

1 **K. The False Entries in the Daytimer.**

2 65. With respect to the 1989 Daytimer (which also included the last week of
3 1988), Amr Mohsen made the following entries of interest:

4 December 26, 1988:	Drive to S. Lake Tahoe Aly/Take (Eng. Patent Notebook*)
	(N.B.: The "K*" was an overwrite and cross-out, and 7 will be explained below.)
8 March 26, 1989:	Meet Aly (PXX Eng. Notebook)
	(N.B.: The "PXX" was another overwrite, and was 10 illegible.)
11 June 30, 1989:	Fly to Springfield (Take Eng. Notebook)

13 If these entries were genuine, they would indeed tend to corroborate the Mohsens' story. On the face
14 of the Daytimer, however, two points stand out, before ever considering the forensic evidence.

15 66. *First*, out of more than 800 entries (a conservative estimate) in the Daytimer,
16 these three entries are the *only* entries in the entire Daytimer that explain with specificity a reason for
17 any trip or meeting or other entry. They are also three of only five entries in the Daytimer with *any*
18 parenthetical matter. In the other entries, all that Amr Mohsen ever typically wrote down was "staff
19 meeting" or "Paul C" or "Board Meeting" or an address or phone number. These three entries are
20 clearly out of character with the custom and usage otherwise set forth in the Daytimer.⁷

21 67. *Second*, the overwrite and cross-out in the December 1988 entry are
22 significant. The entry reads "Take(Eng. Patent Notebook*)" where the K represents an overwrite
23 and the * represents a cross-out. The Court has examined the original (and invited the parties to do
24 so as well and to comment). Based on the Court's own review, there is a very high probability (and
25 the Court so finds) that the original entry — before the alterations — was "Take(Eng. Patent
26

27 _____
28 ⁷ The Daytimer has approximately 855 entries, which were made in pencil and at least five inks
distinguishable to the casual observer. All three questioned entries uniformly are in black ink even though the
vast majority of the 800-plus other entries are in another color or in pencil.

1 Notebooks)" — *i.e.*, *in the plural*. Of course, in December 1988, there was only supposed to be
2 *one* engineering notebook. These circumstances indicate that Amr Mohsen made the entry later when
3 *both* notebooks existed. After making the parenthetical entry in the plural, however, Amr Mohsen
4 realized the error. Ink having been used, he was forced to make a correcting overwrite and cross-out
5 to change it to the singular. By order dated May 30, 2000, the Court specifically invited Amr Mohsen
6 (and the parties) to clarify this point and Amr Mohsen declined on Fifth-Amendment grounds. The
7 Court finds his silence incriminating and that it confirms the Court's view of the entry.

8 68. *Finally*, the forensic evidence is convincing that these three entries were made
9 with an ink, a Formulabs "926" ink, that was not manufactured until 1994, five years after the
10 supposed entries. Both sides' experts testified that the test used was valid, a so-called
11 "TLC separation image," although the experts disagreed on the conclusions to be drawn from the test.⁸
12 The test image was compared against several thousand library standard TLC separation images. At
13 the hearing, Expert Speckin showed the standard TLC image for the Formulabs "926" ink and the test
14 image. The Court compared them. They looked identical. Expert Speckin testified there was a
15 perfect match and that the ink used was the Formulabs "926" ink. Expert Speckin testified without
16 contradiction that the Formulabs "926" ink was not available until 1994.

17 69. Opposing Expert Lyter's response was unconvincing. At his deposition, he
18 had rejected the Formulabs "926" standard image because, earlier, there had been, he said, an
19 additional spot of gray in the Formulabs "926" standard that was not in the images made from the ink
20 taken from the questioned entries. He had based the gray spot on a supposed review by him of the
21 TLC standards from Expert Speckin's library. But Expert Speckin produced his library standard
22 sample both at trial and at the deposition. *The library sample in question (for Formulabs "926")*
23 *had no spot of gray*. Expert Lyter admitted at his deposition that he could no longer see any spot of
24 gray on the library image in question. At the evidentiary hearing, Expert Lyter said it must have
25 disappeared due to deterioration. That is not credible. The library image was less than two years old

26 _____
27 ⁸ A TLC separation image is an image made on a glass plate, called a TLC plate. The image is made for
28 the purpose of identifying an ink. The questioned ink is dissolved in a vial and then spotted on a TLC plate
(Speckin Tr. 89-90). The plate is then put in a mobile-phase solvent, which separates the dyes in the spots on
the plate (*ibid.*). These separations then can be compared to standard separations of known inks for a match
(*ibid.*).

1 when Experts Speckin and Lyter examined it (Speckin Tr. 390). Expert Lyter examined the image
2 only a couple of months after Expert Speckin (*ibid*). It is not believable that a gray spot would have
3 suddenly vanished in the brief period between Expert Lyter's original observation and his deposition.
4 Accordingly, the Court finds convincing the conclusion by Expert Speckin that the questionable
5 Daytimer entries were made with Formulabs "926" ink, an ink not available until after 1994.

6 70. Using the same type of test, Expert Lyter concluded the ink was a BIC ink. In
7 doing so, however, he did not have Formulabs "926" ink in his library to compare against the
8 questioned entries (Lyter Tr. 334-36). Expert Lyter thus could not have correctly identified the
9 questioned ink as Formulabs "926." Moreover, the Court has examined the TLC plates and finds that
10 whereas the Formulabs "926" sample is identical to the subject samples, the BIC ink is not.⁹

11 71. Expert Lyter also testified that, according to his relative-aging analysis, the
12 questioned entries in the Daytimer were more than a year old (Lyter Tr. 324-25). He tested the
13 entries in late 1999. He first identified the type of ink used in the questioned entries as a particular
14 BIC ink (*id.* at 324). Then, to make a relative-aging comparison point, he made a recent writing
15 sample with the type of ink he had identified by applying a stroke of that ink to an unused portion of
16 the Daytimer (*ibid*). He then compared the extracting rates of the questioned entries with the newly-
17 prepared sample and with the other entries in the Daytimer presumed to be authentic (which he had
18 also identified as being written in the particular BIC ink) (*ibid*). Under his relative-aging test,
19 extraction rates would differ significantly between writing samples that were written recently and
20 writing samples that were five or more years old. His test required that the writing samples be of the
21 same ink. He found consistency between the questioned and unquestioned Daytimer entries, both of
22 which he found differed from his recently-made BIC black writing sample (*id.* at 324-25). He
23 concluded that the entries from the Daytimer were completely dry (at least three-and-a-half to five-
24 years old) because they differed from his recently-made sample, which he knew to be still in the drying

25
26 ⁹ The TLC separation image from the March 26, 1989, and July 4, 1989, entries shows a yellow band
27 beneath a close group of several distinct methyl violet bands. Both Expert Lyter's sample image (Exh. 188) and
28 Expert Speckin's sample image (Exh. 1301) showed this. The separation images for the BIC black ballpoint ink
do not show three closely-grouped methyl violet bands as set forth in the separation images of the questioned
entries from the Daytimer (Exh. 188, lane 13; Exh. 1307). The Formulabs "926" separation image is a match (Exh.
1303, lanes 11 and 12 from right to left).

1 process. The Court rejects Expert Lyter's conclusion based on this test because, as stated above,
2 Expert Lyter misidentified the ink used in the questioned entries as a BIC ink. His comparison
3 between the extraction rates of the questioned entries and the extraction rate of his recently-prepared
4 sample were between two different inks, and therefore could not form a proper basis for his
5 conclusion.

6 **L. The Return of the Notebook: Fragments.**

7 72. More than a year after they were reported stolen, fragments from the
8 notebooks were reportedly returned. On or about January 5, 2000, according to Anr Mohsen, a
9 large priority-mail envelope arrived at his home bearing \$1.98 in postage (Exh. 121). It was hand-
10 addressed to Anr Mohsen at his home in Los Gatos with, as shall be important in a moment, the
11 correct zip code (95030). There was no legible return address on the envelope. The envelope was
12 postmarked in San Jose on January 3, 2000. Anr Mohsen testified that he did not open it until
13 January 20, whereupon he found an anonymous note from "FL" stating (in hand printing): "These
14 were discovered lately in our backyard. These look like important documents for you." Also therein
15 he found, according to his deposition testimony, scraps from the 1988 and 1989 Notebooks, nine
16 from the 1988 Notebook and 23 from the 1989 Notebook (Mohsen Dep. 1029-39; Exh. 121).

17 73. He produced for inspection the envelope and its contents. These are now part
18 of the record (Exh. 121). (The red dust is fingerprint dust.) In some cases, the notebook scraps were
19 most of the page, torn away at the vertical edges. In other cases, the scraps were about a quarter of a
20 page. None of the totally blank pages were inside. None happened to have Anr Mohsen's signature
21 (except one or two had a tiny portion of Anr Mohsen's signature). The witness signature of his
22 brother occurred on six scraps from the 1988 Notebook. At this time, plaintiffs were seeking to use
23 the evidentiary bearing to prove up the foundation for using copies of the notebooks in lieu of the
24 originals at trial, a foundation that required plaintiffs to show that the proponent of the evidence had not
25 lost or destroyed the originals in bad faith (under Rule 1004 of the Federal Rules of Evidence).¹⁰

26
27
28 ¹⁰ Plaintiffs later abandoned all reliance on any form of the notebooks, with the exception of the
Skjarven Copy of the 1989 Notebook.

1 74. The contents contained invoices with Amr Mohsen's address, presumably the
2 basis for "FL" to address the envelope. Significantly, however, those invoices had either the *wrong*
3 zip code, 95032, or no zip code at all. *Nonetheless, "FL" had somehow placed the correct zip*
4 *code on the envelope* (Exh. 121). In this manner, after missing for more than a year, the scraps
5 miraculously re-appeared before the then-scheduled evidentiary hearing.

6 **M. The Forensic Evidence and the 1988 Notebook.**

7 75. Although certain of the techniques used by the forensic experts are not
8 convincing, other tests and conclusions by them are convincing, as follows:

9 (a) *The Overwritten 1998s.*

10 76. Five dates by Amr Mohsen in the 1988 Notebook plainly were overwritten —
11 all in the same basic way: the first eight in 1988 was superimposed over a prior number written by
12 mistake. No expert is needed to see the overwrites nor to tell (in most cases) that the number
13 previously written was either a 9 or a 7. Those dates are July 30, August 7, September 3, July 31 and
14 August 14 (at Pages 2, 4, 6, 14 and 26).

15 77. Expert Speckin was able to go further, lifting the superimposed number to
16 reveal the number originally written. In each case, the original year was 1998 (Exh. 1268(A)).
17 Plaintiffs' Expert Lyter did not contest these findings. The Court finds the methodology and findings
18 by Expert Speckin persuasive on this point. The Court concludes, in light of this and all other
19 evidence, that Amr Mohsen made the entries in 1998, thus accounting for the recurring mistake, and
20 had to overwrite the mistake to make it resemble 1988.

21
22
23

1 74. The contents contained invoices with Amr Mohsen's address, presumably the
2 basis for "FL" to address the envelope. Significantly, however, those invoices had either the *wrong*
3 zip code, 95032, or no zip code at all. *Nonetheless, "FL" had somehow placed the correct zip*
4 *code on the envelope* (Exh. 121). In this manner, after missing for more than a year, the scraps
5 miraculously re-appeared before the then-scheduled evidentiary hearing.

6 **M. The Forensic Evidence and the 1988 Notebook.**

7 75. Although certain of the techniques used by the forensic experts are not
8 convincing, other tests and conclusions by them are convincing, as follows:

9 (a) *The Overwritten 1998s.*

10 76. Five dates by Amr Mohsen in the 1988 Notebook plainly were overwritten —
11 all in the same basic way: the first eight in 1988 was superimposed over a prior number written by
12 mistake. No expert is needed to see the overwrites nor to tell (in most cases) that the number
13 previously written was either a 9 or a 7. Those dates are July 30, August 7, September 3, July 31 and
14 August 14 (at Pages 2, 4, 6, 14 and 26).

15 77. Expert Speckin was able to go further, lifting the superimposed number to
16 reveal the number originally written. In each case, the original year was 1998 (Exh. 1268(A)).
17 Plaintiffs' Expert Lyter did not contest these findings. The Court finds the methodology and findings
18 by Expert Speckin persuasive on this point. The Court concludes, in light of this and all other
19 evidence, that Amr Mohsen made the entries in 1998, thus accounting for the recurring mistake, and
20 had to overwrite the mistake to make it resemble 1988.

21
22
23

1 (b) *1988 Notebook — Ink Identification.*

2 78. Plaintiffs' Expert Lyter found that all of the extant signatures of Aly Mohsen
3 were in the same ink, probably a BIC ink, and even shared a common stray contaminant, indicating
4 that the same pen (or ink batch) had been used. This included six signatures from two dates: August
5 14, 1988, and September 5, 1988. Expert Lyter further found that all of the extant Xs were in a single
6 Uniball ink. He further found that all of the text sampled was in yet another ink, also a BIC ink, save
7 for the sentence on Page 4 beginning "A programmable system . . ." (This latter exception was
8 based on infrared testing and not on ink testing.) The Court accepts all of these findings.

9 (c) *1988 Notebook — Infrared Examination.*

10 79. Infrared examination of questioned documents is used to determine if a
11 questioned document has entries made with different inks. Infrared examination can determine if
12 different inks are present even if they are the same color to the naked eye. Infrared examination of the
13 1988 Notebook Fragments demonstrated that Page 2 was altered by making additions to the
14 notebook in ink different from the rest of the page. The text added to Page 2 was: "Extending the
15 benefits of programmability to the system level will provide similar benefits for system level designs."

16 80. Infrared examination also demonstrated, as already stated, that Page 4 of the
17 1988 Notebook was altered by making additions to the notebook in an ink different from the rest of
18 the page, although both inks appear black (Speckin Tr. 64; Lyter Tr. 348-49). The text added to
19 Page 4 was: "A programmable system such as the one using hierarchical interconnect architecture
20 described last week on 7/31/88" (*ibid.*).

21 81. Infrared examination also demonstrated that Page 7 was altered by making
22 additions to the notebook in an ink different from the rest of the page (Speckin Tr. 66-67). The text
23 added to Page 7 includes the entire figure at the bottom of the page, the text associated with that
24 figure, the legend "Fig. 2(A)," and several other textual additions at the top of Page 7 (*ibid.*). This is
25 particularly significant in connection with the witnessing sequence on Pages 7 and 8 described under
26 the "obverse/reverse" section set forth below.

1 82. Infrared examination showed that Page 22 of the 1988 Notebook was altered
2 by making additions to the notebook in an ink different from the rest of the page. The text added to
3 Page 22 was the X at the bottom of the page.

4 83. Neither Expert Lyter nor plaintiffs offered any evidence to contradict the
5 conclusions Expert Speckin drew from his infrared testing of the questioned 1988 Notebook
6 Fragments. Expert Lyter affirmatively agreed that the sentence on Page 4 was in a different ink from
7 the rest of Page 4 (Lyter Tr. 348-49).

8 (d) *Obverse/Reverse Intersection Examination.*

9 84. An obverse/reverse-intersection-of-lines examination is performed
10 microscopically and can determine which side of a single piece of paper was written first. Writing on
11 side A of a paper creates a convexity on side B. Thereafter, any writing on side B that crosses that
12 convexity will break that convexity. Thus, observation of a broken convexity indicates that the
13 information on side A was written first. On the other hand, an unbroken convexity on side B indicates
14 that side B was written first (assuming the writings cross each other through the paper).

15 85. Page 4 was the backside of Page 3 in the 1988 Notebook (Exh. 121).
16 Examination of the 1988 Notebook Fragments demonstrated that substantially all of Page 4 of the
17 questioned 1988 Notebook, which bore the date of August 7, 1988, was written *prior to* Page 3 of
18 the same notebook, which bore the date of July 31, 1988 (Speckin Tr. 47-50). The sentence
19 beginning "A programmable system . . ." in the middle of Page 4, however, was added to Page 4 *after*
20 Page 3 was written (*ibid.*). Thus, the sequence was: Page 4, then Page 3, then the add-on sentence
21 on Page 4, a sequence inconsistent with the dates the pages bear.

22 86. Examination of the questioned 1988 Notebook Fragments (Exh. 121)
23 demonstrated that Aly Mohsen witnessed Page 8 of the 1988 Notebook *before* the additions
24 referenced above were made to Page 7 of the 1988 Notebook, *i.e.*, the "Figure 2(A)" set forth on the
25 bottom half of Page 7 (Speckin Tr. 58-59). The convexities from Page 7 (the "(A)" in "Figure (2A)")
26 do not break through Aly Mohsen's signature, meaning that Aly Mohsen's signature was already
27 present on Page 8 before the drawing that was added to Page 7 (Speckin Tr. 57-62; Exh. 1258).

28