -- I'm just showing -- directing  
10    your attention back here indicating that the sliding  
11    without clicking is required by all of the claims of the  
12    '427 and '313, except for 9 and 11.  
13                     Do you see that?  
14          A     Yes.  
15          Q     Okay.  
16                     MR. RANDALL: Now, let's go back to --  
17          A     And the results that point to that -- yeah.  
18                     MR. RANDALL: Okay. Let's go back to 46.  
19                     All right. And let's go to 47.  
20          Q     (By Mr. Randall) All right. So let's go  
21    through this.  
22                     The MAYA Workscape project, do you see that?  
23          A     Yes, I do.  
24          Q     That shows documents in a receding  
25    foreshortened stack; is that right?

1           A     That's correct.

2           Q     And has also disclosed the stream?

3           A     Yes.

4           Q     And the timestamp to identify?

5           A     Yes.

6           Q     And archiving?

7           A     Yes.

8           Q     Okay.

9                     MR. RANDALL:  Let's go to 48.

10          Q     (By Mr. Randall) This is his patent, correct?

11          A     This is the Lucas and Senn patent.

12          Q     Okay.

13          A     '330.

14          Q     And does that corkscrew show a receding

15 foreshortened stack?

16          A     Yeah.  The corkscrew does, yes.

17          Q     All right.  And what about the other one?

18                    What about Figure 3?

19          A     Figure 3, we could also argue, would be -- and

20 here it gets tricky, depending upon -- if you're using,

21 for example, Dr. Levy's suggestion that one could have

22 multiple stacks that were receding and yet would be part

23 of a single receding foreshortened stack.

24                    You could say the whole thing was, and you

25 could also say that the thing at the top or the thing at

1 the bottom of Figure 3 was a receding foreshortened  
2 stack.

3 Q Okay.

4 MR. RANDALL: Let's go to the next slide.

5 Q (By Mr. Randall) Now, there was an issue with  
6 respect to the inventor's prior publications, correct?

7 A That's correct.

8 Q All right. And one of the issues was whether  
9 or not that information was public or not, correct?

10 A That's my understanding.

11 Q All right. So with respect to TR-1070, are  
12 you --

13 MR. RANDALL: Can you pull up DX642,  
14 please?

15 Q (By Mr. Randall) All right. So this is a fax  
16 from Yale, from Chris Hatchell to Richard Milner, who  
17 was the attorney handling the prosecution of the Mirror  
18 Worlds' patents, and it's dated the 26th, '98.

19 MR. RANDALL: Can you go to the next page  
20 and just flip through these pages? Flip another one.  
21 And another one. There we go.

22 Okay. Can you blow that up?

23 Q (By Mr. Randall) So this shows his handwritten  
24 notation in that black binder, if you recall. Chris  
25 Hatchell, Mr. Gelernter's secretary, would receive the

1 TR-1070 document from one of the authors, go down in the  
2 basement, pull out the black binder, and handwrite in  
3 the index, the information, author, Research Report  
4 1070, and put it there.

5 Do you see it?

6 A Uh-huh. Yes, I do.

7 Q Okay. And that was faxed by Mr. Hatchell to  
8 the attorney in '98.

9 MR. RANDALL: Can we go to the next page?

10 Go one more. Now, can you blow up the  
11 top up there?

12 Q (By Mr. Randall) And do you recall his  
13 testimony about what he would do? He would take that  
14 over to the copy center, and I think you saw the Science  
15 Park Business Services.

16 A Right.

17 Q And he would -- and there's his name, Chris  
18 Hatchell, and the date is April 18, '95. And the  
19 description of work to be done is -- I think it's 13  
20 originals and 10 copies of Lifestreams, and that was on  
21 the 18th -- April 18, '95.

22 Do you see that?

23 A Yes, I do.

24 Q All right. So that's a request by  
25 Mr. Hatchell to get copies made of this technical

1 article just as he said his normal practice was.

2 Do you recall that from his testimony?

3 A Yes, I do.

4 Q All right.

5 MR. RANDALL: Now let's go to -- and

6 again, this is DX642. Let's go to the next page.

7 Q (By Mr. Randall) Now, this is dated a few  
8 weeks later. This is May 15, '95. And again, it's  
9 Chris Hatchell. And this time he says 13 originals and  
10 10 copies of the Lifestreams report.

11 And so approximately three weeks or a month  
12 later, Mr. Hatchell is getting another 10 copies of this  
13 technical report.

14 Do you see that?

15 A Yes, I do.

16 Q Does that indicate to you that he, obviously,  
17 must have run out of those first set of copies that he  
18 had and needed to go back and get another set?

19 MR. STEIN: Objection. That's just  
20 asking the witness to speculate.

21 THE COURT: Sustained.

22 Q (By Mr. Randall) All right. Did you draw any  
23 conclusions, with respect to the public nature of  
24 TR-1070, from the -- Chris Hatchell's policies and  
25 procedures and practices regarding making copies of

1 these TR reports?

2 Did you study that or at least focus on that  
3 testimony at all with respect to his copying of these TR  
4 reports?

5 MR. STEIN: Objection. It's the same  
6 issue. And, you know, he's not an expert.

7 MR. RANDALL: I'll rephrase the question.

8 MR. STEIN: He's not here to testify on  
9 that.

10 MR. RANDALL: I'll rephrase it.

11 THE COURT: All right. Restate your  
12 question.

13 A I'm familiar with technical reports from  
14 Computer Science Departments.

15 Q (By Mr. Randall) All right. Did you know that  
16 Mr. Chris Hatchell first went and made 10 copies of  
17 TR-1070 and then went and made another 10 copies of  
18 TR-1070?

19 A As evidenced by these, yes.

20 Q Right. Okay.

21 And do you also know, through the testimony  
22 that was provided, that Ms. Nancy Silver, who was a  
23 student at the University of Toronto, had a copy of  
24 TR-1070, and she had that before June of '95?

25 MR. STEIN: Objection. I don't think --

1 the testimony presented in court did not establish that.

2 THE COURT: Overruled. The jury will  
3 recall the testimony.

4 Q (By Mr. Randall) Do you understand that  
5 Ms. Silver testified -- and it was played in court --  
6 that she went through some family issues, her father  
7 died, and she was doing a Ph.D. dissertation and that  
8 she did all of her research before her to-do list, and  
9 her to-do list started in June of '95 and that she  
10 testified that she was sure she had all of her research  
11 materials, including a copy of TR-1070, before that  
12 date?

13 A I believe she said it was a master's thesis.

14 Q Okay.

15 A But, yes, I understand the rest of it.

16 Q All right. And you also heard the testimony  
17 of her professor, Mr. Baecker, saying that he also knows  
18 that he had a copy of that report and saw it at least at  
19 some point in 1995?

20 A Yes, I heard Dr. Baecker say that.

21 Q Okay. And you also have experience with  
22 technical reports; is that right?

23 A Yes, I do.

24 Q Right. And so can you draw any conclusions  
25 about whether or not you believe that it was likely that

1 the Technical Report 1070 was public --

2 MR. RANDALL: Oh, strike that.

3 Q (By Mr. Randall) Were you also here during  
4 Gelernter's testimony about the fact that he had  
5 provided that article for publication?

6 A I'm trying to remember if I was. I know I was  
7 here the first day, and I don't remember whether he  
8 testified again on another day.

9 Q Okay. All right. Is that -- all of that  
10 evidence that the document was publicly available, the  
11 fact that Dr. Gelernter listed it under a publication  
12 when he submitted the final report to the Air Force for  
13 its final --

14 A I'm now remembering that. Yes, I remember  
15 that.

16 Q Okay.

17 A And certainly --

18 Q Go ahead.

19 A Certainly remembering that, having been here  
20 when he said that, having seen the documents that listed  
21 that, or at least a representation of the documents that  
22 listed that, knowing what I know about why people put  
23 things in technical report series and how departments  
24 and universities treat technical report series, these  
25 are all pointing very clearly at the fact that this was



1 a technical report that was made public.

2 Q And did you also rely on and utilize, in  
3 forming that view, that Chris Hatchell said that he  
4 never had to ask anybody for authority to distribute  
5 copies of those technical reports?

6 A I relied on that, but I -- it seemed like I  
7 didn't need to rely on that, because it would be very  
8 surprising if a technical report series wasn't public,  
9 because the whole point of the technical report series  
10 is to provide access prior to -- sometimes prior to, and  
11 in other cases, even after publication in other  
12 mechanisms to enable the work that you're doing as a  
13 researcher to be distributed to other folks, in some  
14 cases, people even treated as a way of sort of planting  
15 a flag, and before it gets published in a conference --  
16 or in a journal, being able to say: Look, I did this  
17 work. And so I'm making it available, and I hope that  
18 other people who are doing work that could build on it  
19 will reference it.

20 Q Okay. In forming your opinions regarding this  
21 case, did you -- I want to talk specifically about '227,  
22 Claim 13. Did you reach the opinion that that claim was  
23 anticipated by the Mander patent?

24 A Yes, I did.

25 Q And did you reach the opinion that that claim

1 was also anticipated and rendered obvious by the Lotus  
2 Magellan system?

3 A Yes.

4 Q And did you also reach the opinion that that  
5 claim was anticipated by and rendered obvious by the  
6 Lucas patent?

7 A Yes.

8 Q With respect to the '227, Claim 22, did you  
9 reach the conclusion that Lotus Magellan anticipated  
10 and/or rendered that obvious?

11 A Yes.

12 Q And, therefore, invalidated it?

13 A Yes.

14 Q Did you reach the opinion that the Mander  
15 patent rendered obvious and, therefore, invalid the  
16 '313, Claims 1, 2, 3, 9, and 11?

17 A Yes.

18 Q And did you also find and reach the conclusion  
19 that that Mander patent, the '724 Mander patent,  
20 rendered the '427, Claims 1, 8, 16, 18, and 25, obvious  
21 as well?

22 A Yes.

23 Q With respect to Lotus Magellan, did you reach  
24 the conclusion that the claim '227 -- I'm sorry -- the  
25 '227 patent, Claims 3 -- 13 and 22 were anticipated by

1 and rendered obvious by Lotus Magellan?

2 A Yes.

3 Q Okay. With respect to the Lucas patent  
4 regarding Workscape, did you determine that that  
5 reference invalidated, based on obviousness, the  
6 asserted claims in this case?

7 A You mean the Lucas Workscape-related  
8 patents --

9 Q Yes.

10 A -- and the Workscape materials?

11 Q Yes.

12 A Yes.

13 Q Okay. With respect to Retrospect, did you  
14 find that -- excuse me.

15 Did you utilize Retrospect and that reference  
16 to combine it with the other references I've cited to  
17 invalidate the patent claims asserted that require the  
18 automatic archiving?

19 A Archiving, right. Yes.

20 Q Okay.

21 MR. RANDALL: Your Honor, I have no  
22 further questions.

23 THE COURT: All right. I think we're  
24 going to take about a 10-, 15-minute break right now,  
25 and I'll let the jury know we've got about an hour and a

1 half more of testimony; and we'll be completed, so we're  
2 probably going to go till 5:30 to 6:00, somewhere in  
3 there tonight.

4 So enjoy your break, and then we'll come  
5 back, and we'll finish up the testimony. The jury is  
6 excused.

7 COURT SECURITY OFFICER: All rise for the  
8 jury.

9 (Jury out.)

10 THE COURT: Please be seated.

11 All right. For the parties' information,  
12 the Plaintiffs have 1 hour and 5 -- 4 minutes left, and  
13 the Defendants have 30 -- about 32 and a half, 33  
14 minutes left of time.

15 My staff is going to pass out to you the  
16 Court's charge for your review. The Court will hear  
17 objections to it immediately following the testimony  
18 today, and then we can go straight into charging and  
19 closing arguments in the morning.

20 We'll be in recess.

21 COURT SECURITY OFFICER: All rise.

22 (Recess.)

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/s/ \_\_\_\_\_ Date \_\_\_\_\_  
SHEA SLOAN, CSR  
Official Court Reporter  
State of Texas No.: 3081  
Expiration Date: 12/31/10

/s/\_\_\_\_\_  
JUDITH WERLINGER, CSR Date  
Deputy Official Court Reporter  
State of Texas No.: 731  
Expiration Date 12/31/10