CLAIM CHART EXHIBIT 8 "MOSAIC"

INVALIDITY CLAIM CHART FOR U.S. PATENT NO. 5,838,906

BASED ON "NCSA MOSAIC FOR X 2.0 AVAILABLE", WWW-TALK, OCT-DEC, 1993 [PA-00292659] [ANDREESSEN93A], NCSA MOSAIC TECHNICAL SUMMARY [PA-00292824] [ANDREESSEN 93B], NCSA COLLAGE FOR THE MACINTOSH VERSION 1.0,
OCTOBER 1992 [PA-00292677] [COLLAGE92], MOSAIC SOFTWARE INCLUDING THE CODEBASES FOUND AT [PA-NAT-00000044] – [PA-NAT-00000046], AND MY PERSONAL EXPERIENCE WITH THE MOSAIC BROWSER., ("MOSAIC"). SEE ALSO BINA EXS. 4 AND 7. THE BODY OF MY REPORT HAS A NARRATIVE DESCRIPTION THAT AUGMENTS AND SHOULD BE CONSIDERED PART OF THIS CHART, AND VISE-VERSA FOR THIS AND ALL MY CHARTS.

Claim Text from '906 Patent	Mosaic
906-1.a:	Mosaic discloses an application program. See, e.g., :
A method for running an application program in a	
computer network environment, comprising:	Compilation of code from the archive:
	file://tip.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.5.tar.Z produced an application program.
	Other examples of prior art Mosaic distributions that operated as
	application programs include the Mosaic Source Code identified above.
	Mosaic discloses a computer network environment. See, e.g., :
	From [Andreessen93b]," NCSA Mosaic provides extensive distributed
	hypermedia capabilities that take advantage of the information base on the global Internet."
906-1.b:	Mosaic discloses a client workstation. See, e.g., :
providing at least one client workstation and one	
network server coupled to said network	From [Andreessen93a], Mosaic was supported on the following client
environment, wherein said network environment is	workstations:
a distributed hypermedia environment;	SGI (IRIX 4.0.2)
	IBM (AIX 3.2)
	Sun 4 (SunOS 4.1.2 with stock X11R4 and Motif 1.1

Claim Text from '906 Patent	Mosaic
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag.
906-1.d: 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,	 Mosaic discloses that a hypermedia document is received from the server. <i>See, e.g.</i>, : From [Andreessen93b], "NCSA Mosaic provides extensive distributed hypermedia capabilities that take advantage of the information base on the global Internet." See above. Mosaic discloses that the browser displays a hypermedia document. <i>See, e.g.</i>, :
	From [Andreessen93b], "NCSA Mosaic provides extensive distributed hypermedia capabilities that take advantage of the information base on the global Internet."
906-1.e : wherein the portion of said first hypermedia document is displayed within a first browser- controlled window on said client workstation,	Mosaic discloses that a hypermedia document is displayed in a browser window. See, e.g., : From [Andreessen93b], "A screen snapshot of NCSA Mosaic for X viewing the Mosaic home page _ the document that is retrieved and displayed when Mosaic is launched_ is in Figure 1." The figure is shown here:

Claim Text from '906 Patent	Mosaic
	NCSA Mosaic: Document View
	File <u>N</u> avigate Options Annotate Documents <u>M</u> anuals <u>H</u> elp
	Document Title: NCSA Mosaic Home Page
	NCSA Mosaic Home Page
	Welcome to <u>NCSA</u> 's <u>Mosaic</u> , a networked information browser and <u>World Wide</u> <u>Web</u> client. Each highlighted phrase (in color and/or underlined) is a hyperlink to
	another document. Single click on the <u>highlighted phrase</u> to follow the link.
	If you are unfamiliar with the World Wide Web and associated Internet-based
	networked information sources, you may initially wish to explore some of the information resources available through the menubar. Also feel free to explore
	the current Mosaic demo document.
	NCSA Mosaic has online hypertext documentation; also see the list of Frequently
	Asked Questions.
	Current Version Is 1.0!
	Please note that the current released version of NCSA Mosaic is version 1.0. If
	you are running an <u>earlier version</u> , please upgrade. (The Mosaic distribution directory is here.)
	Comments or Problems
	If you have problems or comments concerning NCSA Mosaic, please first read
	Search Keyword:
	Back Forward Home Reload Open Save As Clone New Window Close Window
906-1.1 :	Mosaic discloses an embed text format at a first location in a hypermedia
wherein said first distributed hypermedia	document. See, e.g., :
document includes an embed text format, located	
at a first location in said first distributed	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap
hypermedia document, that specifies the location	(XBM) and GIF image formats directly (an example can be seen in Figure
of at least a portion of an object external to the first	5) and provides interfaces to external viewers to handle other multimedia

Claim Text from '906 Patent	Mosaic
distributed hypermedia document,	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. In Mosaic, HTML tags were at a first location in a hypermedia document. Text and objects were rendered in the browser window based on the order in which corresponding tags were parsed, so objects associated with the img tag were placed at the first location.
	Mosaic discloses that the embed text format specifies the location of an object. <i>See, e.g.</i> , :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. In HTML, one specified an object using the img tag by specifying its filepath location. Other text formats point to hypermedia objects that cause the invocation of an external helper program.
	Mosaic discloses an object that is external to a hypermedia document. <i>See, e.g.</i> , :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating

Claim Text from '906 Patent	Mosaic
	 these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. The object is external to the hypermedia document because it can be located at a filepath location separate from the location of the hypermedia document. Other text formats point to hypermedia objects that are external to the hypermedia document and that cause the invocation of an external helper program.
906-1.g:	Mosaic discloses that the object has associated type information. See, e.g., :
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	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program. All objects have a specific MIME type. [Andreessen93b]
	Mosaic discloses that the browser uses type information to identify and locate an executable application. <i>See, e.g.</i> , :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the

Claim Text from '906 Patent	Mosaic
	browser file and that cause the invocation of an external helper program. The MIME type of the object is used to locate an appropriate executable application. [Andreessen93b]
	Mosaic discloses that the executable application is external to the hypermedia document. <i>See, e.g.</i> , :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program, such as programs for handling MPEG or PostScript. The MIME type of the object is used to locate an appropriate executable application. All such applications are external to the hypermedia document. [Andreessen93b]
906-1.h:	Mosaic discloses that the browser parses the embed text format. See, e.g., :
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 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.	 From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Regarding automatic invocation of the executable application :

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	(XBM) and GIF image formats directly (an example can be seen in Figure
	5) and provides interfaces to external viewers to handle other multimedia
	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and
	several types of audio)." Mosaic parses a file to discover tags indicating
	these media types and invokes appropriate external viewers. Media of type
	XBM and GIF are embedded inline by the HTML img tag, a text format.
	Other text formats point to hypermedia objects that are external to the
	The MIME type of the object is used to locate an appropriate executable
	application. Helper applications display the hypermedia object and are
	invoked by the user not automatically
	Mosaic discloses that the executable application displays the object. See, e.g., :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap
	(XBM) and GIF image formats directly (an example can be seen in Figure
	5) and provides interfaces to external viewers to handle other multimedia
	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and
	several types of audio). Mosaic parses a file to discover tags indicating
	XBM and GIE are embedded inline by the HTML imp tag, a text format
	Other text formats point to hypermedia objects that are external to the
	browser file and that cause the invocation of an external helper program
	The MIME type of the object is used to locate an appropriate executable
	application, such as programs for handling MPEG or PostScript. Helper
	applications display the hypermedia object. [Andreessen93b]
	Mosaic discloses that the executable application enables direct interaction with
	the object. See, e.g., :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap
	(XBM) and GIF image formats directly (an example can be seen in Figure

Claim Text from '906 Patent	Mosaic
	 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program. The MIME type of the object is used to locate an appropriate executable application, such as programs for handling MPEG or PostScript. [Andreessen93b] Helper applications display the hypermedia object and enable direct interaction with the hypermedia object. Regarding interaction with the object at a first location in the hypermedia document : Interaction with the hypermedia object is achieved through the helper
	application control panel and its window.
900-2.a ? The method of claim 1, 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.	 Mosaic discloses interactive control via inter-process communications between a browser and an application. See, e.g., : As one example, interprocess communication is used to launch helper applications after they are invoked by a user interaction. Also, from [Collage92], the Collage application is described by: "in a networked environment, this tool provides the capability to distribute most of these data analysis and visualization functions synchronously among a number of users. This is the foundation for the collaborative aspects of this tool's functionality." Interprocess communication facilitates communication between the browser and the Collage application. From [Andreessen93b], Mosaic interoperated with Collage.
906-3.a:	Mosaic discloses ongoing inter-process communications. See, e.g., :

Claim Text from '906 Patent	Mosaic
The method of claim 2, wherein the	
communications to interactively control said	From [Collage92], the Collage application is described by: "in a
controllable application continue to be exchanged	networked environment, this tool provides the capability to distribute most
between the controllable application and the	of these data analysis and visualization functions synchronously among a
browser even after the controllable application	number of users. This is the foundation for the collaborative aspects of this
program has been launched.	tool's functionality." Interprocess communication facilitates
	communication between the browser and the Collage application. Once
	communication is established it is ongoing.
	From [Andreessen93b], Mosaic interoperated with Collage.
906-6.a:	Mosaic discloses an application program in a computer network environment.
A computer program product for use in a system	See evidence recited for 906-1.a.
having at least one client workstation and one	
network server coupled to said network	Mosaic also discloses a client workstation and a network server in a distributed
environment, wherein said network environment is	hypermedia environment. See evidence recited for 906-1.b.
a distributed hypermedia environment, the	
computer program product comprising:	
906-6.b:	Mosaic discloses computer code physically embodied on a medium. See, e.g., :
a computer usable medium having computer	
readable program code physically embodied	Release of machine readable source code of Mosaic 0.5 at access path:
therein, said computer program product further	file://tip.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.5.tar.Z disclosed in
comprising:	[Andreessen93a]. A listing of current capabilities was disclosed in the
	same document as well as machines it was known to compile on.
	See also Mosaic Source Code.
906-6.c:	Mosaic discloses a browser application that parses a hypermedia document with
computer readable program code for causing said	text formats. See evidence recited for 906-1.c.
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;	

Claim Text from '906 Patent	Mosaic
906-6.d:	Mosaic discloses a hypermedia document received from a server and a browser
computer readable program code for causing said	that displays the hypermedia document. See evidence recited for 906-1.d.
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,	
906-6.e:	Mosaic discloses that the hypermedia document is displayed in a browser
wherein the portion of said first hypermedia	window. See evidence recited for 906-1.e.
document is displayed within a first browser-	
controlled window on said client workstation,	
906-6.f:	Mosaic discloses an embed text format at a first location in a hypermedia
wherein said first distributed hypermedia	document; that the embed text format specifies the location of an object; and that
document includes an embed text format, located	the object is external to the hypermedia document. See evidence recited for 906-
at a first location in said first distributed	1.f.
hypermedia document, that specifies the location	
of at least a portion of an object external to the first	
distributed hypermedia document,	
906-6.g:	Mosaic discloses that the object has associated type information, that the browser
wherein said object has type information	uses the type information to identify and locate an executable application, and
associated with it utilized by said browser to	that the executable application is external to the hypermedia document. See
identify and locate an executable application	evidence recited for 906-1.g.
external to the first distributed hypermedia	
document, and	
906-6.h:	Mosaic discloses that the browser parses the embed text format; and that the
wherein said embed text format is parsed by said	executable application displays the object and enables an end-user to directly
browser to automatically invoke said executable	interact with it. See evidence recited for 906-1.h. Regarding automatic
application to execute on said client workstation in	invocation of the executable application, see discussion for 906-1.h. Regarding
order to display said object and enable an end-user	interaction with the object at a first location in the hypermedia document, see
to directly interact with said object within a	discussion for 906-1.h.
display area created at said first location within the	
portion of said first distributed hypermedia	
document being displayed in said first browser-	

Claim Text from '906 Patent	Mosaic
controlled window.	
906-7.a : The computer program product of claim 6, 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.	Mosaic discloses interactive control via inter-process communications between a browser and an application. <i>See</i> evidence recited for 906-2.a.
906-8.a : The computer program product of claim 7, 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.	Mosaic discloses ongoing inter-process communications. <i>See</i> evidence recited for 906-3.a.
906-11.a : 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:	Mosaic discloses additional instructions on the server. <i>See, e.g.</i> , : Also from [Collage92], "Among Collage's many features is the ability to establish communication with remote processes, e.g. a simulation running on a supercomputer. These remote processes can be controlled remotely, and images and data can be transported to and from the remote process." From [Andreessen93b] Mosaic interoperated with Collage
906-11 b [.]	Mosaic discloses that the client issues commands to the server $S_{\rho\rho} \circ \sigma$
issuing, from the client workstation, one or more commands to the network server;	Also from [Collage92], "Among Collage's many features is the ability to establish communication with remote processes, e.g. a simulation running

Mosaic
a supercomputer. These remote processes can be controlled remotely,
nd images and data can be transported to and from the remote process."
rom [Andreessen93b], Mosaic interoperated with Collage.
discloses that the server executes instructions in response to client
ids. See, e.g., :
Iso from [Collage92], "Among Collage's many features is the ability to
tablish communication with remote processes, e.g. a simulation running
a supercomputer. These remote processes can be controlled remotely,
in images and data can be transported to and from the remote process.
rom [Andreessen93b] Mosaic interoperated with Collage
discloses that the server responds with information to the client. See.
lso from [Collage92], "Consequently, collaborators using Mosaic clients
nd are involved a Collage session can, for example, open and view an
DF (Hierarchical Data Format) file that was produced by a
percomputer computation. Members of the session could (non-
estructively) annotate the displayed image to point out significant
atures." Data from the HDF file was displayed on a separate application
n the client workstation.
com [Andreessen93b], Mosaic interoperated with Collage.
discloses that the client uses information from the server to interactively
ine application. See, e.g., :
les from [Collage02] "Among Collage's many features is the shility to
iso from [Conage92], Among Conage's many reatures is the ability to
autisti communication with remote processes, e.g. a simulation running
a supercomputer. These remote processes can be controlled remote process."
lso from [Collage92], "Among Collage's many features is the ability to stablish communication with remote processes, e.g. a simulation running n a supercomputer. These remote processes can be controlled remotely,
n a su

Claim Text from '906 Patent	Mosaic
	Erom [Androsson(2h] Massis interpreted with Collage
	Fiom [Andreessen930], Mosaic Interoperated with Conage.
906-13.a ⁻	Mosaic discloses additional instructions on the server. See evidence recited for
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:	906-11.a.
906-13.b : computer readable program code for causing said client workstation to issue from the client workstation, one or more commands to the network server;	Mosaic discloses that the client issues commands to the server. <i>See</i> evidence recited for 906-11.b.
906-13.c:	Mosaic discloses that the server executes instructions in response to client
computer readable program code for causing said network server to execute one or more instructions in response to said commands;	commands. See evidence recited for 906-11.c.
906-13.d : computer readable program code for causing said network sever to send information to said client workstation in response to said executed instructions; and	Mosaic discloses that the server responds with information to the client. <i>See</i> evidence recited for 906-11.d.
906-13.e : computer readable program code for causing said client workstation to process said information at the client workstation to interactively control said controllable application.	Mosaic discloses that the client uses information from the server to interactively control the application. <i>See</i> evidence recited for 906-11.e.

INVALIDITY CLAIM CHART FOR U.S. PATENT NO. 7,599,985

BASED ON "NCSA MOSAIC FOR X 2.0 AVAILABLE", WWW-TALK, OCT-DEC, 1993 [PA-00292659] [ANDREESSEN93A], NCSA MOSAIC TECHNICAL SUMMARY [PA-00292824] [ANDREESSEN 93B], NCSA COLLAGE FOR THE MACINTOSH VERSION 1.0,
OCTOBER 1992 [PA-00292677] [Collage92], MOSAIC SOFTWARE INCLUDING THE CODEBASES FOUND AT [PA-NAT-00000044] – [PA-NAT-00000046], AND MY PERSONAL EXPERIENCE WITH THE MOSAIC BROWSER., ("MOSAIC"). SEE ALSO BINA EXS. 4 AND 7. THE BODY OF MY REPORT HAS A NARRATIVE DESCRIPTION THAT AUGMENTS AND SHOULD BE CONSIDERED PART OF THIS CHART, AND VISE-VERSA FOR THIS AND ALL MY CHARTS.

Claim Text from '985 Patent	Mosaic
985-1.a:	Mosaic discloses an application program. See, e.g., :
A method for running an application program in a	
distributed hypermedia network environment,	Compilation of code from the archive:
wherein the network environment comprises at least one client workstation and one network	file://tip.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.5.tar.Z produced an application program
server coupled to the network environment, the	Other examples of prior art Mosaic distributions that operated as
method comprising:	application programs include the Mosaic Source Code identified above.
	Mosaic discloses a computer network environment. See, e.g., :
	From [Andreessen93b]," NCSA Mosaic provides extensive distributed hypermedia capabilities that take advantage of the information base on the global Internet."
	Mosaic discloses a client workstation. See, e.g., :
	From [Andreessen93a], Mosaic was supported on the following client
	workstations:
	SGI (IRIX 4.0.2)
	IBM (AIX 3.2)
	Sun 4 (SunOS 4.1.2 with stock X11R4 and Motif 1.1

Claim Text from '985 Patent	Mosaic
	Mosaic discloses a network server. See, e.g., :
	From [Andreessen93b], "NCSA Data Transfer Mechanism communications support_ for integration with NCSA Collage and other network_based DTM clients and information servers."
	Mosaic discloses a distributed hypermedia environment. See, e.g., :
	From [Andreessen93b]," NCSA Mosaic provides extensive distributed hypermedia capabilities that take advantage of the information base on the global Internet."
985-1.b:	Mosaic discloses a browser application. See, e.g., :
receiving, at the client workstation from the network server over the network environment, at least one file containing information to enable a browser application to display at least a portion of a distributed hypermedia document within a browser-controlled window;	Compilation of code from the archive: file://tip.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.5.tar.Z produced an executable browser application. Other examples of prior art Mosaic distributions that operated as application programs include the Mosaic Source Code identified above.
	Mosaic discloses a file containing enabling information. See, e.g., :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag.
	Mosaic discloses that the file is received at the client workstation from the network server. <i>See, e.g.</i> , :

Claim Text from '985 Patent	Mosaic
	From [Andreessen93b], "NCSA Mosaic provides extensive distributed hypermedia capabilities that take advantage of the information base on the global Internet." Hypermedia document is a file received from server described above.
	Mosaic discloses that the browser displays at least a portion of a distributed hypermedia document. <i>See, e.g.</i> , :
	From [Andreessen93b], "NCSA Mosaic provides extensive distributed hypermedia capabilities that take advantage of the information base on the global Internet."
	Mosaic discloses that at least a portion of a hypermedia document is displayed in a browser-controlled window. <i>See, e.g.</i> , :
	From [Andreessen93b], "A screen snapshot of NCSA Mosaic for X viewing the Mosaic home page _ the document that is retrieved and displayed when Mosaic is launched_ is in Figure 1." The figure is shown here:

Claim Text from '985 Patent	Mosaic
	NCSA Mosaic: Document View
	File Navigate Options Annotate Documents Manuals Help
	Document Title: NCSA Mosaic Home Page
	Document URL: http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/NCSA
	NCSA Mosaic Home Page
	Welcome to NCSA's Mosaic, a networked information browser and World Wide Web client. Each highlighted phrase (in color and/or underlined) is a hyperlink to another document. Single click on the highlighted phrase to follow the link.
	If you are unfamiliar with the World Wide Web and associated Internet-based networked information sources, you may initially wish to explore some of the information resources available through the menubar. Also feel free to explore the current <u>Mosaic demo document</u> .
	NCSA Mosaic has <u>online hypertext documentation</u> ; also see <u>the list of Frequently</u> <u>Asked Questions</u> .
	Current Version Is 1.0!
	Please note that the current released version of NCSA Mosaic is <u>version 1.0</u> . If you are running an <u>earlier version</u> , please upgrade. (The Mosaic distribution directory is <u>here</u> .)
	Comments or Problems
	If you have problems or comments concerning NCSA Mosaic, please first read the <u>documentation</u> and the <u>FAQ list</u> .
	Search Keyword:
	Back Forward Home Reload Open Save As Clone New Window Close Window
985-1.c:	Mosaic discloses a browser application executing on the client workstation. See,
executing the browser application on the client workstation with the browser application:	e.g., :
workstation, with the browser approachen.	Compilation of code from the archive
	file://tip.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.5.tar.Z produced an
	executable browser application.

Claim Text from '985 Patent	Mosaic
	Other examples of prior art Mosaic distributions that operated as
	application programs include the Mosaic Source Code identified above.
985-1.d:	Mosaic discloses responding to text formats to initiate processing specified by
responding to text formats to initiate processing specified by the text formats;	the text formats, i.e., parsing text formats. See, e.g., :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap
	(XBM) and GIF image formats directly (an example can be seen in Figure
	5) and provides interfaces to external viewers to handle other multimedia
	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and
	several types of audio)." Mosaic parses a file to discover tags indicating
	these media types and invokes appropriate external viewers. Media of type
	ABM and GIF are embedded inline by the HTML img tag.
985-1 e [.]	Mosaic discloses that the browser displays a hypermedia document $S_{ee} = a$
displaying at least a portion of the document	wosale discloses that the blowser displays a hypermedia document. See, e.g., .
within the browser-controlled window:	From [Andreessen93b], "NCSA Mosaic provides extensive distributed
	hypermedia capabilities that take advantage of the information base on the
	global Internet."
	Mosaic discloses that a hypermedia document is displayed in a browser window.
	<i>See, e.g.,</i> :
	From [Andreessen93b], "A screen snapshot of NUSA Mosaic for X
	displayed when Messie is launahod, is in Figure 1." The figure is shown
	here:

Claim Text from '985 Patent	Mosaic	
	NCSA Mosaic: Document View	
	File <u>N</u> avigate <u>O</u> ptions <u>Annotate D</u> ocuments <u>M</u> anuals <u>H</u> elp	
	Document Title: NCSA Mosaic Home Page	
	Document URL: http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/NCSA	
	NCSA Mosaic Home Page	
	Welcome to NCSA's Mosaic, a networked information browser and World Wide Web client. Each highlighted phrase (in color and/or underlined) is a hyperlink to another document. Single click on the highlighted phrase	
	If you are unfamiliar with the World Wide Web and associated Internet-based networked information sources, you may initially wish to explore some of the information resources available through the menubar. Also feel free to explore the current <u>Mosaic demo document</u> .	
	NCSA Mosaic has <u>online hypertext documentation</u> ; also see <u>the list of Frequently</u> <u>Asked Questions</u> .	
	Current Version Is 1.0!	
	Please note that the current released version of NCSA Mosaic is <u>version 1.0</u> . If you are running an <u>earlier version</u> , please upgrade. (The Mosaic distribution directory is <u>here</u> .)	
	Comments or Problems	
	If you have problems or comments concerning NCSA Mosaic, please first read the <u>documentation</u> and the <u>FAQ list</u> .	
	Search Keyword:	
	Back Forward Home Reload Open Save As Clone New Window Close Window	
985-1.f:	Mosaic discloses identifying an embed text format. See, e.g., :	
identifying an embed text format which		
corresponds to a first location in the document,	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap	
where the embed text format specifies the location	(XBM) and GIF image formats directly (an example can be seen in Figure)
of at least a portion of an object external to the file,	5) and provides interfaces to external viewers to handle other multimedia	
where the object has type information associated	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and	l I

Claim Text from '985 Patent	Mosaic
with it;	several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format.
	Mosaic discloses that the embed text format corresponds to a first location in the hypermedia document. <i>See, e.g.</i> :
	 From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. It corresponds to first location in the hypermedia document. Other text formats point to hypermedia objects that cause the invocation of an external helper program. In Mosaic, objects were rendered in the browser window based on the order in which corresponding HTML tags were parsed, so the img tag corresponds to the first location in the hypermedia document at which the object is displayed.
	Mosaic discloses that the embed text format specifies the location of an object. <i>See, e.g.</i> :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format.

Claim Text from '985 Patent	Mosaic
	In HTML, one specified an object using the img tag by specifying its
	filepath location.
	Other text formats point to hypermedia objects that cause the invocation of
	an external helper program.
	Mosaic discloses that the object is external to the file containing enabling information. <i>See, e.g.</i> , :
	 From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. The object is external to the hypermedia document because it can be located at a filepath location separate from the location of the file containing enabling information. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program.
	Mosaic discloses that the object has associated type information. See, e.g., :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program.

Claim Text from '985 Patent	Mosaic
	All objects have a specific MIME type. [Andreessen93b]
985-1.g:	Mosaic discloses that the browser uses type information to identify and locate an
utilizing the type information to identify and locate	executable application. See, e.g., :
an executable application external to the file; and	
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap
	(XBM) and GIF image formats directly (an example can be seen in Figure
	5) and provides interfaces to external viewers to handle other multimedia
	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and
	several types of audio)." Mosaic parses a file to discover tags indicating
	these media types and invokes appropriate external viewers. Media of type
	Ability and OFF are endedued infine by the HTML fing tag, a text format.
	browser file and that cause the invocation of an external helper program
	The MIME type of the object is used to locate an appropriate executable
	application [Andreessen93b]
	Mosaic discloses that the executable application is external to the file containing
	enabling information. See, e.g., :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap
	(XBM) and GIF image formats directly (an example can be seen in Figure
	5) and provides interfaces to external viewers to handle other multimedia
	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and
	several types of audio)." Mosaic parses a file to discover tags indicating
	these media types and invokes appropriate external viewers. Media of type
	XBM and GIF are embedded inline by the HTML img tag, a text format.
	Other text formats point to hypermedia objects that are external to the
	The MIME type of the object is used to locate an appropriate executable
	application All such applications are external to the file containing
	enabling information [Andreessen93b]
985-1.h:	Mosaic discloses that the browser parses the embed text format. See, e.g., :

Claim Text from '985 Patent	Mosaic
automatically invoking the executable application, in response to the identifying of the embed text format, to execute on the client workstation in order to display the object and enable an end-user to directly interact with the object while the object is being displayed within a display area created at the first location within the portion of the hypermedia document being displayed in the browser-controlled window.	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format.
	Regarding automatic invocation of the executable application :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program. The MIME type of the object is used to locate an appropriate executable application. Helper applications display the hypermedia object and are invoked by the user, not automatically.
	Mosaic discloses that the executable application displays the object S_{aa} , a_{a}
	wosaic discloses that the executable application displays the object. see, e.g., .
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type

Claim Text from '985 Patent	Mosaic
	XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program. The MIME type of the object is used to locate an appropriate executable application, such as programs for handling MPEG or PostScript. Helper applications display the hypermedia object. [Andreessen93b]
	Mosaic discloses that the executable application enables direct interaction with the object. <i>See, e.g.</i> , :
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program. The MIME type of the object is used to locate an appropriate executable application, such as programs for handling MPEG or PostScript. [Andreessen93b] Helper applications display the hypermedia object and enable direct interaction with the hypermedia object.
	Regarding interaction with the object at a first location in the hypermedia document :
	Interaction with the hypermedia object is achieved through the helper application control panel and its window.
985-2.a : The method of claim 1 where: the information to	Mosaic discloses that the enabling information in the file is text formats. <i>See, e.g.</i> , :

Claim Text from '985 Patent	Mosaic
enable comprises text formats.	
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag.
985-3.a : The method of claim 2 where the text formats are	Mosaic discloses that the text formats are HTML tags. See, e.g., :
HTML tags.	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag.
985-4.a : The method of claim 1 where the information contained in the file received comprises at least one embed text format.	 Mosaic discloses that the enabling information in the file includes an embed text format. See, e.g., : From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format.
985-5.a:	Mosaic discloses that the embed text format is identified by parsing the file
The method of claim 1 where the step of	containing enabling information. See, e.g., :

Claim Text from '985 Patent	Mosaic
identifying an embed text format comprises: parsing the received file to identify text formats included in the received file.	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format.
985-6.a : The method of claim 5 where the parsing is by a parser in the browser.	Mosaic discloses that the parser is in the browser <i>See, e.g.</i> , : From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag.
985-7.a:	Mosaic discloses that the text formats directly specify the processing. See, e.g., :
The method of claim 1 where the processing specified by the text formats is specified directly.	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag.
985-8.a : The method of claim 1 where the correspondence is implied by the order of the text format in a set of	Mosaic discloses that the correspondence is implied by the order of text formats. <i>See, e.g.</i> , :

Claim Text from '985 Patent	Mosaic
all of the text formats.	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag. Text and objects were rendered in the browser window based on the order in which corresponding tags were parsed, so the correspondence was implied by the order of text formats.
985-9.a : The method of claim 1 where the embed text format specifies the location of at least a portion of an object directly.	 Mosaic discloses that the embed text format specifies the location of the object directly. <i>See, e.g.</i>, : From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. In HTML, one specified an object using the img tag by directly specifying its filepath location. Other text formats point directly to hypermedia objects that cause the invocation of an external helper program.
985-10.a : The method of claim 1 where having type information associated is by including type information in the embed text format.	Mosaic discloses that the type information is in the embed text format. <i>See, e.g.</i> , : Type information is the MIME type text.
985-11 a ⁻	As for automatic invocation that does not require interactive action by the user :

Claim Text from '985 Patent	Mosaic
The method of claim 1 where automatically	
invoking does not require interactive action by the user.	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program. The MIME type of the object is used to locate an appropriate executable application. [Andreessen93b] Helper applications display the hypermedia object and require interactive action by the user. Invocation is not automatia
985-16.a : One or more computer readable media encoded with software comprising computer executable instructions, for use in a distributed hypermedia network environment, wherein the network environment comprises at least one client workstation and one network server coupled to the network environment, and when the software is executed operable to:	 Mosaic discloses computer code physically embodied on a medium. See, e.g., : Release of machine readable source code of Mosaic 0.5at access path: file://tip.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.5.tar.Z disclosed in [Andreessen93a]. A listing of current capabilities was disclosed in the same document as well as machines it was known to compile on. See also Mosaic Source Code. Mosaic discloses a client workstation and a network server in a distributed hypermedia environment. See evidence recited for 985-1.a.
985-16.b : receive, at the client workstation from the network server over the network environment, at least one file containing information to enable a browser application to display at least a portion of a distributed hypermedia document within a browser-controlled window;	Mosaic discloses a browser application; a file containing enabling information received from a server; that the browser displays at least a portion of a distributed hypermedia document; and that the display is in a browser-controlled window. <i>See</i> evidence recited for 985-1.b.

Claim Text from '985 Patent	Mosaic
985-16.c:	Mosaic discloses a browser application executing on the client workstation. See
cause the client workstation to utilize the browser	evidence recited for 985-1.c.
to:	
985-16.d:	Mosaic discloses parsing text formats. See evidence recited for 985-1.d.
respond to text formats to initiate processing	
specified by the text formats;	
985-16.e:	Mosaic discloses displaying at least a portion of the document within the
display at least a portion of the document within	browser-controlled window. See evidence recited for 985-1.e.
the browser-controlled window;	
985-16.f:	Mosaic discloses identifying an embed text format; that the embed text format
identify an embed text format corresponding to a	corresponds to a first location in a hypermedia document; that the embed text
first location in the document, the embed text	format specifies the location of at least a portion of an object external to the file
format specifying the location of at least a portion	containing enabling information; and that the object has associated type
of an object external to the file, with the object	information. See evidence recited for 985-1.f.
having type information associated with it;	
985-16.g:	Mosaic discloses using type information to identify and locate an executable
utilize the type information to identify and locate	application external to the file. See evidence recited for 985-1.g.
an executable application external to the file; and	
985-16.h:	Mosaic discloses that the executable application displays the object and enables
automatically invoke the executable application, in	an end-user to directly interact with it. See evidence recited for 985-1.h.
response to the identifying of the embed text	Regarding automatically invoking the executable application, and that the
format, to execute on the client workstation in	interaction with the object is at a first location in a hypermedia document, see
order to display the object and enable an end-user	discussion for 985-1.h.
to directly interact with the object while the object	
is being displayed within a display area created at	
the first location within the portion of the	
hypermedia document being displayed in the	
browser-controlled window.	
985-17.a:	Mosaic discloses that the enabling information in the file is text formats. See
The computer readable media of claim 16 where:	evidence recited for 985-2.a.
the information to enable comprises text formats.	

Claim Text from '985 Patent	Mosaic
985-18.a : The computer readable media of claim 17 where: the text formats are HTML tags.	Mosaic discloses that the text formats are HTML tags. <i>See</i> evidence recited for 985-3.a.
985-19.a : The computer readable media of claim 16 where: the information contained in the file received comprises at least one embed text format.	Mosaic discloses that the enabling information in the file includes an embed text format. <i>See</i> evidence recited for 985-4.a.
005.00	
985-20.a : A method of serving digital information in a	Mosaic discloses digital information. <i>See, e.g.</i> , :
server coupled the network environment having a network where the network environment is a distributed hypermedia environment, the method comprising:	From the discussion of Mosaic in my report," Graphical display of plain text, rich (formatted) text, and hypertext, as well as inlined access to graphs, images, audio clips, video sequences, and scientific data in multimedia and hypermedia documents." All that information is digital.
	Mosaic discloses a network server in a distributed hypermedia environment. <i>See</i> evidence recited for 985-1.a.
985-20.b:	Mosaic discloses a client workstation. See evidence recited for 985-1.a.
communicating via the network server with at least one client workstation over said network in order to cause said client workstation to:	Mosaic discloses communicating via network server in order to cause the client workstation to act. <i>See, e.g.</i> , :
	Also from [Collage92], "Consequently, collaborators using Mosaic clients and are involved a Collage session can, for example, open and view an HDF (Hierarchical Data Format) file that was produced by a supercomputer computation. Members of the session could (non- destructively) annotate the displayed image to point out significant features." Data from the HDF file was displayed on a separate application on the client workstation. From [Andreessen93b], Mosaic interoperated with Collage.

Claim Text from '985 Patent	Mosaic
985-20.c:	Mosaic discloses a browser application; a file containing enabling information
receive, over said network environment from said	received from a server; that the browser displays at least a portion of a
server, at least one file containing information to	distributed hypermedia document; and that the display is in a browser-controlled
enable a browser application to display at least a	window. See evidence recited for 985-1.b.
portion of a distributed hypermedia document	
within a browser-controlled window;	
985-20.d:	Mosaic discloses a browser application executing on the client workstation. See
execute, at said client workstation, a browser	evidence recited for 985-1.c.
application, with the browser application:	
985-20.e:	Mosaic discloses parsing text formats. See evidence recited for 985-1.d.
responding to text formats to initiate processing	
specified by the text formats;	
985-20.f:	Mosaic discloses displaying at least a portion of the document within the
displaying, on said client workstation, at least a	browser-controlled window. See evidence recited for 985-1.e.
portion of the document within the browser-	
controlled window;	
985-20.g:	Mosaic discloses identifying an embed text format; that the embed text format
identifying an embed text format which	corresponds to a first location in a hypermedia document; that the embed text
corresponds to a first location in the document,	format specifies the location of at least a portion of an object external to the file
where the embed text format specifies the location	containing enabling information; and that the object has associated type
of at least a portion of an object external to the file,	information. See evidence recited for 985-1.f.
where the object has type information associated	
with it;	
985-20.h:	Mosaic discloses using type information to identify and locate an executable
utilizing the type information to identify and locate	application external to the file. See evidence recited for 985-1.g.
an executable application external to the file; and	
985-20.i:	Mosaic discloses that the executable application displays the object and enables
automatically invoking the executable application,	an end-user to directly interact with it. See evidence recited for 985-1.h.
in response to the identifying of the embed text	Regarding automatically invoking the executable application and interaction
format, to execute on the client workstation in	with the object at a first location in a hypermedia document, see discussion in
order to display the object and enable an end-user	985-1.h.
to directly interact with the object while the object	

Claim Text from '985 Patent	Mosaic
is being displayed within a display area created at	
the first location within the portion of the	
hypermedia document being displayed in the	
browser-controlled window.	
005.21	Marcia diastance that the enclution information in the file is test formate. See
705-21.a . The method of claim 20 where: the information to	widence recited for 985.2 a
enable comprises text formats	evidence recited for 985-2.a.
985-22.a:	Mosaic discloses that the text formats are HTML tags. See evidence recited for
The method of claim 21 where: the text formats	985-3.a.
are HTML tags.	
985-23.a:	Mosaic discloses that the enabling information in the file includes an embed text
The method of claim 20 where: the information	format. See evidence recited for 985-4.a.
contained in the file received comprises at least	
one embed text format.	
085.24 a:	Magnia displayers a plight workstation and a network server in a network
A method for running on executable application in	mosaic discloses a client workstation and a network server in a network
a computer network environment wherein said	environment. See evidence recited for 985-1.a.
network environment has at least one client	Mosaic discloses an executable application See evidence recited for 985-1 g
workstation and one network server coupled to a	nicoure alsonobel all'energiane application. See evidence rechea for you rig.
network environment, the method comprising:	
985-24.b:	Mosaic discloses displaying at least a portion of the document within the
enabling an end-user to directly interact with an	browser-controlled window. See evidence recited for 985-1.e.
object by utilizing said executable application to	
interactively process said object while the object is	Mosaic discloses an object external to a file containing enabling information.
being displayed within a display area created at a	See evidence recited for 985-1.f.
first location within a portion of a hypermedia	
document being displayed in a browser-controlled	Mosaic discloses that there is enabling of an end-user to directly interact with the
window,	object. See, e.g., :

Claim Text from '985 Patent	Mosaic
985-24.c:	 From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap (XBM) and GIF image formats directly (an example can be seen in Figure 5) and provides interfaces to external viewers to handle other multimedia data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and several types of audio)." Mosaic parses a file to discover tags indicating these media types and invokes appropriate external viewers. Media of type XBM and GIF are embedded inline by the HTML img tag, a text format. Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program. The MIME type of the object is used to locate an appropriate executable application, such as programs for handling MPEG or PostScript. [Andreessen93b] Helper applications display the hypermedia object. Regarding interaction with the object at a first location in a hypermedia document, <i>see</i> discussion in 985-1.h. Mosaic discloses that the object is displayed at a first location within a portion of the hypermedia of type XBM and GIF are embedded inline, by the HTML img tag, at the first location in the hypermedia document.
wherein said network environment is a distributed hypermedia environment,	hypermedia environment. See evidence recited for 985-1.a.
985-24.d : wherein said client workstation receives, over said network environment from said server, at least one file containing information to enable said browser application to display, on said client workstation, at least said portion of said distributed hypermedia	Mosaic discloses a browser application; a file containing enabling information received from a server; that the browser displays at least a portion of a distributed hypermedia document; and that the display is in a browser-controlled window. <i>See</i> evidence recited for 985-1.b.

Claim Text from '985 Patent	Mosaic
document within said browser-controlled window,	
985-24.e:	Mosaic discloses an executable application external to the file. See evidence
wherein said executable application is external to	recited for 985-1.g.
said file,	
985-24.f:	Mosaic discloses a browser application executing on the client workstation. See
wherein said client workstation executes the	evidence recited for 985-1.c.
browser application, with the browser application	
responding to text formats to initiate processing	Mosaic discloses parsing text formats. See evidence recited for 985-1.d.
specified by the text formats,	
985-24.g:	Mosaic discloses displaying at least a portion of the document within the
wherein at least said portion of the document is	browser-controlled window. See evidence recited for 985-1.e.
displayed within the browser-controlled window,	
985-24.h:	Mosaic discloses identifying an embed text format and that the embed text
wherein an embed text format which corresponds	format corresponds to a first location in a hypermedia document. See evidence
to said first location in the document is identified	recited for 985-1.f.
by the browser,	
985-24.i:	Mosaic discloses that the embed text format specifies the location of at least a
wherein the embed text format specifies the	portion of an object external to the file containing enabling information. See
location of at least a portion of said object external	evidence recited for 985-1.f.
to the file,	
985-24.j:	Mosaic discloses that the object has associated type information. See evidence
wherein the object has type information associated	recited for 985-1.f.
with it,	
985-24.K:	Mosaic discloses using type information to identify and locate an executable
wherein the type information is utilized by the	application external to the file. See evidence recited for 985-1.g.
browser to identify and locate said executable	
application, and	
703-24.1 .	Regarding automatically invoking the executable application, see discussion in
involved by the browner in recreases to the	983-1.fl.
invoked by the browser, in response to the	
identifying of the embed text format.	

Claim Text from '985 Patent	Mosaic
985-25.a:	Mosaic discloses that the enabling information in the file is text formats. See
The method of claim 24 where: the information to	evidence recited for 985-2.a.
enable comprises text formats.	
985-26.a:	Mosaic discloses that the text formats are HTML tags. See evidence recited for
The method of claim 25 where: the text formats	985-3.a.
are HTML tags.	
985-27.a:	Mosaic discloses that the enabling information in the file includes an embed text
The method of claim 24 where: the information	format. See evidence recited for 985-4.a.
contained in the file received comprises at least	
one embed text format.	
985-28.a:	Mosaic discloses computer code physically embodied on a medium. See
One or more computer readable media encoded	evidence recited for 985-16.a.
with software comprising an executable	Marcia dia la sua aliante su datatian and a natura da anno in a natura da
application for use in a system having at least one	Mosaic discloses a client workstation and a network server in a network
to a nativork anvironment operable to:	environment. See evidence recited for 983-1.a.
to a network environment, operable to:	Mosaic discloses an executable application Saa evidence recited for 985-1 g
985-28 b [.]	Mosaic discloses displaying at least a portion of the document within the
cause the client workstation to display an object	browser-controlled window See evidence recited for 985-1 e
and enable an end-user to directly interact with	blowser controlled window. See evidence recited for 565 file.
said object while the object is being displayed	Mosaic discloses an object external to a file containing enabling information
within a display area created at a first location	See evidence recited for 985-1.f.
within a portion of a hypermedia document being	
displayed in a browser-controlled window,	Mosaic discloses that there is enabling of an end-user to directly interact with the
	object. See evidence recited for 985-24.b.
	Regarding interaction with the object at a first location in a hypermedia
	document, see discussion in 985-1.h.

Claim Text from '985 Patent	Mosaic
	Mosaic discloses that the object is displayed within a display area created at the
	first location. See, e.g., :
	Only media of type XBM and GIF are embedded inline, by the HTML
	img tag, at the first location in the hypermedia document.
985-28.c:	Mosaic discloses a client workstation and a network server in a distributed
wherein said network environment is a distributed	hypermedia environment. See evidence recited for 985-1.a.
hypermedia environment,	
985-28.d:	Mosaic discloses a browser application; a file containing enabling information
wherein said client workstation receives, over said	received from a server; that the browser displays at least a portion of a
network environment from said server, at least one	distributed hypermedia document; and that the display is in a browser-controlled
file containing information to enable said browser	window. See evidence recited for 985-1.b.
application to display, on said client workstation,	
at least said portion of said distributed hypermedia	
document within said browser-controlled window,	
985-28.e:	Mosaic discloses an executable application external to the file. See evidence
wherein said executable application is external to	recited for 985-1.g.
	Magnie digeleges a browser application executing on the client workstation. See
903-20.1 .	widenee regited for 085.1 a
browser application with the browser application	evidence recited for 985-1.c.
responding to text formats to initiate processing	Mosaic discloses parsing text formats See evidence recited for 985-1 d
specified by the text formats	Nosale discloses parsing text formats. See evidence recited for 965 1.d.
985-28.g ⁻	Mosaic discloses displaying at least a portion of the document within the
wherein at least said portion of the document is	browser-controlled window <i>See</i> evidence recited for 985-1 e
displayed within the browser-controlled window.	
985-28.h:	Mosaic discloses identifying an embed text format and that the embed text
wherein an embed text format which corresponds	format corresponds to a first location in a hypermedia document. See evidence
to said first location in the document is identified	recited for 985-1.f.
by the browser,	
985-28.i:	Mosaic discloses that the embed text format specifies the location of at least a
wherein the embed text format specifies the	portion of an object external to the file containing enabling information. See

Claim Text from '985 Patent	Mosaic
location of at least a portion of said object external	evidence recited for 985-1.f.
to the file,	
985-28.j:	Mosaic discloses that the object has associated type information. See evidence
wherein the object has type information associated	recited for 985-1.f.
with it,	
985-28.k:	Mosaic discloses using type information to identify and locate an executable
wherein the type information is utilized by the	application external to the file. See evidence recited for 985-1.g.
browser to identify and locate said executable	
application, and	
985-28.1:	Regarding automatically invoking the executable application, see discussion in
wherein the executable application is automatically	985-1.h.
invoked by the browser, in response to the	
identifying of the embed text format.	
985-36.a:	Mosaic discloses an application program in a distributed hypermedia
A method for running an application program in a	environment comprising at least client workstation and network server. See
distributed hypermedia network environment,	evidence recited for 985-1.a.
wherein the distributed hypermedia network	
environment comprises at least one client	
workstation and one remote network server	
coupled to the distributed hypermedia network	
085.36 h:	Maggia digalagas a browger application: a file containing anabling information:
703-30.0 .	that the file is received at the client workstation from the network server: that the
network server over the distributed hypermedia	browser displays at least a portion of a distributed hypermedia document: and
network environment at least one file containing	that at least a portion of a hypermedia document is displayed in a browser.
information to enable a browser application to	controlled window See evidence recited for 985-1 b
display at least a portion of a distributed	controlled window. See evidence reened for 965-1.0.
hypermedia document within a browser-controlled	
window.	
985-36.c	Mosaic discloses a browser application executing on the client workstation See
executing the browser application on the client	evidence recited for 985-1.c.

Claim Text from '985 Patent	Mosaic
workstation, with the browser application:	
985-36.d:	Mosaic discloses parsing text formats. See evidence recited for 985-1.d.
responding to text formats to initiate processing	
specified by the text formats;	
985-36.e:	Mosaic discloses displaying at least a portion of the document within the
displaying at least a portion of the document	browser-controlled window. See evidence recited for 985-1.e.
within the browser-controlled window;	
985-36.f:	Mosaic discloses an object. See, e.g., :
identifying an embed text format which	
corresponds to a first location in the document,	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap
where the embed text format specifies the location	(XBM) and GIF image formats directly (an example can be seen in Figure
of at least a portion of an object;	5) and provides interfaces to external viewers to handle other multimedia
	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and
	several types of audio)." Mosaic parses a file to discover tags indicating
	VDM and CIE are and added inline backs UTML into the start format
	ABM and GIF are embedded inline by the HTML img tag, a text format.
	Other text formats point to hypermedia objects that cause the invocation of
	an externar neiper program.
	Mosaic discloses identifying an embed text format: that the embed text format
	corresponds to a first location in the hypermedia document: and that the embed
	text format specifies the location of an object. See evidence recited for 985-1 f
985-36.g.	Mosaic discloses that the browser identifies and locates an executable
identifying and locating an executable application	application associated with the object. See, e.g.
associated with the object: and	
	From [Andreessen93b], "NCSA Mosaic initially supports the X bitmap
	(XBM) and GIF image formats directly (an example can be seen in Figure
	5) and provides interfaces to external viewers to handle other multimedia
	data formats (e.g. JPEG, XWD, TIFF, RGB, MPEG, DVI, PostScript, and
	several types of audio)." Mosaic parses a file to discover tags indicating
	these media types and invokes appropriate external viewers. Media of type
	XBM and GIF are embedded inline by the HTML img tag, a text format.

Claim Text from '985 Patent	Mosaic
	Other text formats point to hypermedia objects that are external to the browser file and that cause the invocation of an external helper program, such as programs for handling MPEG or PostScript. The MIME type of the object is used to locate an appropriate executable application. [Andreessen93b]
985-36.h : automatically invoking the executable application, in response to the identifying of the embed text format, in order to enable an end-user to directly interact with the object, while the object is being displayed within a display area created at the first location within the portion of the hypermedia document being displayed in the browser- controlled window,	Mosaic discloses identifying an embed text format. <i>See</i> evidence recited in 985- 1.f.
	Mosaic discloses that the executable application displays the object and that the executable application enables direct interaction with the object. <i>See</i> evidence recited in 985-1.h. Regarding automatic invocation of the executable application and interaction with the object is at a first location in the hypermedia document, <i>see</i> discussion in 985-1.h.
	Mosaic discloses that the object is displayed at a first location within a portion of the hypermedia document being displayed. <i>See</i> evidence recited at 985-24.b.
	Mosaic discloses that a hypermedia document is displayed in a browser window. <i>See, e.g.</i> , evidence recited for 985-1.e.
985-36.i:	Mosaic discloses a distributed application. See, e.g., :
wherein the executable application is part of a distributed application, and	 From [Collage92], the Collage application is described by: "in a networked environment, this tool provides the capability to distribute most of these data analysis and visualization functions synchronously among a number of users. This is the foundation for the collaborative aspects of this tool's functionality." From [Andreessen93b], Mosaic interoperated with Collage.
	Mosaic discloses that the executable application is part of a distributed application. <i>See, e.g.</i> , :

Claim Text from '985 Patent	Mosaic
	From [Collage92], the Collage application is described by: "in a networked environment, this tool provides the capability to distribute most of these data analysis and visualization functions synchronously among a number of users. This is the foundation for the collaborative aspects of this tool's functionality." From [Andreessen93b], Mosaic interoperated with Collage.
985-36.j:	Mosaic discloses that the distributed application executes at least partially on a
wherein at least a portion of the distributed	network server. See, e.g., :
server coupled to the distributed hypermedia network environment.	Also from [Collage92], "Among Collage's many features is the ability to establish communication with remote processes, e.g. a simulation running on a supercomputer. These remote processes can be controlled remotely, and images and data can be transported to and from the remote process." From [Andreessen93b], Mosaic interoperated with Collage.
985-37.a : The method of claim 36 where: the information to enable comprises text formats.	Mosaic discloses that the enabling information in the file is text formats. <i>See</i> evidence recited for 985-2.a.
985-38.a : The method of claim 37 where: the text formats are HTML tags.	Mosaic discloses that the text formats are HTML tags. <i>See</i> evidence recited for 985-3.a.
985-39.a : The method of claim 36 where: the information contained in the file received comprises at least one embed text format.	Mosaic discloses that the enabling information in the file includes an embed text format. <i>See</i> evidence recited for 985-4.a.
985-40.a : A method of serving digital information in a	Mosaic discloses digital information. See evidence recited for 985-20.a.
computer network environment having a network	Mosaic discloses a network server in a distributed hypermedia environment. See

Claim Text from '985 Patent	Mosaic
server coupled to said computer network	evidence recited for 985-1.a.
environment, and where the network environment	
is a distributed hypermedia network environment,	
the method comprising:	
985-40.b:	Mosaic discloses a client workstation. See evidence recited for 985-1.a.
communicating via the network server with at least	
one remote client workstation over said computer	Mosaic discloses communicating via network server in order to cause the client
network environment in order to cause said client	workstation to act. See evidence recited for 985-20.b.
workstation to:	
985-40.c:	Mosaic discloses a browser application; a file containing enabling information
receive, over said computer network environment	received from a server; that the browser displays at least a portion of a
from the network server, at least one file	distributed hypermedia document; and that the display is in a browser-controlled
containing information to enable a browser	window. See evidence recited for 985-1.b.
application to display at least a portion of a	
distributed hypermedia document within a	
browser-controlled window;	
985-40.d:	Mosaic discloses a browser application executing on the client workstation. See
execute, at said client workstation, a browser	evidence recited for 985-1.c.
application, with the browser application:	
985-40.e:	Mosaic discloses parsing text formats. See evidence recited for 985-1.d.
responding to text formats to initiate processing	
specified by the text formats;	
985-40.f:	Mosaic discloses displaying at least a portion of the document within the
displaying, on said client workstation, at least a	browser-controlled window. See evidence recited for 985-1.e.
portion of the document within the browser-	
controlled window;	
985-40.g:	Mosaic discloses an object. See evidence recited for 985-36.1.
identifying an embed text format which	
corresponds to a first location in the document,	Mosaic discloses identifying an embed text format; that the embed text format
where the embed text format specifies the location	corresponds to a first location in the hypermedia document; and that the embed
of at least a portion of an object;	text format specifies the location of an object. See evidence recited for 985-1.f.
985-40.h:	Mosaic discloses that the browser identifies and locates an executable

Claim Text from '985 Patent	Mosaic
identifying and locating an executable application	application associated with the object. See evidence recited for 985-36.g.
associated with the object; and	
985-40.i:	Mosaic discloses identifying an embed text format. See evidence recited in 985-
automatically invoking the executable application,	1.f.
in response to the identifying of the embed text	
format, in order to enable an end-user to directly	Mosaic discloses that the executable application displays the object and that the
displayed within a display area areated at the first	executable application enables direct interaction with the object. See evidence
location within the portion of the hypermedia	and interaction with the object at a first location in the hypermedia document
document being displayed in the browser-	see discussion in 985-1 h
controlled window,	
,	Mosaic discloses that the object is displayed at a first location within a portion of
	the hypermedia document being displayed. See evidence recited for 985-24.b.
	Mosaic discloses that a hypermedia document is displayed in a browser window.
	See, e.g., evidence recited for 985-1.e.
985-40.i [.]	Mosaic discloses that the executable application is part of a distributed
wherein the executable application is part of a	application. See evidence recited in 985-36.i.
distributed application, and	
985-40.k:	Mosaic discloses that the distributed application executes at least partially on a
wherein at least a portion of the distributed	network server. See evidence recited for 985-36.j.
application is for execution on the network server.	
985-41.a:	Mosaic discloses that the enabling information in the file is text formats. See
The method of claim 40 where: the information to	evidence recited for 985-2.a.
enable comprises text formats.	
085.42 a	Mosaia disalasas that the text formats are HTML tags. See evidence regited for
703-42.a. The method of claim 11 where: the text formats	$1005aic$ discloses that the text formats are fit fill tags. See evidence fected for 085_{-3}
The method of claim 41 where, the text formats	705-5.a.

Claim Text from '985 Patent	Mosaic
are HTML tags.	
985-43.a : The method of claim 40 where: the information contained in the file received comprises at least one embed text format.	Mosaic discloses that the enabling information in the file includes an embed text format. <i>See</i> evidence recited for 985-4.a.