Exhibit 3

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1	STEPHEN FEINER	
2	IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF TEXAS	
3	TYLER DIVISION	
4	MIDDOD WODIDG IIG	
5	MIRROR WORLDS, LLC,	
6	Plaintiff,	
7	vs. No. 6:08 CV 88	
	APPLE, INC.,	
8	Defendant.	
9	X	
10		
11	**CONTAINS CONFIDENTIAL PORTION**	
12	DEPOSITION OF STEPHEN FEINER	
13	New York, New York	
14	Thursday, January 7, 2010	
15		
16	REPORTED BY: BARBARA R. ZELTMAN	
17	Professional Stenographic Reporter	
18	Job Number: 27001	
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2 developed. They include issues of trying to
3 incorporate them in a clear and consistent
4 way within the user interface, if we're
5 talking about a user interface facility or a
6 facility that has some kind of user
7 interface.

8 One reason would be that there 9 might be issues that would need to be 10 very carefully resolved to create an 11 extension that would not break things 12 that people were already familiar with.

13 So recalling the Mander paper, 14 for example, there's a number of issues 15 that are mentioned. I think I actually 16 discuss some of those in this document 17 here, which are ways about how one 18 manipulates a pile.

Looking at Page 16, Bates
number Feiner 203, I have some issues
here, such as whether piles are
distinctly manipulatable entities,
whether you can move a pile by clicking
and dragging, or whether you move the
document by clicking and dragging.

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2	and time that uniquely identifies each
3	document."
4	And in my description of
5	possible ways later on that one might
б	implement a timestamp that uniquely
7	identifies a document, I mentioned the
8	use of additional data in the form, for
9	example, of a counter, let's say, that
10	could be used to be sure that something
11	received a unique timestamp even if it
12	was being created at the exact same time
13	and the exact same date as something
14	else.
15	Q So is it your opinion that a
16	timestamp does not need to be a unique date
17	and time value?
18	MR. BROWN: Objection.
19	A In the context of the patent?
20	Q Yes.
21	A I think that a timestamp, in the
22	context of the patent, needs to, in some way,
23	be unique for each document, so that one
24	could not have two different documents that
25	received the same timestamp.

1 STEPHEN FEINER 2 One way to create a timestamp would be that either you make sure you 3 could not somehow make two things or 4 receive two things at the same time, in 5 which case you should also make sure 6 7 that a person having set the time into the future couldn't set it to the exact 8 9 same time again. And you could do that -- you 10 11 know, I opined about this a little bit 12 later on in my report, on various ways 13 you could do things of that sort. But I think that you could 14 15 create a timestamp which, taking the date and time and adding additional 16 information, would make that timestamp 17 unique. 18 19 So when you stated in your report 0 20 that, "A timestamp is a date and time" -strike that. 21 22 When you stated in your report that, "A timestamp is a date and time 23 24 value that uniquely identifies each 25 document," you were including the

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1	STEPHEN FEINER		
2	possibility of additional information		
3	beyond the date and time?		
4	A I was including the possibility of		
5	additional information beyond the date and		
6	time, and so I'm qualifying value with date		
7	and time. Because clearly, the timestamp		
8	needs to actually indicate time and date		
9	somehow.		
10	But to make it unique, you		
11	would either have to ensure that you're		
12	never allowed to use that date and time		
13	again once you've used it, which it		
14	seems to me		
15	For example, if I time tripped		
16	into the future and I set the date and		
17	time to a particular date and time, and		
18	then I went back in the past, or if I		
19	time tripped into the future and set the		
20	date and time to a particular date and		
21	time and then set it again to the same		
22	date and time, and I created one thing		
23	after setting it the first time and		
24	created a second document after setting		
25	it the second time, and the system then		

1 STEPHEN FEINER 2 something like this from the standpoint of how it would be implemented, and that 3 there are a number of subtleties, which 4 5 I think I discussed in my report. 6 And as well, I of course wasn't 7 being exhaustive in describing some ways in which this could be done. 8 In the example that we discussed 9 0 earlier in which you described how a user 10 11 would locate a particular document created 12 two weeks ago, does the user have to know the 13 timestamp assigned to that document in order to locate the document? 14 15 Α The user in that specific example? 16 0 Yes. 17 Α The user needs to know what specific example -- we're talking about a time-based 18 19 search. And I don't think the user needs to 20 know exact bits in the timestamp. I don't 21 see anything indicating that they would need 22 to know that. 23 I think in that case, they need 24 to know the time at which the document 25 was created.

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2	And as I said, you could
3	imagine an example in which, because
4	there weren't a lot of documents created
5	over that time, if there were like, say,
6	only one document, for whatever reason,
7	created during that period of time,
8	they'd simply need to know both the
9	upper and lower bound on the time
10	period, and then maybe they would find
11	that single document.
12	If they found multiple ones,
13	then maybe they would position their
14	cursor over the objects that they saw on
15	the screen to be able to gain more
16	information about it and figure out
17	which one it was.
18	Q Moving to Section D, labeled
19	Archiving, or titled Archiving, do you
20	consider yourself an expert in archiving?
21	A I'm not sure what you mean by
22	"expert."
23	Q You've been retained as an expert in
24	connection with this case by Apple, correct?
25	A That is correct.

1 STEPHEN FEINER So the devil is in the details 2 of exactly how you set U. Because 3 4 there's ways to set it that one might at 5 first think would work that are not going to work in the context of this 6 7 kind of system, in which the user can 8 dial to the future, for example. 9 Ο How many different ways of creating a unique timestamp did you describe here? 10 Let's see. 11 Α I described one in which --12 well, I described one of a number of 13 methods -- rather, I described several 14 methods, one of which -- or rather, all 15 the ones I described used two values, a 16 system clock and a separate value of U 17 that ensures uniqueness at the very high 18 19 level described in terms of that second 20 sentence in this paragraph, which is the 21 first full paragraph on Page 11. Again, at a very high level, I 22 23 mention the idea that any timestamp 24 that's given a value C that's the same 25 as that of at least one other timestamp

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2	needs to be	given a	U that's	different
3	from that.			

4 So one can imagine that if we 5 had two timestamps which had different values of C -- rather, if there was only 6 7 a single timestamp that had a given 8 value C, that you could perhaps, even in 9 perhaps an attempt to try to save space, not have to have a value of U associated 10 11 with it.

12 Maybe you might have to go back 13 and add one later or allow that one 14 without it could also be supplemented by 15 one with it.

I mention an approach in which 16 if you serialized requests so that one 17 place actually knew all the requests 18 19 being made, that you would then know the 20 previous value of U, and you could then 21 just bump it up by one and then reset it 22 to zero whenever you got a new C. That is to say a C that was different from 23 the last C. 24 25 However, you know, this was an

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2 attempt to try to argue from first
3 principles and show how even in that
4 case there's a problem, because this is
5 not a system in which you go only by the
6 regular normal system clock, but it's
7 one in which the user can change the
8 so-called time cursor.

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9 And because you can change the time cursor, I can explicitly set the 10 11 times -- I mean we don't normally do that -- and I could set the time cursor 12 13 to be a particular date in the future. And then I could go back again and set 14 it to be the same date in the future and 15 make another document. 16

Or I could, after having made 17 that document in the future, go back in 18 the past. And then when that future 19 20 time came around and it created a new 21 document, I couldn't just do what I 22 described before, which is now that C is changed, I'm going to start again at 23 24 zero because I might have something that 25 had U at zero already created.

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2	So I was describing that one	
3	way that you can do that is to look to	
4	see what values of U there are.	
5	Another way you could do it is	
6	to perhaps have U be incremented every	
7	time starting with zero, for example.	
8	In that case, U might get to be bigger	
9	and bigger and bigger.	
10	In fact, U might always be	
11	unique, and there may never be recycled	
12	values of U. But in that case, you	
13	would need more bits, probably, for U.	
14	So I think I have one approach	
15	in which you set U to zero whenever a	
16	timestamp is created where C is	
17	different from the last request. I	
18	describe how that one doesn't work.	
19	I corrected it by saying one	
20	approach would be when you're creating a	
21	new timestamp, you could look at all	
22	those timestamps that are associated	
23	with files that have the same C and make	
24	sure you use a U that's different.	
25	Or another alternative is you	

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2	could, at the very beginning of time, so
3	to speak, initialize U to zero and then
4	just increment it with every single
5	timestamp. That probably would make you
6	have to have more bits associated with
7	it independent of the value of C.
8	Q So those second two approaches would
9	work to create a unique timestamp, correct?
10	A Those approaches would work.
11	Now, since I had not actually
12	implemented streams and I had not
13	actually implemented the software in the
14	system, one of the things that we
15	usually do in computer science is for
16	people who are experimentalists, who are
17	writing for conferences, for example, in
18	which we have to actually we're
19	talking about software.
20	Very rarely, except
21	publications that are on so-called paper
22	prototypes, ones in which a person waves
23	their hands and says, "I could do this,"
24	or, "I could do that," precisely because
25	it's very easy, when you wave your hands

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2	want to see a description of how to do
3	this at least one way in the patent, and
4	I don't see it there.
5	Q Just looking at the second idea or
6	the second method that I believe you
7	testified would work, which is that you
8	initialize U to zero and increment it with
9	the creation of each timestamp, which would
10	result in a unique value of U, how long did
11	it take you to come up with that idea?
12	A I don't remember.
13	Q Is that a fairly straightforward
14	solution?
15	A It depends what you mean by
16	"straightforward."
17	I think a person of ordinary
18	skill in the art would be able to come
19	up with that solution.
20	Q What about the second method, in
21	which you determine the values of U for each
22	C to ensure that the U is unique for each C?
23	A I think a person of ordinary skill
24	in the art would be able to come up with
25	that. I don't think a person of ordinary

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2	skill in the art would look at that
3	description and say, "Wow, that's incredibly
4	inventive and novel, and I can't imagine
5	anyone having thought about that without
6	having incredible skill."
7	I'm not sure that I would
8	imagine a person who was not of ordinary
9	skill in the art would necessarily be
10	able to come up with these.
11	And as I said, you know,
12	there's tradeoffs. For each of those, I
13	suggested what some of those tradeoffs
14	may be in terms of the amount of time it
15	takes to determine which values have
16	already been used, which would even
17	include issues of what happens if I
18	delete a document, if I really delete a
19	document as in the standard method of
20	deletion of documents we have right now?
21	Do we not have holes, for
22	example, in that sequence, the U
23	sequence? Possibly.
24	Does it get reassigned? I
25	don't know.

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	2	kind of document.	
	3	There may be some kind of other	
	4	information, perhaps a link list of some	
	5	sort, which is used in conjunction with	
	6	the things that elements of that link	
	7	list point to, which could ultimately be	
	8	the documents that are part of that main	
	9	stream.	
	10	Q Do you know how to generate an	
	11	instance of a data structure in software?	
	12	A There is more than one way to	
	13	generate an instance of a data structure in	
	14	software.	
	15	Q Can you name one?	
	16	A Sure.	
	17	One way to generate an instance	
	18	of a data structure in software is to	
	19	have some prototype of that data	
	20	structure that, you know, would tell the	
	21	computer how much space needs to be	
	22	allocated and then make a call to some	
	23	facility that generates that amount of	
	24	space and returns the address of that	
	25	space so I can then set a pointer to	
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2	of "iconic" that he gives over here,	
3	he's referring to the notion of an	
4	interface that uses icons, referable	
5	icons, to represent things that perhaps	
6	in other interfaces that would not be	
7	considered iconic might be represented	
8	with text, for example, as opposed to	
9	with graphic icons.	
10	Q And what is an icon?	
11	A An icon in this context is a	
12	graphical representation of some entity in	
13	the computer system. And that entity usually	
14	can be viewed and manipulated interactively	
15	by the user of that computer system.	
16	Q How can you tell whether something	
17	is an icon or not?	
18	MR. BROWN: Objection.	
19	A I'm trying to give you as general an	
20	answer as I possibly can.	
21	An icon is usually some kind of	
22	stylized representation of something.	
23	So if I were looking at, for	
24	example, the full page of a document	
25	that I was editing perhaps in a mode	
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