**IN THE UNITED STATES DISTRICT COURT**
**FOR THE EASTERN DISTRICT OF TEXAS**
**TYLER DIVISION**

| | |
|---|---|
| EOLAS TECHNOLOGIES INCORPORATED,<br><br>Plaintiff,<br><br>v.<br><br>ADOBE SYSTEMS INC., ET AL,<br><br>Defendants. | CASE NO. 6:09-cv-446<br><br>Hon. Leonard E. Davis<br><br>JURY |

**ANSWER AND COUNTERCLAIMS**
**OF DEFENDANT GOOGLE INC. TO PLAINTIFF'S**
**SECOND AMENDED COMPLAINT FOR PATENT INFRINGEMENT**

Defendant Google Inc. ("Google") answers the Second Amended Complaint of Eolas Technologies Incorporated ("Eolas") as follows:

## I. PARTIES

1. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 1, and therefore denies them.

2. The allegations of paragraph 2 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 2, and therefore denies them.

3. The allegations of paragraph 3 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 3, and therefore denies them.

4. The allegations of paragraph 4 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 4, and therefore denies them.

5. The allegations of paragraph 5 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 5, and therefore denies them.

6. The allegations of paragraph 6 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 6, and therefore denies them.

7. The allegations of paragraph 7 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 7, and therefore denies them.

8. The allegations of paragraph 8 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 8, and therefore denies them.

9. The allegations of paragraph 9 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 9, and therefore denies them.

10. The allegations of paragraph 10 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 10, and therefore denies them.

11. Google admits that Google Inc. is a Delaware corporation with a principal place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043. Google admits that it may be served with process through its registered agent Corporation Service Company d/b/a CSC-Lawyers Incorporating Service Company in Austin, Texas. Google denies any remaining allegations of paragraph 11.

12. The allegations of paragraph 12 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 12, and therefore denies them.

13. The allegations of paragraph 13 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 13, and therefore denies them.

14. The allegations of paragraph 14 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 14, and therefore denies them.

15. The allegations of paragraph 15 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 15, and therefore denies them.

16. The allegations of paragraph 16 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 16, and therefore denies them.

17. The allegations of paragraph 17 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 17, and therefore denies them.

18. The allegations of paragraph 18 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 18, and therefore denies them.

19. The allegations of paragraph 19 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 19, and therefore denies them.

20. The allegations of paragraph 20 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 20, and therefore denies them.

21. The allegations of paragraph 21 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 21, and therefore denies them.

22. The allegations of paragraph 22 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 22, and therefore denies them.

23. The allegations of paragraph 23 are not directed to Google, and therefore no answer is required. Google admits that YouTube, LLC is a Delaware corporation with a principal place of business at 1000 Cherry Ave, San Bruno, CA 94066. Google admits that YouTube, LLC may be served with process through its registered agent Corporation Service

Company d/b/a CSC-Lawyers Incorporating Service Company in Austin, Texas. Google denies any remaining allegations of paragraph 23.

## II. JURISDICTION AND VENUE

24. Paragraph 24 of the Complaint does not state any allegations, and therefore Google believes that no response is required. However, Google expressly incorporates the contents of the preceding paragraphs of this Answer and includes them by reference as if fully set forth herein.

25. Google admits that this action invokes the United States patent laws, and that this Court has subject matter jurisdiction over patent law claims. Google denies any remaining allegations of paragraph 25.

26. Google does not contest personal jurisdiction in this District solely for the purpose of this action. Google denies that it has committed acts of infringement within the Eastern District of Texas, or any other District. To the extent the remaining allegations of paragraph 26 are directed at Google, they are denied. To the extent the allegations of paragraph 26 are directed to other entities, Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 26, and therefore denies them.

27. Google admits that venue is proper in the Eastern District of Texas for purposes of this particular action but not convenient or in the interests of justice under 28 U.S.C. 1404(a). To the extent the remaining allegations of paragraph 27 are directed at Google, they are denied. To the extent the allegations of paragraph 27 are directed to other entities, Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 27, and therefore denies them.

## III. ALLEGATION OF PATENT INFRINGEMENT

28. Paragraph 28 of the Complaint does not state any allegations, and therefore Google believes that no response is required. However, Google expressly incorporates the contents of the preceding paragraphs of this Answer and includes them by reference as if fully set forth herein.

29. Google admits that U.S. Patent No. 5,838,906 ("the '906 patent") is entitled "Distributed hypermedia method for automatically invoking external application providing interaction and display of embedded objects within a hypermedia document" and bears an issuance date of November 17, 1998, and also admits that U.S. Patent No. 7,599,985 ("the '985 patent") is entitled "Distributed hypermedia method and system for automatically invoking external application providing interaction and display of embedded objects within a hypermedia document" and bears an issuance date of October 6, 2009 (collectively "the asserted patents"). Google admits that the United States Patent and Trademark Office issued an Ex Parte Reexamination Certificate of the '906 patent on two separate occasions. Google is without knowledge or information sufficient to form a belief as to the truth of the remaining allegations of paragraph 29, and therefore denies them.

30. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 30, and therefore denies them.

31. The allegations of paragraph 31 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 31, and therefore denies them.

32. The allegations of paragraph 32 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 32, and therefore denies them.

33. The allegations of paragraph 33 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 33, and therefore denies them.

34. The allegations of paragraph 34 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 34, and therefore denies them.

35. The allegations of paragraph 35 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 35, and therefore denies them.

36. The allegations of paragraph 36 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 36, and therefore denies them.

37. The allegations of paragraph 37 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 37, and therefore denies them.

38. The allegations of paragraph 38 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 38, and therefore denies them.

39. The allegations of paragraph 39 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 39, and therefore denies them.

40. Denied.

41. The allegations of paragraph 41 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 41, and therefore denies them.

42. The allegations of paragraph 42 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 42, and therefore denies them.

43. The allegations of paragraph 43 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 43, and therefore denies them.

44. The allegations of paragraph 44 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 44, and therefore denies them.

45. The allegations of paragraph 45 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 45, and therefore denies them.

46. The allegations of paragraph 46 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 46, and therefore denies them.

47. The allegations of paragraph 47 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 47, and therefore denies them.

48. The allegations of paragraph 48 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 48, and therefore denies them.

49. The allegations of paragraph 49 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 49, and therefore denies them.

50. The allegations of paragraph 50 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 50, and therefore denies them.

51. The allegations of paragraph 51 are not directed to Google, and therefore no answer is required. Google is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 51, and therefore denies them.

52. The allegations of paragraph 52 are not directed to Google, and therefore no answer is required, otherwise denied.

53. Google denies the allegations in paragraph 53 of the Complaint as they relate to Google. Google does not have sufficient information to admit or deny the remaining allegations of paragraph 53 and, therefore, denies these allegations.

54. Google denies the allegations in paragraph 54 of the Complaint as they relate to Google. Google does not have sufficient information to admit or deny the remaining allegations of paragraph 54 and, therefore, denies these allegations.

55. Google denies the allegations in paragraph 55 of the Complaint as they relate to Google. Google does not have sufficient information to admit or deny the remaining allegations of paragraph 55 and, therefore, denies these allegations.

56. Google denies the allegations in paragraph 56 of the Complaint as they relate to Google. Google does not have sufficient information to admit or deny the remaining allegations of paragraph 56 and, therefore, denies these allegations.

## IV. RESPONSE TO PRAYER FOR RELIEF

These paragraphs set forth the statement of relief requested by Eolas to which no response is required. Google denies that Eolas is entitled to any of the requested relief and denies any allegations.

## V. RESPONSE TO DEMAND FOR JURY TRIAL

Eolas' demand that all issues be determined by a jury trial does not state any allegation, and Google is not required to respond. To the extent that any allegations are included in the demand, Google denies these allegations.

## AFFIRMATIVE AND OTHER DEFENSES

Subject to the responses above, Google alleges and assert the following defenses in response to the allegations, undertaking the burden of proof only as to those defenses deemed affirmative defenses by law, regardless of how such defenses are denominated herein. In addition to the affirmative defenses described below, subject to its responses above, Google specifically reserve all rights to allege additional affirmative defenses that become known through the course of discovery.

**First Defense**

1. Google does not infringe and has not infringed (not directly, contributorily, or by inducement) any claim of the asserted patents.

**Second Defense**

2. The claims of the asserted patents are invalid for failure to satisfy one or more of the requirements of Sections 100 *et seq.*, 101, 102, 103, and 112 of Title 35 of the United States Code.

**Third Defense**

3. The claims of the asserted patents are unenforceable, in whole or in part, by the doctrines of laches, waiver and/or estoppel, including prosecution history estoppel and equitable estoppel.

**Fourth Defense**

4. The claims of the asserted patents are unenforceable due to unclean hands.

**Fifth Defense**

5. Any and all products or actions accused of infringement have substantial uses that do not infringe and do not induce or contribute to the alleged infringement of the asserted claims of the asserted patents.

**Sixth Defense**

6. The owner of the asserted patents has dedicated to the public all methods, apparatus, and products disclosed in the asserted patents, but not literally claimed therein, and is estopped from claiming infringement by any such public domain methods, apparatus, or products.

**Seventh Defense**

7. Eolas' claim for damages, if any, against Google for alleged infringement of the asserted patents are limited by 35 U.S.C. §§ 286, 287 and 288.

**Eighth Defense**

8. Eolas is not entitled to injunctive relief as it, at a minimum, has not suffered any alleged immediate or irreparable injury, and Eolas has an adequate remedy at law.

**Ninth Defense**

9. This case is exceptional against Eolas under 35 U.S.C. § 285.

**Tenth Defense**

10. To the extent that the alleged invention has been used or manufactured by or for the United States, the claims for relief are barred by 28 U.S.C. § 1498.

**Eleventh Defense**

11. Eolas' claim for damages, if any, against Google for alleged infringement of the asserted patents are limited in whole or in part (i) to the extent that any allegedly infringing products or components thereof are supplied, directly or indirectly, by any entity or entities having express or implied licenses to the asserted patents and/or (ii) under the doctrine of patent exhaustion and/or the full compensation rule.

**Twelfth Defense**

12. Eolas' claim for damages, if any, against Google for alleged infringement of the asserted patents are limited in whole or in part due to legal and/or equitable intervening rights under 35 U.S.C. §§ 252 and 307(b).

**Thirteenth Defense**

13. Although Eolas alleges in its Complaint that the asserted patents were duly and legally issued by the United States Patent and Trademark Office after full and fair examination, each and every claim of the asserted patents are unenforceable due to inequitable conduct before the United States Patent and Trademark Office. Google incorporates by reference the allegations contained in Paragraphs 17 to 313 of its Counterclaims.

## COUNTERCLAIMS

In further response to the Complaint by Eolas, Google asserts the following Counterclaims against Eolas:

1. Counterclaimant Google Inc. ("Google") is a Delaware corporation with a principal place of business in 1600 Amphitheatre Parkway, Mountain View, California 94043.

2. On information and belief, Counterclaim-Defendant Eolas Technologies, Inc. ("Eolas") is a Texas corporation with a principal place of business in Evanston, Illinois.

### Jurisdiction and Venue

3. These Counterclaims arise under the patent laws of the United States, 35 U.S.C. § 1 et. seq., and the Declaratory Judgment Act, 28 U.S.C. §§ 2201-02. The Court has subject matter jurisdiction over these Counterclaims pursuant to 28 U.S.C. §§ 1331, 1338, and 2201-02.

4. This Court has personal jurisdiction over Eolas.

5. Venue with respect to Eolas is proper in this district under 28 U.S.C. §§ 1391 (b) and (c) because Eolas is a corporation subject to the personal jurisdiction of this Court.

### COUNT I

### Declaratory Judgment of Noninfringement of U.S. Patent Nos. 5,838,906 and 7,599,985

6. Google incorporates by reference the allegations contained in Paragraphs 1 to 5 of its Counterclaims.

7. An actual controversy exists between the parties with respect to the alleged infringement of U.S. Patent Nos. 5,838,906 and 7,599,985 ("the asserted patents").

8. Although Eolas alleges in its Complaint that Google has directly and/or indirectly infringed the claims of the asserted patents, Google has not directly and/or indirectly infringed, and does not directly and/or indirectly infringe, any claim of the asserted patents.

9. A judicial determination of the respective rights of the parties with respect to the infringement of the claims of the asserted patents is now necessary and appropriate under 28 U.S.C. § 2201.

**COUNT II**

**Declaratory Judgment of Invalidity of U.S. Patent Nos. 5,838,906 and 7,599,985**

10. Google incorporates by reference the allegations contained in Paragraphs 1 to 5 of its Counterclaims.

11. An actual controversy exists between the parties with respect to the invalidity of the asserted patents.

12. Although Eolas alleges in its Complaint that the asserted patents were duly and legally issued by the United States Patent and Trademark Office after full and fair examination, each and every claim of the asserted patents is invalid for failure to comply with the patent laws, including, but not limited to, 35 U.S.C. §§ 101, 102, 103, 112, and 113.

13. A judicial determination of the respective rights of the parties with respect to the infringement of the claims of the asserted patents is now necessary and appropriate under 28 U.S.C. § 2201.

## COUNT III

### Declaratory Judgment of Unenforceability of U.S. Patent No. 5,838,906 and 7,599,985

14. Google incorporates by reference the allegations contained in Paragraphs 1 to 5 of its Counterclaims.

15. An actual controversy exists between the parties with respect to the unenforceability of the asserted patents.

16. Although Eolas alleges in its Complaint that the asserted patents were duly and legally issued by the United States Patent and Trademark Office after full and fair examination, each and every claim of the asserted patents is unenforceable due to inequitable conduct before the United States Patent and Trademark Office.

### A. OVERVIEW

#### A-1. Doyle had a duty of candor and good faith in dealing with the Patent Office

17. Michael D. Doyle ("Doyle") is one of the named inventors of the patents-in-suit, U.S. Patent Nos. 5,838,906 and 7,599,985.

18. Charles E. Krueger ("Krueger") was the patent prosecutor for the patents-in-suit, U.S. Patent Nos. 5,838,906 and 7,599,985.

19. Doyle, as the named inventor, and Krueger, as the patent prosecutor, each had a duty of candor and good faith in dealing with the United States Patent and Trademark Office ("the Patent Office") during prosecution of the '906 and '985 patents.

20. Krueger's and Doyle's duty of candor and good faith also existed during the reexaminations of the '906 patent.

21. The duty of candor and good faith owed by Krueger and Doyle included a duty to disclose to the Patent Office all information known to that individual to be material to patentability as defined in 37 C.F.R. § 1.56.

**A-2. Doyle had a financial incentive to deceive the Patent Office**

22. On information and belief, Doyle had a financial incentive to deceive the Patent Office during prosecution of the ’906 patent, during the reexaminations of the ’906 patent, and during the prosecution of the ’985 patent.

23. On information and belief, Doyle worked at the University of California, San Francisco when he allegedly conceived of the inventions claimed in the ’906 and ’985 patents.

24. On information and belief, the ’906 and ’985 patents are owned by The Regents of the University of California.

25. On information and belief, Doyle and his co-inventors are entitled to receive a portion of any royalties paid to The Regents of the University of California related to the ’906 and/or ’985 patents.

26. On information and belief, Doyle is a founder of the plaintiff in this action, Eolas.

27. On information and belief, Doyle quit his job to found Eolas, and personally invested time and money in Eolas.

28. On information and belief, Doyle has had a financial interest in Eolas since at least August 21, 1995.

29. On information and belief, on or about August 21, 1995, Eolas acquired rights to the patent application that matured into the ’906 patent.

30. On information and belief, Doyle was personally involved in the prosecution of the ’906 patent, the reexaminations of the ’906 patent, and the prosecution of the ’985 patent at

the same time that he had a financial interest in Eolas and a financial interest in any royalties on the ’906 and/or ’985 patents paid to The Regents of the University of California.

**A-3. Doyle breached his duty of candor and good faith with an intent to deceive the Patent Office**

31. As explained in more detail below, on information and belief, Krueger and Doyle breached the duty of candor and good faith in dealing with the Patent Office. On information and belief, Krueger and Doyle failed to disclose material information and made affirmative misrepresentations of material facts. On information and belief, Krueger and Doyle did so with knowledge of the information withheld, with knowledge of the falsity of the misrepresentations, and with the specific intent to deceive the Patent Office. The circumstances of Krueger’s and Doyle’s actions confirm an intent to deceive the Patent Office.

**B. DOYLE FAILED TO DISCLOSE MATERIAL INFORMATION RELATED TO THE VIOLAWWW BROWSER**

32. As explained in more detail below, on information and belief, Krueger and Doyle breached the duty of candor and good faith in dealing with the Patent Office by failing to disclose material information related to the ViolaWWW browser. On information and belief, Krueger and Doyle did so with knowledge of the information they withheld and with the specific intent to deceive the Patent Office. The circumstances of Krueger’s and Doyle’s actions confirm an intent to deceive the Patent Office.

33. As explained in more detail below, on information and belief, the ViolaWWW browser was material to the patentability of all the claims of the ’906 patent because it disclosed limitations that the Patent Office believed were missing in the prior art, including interactivity *embedded within* the webpage (as opposed to a separate window), *automatic* invocation of the interactivity (as opposed to requiring a mouse click to enable the interactivity), and use of a

separate executable application (as opposed to a script). On information and belief, Krueger and Doyle knew that the ViolaWWW browser disclosed these limitations, yet they withheld this information from the Patent Office at the same time that they argued to the Patent Office that these limitations were missing from the prior art.

**B-1. Doyle knew about the ViolaWWW browser before the application for his '906 patent was filed on October 17, 1994**

34. The application for the '906 patent was filed on October 17, 1994.

35. Thus the critical date for purposes of 35 U.S.C. § 102(b) was October 17, 1993. Any printed publication describing the claimed invention, or any public use of the claimed invention in the United States, before October 17, 1993, would be an absolute bar to patentability.

36. On information and belief, Doyle knew before the application for the '906 patent was filed that an individual in Northern California named Pei Wei had developed a browser called "ViolaWWW" before the critical date of October 17, 1993.

37. On information and belief, on May 20, 1994, David Raggett sent an e-mail to Doyle regarding object level embedding in web browsers. In this email, Raggett advised Doyle that he "might want to look at Viola which [Raggett] seem[s] to remember takes advantage of the tk tool kit to provide a certain level of embedding."

38. On information and belief, Raggett further advised Doyle that he could "find a pointer to Viola off the CERN WWW project page."

39. On information and belief, later on the same day, May 20, 1994, David Martin, who was one of Doyle's colleagues at the University of California in San Francisco and who was also named as an inventor on the '906 patent, responded to a posting from Pei Wei on a publicly-

accessible e-mail distribution list. On information and belief, Pei Wei's post had included the following statements:

> "In order to do better testings and support of ViolaWWW, I would like to solicit donations for guest accounts on the major Unix platforms. . . . So, if your organization has some CPU crunchies to spare, good network connectivity, don't have a firewall, want to help viola development, etc, please drop me a note. Based mostly on network connectivity, I'll select one (maybe two) offer(s) for each different platform." On information and belief, David Martin's response to Pei Wei included the following statements: "I am willing to discuss providing accounts on SGI IRIX 5.x, Solaris 2.x, Alpha OSF/1. Please let me know what you require in terms of disk space, compiler, utilities, etc..."

40. On information and belief, by May 20, 1994 — several months before the application for the '906 patent was filed — Doyle knew about Pei Wei's ViolaWWW browser.

41. On information and belief, Doyle did not disclose this information to Krueger or Charles J. Kulas ("Kulas"), the patent prosecutor that filed the '906 patent application, prior to the filing of the application that lead to the '906 patent.

42. On information and belief, Doyle learned even more about the ViolaWWW browser before the application for the '906 patent was filed.

43. On information and belief, on August 30, 1994, at approximately 11:15 p.m. California time, Doyle posted a "Press Release" to the publicly-accessible VRML e-mail distribution list that included the following statements:

> Researchers at the U. of California have created software for embedding interactive program objects within hypermedia documents. Previously, object linking and embedding (OLE) has been employed on single machines or local area networks using MS Windows -TM-. This UC software is the first instance where program objects have been embedded in documents over an open and distributed hypermedia environment such as the World Wide Web on the Internet.

44. On information and belief, on August 31, 1994, at approximately 6:52 p.m. California time, Pei Wei posted a response on the publicly-accessible VRML e-mail distribution list that included the following statements: "I don't think this is the first case of program objects embedded in docs and transported over the WWW. ViolaWWW has had this capabilities for months and months now."

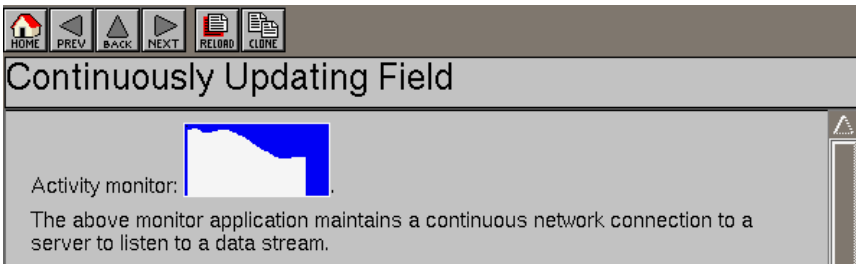
45. On information and belief, Pei Wei's response included a link to an FTP site where anyone "interested in learning more about how violaWWW does this embedded objects thing can get a paper on it."

46. On information and belief, the paper cited by Pei Wei was entitled "A Brief Overview of the VIOLA Engine, and its Applications" ("August 16, 1994 Viola Paper").

47. On information and belief, the paper cited by Pei Wei was dated August 16, 1994 — over two months before the application for the '906 patent was filed.

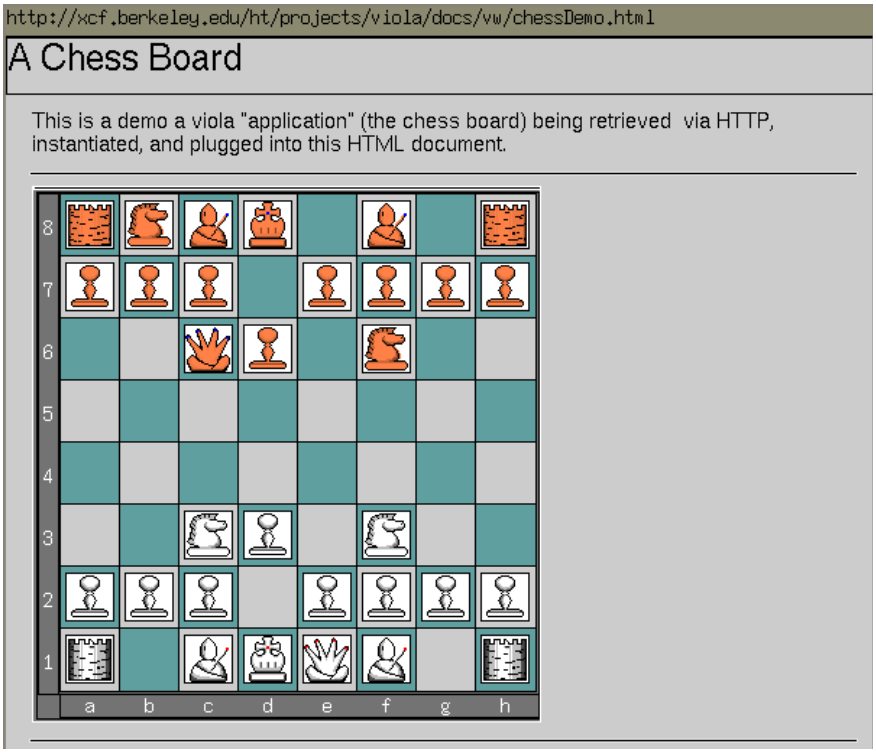
48. On information and belief, the paper cited by Pei Wei included the following statements and graphics:

> **Embedding mini applications**
>
> Viola's language and toolkit allows ViolaWWW to render documents with embedded viola objects. Although the viola language is not part of the World Wide Web standard (yet?), having this capability provides a powerful extension mechanism to the basic HTML.
>
> For example, if the HTML's input-forms do not do exactly what you want, you have the option to build a mini customized input-form application. And it could have special scripts to check for the validity of the entered data before even making a connection to the server.
>
> Or, if your document needs to show data that is continuously updated, you could build a small application such as this which display the CPU load of a machine. Note that only the graph field is continuously updated, but not the rest of the document.



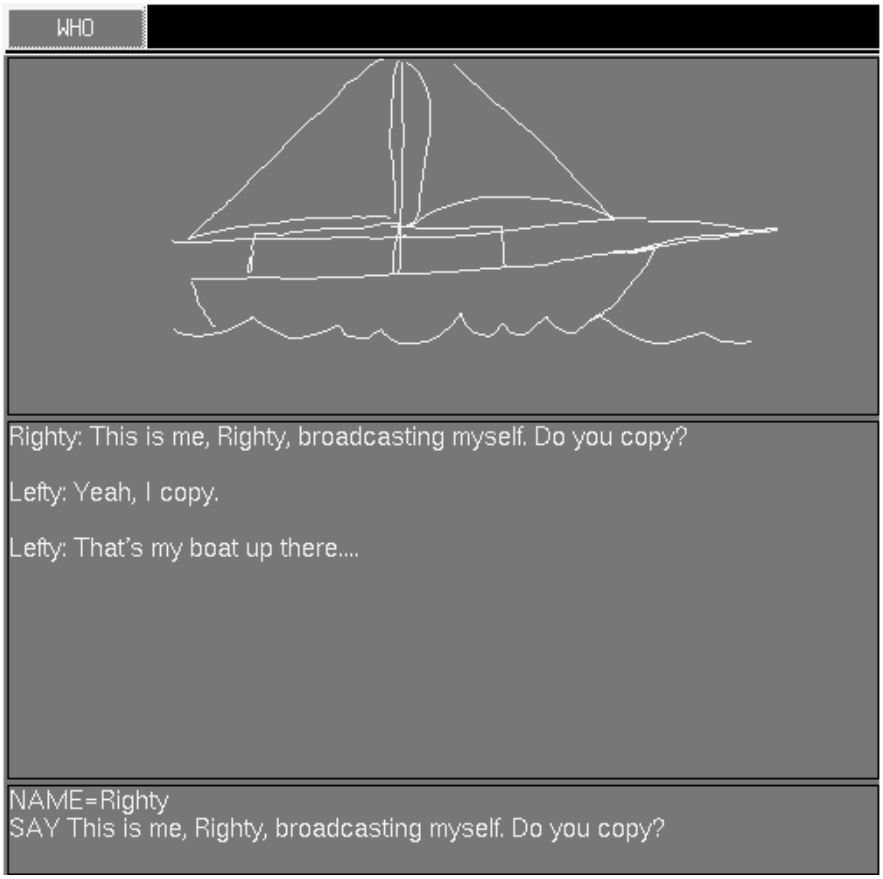

Other possible applications include front-ends to the stock market quotes, new wire updates, tele-video style service, etc.

Here's another example of a mini interactive application that is embedded into a HTML document. It's a chess board in which the chess pieces are actually active and movable. And, illegal moves can be checked and denied straight off by the intelligence of the scripts in the application. Given more work, this chess board application can front-end a chess server, connected to it using the socket facility in viola.




What follows is a screendump of a demo of an embedded viola application that lets readers of this HTML page communicate by typing or drawing. Like the chess board application above, this chat application can stand-alone (and have nothing to do with the World Wide Web), or be embedded into a HTML document.

By the way, to make this possible, a multi-threaded/persistent server was written to act as a message relay (and to handle HTTP as well).

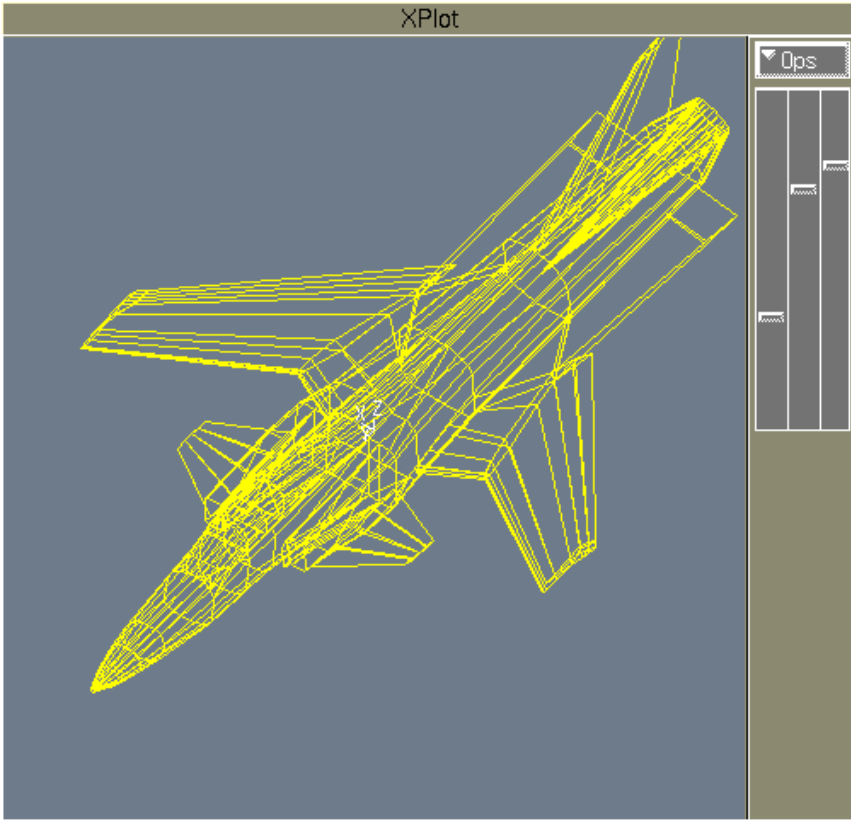



This next mini application front-ends a graphing process (on the same machine as the viola process). An important thing to note is that, like all the other document-embeddable mini applications shown, no special modification to the viola engine is required for ViolaWWW to support them. All the bindings are done via the viola language, provided that the necessary primitives are available in the interperter, of course.

Put it another way, because of the scripting capability, the ViolaWWW browser has become very flexible, and can take on many new features dynamically. C-code patches and recompilation of the browser can frequently be avoided.

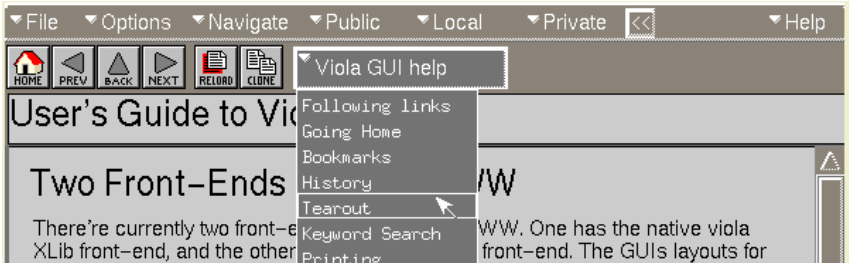
This attribute can be very important for several reasons. It keeps the size of the core software small, yet can grow dynamically as less frequently used features are occasionally used, or as new accessories/components are added.

Such new accessories can be as simple as little applets that accompany documents, or conceivably as complicated as a news or mail reader. An analogy is how Emacs's programming environment allows that text editor to become much more than just a text editor.




Not only can mini applications be embedded inside of documents, they can even be plugged into the ViolaWWW's "toolbar".

The following picture shows a "bookmark tool" that acts as a mini table of contents for the page. In this case, the bookmark is linked to the document (by using the <LINK> tag of HTML 3.0), and the bookmark will appear and disappear with the document.



> One can imagine many plug-in accessories/applets/tools possible with this facility. Like, a self guiding slideshow tool. Or, document set specific navigational tools/icons that are not pasted onto the page so that the navigational icons don't scroll away from view. Etc.

49. "Doyle downloaded and read the paper." *Eolas Techs., Inc. v. Microsoft Corp.*, 399 F.3d 1325, 1330 (Fed. Cir. 2005).

50. On information and belief, on August 31, 1994, at approximately 9:06 p.m. California time, Doyle responded to Pei Wei's statement at approximately 6:52 p.m. that "I don't think this is the first case of program objects embedded in docs and transported over the WWW. ViolaWWW has had this capabilities for months and months now." Doyle responded by asking Pei Wei, "How many months and months? We demonstrated our technology in 1993."

51. On information and belief, on August 31, 1994, at approximately 11:16 p.m. California time, Pei Wei responded to the message that Doyle had sent at approximately 9:06 p.m. Pei Wei's response included the following statements:

> Definitely by May 8, 1993 we had demonstrated that plotting demo (the very one shown in the viola paper) to visitors from a certain computer manufacturer… This demo was memorable because someone and I at ORA had lost sleep the night before the meeting, in order to cook up that particular plotting demo :) We had to show something cool.
>
> That demo wasn't very hard to do because by that time the basic capability was already in place for violaWWW to fetch viola objects over HTTP (or whatever) and plug them into documents. Of course, our wire-frame plotting demo isn't anywhere as comprehensive as yours. But, the point was that there was a way to embed programmable & interactive objects into HTML documents.

52. On information and belief, when Pei Wei referred to the "plotting demo (the very one shown in the viola paper)," he was referring to the plot of the fighter jet shown above in the window titled "XPlot."

53. On information and belief, when Pei Wei referred to a demonstration "by May 8, 1993" to "visitors from a certain computer manufacturer," he was referring to a demonstration of the plotting demo to Karl Jacob and James Kempf from Sun Microsystems on May 7, 1993. This demonstration took place in Northern California. There was no limitation, restriction or obligation of secrecy on Karl Jacob or James Kempf.

54. The Federal Circuit has held that "Wei's May 7, 1993 demonstration to two Sun Microsystems employees without confidentiality agreements was a public use under [35 U.S.C. § 102(b)]." *Eolas Techs.*, 399 F.3d at 1335.

55. On information and belief, on August 31, 1994, at approximately 11:13 p.m. California time, Doyle responded again to the message that Pei Wei had sent at approximately 6:52 p.m.

56. On information and belief, Doyle's response was sent after Doyle had read Pei Wei's August 1994 Viola paper.

57. On information and belief, Doyle's response included the following statements: "Pei is mistaken on two counts, as I describe below . . . . As Pei's paper on Viola states, that package did not support what it calls 'embeddable program objects' until 1994. . . . Furthermore, Viola merely implements an internal scripting language . . . ."

58. On information and belief, on August 31, 1994, at approximately 11:36 p.m. California time, Doyle responded to the message that Pei Wei had sent at approximately 11:16 p.m. Doyle's response included the following statements: "Out of curiosity, did you publicly demonstrate this or publish any results before 1994?"

59. On information and belief, on September 1, 1994, at approximately 12:08 a.m. California time, Pei Wei responded to the message that Doyle had sent at approximately 11:13 p.m.

60. On information and belief, Pei Wei's message at approximately 12:08 a.m. was also responsive to the message that Doyle had sent at approximately 11:36 p.m.

61. On information and belief, Pei Wei's message to Doyle at 12:08 a.m. included the following statements:

> Well. Viola's model was *demonstrated* in 1993, *released* freely in 1994. . . . And, as for the plotting demo, it actually is really just a front-end that fires up a back-end plotting program (and the point is that that back-end could very well be running on a remote super computer instead of the localhost). For that demo, there is a simple protocol such that the front-end app could pass an X window ID to the back-end, and the back-end draws the graphics directly onto the window violaWWW has opened for it.

62. On information and belief, Doyle deleted from his computer his emails with Pei Wei on August 31 and September 1, 1994, and the copy of the August 1994 Viola paper that he had downloaded and read. Doyle kept on his computer other emails from that timeframe, however.

63. On information and belief, Doyle was living in Northern California on August 31, 1994, when he exchanged messages with Pei Wei about the ViolaWWW browser.

64. On information and belief, Pei Wei was living in Northern California on August 31, 1994, when he exchanged messages with Doyle about the ViolaWWW browser.

65. On information and belief, there was no limitation, restriction or obligation of secrecy on the recipients of Pei Wei's messages on August 31 and September 1, 1994, about the ViolaWWW browser.

66. On information and belief, there was no limitation, restriction or obligation of secrecy on the readers of Pei Wei's August 1994 Viola paper.

67. On October 17, 1994, the application for the '906 patent was filed. Doyle and Martin were among those named as inventors.

68. The application for the '906 patent discloses the Mosaic browser and the Cello browser, but not the ViolaWWW browser.

69. The application for the '906 patent included an information disclosure statement that identified several pieces of prior art, but not the ViolaWWW browser.

70. On November 22, 1994, Doyle signed a declaration under penalty of perjury that included the following statements: "I believe I am . . . an original, first and joint inventor . . . of the subject matter which is claimed and for which a patent is sought . . . the specification of which . . . was filed on October 17, 1994 as Application Serial No. 08/324,443. . . . I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56."

71. On information and belief, no disclosure about the ViolaWWW browser was ever provided to the Patent Office during prosecution of application number 08/324,443, which matured into the '906 patent.

**B-2. Doyle was reminded about the ViolaWWW browser in 1995 during prosecution of the '906 patent**

72. On information and belief, Doyle was reminded about Pei Wei and the ViolaWWW browser in 1995, during prosecution of the '906 patent, but still no disclosure about the ViolaWWW browser was provided to the Patent Office.

73. On information and belief, August 21, 1995, at approximately 11:42 a.m. California time, Doyle posted a "Press Release" to the publicly-accessible WWW-talk e-mail

distribution list. Doyle's post included the following statements: "Eolas Technologies Inc. announced today that it has completed a licensing agreement with the University of California for the exclusive rights to a pending patent covering the use of embedded program objects, or 'applets,' within World Wide Web documents."

74. On information and belief, on August 21, 1995, at approximately 12:54 p.m. California time, Pei Wei responded on the publicly-accessible WWW-talk e-mail distribution list to Doyle's "Press Release." Pei Wei's response included the following statements: "[F]or the record, I just want to point out that the 'technology which enabled Web documents to contain fully-interactive "inline" program objects' was existing in ViolaWWW and was *released* to the public, and in full source code form, even back in 1993... Actual conceptualization and existence occurred before '93."

75. On information and belief, on August 21, 1995, at approximately 1:14 p.m. California time, Doyle responded to the message Pei Wei had sent at approximately 12:54 p.m. Doyle's response included the following statements: "We've had this discussion before (last September, remember?). You admitted then that you did NOT release or publish anything like this before the Eolas demonstrations."

76. On information and belief, on August 21, 1995, at approximately 4:09 p.m. California time, Pei Wei responded to the message that Doyle had sent at approximately 1:14 p.m. Pei Wei's response included the following statements:

> Please carefully re-read my letter to you... I said Viola was demonstrated in smaller settings, but before your demo. The applets stuff was demo'ed to whomever wanted to see it and had visited our office at O'Reilly & Associates (where I worked at the time).
>
> This is what I wrote on the VRML list:
> . . . .

> Definitely by May 8, 1993 we had demonstrated that plotting demo
> (the very one shown in the viola paper) to visitors from a certain
> computer manufacturer… This demo was memorable because someone and I
> at ORA had lost sleep the night before the meeting, in order to cook up
> that particular plotting demo :) We had to show something cool.

That date (May 93), at least, predates your demo if I'm not mistaken. Then around August 93, it was shown to a bunch of attendees at the first Web Conference in Cambridge. . . .
. . . .
If you're talking about interactive apps *specifically* on the web, ie applets in-lined into HTML documents etc., and with bi-directional communications, then look at ViolaWWW as it existed around late ;'92 early '93.

77. On information and belief, when Pei Wei referred to the "plotting demo (the very one shown in the viola paper)," he was referring to the plot of the fighter jet shown above in the window titled "XPlot."

78. On information and belief,, when Pei Wei referred to a demonstration "by May 8, 1993," he was referring to the demonstration of the plotting demo to two Sun Microsystems employees that the Federal Circuit has held "was a public use under [35 U.S.C. § 102(b)]." *Eolas Techs.*, 399 F.3d at 1335.

79. On information and belief, when Pei Wei referred to the "first Web Conference in Cambridge" "around August 1993," he was referring to the "World-Wide Web Wizards Workshop" held in Cambridge, Massachusetts on July 28–30, 1993.

80. On information and belief, people attending the Wizards workshop included Tim Berners-Lee, Marc Andreesen, Eric Bina, Dale Dougherty, Scott Silvey, and Pei Wei.

81. On information and belief, Tim Berners-Lee and Dale Dougherty were the organizers of the Wizards workshop.

82. On information and belief, Dale Dougherty worked at O'Reilly & Associates in Northern California.

83. On information and belief, in 1992, Dale Dougherty learned about Viola and recruited Pei Wei to join O'Reilly & Associates. Pei Wei's job at O'Reilly & Associates was to continue developing the ViolaWWW browser.

84. On information and belief, Scott Silvey worked with Pei Wei at O'Reilly & Associates in Northern California.

85. On information and belief, when Pei Wei wrote "This demo was memorable because someone and I at ORA

had lost sleep the night before the meeting, in order to cook up that particular plotting demo," the other person he was referring to was Scott Silvey.

86. On information and belief, Tim Berners-Lee is the person generally attributed to be the inventor of the World Wide Web.

87. On information and belief, Marc Andreesen and Eric Bina were the authors of Mosaic, a popular browser for the World Wide Web created at the National Center for Supercomputing Applications (NCSA) at the University of Illinois at Urbana-Champaign.

88. On information and belief, Marc Andreesen and Eric Bina went on to found Netscape, the manufacturer of another popular browser for the World Wide Web.

89. On information and belief, Pei Wei and Scott Silvey demonstrated the ViolaWWW browser and its ability to automatically invoke interactive objects embedded within a webpage using the "VOBJF" tag to at least Marc Andreesen and Tim Berners-Lee at the Wizards workshop in Cambridge, Massachusetts in July 1993 — over one year before the application for the '906 patent was filed.

90. On information and belief, there was no limitation, restriction or obligation of secrecy on anyone at the Wizards workshop.

91. On information and belief, Pei Wei's demonstration at the Wizards workshop of the ViolaWWW browser and its ability to automatically invoke interactive objects embedded within a webpage using the "VOBJF" tag was a public use under 35 U.S.C. § 102(b).

92. On information and belief, despite Pei Wei's communications to Doyle repeatedly providing evidence that the ViolaWWW browser was material prior art under 35 U.S.C. § 102(b), Doyle never disclosed the ViolaWWW browser to the Patent Office during prosecution of application number 08/324,443, which matured into the '906 patent.

93. On information and belief, Doyle instead deleted from his computer his emails with Pei Wei on August 21, 1995. Doyle kept on his computer other emails from that timeframe, however.

**B-3. In 1998, during prosecution of the '906 patent, Doyle collected additional information about the ViolaWWW browser**

94. On information and belief, in 1998, during prosecution of the '906 patent, Doyle collected additional information about the ViolaWWW browser, but he still did not disclose any information about the ViolaWWW browser to the Patent Office, as explained in more detail below.

95. On information and belief, during prosecution of the '906 patent, Doyle maintained a folder called "Viola stuff."

96. On information and belief, the "Viola stuff" folder included a printout of Pei Wei's message to Doyle on August 31, 1994, at approximately 6:52 p.m. California time, in which Pei Wei told Doyle, "I don't think this is the first case of program objects embedded in

docs and transported over the WWW. ViolaWWW has had this capabilities for months and months now."

97. On information and belief, the "Viola stuff" folder included a printout of Doyle's message to Pei Wei on August 31, 1994, at approximately 11:36 p.m. California time, in which Doyle asked Pei Wei, "Out of curiosity, did you publicly demonstrate this or publish any results before 1994?".

98. On information and belief, the "Viola stuff" folder included a printout from the URL http://www.w3.org/History/1994/WWW/WorkingNotes/. This webpage has a heading for the "WWWWizardsWorkshop" "Cambridge, Mass, July 1993" and includes links to "Announcement," "Agenda," and "Photos of attendees."

99. On information and belief, "WWWWizardsWorkshop" refers to the World-Wide Web Wizards Workshop held in Cambridge, Massachusetts on July 28–30, 1993, that Pei Wei attended.

100. On information and belief, the "Announcement" link links to a webpage at http://www.w3.org/History/1994/WWW/WorkingNotes/1993_Workshop/Announcement.html that states that "Interactive objects" would be discussed at the Wizards workshop.

101. On information and belief, the "Agenda" link links to a webpage at http://www.w3.org/History/1994/WWW/WorkingNotes/1993_Workshop/Agenda.html that states that "Interactive objects" was on the agenda for discussion at the Wizards workshop.

102. On information and belief, the webpages for the Wizards workshop corroborate Pei Wei's statement to Doyle on August 21, 1995, that the plotting demo described in the Viola paper dated August 16, 1994, was "shown to a bunch of attendees at the first Web Conference in

Cambridge" "around August 93" — over one year before the application for the '906 patent was filed.

103. On information and belief, the "Viola stuff" folder included a printout of a webpage with a link to the source code for viola-2.1.2, archived on September 2, 1993 — over one year before the application for the '906 patent was filed.

104. On information and belief, the "Viola stuff" folder included a printout of a webpage with the "README" file for viola-2.1.2. The date at the top of the "README" file is July 27, 1992. The "README" file includes instructions for building the binary code for the "viola" program, and instructions for running the ViolaWWW browser. The "README" file states at the bottom:

> Comments and questions:
>
> Please send WWW specific bugs to www-bugs@info.cern.ch, general comments to www-talk@info.cern.ch, and anything to wei@xcf.Berkeley.EDU.
>
> Pei Y. Wei
> wei@xcf.berkeley.edu

105. On information and belief, the "Viola stuff" folder included a printout of a message that Pei Wei had sent to the publicly-accessible WWW-talk e-mail distribution list on January 28, 1994, that included the following statements: "Right now, the ViolaWWW that is under development can embed viola objects/applications inside of HTML documents."

106. On information and belief, the "Viola stuff" folder included a printout of a message that Pei Wei had sent to the publicly-accessible WWW-talk e-mail distribution list on February 25, 1994, that included the following statements:

> The new ViolaWWW is now available for ftp'ing. It's beta and feedback is very welcomed. The README file follows…
> ==========

ViolaWWW, Version 3.0 Beta Feb 23 1994
==========

ViolaWWW is an extensible World Wide Web hypermedia
browser for XWindows.
. . . .
Notable features in the new ViolaWWW
---
. . . .
* Embeddable in-document and in-toolbar programmable viola
objects. A document can embed mini viola applications (ie: a
chess board), or can cause mini apps to be placed in the toolbar.
. . . .
Availability
---
Source and binary can be found in ftp://ora.com/pub/www/viola.
Sparc binary is supplied.
. . . .
Pei Y. Wei (wei@ora.com)
O'Reilly & Associates, Inc.

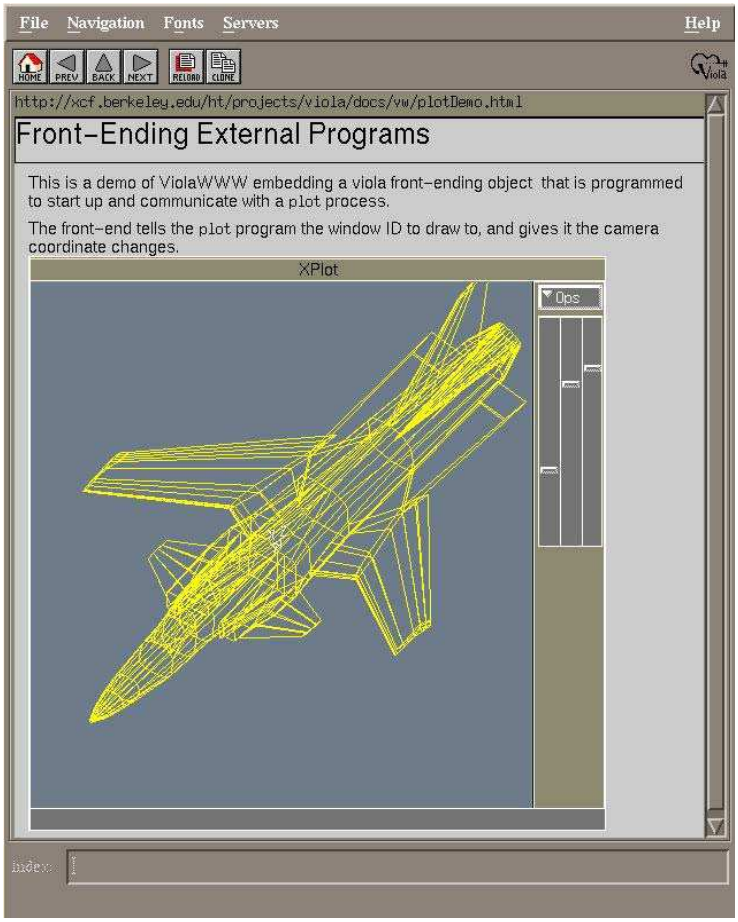
107. The "Viola stuff" folder included a printout from the URL http://xcf.berkeley.edu/ht/projects/viola/. The printout included the following statements:

ViolaWWW, Version 3.1 Beta Mar 23 1994
==========
ViolaWWW is an extensible World Wide Web hypermedia
browser for XWindows.
. . . .
Notable features in the new ViolaWWW
---
. . . .
* Embeddable in-document and in-toolbar programmable viola
objects. A document can embed mini viola applications (ie: a
chess board), or can cause mini apps to be placed in the toolbar.
. . . .
Availability
---
Source and binary can be found in ftp://ora.com/pub/www/viola.
Sparc binary is supplied.
. . . .
Pei Y. Wei (wei@ora.com)
O'Reilly & Associates, Inc.

108. On information and belief, the "Viola stuff" folder included a printout from the URL http://xcf.berkeley.edu/ht/projects/viola/docs/viola/. One of the files listed in the printout is named "plotDemo.html".

109. On information and belief, the "Viola stuff" folder included a printout from the URL http://xcf.berkeley.edu/ht/projects/viola/docs/objs/. One of the files listed in the printout is named "plot.v".

110. On information and belief, the following is a screenshot of the ViolaWWW browser after parsing the file plotDemo.html:




111. On information and belief, the files plotDemo.html and plot.v include code for the plotting demo described in the Viola paper dated August 16, 1994..

112. On information and belief, the file plotDemo.html specifies the location of the file plot.v, which in turn specifies the location of a separate executable application named vplot.

113. On information and belief, Pei Wei had told Doyle on August 31, 1994 how the plotting demo worked: "[A]s for the plotting demo, it actually is really just a front-end that fires up a back-end plotting program (and the point is that that back-end could very well be running on a remote super computer instead of the localhost). For that demo, there is a simple protocol such that the front- end app could pass an X window ID to the back-end, and the back-end draws the graphics directly onto the window violaWWW has opened for it."

114. On information and belief, Pei Wei had told Doyle on August 31, 1994, and again on August 21, 1995, that the plotting demo described in the Viola paper dated August 16, 1994, was the "very one" demonstrated "to visitors from a certain computer manufacturer" by May 8, 1993.

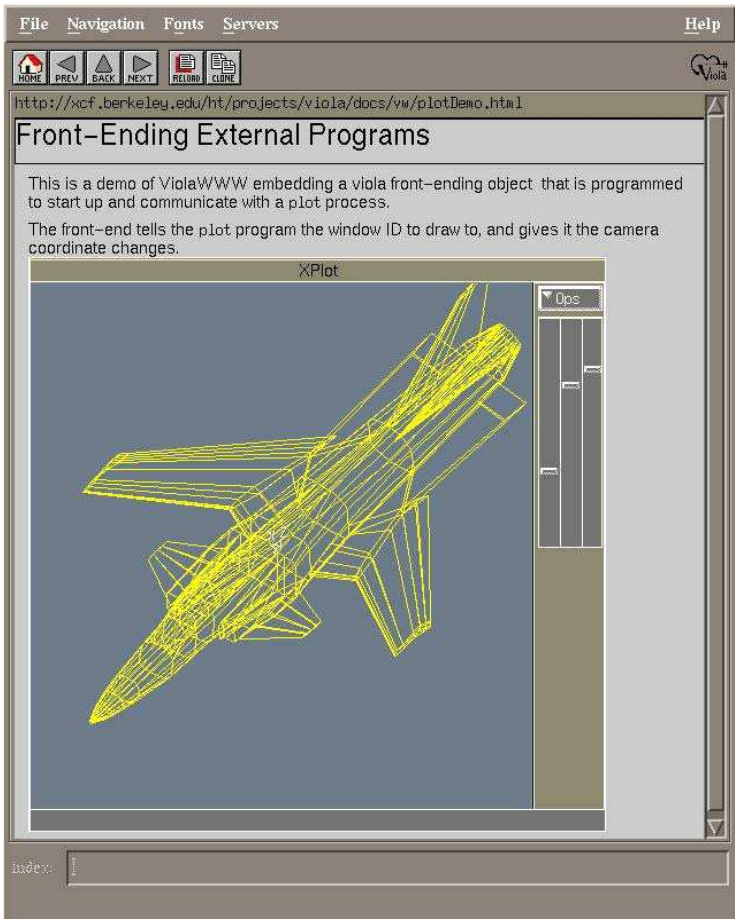
115. On information and belief, when Pei Wei referred to a demonstration "by May 8, 1993," he was referring to the demonstration of the plotting demo to two Sun Microsystems employees that the Federal Circuit has held "was a public use under [35 U.S.C. § 102(b)]." *Eolas Techs.*, 399 F.3d at 1335.

116. On information and belief, during prosecution of the '906 patent, Doyle knew about Pei Wei's demonstration of the plotting demo that the Federal Circuit has held was a "public use" under 35 U.S.C. § 102(b); Doyle knew how the plotting demo worked; and Doyle had access to the code for that plotting demo.

117. On information and belief, during prosecution of the '906 patent, Doyle printed webpages containing information about a talk that Pei Wei gave at Stanford University in Northern California in September 1994.

118. On information and belief, the webpages that Doyle printed included the following statements and graphic:

> **WWW Browsers: Extensibility Issues**
>
> **Pei Wei, O'Reilly & Associates**
>
> **Stanford Computer Forum WWW Workshop - September 20-21, 1994**
> **. . . .**
>
> **Extensibility in WWW Browsers**
>
> The WorldWideWeb is a powerful medium which has many applications beyond just publishing static documents. It is certainly an interface to the space of "documents." But already, with established features such as input-forms and server-side scripting, we see that the web is also increasingly becoming an interface to the space of what is traditionally called "applications."
> . . . .
> In this talk I'll describe a few possible approaches for a browser to gain more flexibility, and to briefly describe one particular approach as implemented by a system known as ViolaWWW.
> . . . .
> **Possible Ways to Extend Browsers**
>
> We already do "extend" browsers with things like "external viewers." But there's not a very good integration with the browser. Ideally those external viewers should be rendering inplace inside the document, and be working together with the browser, be tightly integrated with the browser and other parts…
> . . . .
> **Work at O'Reilly & Associates: VIOLA-WWW**
> . . . .
> This is the Viola system that is being developed at O'Reilly and Associates. This system has the following interesting characteristics:
> . . . .
> Three, program objects can be embedded into documents and the toolbar. . . .
> . . . .
> The next example is a front-end application to a backend. And the back-end is what actually does the computation and the drawing.
> . . . .




119. On information and belief, there was no limitation, restriction or obligation of secrecy on anyone attending the talk that Pei Wei gave at Stanford University in September 1994.

120. On information and belief, the plotting demo described in the talk at Stanford University in September 1994 is the same plotting demo described in the August 1994 Viola paper..

121. On information and belief, Pei Wei had told Doyle on August 31, 1994, and again on August 21, 1995 that the plotting demo described in the August 1994 Viola paper was the "very one" demonstrated "to visitors from a certain computer manufacturer" by May 8, 1993.

122. On information and belief, when Pei W*ei referr*ed to a demonstration "by May 8, 1993," he was referring to the de*monstrati*on of the plotting demo to two Sun Microsystems

employees that the Federal Circuit has held "was a public use under [35 U.S.C. § 102(b)]." *Eolas Techs.*, 399 F.3d at 1335.

123. On information and belief, during prosecution of the '906 patent, Doyle was repeatedly confronted with evidence that the ViolaWWW browser was material prior art under 35 U.S.C. § 102(b), yet Doyle never disclosed the ViolaWWW browser to the Patent Office during prosecution of application number 08/324,443, which matured into the '906 patent.

124. On information and belief, the ViolaWWW browser, including the August 1994 Viola paper, was disclosed to Krueger in August of 1998, after the Notice of Allowance for the '906 patent issued but before the '906 patent issued, when he received a fax containing a number of references regarding the ViolaWWW browser.

125. On information and belief, the fax sent to Krueger in August of 1998 was to allow him to analyze whether the ViolaWWW browser, including the August 1994 Viola paper, should be submitted to the Patent Office.

126. On information and belief, Kruger was aware of Pei Wei's May 1993 demonstration of the ViolaWWW browser to Sun Microsystems employees without a confidentiality agreements.

127. On information and belief, Krueger considered Pei Wei's statements regarding the May 1993 demonstration of the ViolaWWW browser to Sun Microsystems employees when he analyzed whether to disclose the ViolaWWW browser to the Patent Office.

128. On information and belief, Krueger had no reason to disbelieve Pei Wei's statements regarding the May 1993 demonstration of the ViolaWWW browser to Sun Microsystems employees.

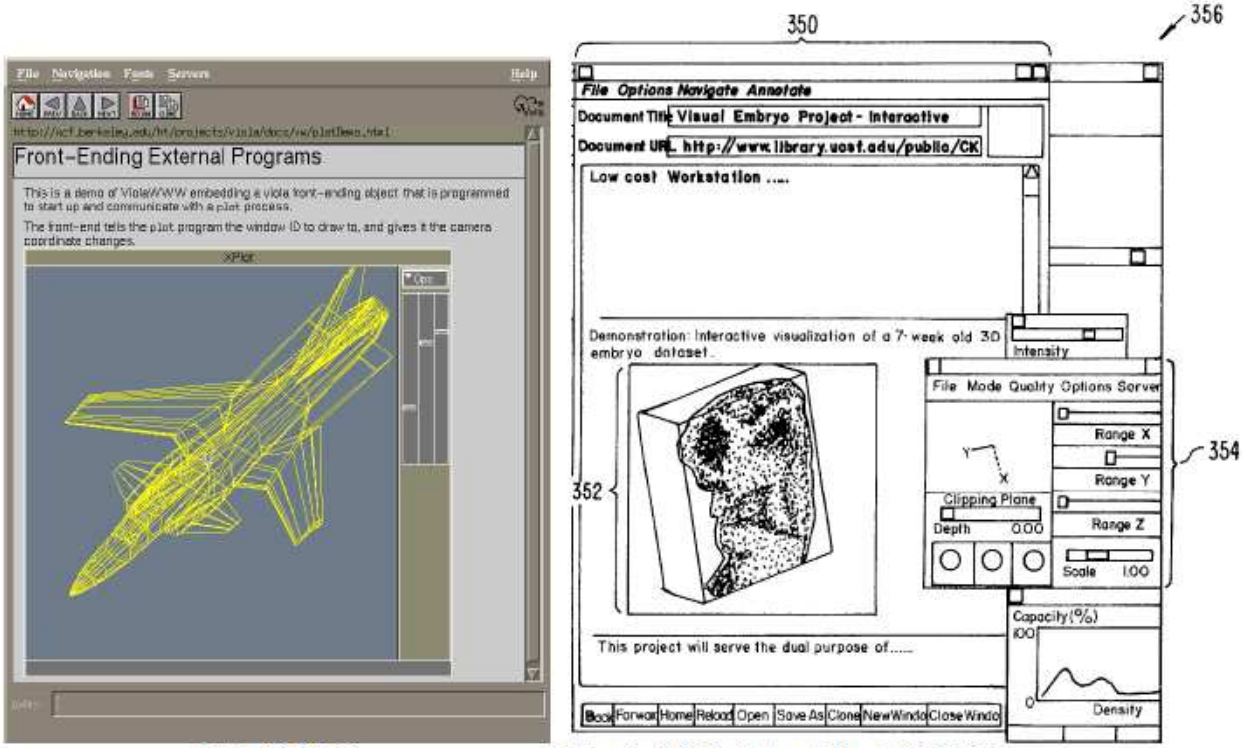
129. On information and belief, Krueger made the determination, prior to the issuance of the '906 patent, to not disclose to the PTO the information he received regarding the ViolaWWW browser.

130. On information and belief, the ViolaWWW browser was material to the patentability of the claimed inventions in the ’906 patent.

**B-4. The ViolaWWW browser was material to the patentability of the ’906 patent**

131. On information and belief, the ViolaWWW browser was material to the patentability of the claimed inventions in the ‘906 patent.

132. On information and belief there is a remarkable similarity between the ViolaWWW browser and the preferred embodiment of the ‘906 patent:




ViolaWWW

Fig. 9 of U.S. Patent No. 5,838,906

Both the ViolaWWW browser (on the left) and the preferred embodiment of the ‘906 patent (on the right) enabled a user to interact with a 3-dimensional image embedded in the middle of a webpage. In the ViolaWWW screenshot above, there are three slide controls to the right of the embedded image that move up and down; these rotate the embedded image on the X, Y, and Z axes. Similarly, in the preferred embodiment of the ‘906 patent shown above, box 354 has three

slide controls to the right of the embedded image that rotate the image on the X, Y, and Z axes. Thus, ViolaWWW, like the '906 patent, teaches a browser capable of displaying embedded interactive objects.

133. The Manual of Patent Examining Procedure in force at the time the application for the '906 patent was filed included the following statements:.

> Materiality is defined in 37 CFR 1.56(b) and discussed herein at MPEP § 2001.05. In addition to prior art such as patents and publications, 37 CFR 1.56 includes, for example, information on ***possible prior public uses***, sales, offers to sell, derived knowledge, ***prior invention by another***, inventorship conflicts, and the like.

(Emphasis in bold added.)

134. The Manual of Patent Examining Procedure in force today contains similar language:

> Materiality is defined in 37 CFR 1.56(b) and discussed herein at MPEP § 2001.05. In addition to prior art such as patents and publications, 37 CFR 1.56 includes, for example, information on >enablement,< ***possible prior public uses***, sales, offers to sell, derived knowledge, ***prior invention by another***, inventorship conflicts, and the like. >"Materiality is not limited to prior art but embraces *any* information that a reasonable examiner would be substantially likely to consider important in deciding whether to allow an application to issue as a patent." *Bristol-Myers Squibb Co. v. Rhone-Poulenc Rorer, Inc.*, 326 F.3d 1226, 1234, 66 USPQ2d 1481, 1486 (Fed. Cir. 2003) (emphasis in original) (finding article which was not prior art to be material to enablement issue).<

(Emphasis in bold added.)

135. The Federal Circuit has confirmed that the ViolaWWW browser was material to the patentability of the claimed inventions in the '906 patent.

136. The Federal Circuit held that a reasonable jury could find at least claims 1 and 6 of the ‘906 patent anticipated by the ViolaWWW browser under 35 U.S.C. § 102(a), (b), and/or (g). *See Eolas Techs.*, 399 F.3d at 1329, 1332–35.

137. The Federal Circuit held that “Wei’s May 7, 1993 demonstration to two Sun Microsystems employees without confidentiality agreements was a public use under [35 U.S.C. § 102(b)].” *Eolas Techs.*, 399 F.3d at 1335.

138. The Federal Circuit held that a reasonable jury could find at least claims 1 and 6 of the ‘906 patent obvious in light of the ViolaWWW browser. *See Eolas Techs.*, 399 F.3d at 1335.

139. The Federal Circuit held that a district court could find that Doyle had committed inequitable conduct by failing to disclose the ViolaWWW browser to the Patent Office. *See Eolas Techs.*, 399 F.3d at 1336.

140. On information and belief, Krueger was aware that the Federal Circuit confirmed that the ViolaWWW browser was material to the patentability of the claimed invention in the ’906 patent, but he still did not discuss the ViolaWWW browser further with Doyle.

141. On information and belief, even after Krueger was aware that the Federal Circuit confirmed that the ViolaWWW browser was material to the patentability of the claimed invention in the ’906 patent he did not disclose any additional information to help the Patent Office consider ViolaWWW browser.

142. The Patent Office has also confirmed that the ViolaWWW browser was material to the patentability of the claimed inventions in the ‘906 patent.

143. On information and belief, on or about July 30, 2007, during the 2005 reexamination of the ’906 patent, the Patent Office rejected all claims of the ’906 patent as being

anticipated by DX95, which includes a copy of the text found in Pei Wei's August 1994 Viola paper,

144. On information and belief, Pei Wei had told Doyle on August 31, 1994, about the August 16, 1994 Viola paper , and Doyle had downloaded and read that paper the same day, yet Doyle never disclosed the Viola paper to the Patent Office during the original examination of the '906 patent.

145. On information and belief, the fact that Doyle may have conceived of the inventions claimed in the '906 patent before August 16, 1994, does not render the August 16, 1994 Viola paper immaterial, because the August 16, 1994 Viola paper describes features of the ViolaWWW browser that existed before the invention date for the '906 patent and/or over one year before the application for the '906 patent was filed.

146. For example, on information and belief, the plotting demo described in the August 16, 1994 Viola paper was part of the ViolaWWW browser software that was demonstrated to Sun Microsystems on May 7, 1993 — over one year before the application for the '906 patent was filed.

147. On information and belief, one of the claimed inventions in the '906 patent was conceived before August 1993.

148. Thus, on information and belief, the ViolaWWW browser software that was described in the August 16, 1994 Viola paper which was demonstrated to Sun Microsystems on May 7, 1993, also corroborates anticipation of the claimed inventions in the '906 patent under 35 U.S.C. § 102(g).

149. Neither reexamination of the '906 patent considered whether the claimed inventions were anticipated by "Wei's May 7, 1993 demonstration to two Sun Microsystems

employees without confidentiality agreements" which the Federal Circuit has held was a "public use under [35 U.S.C. § 102(b)]." *Eolas Techs.*, 399 F.3d at 1335.

150. In an *ex parte* reexamination, "[r]ejections will not be based on matters other than patents or printed publications, such as public use." *See* Manual of Patent Examining Procedure (MPEP) § 2258(I).

151. On information and belief, Krueger new that the Patent Office could not consider public use art during an *ex parte* reexamination.

152. The Patent Office had the authority during the original examination of the '906 patent to issue a rejection based on the "public use" provision of 35 U.S.C. § 102(b), but neither Doyle nor Krueger ever disclosed to the Patent Office during that examination the evidence they had in their possession that the ViolaWWW browser was in "public use" more than one year before the application for the '906 patent was filed.

153. On information and belief, the Patent Office would not have allowed the claims of the '906 patent if Doyle and/or Krueger had not engaged in inequitable conduct and instead had fulfilled their duty of candor and good faith in dealing with the Patent Office.

**B-5. Doyle intended to deceive the Patent Office during prosecution of the '906 patent**

154. On information and belief, during prosecution of application number 08/324,443, which matured into the '906 patent, Doyle withheld extensive evidence about the ViolaWWW browser.

155. For example, on information and belief, Doyle failed to disclose the following material information: the message from Raggett about the ViolaWWW browser and embedded objects; the communications with Pei Wei in 1994 about the ViolaWWW browser and the embedded interactive plotting demo that was in public use in May 1993; the Viola paper

describing the ViolaWWW browser and the embedded interactive plotting demo that was in public use in May 1993; the communications with Pei Wei in 1995 about the ViolaWWW browser and the embedded interactive plotting demo that was in public use in May 1993 and again at the Wizards conference in July 1993; the contents of the "Viola stuff" folder that Doyle maintained, which included information about the Wizards conference in July 1993 and links to the ViolaWWW browser software, including source code for the embedded interactive plotting demo that was in public use in May 1993; and Pei Wei's talk at Stanford in September 1994 about the embedded interactive plotting demo that was in public use in May 1993.

156. On information and belief, Krueger failed to disclose a number of material references regarding the ViolaWWW browser including at least the August 1994 Viola paper, Doyle's communications with Pei Wei in 1994 about the ViolaWWW browser and the embedded interactive plotting demo that was in public use in May 1993; the Viola paper describing the ViolaWWW browser and the embedded interactive plotting demo that was in public use in May 1993; and the contents of the "Viola stuff" folder that Doyle maintained and was faxed to Krueger in August of 1998, which included information about the Wizards conference in July 1993 and links to the ViolaWWW browser software, including source code for the embedded interactive plotting demo that was in public use in May 1993.

157. On information and belief, Doyle and Krueger withheld information about the ViolaWWW browser with the specific intent to deceive the Patent Office.

158. On information and belief, Doyle had a financial interest in the patentability of the claimed inventions in the '906 patent..

159. On information and belief, the ViolaWWW browser threatened the patentability of the claimed inventions in the '906 patent, and thus threatened Doyle's financial interests.

160. On information and belief, Doyle and Krueger were personally involved in the prosecution of application number 08/324,443, which matured into the ‘906 patent.

161. For example, on information and belief, Doyle signed a declaration on or about November 22, 1994, stating that he was an inventor and acknowledging his duty of candor and good faith in dealing with the Patent Office.

162. On information and belief, on or about January 2, 1997, Doyle signed a declaration that was submitted to the Patent Office in an effort to establish an earlier date of invention for the claims of the ‘906 patent application.

163. On information and belief, on or about February 24, 1997, Doyle and Krueger participated in an examiner interview in an effort to secure allowance of the claims of the ‘906 patent application.

164. On information and belief, on or about May 27, 1997, Doyle signed a 28-page declaration (including an appendix) that was submitted to the Patent Office in an effort to establish himself as an “expert” in the subject matter of the claimed invention and to overcome various obviousness rejections to the claims of the ‘906 patent application.

165. On information and belief, n or about October 29, 1997, Doyle signed another declaration that was submitted to the Patent Office in an effort to establish an earlier date of invention for the claims of the ‘906 patent application.

166. On information and belief, n or about November 6, 1997, Doyle and Krueger participated in another examiner interview in an effort to secure allowance of the claims of the ‘906 patent application.

167. On information and belief, Krueger lacked a technical degree in computer science or electrical engineering, and thus he relied on Doyle to understand and describe the subject matter of the claimed invention and the prior art.

168. Doyle personally reviewed and approved papers submitted to the Patent Office during prosecution of the ‘906 patent.

169. Despite Doyle’s and Krueger’s extensive personal involvement in the prosecution of application number 08/324,443, which matured into the ‘906 patent, Doyle never disclosed the ViolaWWW browser to the Patent Office during that prosecution.

170. The circumstances of Doyle’s and Krueger’s actions demonstrate an intent to deceive the Patent Office.

171. For example, on information and belief, during prosecution of the ‘906 patent, Doyle and Krueger made arguments for patentability that could not have been made if he had disclosed the ViolaWWW browser to the Patent Office.

172. On information and belief, on or about May 6, 1996, the Patent Office rejected several claims as being anticipated by the University of Southern California’s “Mercury Project.”

173. On information and belief, on or about August 6, 1996, a response to this rejection was submitted to the Patent Office.

174. On information and belief, Doyle and Krueger personally reviewed and approved the response submitted to the Patent Office on or about August 6, 1996.

175. The response submitted on or about August 6, 1996, included the following statements:

> The claimed combination is fundamentally different from the Mercury Project. In the claimed combination, the external object and executable object are embedded by reference in the HTML document and the object is displayed and processed within the

> same window where a portion of the original document is displayed. In the Mercury Project information is passed back to the server and a new document is generated and displayed. There is no display and processing the external object within the window in which a portion of the original document is displayed.

176. On information and belief, if Doyle and/or Krueger had disclosed the ViolaWWW prior art to the Patent Office, it would not have been possible to distinguish the claims of the '906 patent over the prior art on the basis that the prior art failed to disclose "display[ing] and processing the external object within the window in which a portion of the original document is displayed."

177. On or about March 26, 1997, the Patent Office rejected several claims as being obvious in light of "Khoyi et al. US Patent 5,206,951" in combination with other prior art.

178. On or about June 2, 1997, a response to this rejection was submitted to the Patent Office.

179. On information and belief, Doyle and Krueger personally reviewed and approved the response submitted to the Patent Office on or about June 2, 1997.

180. The response submitted on or about June 2, 1997, included the following statements:

> [T]here is no suggestion in Khoyi of modifying Mosaic so that an external application . . . is invoked to display and interactively process the object within the document window while the document is displayed by Mosaic in the same window.

181. On information and belief, if Doyle and/or Krueger had disclosed the ViolaWWW prior art to the Patent Office, it would not have been possible to distinguish the claims of the '906 patent over the prior art on the basis that the prior art failed to disclose "an external application [that] is invoked to display and interactively process the object within the document window while the document is displayed by [the browser] in the same window."

182. On or about August 25, 1997, the Patent Office rejected several claims as being obvious in light of "Koppolu et al. US Patent 5,581,686" in combination with other prior art.

183. On or about December 23, 1997, a response to this rejection was submitted to the Patent Office.

184. On information and belief, Doyle and Krueger personally reviewed and approved the response submitted to the Patent Office on or about December 23 1997.

185. The response submitted on or about December 23, 1997, included the following statements:

> [T]here is no disclosure or suggestion in Mosaic or Koppolu of automatically invoking an external application when an embed text format is parsed. Each of those references require user input, specifically clicking with a mouse pointer, to activate external applications to allow display and interaction with an external object.

186. On information and belief, if Doyle and/or Krueger had disclosed the ViolaWWW prior art to the Patent Office, it would not have been possible to distinguish the claims of the '906 patent on the basis that the prior art failed to disclose "automatically invoking an external application when an embed text format is parsed."

187. On information and belief, Doyle's and Krueger's repeated use of arguments that could not have been made if Doyle had disclosed the ViolaWWW prior art demonstrates an intent to deceive the Patent Office.

188. On information and belief, Doyle's intent to deceive the Patent Office is also demonstrated by comparing what he told an audience of web developers on or about March 27, 1995, to what he told the Patent Office on or about May 27, 1997.

189. On information and belief, on or about March 27, 1995, Doyle responded to a post on the publicly-accessible WWW-talk e-mail distribution list in which another author had

written, under the heading "HotJava is here! And it *rocks*," "It's the most exciting thing to happen to the Web since viola." Doyle's response included the following statements:

> If you take a close look at Java, you'll realize that it bears a close similarity to Viola, since the "applets" must be coded from a predefined language, downloaded and locally interpreted.

190. On or about May 27, 1997, Doyle signed a declaration that was submitted to the Patent Office. Doyle's declaration included the following statements:

> The three exemplary products which incorporate the features of the claimed invention include Netscape Navigator 2.0 (or newer versions), Java, from Sun Microsystems, and ActiveX, from Microsoft. . . . [T]he success of these products is directly attributable to the claimed features of the invention.
> . . . .
> A good indicator that Sun Microsystems felt that enabling interactivity in Web pages was the key feature of Java is given in the first chapter of "Hooked on Java," which was written by members of the original Java development team. They say, "With applets written in the Java programming language, Web users can design Web pages that include animation, graphics, games, and other special effects. **Most important, Java applets can make Web pages highly interactive.**"
>
> This statement shows that the developers of Java felt that the most important feature of the Java technology was the ability of Java to allow an embed text format (the applet tag) within a Web document to be parsed by a Web browser to automatically invoke an external executable application to execute on the client workstation in order to display an external object and enable interactive processing of that object within a display window created at the applet tag's location within the hypermedia document being displayed in the browser-controlled window. The book's authors further emphasize the novelty and nonobviousness of this technology when they say, "Quite simply, Java-powered pages are Web pages that have Java applets embedded in them. They are also the Web pages with the coolest special effects around .... Remember, **you need a Java-compatible Web browser such as HotJava to view and hear these pages and to interact with them; otherwise, all you'll access is static Web pages** minus the special effects."
> . . . .

> The above citations, as well as the additional details given in Appendix A, provide ample evidence of the commercial success of products incorporating features of the claimed invention, as well as evidence of the widespread acclaim that these products have garnered for the technical innovations which the features of the claimed invention allowed them to provide. They further show that the successes of these products was a direct result of the features of the claimed invention, which they incorporated *through implementation of an embed text format that is parsed by a Web browser to automatically invoke an external executable application to execute on the client workstation in order to display an external object and enable interactive processing of that object within a display window created at the embed text format's location within the hypermedia document being displayed in the browser-controlled window*.

(Emphasis added.)

191. The declaration Doyle signed on or about May 27, 1997, made no mention of Viola or the ViolaWWW browser.

192. On information and belief, Doyle's and Krueger's disclosure of Java for purposes of commercial success, but not the ViolaWWW browser which Doyle knew was prior art that existed over one year before the application for the '906 patent was filed, demonstrates an intent to deceive the Patent Office, especially given Doyle's belief that Viola was similar to Java and that Java embodied the claimed invention.

**B-6. Between 1999 and 2003, Doyle learned about additional Viola prior art, and learned that an expert in the field believed that the plotting demo for the ViolaWWW browser anticipated the asserted claims of the '906 patent**

193. Between 1999 and 2003, a third party disputed the validity of the '906 patent.

194. On information and belief, Doyle personally guided Eolas through the litigation concerning the validity of the '906 patent.

195. On information and belief, throughout the litigation, the third party asserted that the plotting demo involving the ViolaWWW browser anticipated the asserted claims of the ‘906 patent.

196. On information and belief, the plotting demo relied on by the third party to prove anticipation of the asserted claims of the ‘906 patent was the same plotting demo that Pei Wei had repeatedly described to Doyle, and which the Federal Circuit has held was a “public use” on May 7, 1993, *Eolas Techs.*, 399 F.3d at 1335, and which Doyle himself came across from his own research into Viola.

197. On information and belief, in its contentions that the plotting demo involving the ViolaWWW browser anticipated the asserted claims of the ‘906 patent, the third party specifically identified the VOBJF tag, the plot.v file, and the vplot executable application.

198. For example, on information and belief, on or about December 14, 2001, the third party served an expert report by Dr. John P.J. Kelly, that included the following statements:

> When ViolaWWW encountered the tag <VOBJF>/usr/work/viola/apps/plot.v</VOBJF>, an embed text format specifying the location of an object, it looked in the specified path for at least part of the object, parsed the path, and automatically loaded the object into the program. The file (plot.v) also contained type information associated with the object, such as the name and location of an external executable application, vplot, that also was automatically invoked to enable display of and user interaction with the object at a location within a display area within the document being displayed in the browser-controlled window corresponding to the location of the embed text format in the document. Subsequently, when the user interacted with the object, ViolaWWW sent messages to vplot based on the user input and received output from vplot, thus updating the display of the object.

199. Similarly, on information and belief, at a trial in 2003 concerning the validity of the ‘906 patent, Dr. Kelly testified that the plotting demo involving the ViolaWWW browser

anticipated the asserted claims of the ‘906 patent, and he specifically identified the VOBJF tag, the plot.v file, and the vplot executable application for purposes of his anticipation analysis.

200. On information and belief, Pei Wei also testified at the trial in 2003 about the ViolaWWW browser and the plotting demo.

201. On information and belief, At the trial, exhibit DX34 included source code for the ViolaWWW browser dated May 12, 1993.

202. On information and belief, At the trial, exhibit DX37 included source code for the ViolaWWW browser dated May 27, 1993.

203. On information and belief, DX34 contains the code for the plotting demo that Pei Wei demonstrated to Sun Microsystems on May 7, 1993, in Northern California.

204. On information and belief, DX37 contains code for a plotting demo similar to the plotting demo in DX34.

205. On information and belief, on May 31, 1993, Pei Wei posted DX37 on a publicly-accessible Internet site and notified an engineer at Sun Microsystems that DX37 was available for downloading.

206. On information and belief, under 35 U.S.C. § 102(b), DX37 was a “printed publication” over one year before the application for the ‘906 patent was filed.

207. On information and belief, Dr. Kelly testified that the plotting demo in DX34 and DX37 anticipates the asserted claims of the ‘906 patent. Dr. Kelly specifically identified the VOBJF tag, the plot.v file, and the vplot executable application for purposes of his anticipation analysis of DX37.

208. The Federal Circuit has held that Dr. Kelly's testimony would allow a reasonable jury to conclude that DX37 anticipates at least claims 1 and 6 of the '906 patent. *See Eolas Techs.*, 399 F.3d at 1335.

209. On information and belief, neither Dr. Kelly nor the third party ever relied on anything other than the plotting demo involving plot.v and vplot to prove anticipation by the ViolaWWW browser.

210. For example, on information and belief, Dr. Kelly never discussed clock.v during the trial in July and August 2003.

211. On information and belief, Doyle attended the trial involving the third party held in July and August 2003.

212. On information and belief, by the end of the trial in August 2003, Doyle knew about and understood the third party's contention that the plotting demo involving the ViolaWWW browser in DX37 anticipated the asserted claims of the '906 patent.

213. On information and belief, by the end of the trial in August 2003, Doyle knew about and understood Pei Wei's testimony that on May 31, 1993 — over one year before the application for the '906 patent was filed — he posted DX37 on a publicly-accessible Internet site and notified an engineer at Sun Microsystems that DX37 was available for downloading.

**B-7. During the 2003 reexamination of the '906 patent, Doyle concealed material information about the ViolaWWW plotting demo that Pei Wei and an expert had repeatedly contended anticipated the '906 patent**

214. On information and belief, on or about October 30, 2003, the Director of the Patent Office initiated a reexamination of the '906 patent. The control number for this reexamination was 90/006,831.

On information and belief, during the 2003 reexamination, Doyle withheld information about the ViolaWWW browser with the specific intent to deceive the Patent Office.

215. On information and belief, Doyle had a financial interest in the patentability of the claimed inventions in the ‘906 patent.

216. On information and belief, the ViolaWWW browser threatened the patentability of the claimed inventions in the ‘906 patent, and thus threatened Doyle’s financial interests.

217. On information and belief, Doyle and Krueger were personally involved in the 2003 reexamination of the ‘906 patent.

218. For example, on information and belief, on or about April 27, 2004, Doyle and Krueger participated in an examiner interview in an effort to confirm the patentability of the claims of the ‘906 patent application. Doyle gave the examiner a presentation supported by approximately 22 slides, none of which discussed DX37 or the ViolaWWW browser.

219. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview.

220. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. on or about May 6, 2004, Doyle signed a declaration that was submitted to the Patent Office in an effort to confirm the patentability of the claims of the ‘906 patent application. This declaration made no mention of DX37 or the ViolaWWW browser.

221. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. on or about August 18, 2005, Doyle and Krueger participated in an examiner interview in an effort to confirm the patentability of the claims of the ‘906 patent application. Doyle gave the examiner a presentation supported by approximately 36 slides, none of which discussed DX37 or the ViolaWWW browser.

222. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. during the 2003 reexamination, Doyle and Krueger submitted selected information from the litigation with the third party concerning the validity of the ‘906 patent, but he withheld information that would have identified for the examiner the key features of the prior art ViolaWWW browser and how they matched up to the asserted claims of the ‘906 patent. This proved critical during the 2003 reexamination because when the examiner decided to look at the source code for the ViolaWWW browser, he missed the key points.

223. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. on or about December 30, 2003, Doyle and Krueger submitted to the Patent Office a CD containing two compressed zip files, one for the “DX34” version of the ViolaWWW source code dated May 12, 1993, and the other for the “DX37” version of the ViolaWWW source code dated May 27, 1993.

224. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. the compressed zip file for DX34 that Doyle submitted to the Patent Office was named viola930512.tar.gz.zip. When unzipped, it contained 1,027 files in 35 folders consisting of 8 total megabytes in size.

225. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. the compressed zip file for DX37 that Doyle submitted to the Patent Office was named violaTOGO.tar.Z.zip. When unzipped, it contained 1,030 files in 34 folders consisting of 7.7 total megabytes in size.

226. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. DX34 and DX37 contained source code for the ViolaWWW browser.

227. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview.

228. Source code cannot be executed by a computer. Source code must be compiled into binary code before it can be executed by a computer.

229. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. without the compiled binary code, and without a suitable computer capable of executing that binary code (such as a Sun SPARCstation from the early 1990s), the Patent Office had no practical way to see the ViolaWWW browser in operation.

230. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. given the voluminous nature of the contents of DX34 and DX37, and the practical inability of the Patent Office to run the ViolaWWW browser on a computer, it was especially important for Doyle and Krueger to be candid with the Patent Office about the contents of DX34 and DX37 so that the Patent Office could focus on the relevant files.

231. On information and belief, neither Doyle nor Krueger mentioned the ViolaWWW browser during the interview. Doyle and Krueger were not candid and instead withheld material information that would have assisted the Patent Office in understanding the contents of DX34 and DX37.

232. On information and belief, Doyle and Krueger did not disclose the full contents of DX34 and DX37 in their entirety to the Patent Office during the first reexamination of the ‘906 patent.

233. On information and belief, the full contents of DX34 and DX37 were not submitted in their entirety until the Invention Disclosure Statement filed on November 1, 2006.

234. For example, on information and belief, during the 2003 reexamination, neither Doyle nor Krueger disclosed to the Patent Office the trial testimony of Pei Wei, who testified about the plotting demo in DX34 and DX37; Doyle did not disclose the trial testimony of Dr. Kelly, who testified that the plotting demo in DX34 and DX37 anticipated the asserted claims of the '906 patent; and Doyle did not disclose that Dr. Kelly specifically identified the VOBJF tag, the plot.v file, and the vplot executable application for purposes of his anticipation analysis.

235. On March 2, 2005 — while the 2003 reexamination was still pending — the Federal Circuit held that Dr. Kelly's testimony would allow a reasonable jury to conclude that DX37 anticipates at least claims 1 and 6 of the '906 patent. *Eolas Techs.*, 399 F.3d at 1335.

236. On information and belief, even after the Federal Circuit's decision, however, Doyle and Krueger still did not disclose Dr. Kelly's testimony to the Patent Office during the 2003 reexamination, nor did he disclose to the Patent Office that Dr. Kelly's anticipation analysis relied upon the VOBJF tag, the plot.v file, and the vplot executable application.

237. On information and belief, on or about September 27, 2005, the examiner issued a statement for reasons of patentability in which the examiner confirmed the patentability of claims 1–10 of the '906 patent.

238. On information and belief, the examiner's statement never discussed the plotting demo that Dr. Kelly had testified anticipated the asserted claims of the '906 patent.

239. On information and belief, when the examiner considered DX37, the examiner did not know where to look or what to look for. There were too many files in DX37 for the examiner to read himself. Thus the examiner was forced to resort to running text searches across all the files in DX37 in the hope of stumbling across relevant information.

240. On information and belief, the examiner used the "dtSearch" program to index and text search all DX37 files that contained textual content. *See* http://www.dtsearch.com/.

241. It is unclear what words the examiner searched for or how he came up with his search terms.

242. On information and belief, Doyle and/or Krueger knew precisely what to look for, but he never told the examiner. For example, if Doyle or Krueger had told the examiner to look for plot.v, the examiner's text searches would have quickly found the plotting demo that Dr. Kelly had testified anticipated the asserted claims of the '906 patent.

243. On information and belief, the examiner's text searches did not lead him to the plotting demo, but instead led him to a clock application that used the file clock.v.

244. On information and belief, the file clock.v is a script file that displays the image of a clock. The clock application does not involve any separate executable application. It just involves a webpage and the clock.v script file.

245. On information and belief, the examiner reasoned that a script file like clock.v does not satisfy the "executable application" requirement of the claims of the '906 patent, and thus the examiner concluded that DX37 does not anticipate the asserted claims of the '906 patent.

246. On information and belief, the ViolaWWW source code teaches two ways of creating interactive webpages using embedded applications. One way is by using a simple script file, such as clock.v. All that is required is a webpage (such as violaApps.hmml) and the script file (such as clock.v). No binary executable application is involved. The other way taught by the ViolaWWW source code does use a binary executable application (such as vplot) in addition to a webpage and a file that contains the object (such as plot.v). The examiner did not consider this

second way during the 2003 reexamination; he only considered the first way, and thus erroneously confirmed the patentability of the asserted claims of the '906 patent.

247. The examiner's reasons for patentability included the following statements:

> The Viola system uses "C-like" Viola scripts that must be INTERPRETED by the browser and then TRANSLATED or CONVERTED into binary native executable machine code that can be understood by the CPU. Alternately, the Viola script is precompiled into intermediate byte-code form and the byte-code is interpreted (i.e., translated) into binary native executable machine code at runtime. This extra step of translation results in an unavoidable performance penalty, as interpreted applications run much slower than compiled native binary executable applications.
>
> Accordingly, the "C-like" Viola scripts (or corresponding bytecode representations) are not "executable applications" . . . .

248. On information and belief, the examiner's reasoning overlooked the fact that the plotting demo in DX37 does use a separate executable application: vplot.

249. On information and belief, Doyle and Krueger knew that the plotting demo used a separate executable application, but Doyle did not bring this fact to the examiner's attention and instead allowed the examiner to confirm the patentability of the claims of the '906 patent on the basis of an incomplete understanding of DX37.

250. On information and belief, Doyle and Krueger knew that the plotting demo used a separate executable application for at least the following reasons:

a. The Viola paper dated August 16, 1994, which states "This next mini application front-ends a graphing process (on the same machine as the viola process)" and which shows the plot of a fighter jet in a window titled "XPlot.".

b. Pei Wei's message to Doyle on September 1, 1994, which included the following statements: "[A]s for the plotting demo, it actually is really just a front-end that fires up a back-end plotting program (and the point is that that back-end could

very well be running on a remote super computer instead of the localhost). For that demo, there is a simple protocol such that the frontend app could pass an X window ID to the back-end, and the back-end draws the graphics directly onto the window violaWWW has opened for it.".

c. The source code listed in the "Viola stuff" file included the file plotDemo.html, which states, "This is a demo of ViolaWWW embedding a viola front-ending object that is programmed to start up and communicate with a plot process. The front-end tells the plot program the window ID to draw to, and gives it the camera coordinate changes." When the file plotDemo.html is parsed, it shows the plot of a fighter jet in a window titled "XPlot."

d. Pei Wei's presentation at Stanford in September 1994, which included the following statements: "The next example is a front-end application to a backend. And the back-end is what actually does the computation and the drawing." Included with the presentation was a screenshot of the ViolaWWW browser after parsing the file plotDemo.html. The screenshot shows the plot of a fighter jet in a window titled "XPlot." The text in the webpage states, "This is a demo of ViolaWWW embedding a viola front-ending object that is programmed to start up and communicate with a plot process. The front-end tells the plot program the window ID to draw to, and gives it the camera coordinate changes."

e. The trial testimony of Pei Wei.

f. The expert opinion of Dr. Kelly.

251. On information and belief, Doyle's and Krueger's failure to tell the examiner about the vplot and plot.v files, and failure to disclose documents from the litigation that

identified how Dr. Kelly matched up the plotting demo in DX37 with the claims of the '906 patent, both alone and in combination with Doyle's and Krueger's prior failure to disclose the ViolaWWW browser during the original prosecution of the '906 patent, constituted a knowing and intentional violation of their duty of candor and good faith in dealing with the Patent Office.

252. On information and belief, the Patent Office would not have confirmed the patentability of the claims of the '906 patent that were the subject of the 2003 reexamination if Doyle and Krueger had not engaged in inequitable conduct and instead had fulfilled their duty of candor and good faith in dealing with the Patent Office.

**B-8. Doyle's inequitable conduct during the 2003 reexamination infected the 2005 reexamination**

253. On or about December 22, 2005, a third party filed a request to reexamine the '906 patent.

254. On or about February 9, 2006, the Patent Office granted the request to reexamine the '906 patent. The control number for this reexamination was 90/007,858.

255. On information and belief, Doyle had a financial interest in the patentability of the claimed inventions in the '906 patent.

256. On information and belief, the ViolaWWW browser threatened the patentability of the claimed inventions in the '906 patent, and thus threatened Doyle's financial interests.

257. On information and belief, Doyle and Krueger were personally involved in the 2005 reexamination of the '906 patent.

258. For example, on information and belief, on or about September 6, 2007, Doyle and Krueger participated in an examiner interview in an effort to confirm the patentability of the claims of the '906 patent application.

259. On information and belief, on or about October 1, 2007, Doyle and Krueger submitted a declaration to the Patent Office in an effort to establish an earlier date of invention for the claims of the ‘906 patent application.

260. On information and belief, on or about May 9, 2008, Doyle and Krueger participated in another examiner interview in an effort to confirm the patentability of the claims of the ‘906 patent application.

261. On information and belief, on or about June 3, 2008, Doyle and Krueger participated in another examiner interview in an effort to confirm the patentability of the claims of the ‘906 patent application.

262. On information and belief, Doyle’s and Krueger’s inequitable conduct during the 2003 reexamination infected the 2005 reexamination.

263. On information and belief, although Doyle and Krueger disclosed material information about the ViolaWWW browser to the Patent Office during the 2005 reexamination, by that time it was too late.

264. For example, on information and belief, Doyle and Krueger and/or disclosed the August 16, 1994 Viola paper to the Patent Office on or about August 21, 2006.

265. On information and belief, this was the first time Doyle or Krueger had disclosed the August 16, 1994 Viola paper to the Patent Office.

266. On information and belief, Doyle knew about the Viola paper no later than August 31, 1994, but Doyle waited over 10 years — and two prosecutions of the ‘906 patent — to disclose that paper to the Patent Office.

267. On information and belief, Krueger knew about the August 1994 Viola paper no later than August of 1998, but waited 8 years – and two prosecutions of the ’906 patent – to disclose that paper to the Patent Office.

268. On information and belief, shortly after Doyle and Krueger disclosed the August 16, 1994 Viola paper to the Patent Office during the 2005 reexamination, the Patent Office rejected all claims of the ‘906 patent.

269. In particular, on information and belief, on or about July 30, 2007, the Patent Office rejected all claims of the ‘906 patent as being anticipated by DX95, which includes a copy of the text found in Pei Wei’s August 16, 1994 Viola paper.

270. On information and belief, the rejection based on the Viola paper dated August 16, 1994, confirms that the ViolaWWW browser was material prior art.

271. On information and belief, Doyle and Krueger did not respond to the merits of the rejection based on the August 16, 1994 Viola paper. Instead Doyle and Krueger filed a declaration asserting that Doyle’s date of invention was before August 16, 1994.

272. On information and belief, on response to Doyle’s declaration, the examiner withdrew the rejection based on the August 16, 1994 Viola paper .

273. On information and belief, the 2005 examiner could have entered a new rejection based on DX37, which was a printed publication before the alleged conception of the inventions claimed in the ‘906 patent, but the 2005 examiner did not independently examine DX37 because the 2003 examiner had already concluded that DX37 did not invalidate the asserted claims of the ‘906 patent.

274. On information and belief, the conclusions about DX37 reached in the 2003 reexamination were erroneous due to Doyle's and Krueger's inequitable conduct during that reexamination.

275. On information and belief, Doyle's and Krueger's inequitable conduct during the 2003 reexamination infected the 2005 reexamination.

## C. DOYLE SUBMITTED FALSE STATEMENTS ABOUT THE SECONDARY CONSIDERATIONS OF NON-OBVIOUSNESS

276. On information and belief, during the original prosecution of the '906 patent, Doyle submitted a declaration to the Patent Office containing false and misleading statements in an effort to obtain allowance of the claims.

277. On information and belief, on or about June 2, 1997, Doyle submitted to the Patent Office a sworn declaration executed on or about May 27, 1997, for the purpose of overcoming the examiner's rejection on March 26, 1997.

278. On page 12 of the declaration, Doyle asserted that his claimed invention would not have been obvious over the cited prior art in view of "secondary considerations, including, in part, commercial success of products incorporating features of the claimed invention and industry recognition of the innovative nature of these products."

279. On information and belief, in support of his assertion, Doyle declared to the Patent Office that Sun Microsystems and Netscape had incorporated his invention into their Java software and Navigator Web browser, respectively. He stated: "Approximately 12 to 18 months after the applicants initially demonstrated the first Web plug-in and applet technology to the founders of Netscape and engineers employed by Sun Microsystems in November and December of 1993, as described in reference #4 from Appendix A (Dr. Dobb's Journal, 2/96), both

Netscape and Sun released software products that incorporated features of the claimed invention . . . ."

280. On information and belief, this statement was false. Neither Doyle nor any of the other named inventors of the '906 patent demonstrated Web plug-in technology to any of the founders of Netscape in November or December of 1993.

281. On information and belief, when Doyle made these statements under oath, he also did not know whether any engineer employed by Sun Microsystems ever saw any of his demonstrations in November or December of 1993.

282. On information and belief, Doyle made these same false assertions in slides that he prepared and presented to the examiner in a personal interview on or about February 24, 1997. On a slide entitled "Relevant History of DHOE" (Doyle's name for his invention), Doyle included as a bullet point: "1993 Demos to Sun & Netscape's Founders."

283. On information and belief, Doyle's false statements in his declaration were material to the patentability of the pending claims. These statements purported to provide evidence of copying by others and thus objective evidence of nonobviousness, a factor to be considered in determining whether an alleged invention is patentable over the prior art. Without these false assertions, Doyle had no support for his argument that Netscape and Sun copied his alleged invention or that his technology was responsible for their commercial success.

284. On information and belief, by making these false statements under oath to the Patent Office, Doyle intended to mislead the Patent Office to believe that responsible persons at Netscape and Sun saw his alleged invention, appreciated its supposed merits, and therefore incorporated it into the Navigator browser and Java. Moreover, by making these false

statements, Doyle was trying to convince the Patent Office that the Netscape and Sun products succeeded because they incorporated his alleged invention.

285. On information and belief, Doyle's submission of false statements under oath in his declaration to the Patent Office constituted a knowing and intentional violation of his duty of candor and good faith in dealing with the Patent Office.

**D. UNENFORCEABILITY OF U.S. PATENT NO. 7,599,985**

286. Because Doyle and Krueger committed inequitable conduct during prosecution reexamination of the '906 patent (reexamination application number 90/006,831), every claim of the '906 patent is unenforceable in its entirety. The inequitable conduct also renders unenforceable all claims that issue as a result of any reissue and reexamination proceedings, including claims that issued from the reexaminations of the '906 patent (reexamination application numbers 90/006,831 and 90/007,858).

287. The '985 patent is likewise unenforceable in its entirety due to Doyle's and Krueger's inequitable conduct during the prosecution of the application that the issued as the '906 patent and Doyle's and Krueger's inequitable conduct during the first reexamination of the '906 patent (reexamination application number 90/006,831).

288. The application that matured into the '985 patent was filed on August 9, 2002.

289. The application number for the '985 patent was 10/217,955. This application was a continuation of a continuation of the application that had matured into the '906 patent.

290. On information and belief, Eolas had and still has rights to the patent application that matured into the '985 patent.

291. On information and belief, Doyle and Krueger were personally involved in the prosecution of the '985 patent at the same time that he had a financial interest in Eolas.

292. On information and belief, Doyle and Krueger knew that Eolas could assert the '985 patent in litigation to seek substantial settlements and/or damage awards, and thus the prosecution of the '985 patent was relevant to Doyle's and Krueger's financial interest in Eolas.

293. On information and belief, Doyle and his co-inventors are entitled to receive a portion of any royalties paid to The Regents of the University of California related to the '985 patent, and for this reason as well the prosecution of the '985 patent was relevant to Doyle's financial interests.

294. On information and belief, the claims at issue during prosecution of the '985 patent were similar to the claims at issue during the reexaminations of the '906 patent.

295. On information and belief, the information that Doyle and Krueger withheld during prosecution of the '906 patent was material to the patentability of the claims at issue during prosecution of the '985 patent for the same reasons previously stated.

296. On information and belief, as a result of the similarity between the claims at issue during prosecution of the '985 patent, and the claims of the '906 patent, the Patent Office issued a "double patenting" rejection during prosecution of the '985 patent. The rejection was issued on or about July 20, 2004.

297. On information and belief, to overcome the "double patenting" rejection during prosecution of the '985 patent, a terminal disclaimer was filed on or about March 7, 2005. As a result of the terminal disclaimer, the '985 patent may be in force up until November 17, 2015, the date on which the '906 patent will expire.

298. On information and belief, for at least this reason, Doyle's and Krueger's inequitable conduct during the prosecution of the '906 patent infected the prosecution of the '985 patent.

299. On information and belief, on or about May 5, 2005, the Patent Office suspended prosecution of the ‘985 patent in light of the 2003 reexamination of the ‘906 patent. The Patent Office determined that the outcome of the 2003 reexamination had a material bearing on the patentability of the claims at issue during prosecution of the ‘985 patent.

300. On information and belief, for at least this reason, Doyle’s and Krueger’s inequitable conduct during the 2003 reexamination of the ‘906 patent infected the prosecution of the ‘985 patent.

301. On information and belief, on or about January 18, 2006, the Patent Office suspended prosecution of the ‘985 patent in light of the 2005 reexamination of the ‘906 patent. The Patent Office determined that the outcome of the 2005 reexamination had a material bearing on the patentability of the claims at issue during prosecution of the ‘985 patent.

302. On information and belief, for at least this reason, Doyle’s and Krueger’s inequitable conduct during the 2005 reexamination of the ‘906 patent infected the prosecution of the ‘985 patent.

303. On information and belief, n or about April 11, 2008, the claims at issue during prosecution of the ‘985 patent were amended to claim substantially the same subject matter claimed in the ‘906 patent.

304. Accordingly, on information and belief, the Patent Office did not undertake a separate substantive examination of the patentability of the claims in the ‘985 patent. Instead, the Patent Office simply applied the results of the prosecution of the ‘906 patent (including the results of the two reexaminations of the ‘906 patent) to the ‘985 patent.

305. On information and belief, for at least this reason, Doyle's and Krueger's inequitable conduct during the prosecution and reexaminations of the '906 patent infected the prosecution of the '985 patent.

306. On information and belief, on or about November 13, 2008, a request was filed to lift the stay on the prosecution of the '985 patent in light of the completion of the 2005 reexamination of the '906 patent.

307. On information and belief, on or about March 20, 2009, the Patent Office allowed the claims in the '985 patent for the same reasons set forth by the Patent Office during the reexaminations of the '906 patent.

308. The examiner's reasons for allowance patent included the following statement: "[T]he claims [of the '985 patent] are allowable as the claims contain the subject matter deemed allowable in both Re exam 90/006,831 [the 2003 reexamination of the '906 patent] and Re exam 90/007,838 [the 2005 reexamination of the '906 patent] for the same reasons as set forth in the NIRC of the two Re exams."

309. On information and belief, the examiner's reasons for allowance of the '985 patent confirm that Doyle's and Krueger's inequitable conduct during the prosecution and reexaminations of the '906 patent infected the prosecution of the '985 patent.

310. Eolas filed the complaint in this action on October 6, 2009, the same day that the '985 patent issued.

**E. CONCLUSION**

311. As a result of Doyle's and Krueger's pattern of inequitable conduct, Eolas came to this Court with unclean hands.

312. As a result of Doyle's and Krueger's inequitable conduct, and the unclean hands of Eolas, the '906 and '985 patents are unenforceable.

313. A judicial determination of the respective rights of the parties with respect to the unenforceability of the claims of the '906 and '985 patents is now necessary and appropriate under 28 U.S.C. § 2201.

## DEMAND FOR JURY TRIAL

Google hereby demands a trial by jury of all issues so triable in this action.

## PRAYER FOR RELIEF

WHEREFORE, Google prays for judgment as follows:

a. A judgment dismissing Eolas' Complaint against Google with prejudice;

b. A declaration that Google has not infringed, contributed to the infringement of, or induced others to infringe, either directly or indirectly, any valid and enforceable claims of the asserted patents;

c. A declaration that each and every claim of the asserted patents are invalid;

d. A declaration that Eolas' claims are barred by the doctrines of laches, equitable estoppel, and/or waiver.

e. A declaration that each and every claim of the asserted patents are unenforceable.

f. A declaration that this case is exceptional and an award to Google of its reasonable costs and expenses of litigation, including attorneys' fees and expert witness fees;

g. A judgment limiting or barring Eolas' ability to enforce the asserted patents in equity;

h. Such other and further relief as this Court may deem just and proper.

Dated: July 29, 2011

Respectfully submitted,

By: */s/ Michael E. Jones* _____

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## CERTIFICATE OF SERVICE

The undersigned hereby certifies that counsel of record who are deemed to have consented to electronic service are being served with a copy of this **ANSWER AND COUNTERCLAIMS OF DEFENDANT GOOGLE INC. TO PLAINTIFF'S SECOND AMENDED COMPLAINT FOR PATENT INFRINGEMENT** via the Court's CM/ECF system per Local Rule CV-5(a)(3) on this the 29th day of July 2011. Any other counsel of record will be served via First Class U.S. Mail on this same date.

*/s/ Michael E. Jones*
Michael E. Jones