

EXHIBIT E

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Doyle et al.

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(54) **DISTRIBUTED HYPERMEDIA METHOD FOR AUTOMATICALLY INVOKING EXTERNAL APPLICATION PROVIDING INTERACTION AND DISPLAY OF EMBEDDED OBJECTS WITHIN A HYPERMEDIA DOCUMENT**

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(57) ABSTRACT

A system allowing a user of a browser program on a computer connected to an open distributed hypermedia system to access and execute an embedded program object. The program object is embedded into a hypermedia document much like data objects. The user may select the program object from the screen. Once selected the program object executes on the user's (client) computer or may execute on a remote server or additional remote computers in a distributed processing arrangement. After launching the program object, the user is able to interact with the object as the invention provides for ongoing interprocess communication between the application object (program) and the browser program. One application of the embedded program object allows a user to view large and complex multi-dimensional objects from within the browser's window. The user can manipulate a control panel to change the viewpoint used to view the image. The invention allows a program to execute on a remote server or other computers to calculate the viewing transformations and send frame data to the client computer thus providing the user of the client computer with interactive features and allowing the user to have access to greater computing power than may be available at the user's client computer.

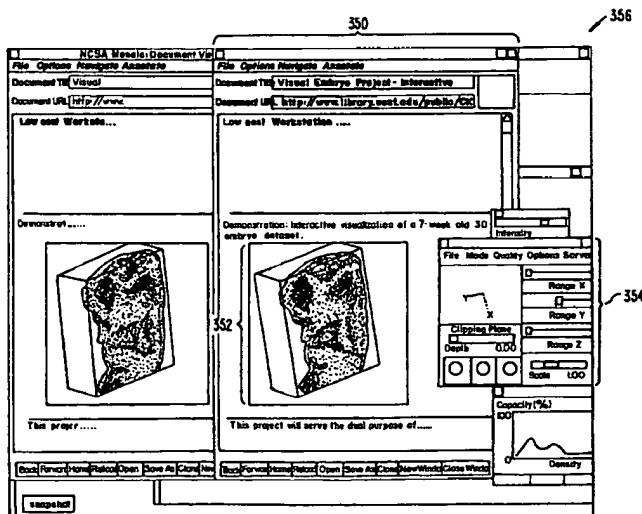
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- (58) **Field of Classification Search** None
 See application file for complete search history.

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EX PARTE
REEXAMINATION CERTIFICATE
ISSUED UNDER 35 U.S.C. 307

THE PATENT IS HEREBY AMENDED AS
INDICATED BELOW.

Matter enclosed in heavy brackets [] appeared in the patent, but has been deleted and is no longer a part of the patent; matter printed in italics indicates additions made to the patent.

AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

Claims 1, 4, 5, 6, 9 and 10 are determined to be patentable as amended.

Claims 2, 3, 7 and 8, dependent on an amended claim, are determined to be patentable.

New claims 11-14 are added and determined to be patentable.

1. A method for running an application program in a computer network environment, comprising:

providing at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment;

executing, at said client workstation, a browser application, that parses a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats; utilizing said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document, and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object and enable [interactive processing of] *an end-user to directly interact with* said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window.

4. [The] A method [of claim 3.] for running an application program in a computer network environment, comprising:

providing at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment;

executing, at said client workstation, a browser application, that parses a first distributed hypermedia

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document to identify text formats included in said distributed hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats; utilizing said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document, and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object and enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window;

wherein said executable application is a controllable application and further comprising the step of: interactively controlling said controllable application on said client workstation via inter-process communications between said browser and said controllable application;

wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched; and

wherein additional instructions for controlling said controllable application reside on said network server, wherein said step of interactively controlling said controllable application includes the following substeps: issuing, from the client workstation, one or more commands to the network server; executing, on the network server, one or more instructions in response to said commands; sending information from said network server to said client workstation in response to said executed instructions; and processing said information at the client workstation to interactively control said controllable application.

5. [The] A method [of claim 4.] for running an application program in a computer network environment, comprising:

providing at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment;

executing, at said client workstation, a browser application, that parses a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and for responding to predetermined text formats to initiate processing specified by said text formats; utilizing said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first

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hypermedia document is displayed within a first browser-controlled window on said client workstation, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document, and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object and enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window;

wherein said executable application is a controllable application and further comprising the step of: interactively controlling said controllable application on said client workstation via inter-process communications between said browser and said controllable application;

wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched;

wherein additional instructions for controlling said controllable application reside on said network server, wherein said step of interactively controlling said controllable application includes the following substeps: issuing, from the client workstation, one or more commands to the network server; executing, on the network server, one or more instructions in response to said commands; sending information from said network server to said client workstation in response to said executed instructions; and processing said information at the client workstation to interactively control said controllable application; and

wherein said additional instructions for controlling said controllable application reside on said client workstation.

6. A computer program product for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment, the computer program product comprising:

a computer usable medium having computer readable program code physically embodied therein, said computer program product further comprising:

computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified by said text formats;

computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hyper-

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media document is displayed within a first browser-controlled window on said client workstation, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document, and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object and enable [interactive processing of] an end-user to directly interact with said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window.

9. [The] A computer program product [of claim 8.] for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment, the computer program product comprising:

a computer usable medium having computer readable program code physically embodied therein, said computer program product further comprising:

computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified by said text formats;

computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document, and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object and enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window;

wherein said executable application is a controllable application and further comprising:

computer readable program code for causing said client workstation to interactively control said controllable application of said client workstation via inter-process communications between said browser and said controllable application;

wherein the communications to interactively control said controllable application continue to be exchanged

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between the controllable application and the browser even after the controllable application program has been launched; and

wherein additional instructions for controlling said controllable application reside on said network server, wherein said [step of interactively controlling said controllable application] *computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation* includes:

computer readable program code for causing said client workstation to issue, from the client workstation, one or more commands to the network server;

computer readable program code for causing said network server to execute one or more instructions in response to said commands;

computer readable program code for causing said network [server] *server* to send information to said client workstation in response to said executed instructions; and

computer readable program code for causing said client workstation to process said information at the client workstation to interactively control said controllable application.

10. [The] *A computer program product [of claim 9.] for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment, the computer program product comprising:*

a computer usable medium having computer readable program code physically embodied therein, said computer program product further comprising:

computer readable program code for causing said client workstation to execute a browser application to parse a first distributed hypermedia document to identify text formats included in said distributed hypermedia document and to respond to predetermined text formats to initiate processes specified by said text formats;

computer readable program code for causing said client workstation to utilize said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said network from said server, wherein the portion of said first hypermedia document is displayed within a first browser-controlled window on said client workstation, wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, that specifies the location of at least a portion of an object external to the first distributed hypermedia document, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document, and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on said client workstation in order to display said object and enable interactive processing of said object within a display area created at said first location within the portion of said first distributed hypermedia document being displayed in said first browser-controlled window;

wherein said executable application is a controllable application and further comprising:

computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation via inter-process communications between said browser and said controllable application;

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wherein the communications to interactively control said controllable application continue to be exchanged between the controllable application and the browser even after the controllable application program has been launched;

wherein additional instructions for controlling said controllable application reside on said network server, wherein said computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation includes:

computer readable program code for causing said client workstation to issue, from the client workstation, one or more commands to the network server;

computer readable program code for causing said network server to execute one or more instructions in response to said commands;

computer readable program code for causing said network server to send information to said client workstation in response to said executed instructions; and

computer readable program code for causing said client workstation to process said information at the client workstation to interactively control said controllable application; and

wherein said additional instructions for controlling said controllable application reside on said client workstation.

11. *The method of claim 3, wherein additional instructions for controlling said controllable application reside on said network server, wherein said step of interactively controlling said controllable application includes the following substeps:*

issuing, from the client workstation, one or more commands to the network server;

executing, on the network server, one or more instructions in response to said commands;

sending information from said network server to said client workstation in response to said executed instructions; and processing said information at the client workstation to interactively control said controllable application.

12. *The method of claim 11, wherein said additional instructions for controlling said controllable application reside on said client workstation.*

13. *The computer program product of claim 8, wherein additional instructions for controlling said controllable application reside on said network server, wherein said computer readable program code for causing said client workstation to interactively control said controllable application on said client workstation includes:*

computer readable program code for causing said client workstation to issue from the client workstation, one or more commands to the network server;

computer readable program code for causing said network server to execute one or more instructions in response to said commands;

computer readable program code for causing said network server to send information to said client workstation in response to said executed instructions; and

computer readable program code for causing said client workstation to process said information at the client workstation to interactively control said controllable application.

14. *The computer program product of claim 13, wherein said additional instructions for controlling said controllable application reside on said client workstation.*



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
90/007,858	12/22/2005	5838906	6620-66570-01	4371

30080 7590 09/10/2008

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EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 09/10/2008

Please find below and/or attached an Office communication concerning this application or proceeding.



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(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

STEPHEN A. WRIGHT
KLARQUIST SPARKMAN LLP
121 SW SALMON STREET, SUITE 1600
PORTLAND, OR 97204

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. 90/007,858.

PATENT NO. 5838906.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

**Notice of Intent to Issue
Ex Parte Reexamination Certificate**

Control No. 90/007,858	Patent Under Reexamination 5838906	
Examiner JOSEPH R. POKRZYWA	Art Unit 3992	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. Prosecution on the merits is (or remains) closed in this *ex parte* reexamination proceeding. This proceeding is subject to reopening at the initiative of the Office or upon petition. Cf. 37 CFR 1.313(a). A Certificate will be issued in view of
 - (a) Patent owner's communication(s) filed: 23 June 2008.
 - (b) Patent owner's late response filed: _____.
 - (c) Patent owner's failure to file an appropriate response to the Office action mailed: _____.
 - (d) Patent owner's failure to timely file an Appeal Brief (37 CFR 41.31).
 - (e) Other: _____.

Status of *Ex Parte* Reexamination:

 - (f) Change in the Specification: Yes No
 - (g) Change in the Drawing(s): Yes No
 - (h) Status of the Claim(s):
 - (1) Patent claim(s) confirmed: _____.
 - (2) Patent claim(s) amended (including dependent on amended claim(s)): 1-10
 - (3) Patent claim(s) cancelled: _____.
 - (4) Newly presented claim(s) patentable: 11-14.
 - (5) Newly presented cancelled claims: _____.
2. Note the attached statement of reasons for patentability and/or confirmation. Any comments considered necessary by patent owner regarding reasons for patentability and/or confirmation must be submitted promptly to avoid processing delays. Such submission(s) should be labeled: "Comments On Statement of Reasons for Patentability and/or Confirmation."
3. Note attached NOTICE OF REFERENCES CITED (PTO-892).
4. Note attached LIST OF REFERENCES CITED (PTO/SB/08).
5. The drawing correction request filed on _____ is: approved disapproved.
6. Acknowledgment is made of the priority claim under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the certified copies have
 - been received.
 - not been received.
 - been filed in Application No. _____.
 - been filed in reexamination Control No. _____.
 - been received by the International Bureau in PCT Application No. _____.

* Certified copies not received: _____.
7. Note attached Examiner's Amendment.
8. Note attached Interview Summary (PTO-474).
9. Other: _____.

cc: Requester (if third party requester)
U.S. Patent and Trademark Office
PTOL-469 (Rev.08-06)

DETAILED ACTION

Response to Amendment

1. Patent Owner's amendment was received on 6/23/08, and has been entered and made of record. The examiner notes that claims 1-10 originally issued in U.S. Patent Number 5,838,906 (hereafter "the '906 Patent"). With the current amendment dated 6/23/08, claims 1, 4, 5, 6, 9, and 10 were amended and claims 11-14 were newly added. Thus, currently, claims 1-14 are pending, and are the subject of the current reexamination proceeding.

Brief Summary of the Instant Proceedings

2. Within the current reexamination proceeding, an Office action dated 7/30/07 rejected claims 1-10 with the references of "A Brief Overview of the VIOLA Engine, and it's applications", written by Pei Wei, noted as "Viola", and rejected claims 1-3 and 6-8 with the reference of Cohen *et al.* (U.S. Patent Number 5,367,621, noted as "Cohen"), when viewed with "Introducing NCSA Mosaic" (noted as "NCSA Mosaic").

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3. Subsequently, the Patent Owner submitted a Declaration under 37 CFR 1.131 on 10/1/07, which establishes the invention prior to August 16, 1994, being the date utilized as the publication date of the previously cited Viola reference. With that, in the Office action dated 4/18/08, the examiner withdrew the rejection of claims 1-10 as being anticipated by the Viola reference, but maintained the rejection of claims 1-3 and 6-8 as being unpatentable over Cohen in view of NCSA Mosaic. Finally, the Patent Owner submitted the current amendment dated 6/23/08, which amends claims 1 and 6, and places the noted patentable claims 4, 5, 9, and 10 in independent form.

STATEMENT OF REASONS FOR PATENTABILITY AND/OR CONFIRMATION

The following is an examiner's statement of reasons for patentability and/or confirmation of the claims found patentable in this reexamination proceeding:

Claims 1-14 are deemed as patentable, as amended.

With the amendment dated 6/23/08, *claims 1, 4, 5, 6, 9, and 10* are independent.

With respect to independent *claims 1 and 6*, in the examiner's opinion, based on the prior art of record, it would not have been obvious to have the system, as claimed, include the features of an embed text format being parsed by the browser to automatically invoke the executable

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application to execute on the client workstation in order to display the object and enable an end-user to directly interact with the object within a display area created at the first location within the portion of the hypermedia document within the browser controlled window. The examiner notes that the closest prior art, Cohen (U.S. Patent Number 5,367,621), utilizes the IBM BookManager system, whereby Cohen teaches of the AUTOLAUNCH function, which automatically launches an object, whereby the system can automatically invoke multimedia objects, such as “photographic quality graphics, motion video, or sound”, as read in col. 2, lines 50-66.

However, Cohen does not specifically disclose the feature of allowing an end-user to directly interact with the object within the display area of the browser window after the object is automatically invoked. Cohen shows that the graphic 190', as seen in Fig. 4b is automatically invoked. However, there is no indication that an end-user can directly interact with this graphic. Further, the specification of Cohen discusses inserting an audio object “eleph_sound.Audio 1 – Elephant's trumpet” and a movie object “eleph_movie.Motion Picture of African Elephant family”, as seen in Fig. 1b. But these examples are not automatically invoked using the AUTOLAUNCH function, and if they would be set to AUTOLAUNCH, there is no indication in Cohen that would provide the function allowing the end-user to directly interact with the automatically invoked object.

As noted in the specification of the '906 Patent in col. 7, lines 12-15 “Also, the user is able to rotate, scale and otherwise reposition the viewpoint with respect to these images without

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exiting the hypermedia browser software.” There is no indication in Cohen that the BookManager READ program allows the end-user to perform this direct interaction of the object once the multimedia is launched automatically. Further, the examiner can find no other teaching in the prior art of record that would motivate one of ordinary skill in the art to modify the Cohen teachings so as to allow the end-user to directly interact with the automatically invoked object. Therefore, because of this feature that was added in the amendment dated 6/23/08, the invention defined in claims 1 and 6 is rendered as patentable.

With respect to independent *claims 4, 5, 9, and 10*, the examiner believes that it would not have been obvious to one of ordinary skill in the art at the time of the invention to have the method and computer program product, as claimed, further include the features of issuing one or more commands to the network server from the client workstation, executing the one or more instructions on the network server, and sending the information from the network server to the client workstation in response to the executed instructions, and processing the information at the client workstation to interactively control the application.

As discussed above, the prior art of Cohen can be interpreted as teaching of a system that includes an embed text format that specifies a location of at least a portion of the object external to a hypermedia document, which is further utilized to identify and locate an executable application that is external to the hypermedia document. However, Cohen does not explicitly teach if the external application is located at a server, whereby the instructions would be executed at the server, with the client workstation and server performing the process defined in

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claims 4 and 9, respectively. Further, the examiner can find no other teaching that would motivate one of ordinary skill in the art to modify the Cohen teachings so perform these features. Therefore, because of these features, the invention defined in now independent claims 4, 5, 9, and 10 is rendered as patentable.

Any comments considered necessary by PATENT OWNER regarding the above statement must be submitted promptly to avoid processing delays. Such submission by the patent owner should be labeled: "Comments on Statement of Reasons for Patentability and/or Confirmation" and will be placed in the reexamination file.

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Conclusion

4. ALL correspondence relating to this ex parte reexamination proceeding should be directed as follows:

Please mail any communications to:

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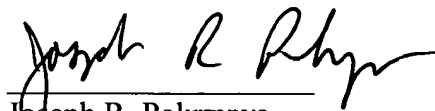
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Any inquiry concerning this communication or earlier communications from the Reexamination Legal Advisor or Examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

Signed:



Joseph R. Pokrzywa
Primary Patent Examiner
Central Reexamination Unit 3992
(571) 272-7410

Conferees :

ESK

RGF