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Kenneth D. Wright

Attorney Docket No: ROXIP259C

First Named Inventor: SMITH

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082306

UTILITY PATENT APPLICATION TRANSMITTAL (37 CFR. § 1.53(b))
(Continuation, Divisional or Continuation-in-part application)

Commissioner for Patents
Alexandria, VA 22313-1450

☐ Duplicate for
fee processing

Sir: This is a request for filing a patent application under 37 CFR. § 1.53(b) in the name of inventors:
Jeffrey A. Smith, Alan Page, S. Prasad Maruvada, Scott A. Northmore

For: USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS
IMPLEMENTED WITH COMPONENT ARCHITECTURES

This application is a ☒ Continuation ☐ Divisional ☐ Continuation-in-part
of prior Application No.: **09/240,844**, from which priority under 35 U.S.C. §120 is claimed.

Application Elements:

- ☒ 21 Pages of Specification, Claims and Abstract
☒ 7 Sheets of **Formal** Drawings
☒ Declaration
☐ Newly executed (original or copy)
☒ Copy from a prior application (37 CFR 1.63(d) for a continuation or divisional).
The entire disclosure of the prior application from which a copy of the declaration is
herein supplied is considered as being part of the disclosure of the accompanying
application and is hereby incorporated by reference therein.
☐ Deletion of inventors Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

Accompanying Application Parts:

- ☐ Assignment and Assignment Recordation Cover Sheet (recording fee of \$40.00 enclosed)
☐ Power of Attorney
☐ 37 CFR 3.73(b) Statement by Assignee

- ☐ Information Disclosure Statement with Form PTO-1449 ☐ Copies of IDS Citations
☐ Preliminary Amendment (*New claims numbered after highest original claim in prior application.*)
☒ Return Receipt Postcard
☐ Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i)
☐ Other:

Claim For Foreign Priority

- ☐ Priority of _____ Application No. _____ filed on _____ is claimed under 35 U.S.C. § 119.
☐ The certified copy has been filed in prior application U.S. Application No. _____
☐ The certified copy will follow.

Extension of Time for Prior Pending Application

- ☐ A Petition for Extension of Time is being concurrently filed in the prior pending application. A copy of the Petition for Extension of Time is attached.
☐ Cancel in this application original claims _____ of the prior application before calculating the filing fee. (*At least one original independent claim must be retained.*)

Fee Calculation (37 CFR § 1.16)

	(Col. 1)	(Col. 2)	<u>SMALL ENTITY</u>		OR	<u>LARGE ENTITY</u>	
	<u>NO. FILED</u>	<u>NO. EXTRA</u>	<u>RATE</u>	<u>FEE</u>		<u>RATE</u>	<u>FEE</u>
Section 1. BASIC FILING, SEARCH, AND EXAMINATION FEES							
BASIC FEE			\$150	\$	OR	\$300	\$300.00
SEARCH FEE			\$250	\$	OR	\$500	\$500.00
EXAMINATION FEE			\$100	\$	OR	\$200	\$200.00
				Section 1: Sub-Total	\$	OR	Total
							<u>\$1,000.00</u>
Section 2. EXCESS CLAIM FEES							
TOTAL CLAIMS	<u>16</u>	-20 = <u>0</u>	x25=	\$	OR	x50 =	\$
INDEP CLAIMS	<u>2</u>	-03 = <u>0</u>	x100 =	\$	OR	x200 =	\$
☐ Multiple Dependent Claim Presented			\$180 =	\$	OR	\$360 =	\$
				Section 2: Sub-Total	\$	OR	Total
							<u>\$0.00</u>

Section 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Fee (Large Entity)
 _____ - 100 = _____ / 50 = _____ (round **up** to a whole number) x 250 = \$ _____
 OR
Total Sheets Extra Sheets Fee (Small Entity)
 _____ - 100 = _____ / 50 = _____ (round **up** to a whole number) x 125 = \$ _____

Section 3: Sub-Total

Total \$ 0.00

Total Fees: Section 1 + Section 2 + Section 3: \$1,000.00

☒ Check No. 16931 in the amount of \$1,000.00 is enclosed.

☒ The Commissioner is authorized to charge any fees beyond the amount enclosed which may be required, or to credit any overpayment, to Deposit Account No. 50-0805 (Order No. ROXIP259C).

Request for Small Entity Status

☐ Applicant is entitled to small entity status.

General Authorization for Petition for Extension of Time (37 CFR §1.136)

☒ Applicants hereby make and generally authorize any Petitions for Extensions of Time as may be needed for any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR §1.17 as may be needed to Deposit Account No. 50-0805 (Order No. ROXIP259C).

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User Interface Method and System for Application Programs Implemented with Component Architectures

by Inventors

Jeffrey A. Smith, Alan Page, S. Prasad Maruvada, Scott A. Northmore

CLAIM OF PRIORITY

[0001] This is a continuation application and claims 35 U.S.C. §120 priority from co-pending U.S. Patent Application No. 09/240,844, filed on February 1, 1999, and entitled "User Interface Method and System for Application Programs Implemented with Component Architectures," which is incorporated in its entirety herein by reference.

BACKGROUND

[0002] The present invention relates to a method and system for providing a user interface for application programs. More specifically, the present invention provides a method and system for providing a graphical user interface for application programs implemented with component architectures such as COM (Component Object Model), DCOM (Distributed Component Object Model), CORBA (Common Object Request Broker Architecture) and the like.

[0003] Applications programs with graphical user interfaces (GUI's) are well known and have existed since at least the Xerox Star computer. Initially, such user interfaces were written specifically for each application program, effectively from scratch, and thus required a significant amount of effort to program and debug. More recently GUI's have been implemented with frameworks or architectures provided by operating systems such as Apple's Macintosh or Microsoft's Windows, or by user interface systems such as the X

Windows system. In addition to simplifying the construction of a user interface for an application program, each of these frameworks and systems could provide an interface with a common look and feel for application programs implemented under it. For example, most application programs implemented for Apple's Macintosh allowed users to delete files by dragging them to a trashcan icon.

[0004] While such GUI's are a significant improvement over early hard-coded GUI's, they still suffer from some disadvantages. For example, the GUI for an application program is usually fixed, and can not easily be updated to include new program features or capabilities without recompiling or reinstalling the entire application program. This is becoming especially problematic as application programs are now being implemented with component architectures, such as COM, DCOM, CORBA and the like, and such architectures permit new capabilities and/or features to be added to existing application programs by adding or changing appropriate modules of the program. To date, the updating of the GUI for such component implemented programs has not been easy to accomplish.

[0005] A further disadvantage exists in that, while a common look and feel may be available for programs implemented in a particular operating system or GUI system, this look and feel is generally not independent of the operating system or GUI system and thus the user must be retrained, to some extent, to use even the same program when it is run on a different operating system or GUI system.

[0006] A relatively recent development in user interfaces has been the adoption and acceptance of the world wide web and it's associated html-based browser paradigm. Despite limitations in early versions of html, the web browser paradigm is now widely employed and most users are familiar with it to some extent. Recent versions of html, especially dynamic html (DHTML), have removed some of the limitations of earlier

versions, such as the requirement to employ java applets or to reload the entire page in order to update material on a web page. However, html-based browsers are still limited in the uses to which they can be put and they do not, by themselves, provide the services and features required to implement a GUI for an application program, especially not for an application program implemented in a component architecture.

[0007] It is desired to have a user interface method and system which allows the web browser paradigm, or the like, to be employed as the GUI for application programs implemented with a component architecture.

SUMMARY

[0008] In one embodiment, a computer implemented system is disclosed for providing a graphical user interface (GUI) for an application program. The system includes a renderer, a proxy, and a workflow manager. The renderer is defined to render the GUI for the application program. The proxy is defined to provide to the renderer each component necessary for rendering the GUI. The proxy appears to the renderer as a single monolithic application program. The workflow manager is defined to communicate one or more document viewers and their associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

[0009] In another embodiment, a method is disclosed for providing a GUI for an application program. The method includes operating a renderer to render the GUI for the application program. The method also includes operating a proxy to provide to the renderer each component necessary for rendering the GUI. The proxy appears to the renderer as a single monolithic application program. The method further includes operating a workflow manager to communicate one or more document viewers and their associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

[0010] Other aspects and advantages of the invention will become more apparent from the following detailed description, taken in conjunction with the accompanying drawings, illustrating by way of example the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows a conventional GUI for an application program, the GUI being implemented in Windows 98;

Figure 2 shows a GUI for an application program in accordance with the present invention, the GUI being rendered by a DHTML browser;

Figure 3 shows a schematic representation of the components of the GUI of Figure 2;

Figure 4 shows the GUI of Figure 2 when the application program is in a different context;

Figure 5 shows the GUI of Figure 2 when the application program is in yet a different context;

Figure 6 shows the GUI of Figure 2, with a different layout, when the application program is in yet another context; and

Figure 7 shows a block diagram of a GUI architecture, in accordance with an embodiment of the present invention.

DETAILED DESCRIPTION

[0011] Figure 1 shows the graphical user interface of the Microsoft Paint application program included with Windows 98. As shown, the graphical user interface 16 includes a graphic edit area 20, tool bars 24 and 28, and menu bar 32. Tool bars 24 and 28 can be dynamically updated, to display other tools as the context of the program is changed, for example by selecting a different tool. Typically, GUI's such as that shown in Figure 1 are specifically programmed for the operating system and/or programming tools employed. For example, GUI's such as that shown in Figure 1 are commonly implemented within the framework provided by the Microsoft Foundation Classes (MFC) which employ various user interface functions provided within the Windows 98 operating system.

[0012] Once the GUI is implemented, the display of the GUI to the user is accomplished by the application program calling various operating system and/or GUI functions to create the needed display objects. Like many such programs, the Paint program is monolithic and new capabilities or features can only be added by rewriting and recompiling at least a portion of the program.

[0013] In contrast, Figure 2 shows a GUI 100 in accordance with the present invention. While the display of GUI 100 appears to be generally similar to that of Figure 1, it is in fact constructed and displayed in a much different manner. Specifically, GUI 100 of Figure 2 has been rendered by a platform independent renderer, in this specific case, an DHTML browser.

[0014] Figure 3 indicates the specific components of the GUI 100, which are arranged in frames within the DHTML browser. Frames 104, 108 and 112 include a variety of controls and other user interface components appropriate to the application program and it's present

context. Frame 116 includes a document viewer and the DHTML browser itself includes a conventional menu bar 120.

[0015] In Figure 2, the application program is shown in an "Edit Picture" mode. As the context of the application changes, one or more frames of GUI 100 are updated to display controls and/or viewers appropriate to the new context and/or the layout of the GUI can be changed. For example, Figure 4 shows a layout for GUI 100 as rendered for a "Special Effects" mode and Figure 5 shows a layout for GUI 100 as rendered for a "Project Creation" mode. As will be apparent, in each case an appropriate set of controls and other user interface components and document viewer is rendered. Also, as shown, the number, size and positioning of the frames rendered can be changed as the context changes. For example, in Figure 5 an additional document viewer frame has been added down along the right hand side of GUI 100 and on which the images available within the project are displayed.

[0016] If any particular context of the application program is best suited by a different layout, rather than merely by changing the number, size and positioning of frames and/or the updating of appropriate sets of user interface tools which are used in one or more other contexts, the DHTML layout can be changed. Figure 6 shows an example of a Guided Activity context which has a significantly different layout to those shown in Figures 4 and 5. In this context, a user who is less experienced is guided through the performance of a selected action, such as the removal of blemishes from an image, while in the contexts of Figures 4 and 5, the experienced user is expected to operate tools, etc. without requiring such guidance. As will be apparent to those of skill in the art, the underlying components of the application program need not be changed if different layouts are employed. As will also be apparent to those of skill in the art, the decision to change layout or to update an

existing layout for a context change is one which is subject to the skill and selection of the application programmer. It is contemplated, for example, that in some circumstances wherein a layout for one context could merely be updated for another context, a programmer may decide to instead create a new layout.

[0017] Figure 7 shows a block diagram of the architecture employed with the present invention to accomplish the rendering of the application program interface. While this particular architecture is presently preferred, it will be apparent to those of skill in the art that other architectures, embodying the same general principals, can also be employed if desired. The architecture shown in Figure 7 includes a renderer 200, which communicates with an application proxy 204. A set of presently instantiated user interface components 208 is provided, as is a set of presently instantiated document viewers 212. As used herein, the term user interface is intended to comprise user interface components such as controls, display boxes, etc, and should not be confused with the application program components, also discussed herein. Further, as used herein, the term "document viewer" is intended to comprise both the functions of displaying the current document in an appropriate format and a set of functions and methods appropriate that viewer. For example, an "Edit Picture" viewer can include both the method of displaying a current version of an image and a set of edit methods including paint, erase, brush, undo and redo.

[0018] The set of user interface components includes a persistent user interface component and the set of document viewers includes a persistent document viewer which are always instantiated to maintain communications between program components and to persist relevant information if no other user interface component or document viewer respectively is instantiated at any one time. This persistent user interface component and persistent document viewer are not rendered by renderer 200.

[0019] Application proxy 204 communicates to renderer 200, to user interface components 208, to document viewers 212 and to a workflow manager 216, which implements each appropriate workflow, as selected by the user or otherwise specified. An active document manager 220 is responsible for handling communications between workflow manager 216 and the currently active one of the one or more documents 224 loaded into the application program. Each of these components is discussed below in more detail.

[0020] The examples of the present invention shown in Figures 2 through 5 comprise a personal computer based photographic editing and compositing application program. As will be apparent to those of skill in the art, the present invention is not so limited and other application programs can beneficially employ the present invention. For example, desktop publishing, word processing or html authoring application programs can employ the present invention and, in such cases, appropriate sets of user interface components and document viewers will be provided. Further, while the embodiment of the present invention discussed below employs a DHTML browser as renderer 200, the present invention is not so limited and any appropriate renderer can be employed.

[0021] As mentioned above, in a current embodiment of the present invention renderer 200 is a DHTML browser. Renderer 200 includes a set of layouts which are therefore stored as DHTML pages defined for the underlying application program, each layout defining a respective GUI organization for a context of the application program. One reason that a DHTML browser is presently preferred to be employed as renderer 200, is that the rich layout feature set of DHTML browsers allows elegant and efficient GUIs to be constructed. Further, sophisticated tools for creating such layouts are readily available.

[0022] Also, platform independence of at least the GUI can be achieved, provided that a suitable DHTML browser is available for each platform of interest. This would allow

application programs implemented in a client-server arrangement or with DCOM or DCOM-like components to be executed on one platform from a GUI being executed on another platform. If the application program components are implemented in Java, or in another platform independent manner, platform independence of the entire application program and its GUI can also be achieved.

[0023] Application proxy 204 serves as the communication conduit between renderer 200 and the components of the application program. To renderer 200, application proxy 204 appears as a single, monolithic application program and all details of the components which make up the application program are essentially hidden from renderer 200 which need only interface to application proxy 204. This also allows other components of the application program to be modified in a manner which is transparent to the renderer. For example, an improved "Edit Picture" document viewer can be substituted in the application program. In this case, renderer 200 will interact with application proxy 204 to render the GUI in the Edit Picture context in the same manner as with the original version of the "Edit Picture" document viewer as the interface between renderer 200 and application proxy 204 does not change.

[0024] In embodiments of the present invention wherein renderer 200 is a DHTML browser, application proxy 204 is implemented as a persistent frame, which is not visible to the user, which contains the dynamic link library or other components that implement the application proxy and which can contain any global values or settings employed by renderer 200.

[0025] In addition to renderer 200, application proxy 204 also communicates with user interface components 208. These components, which can include controls such as button, sliders, radio buttons, edit boxes, etc., can be implemented in a variety of manners,

including as ActiveX controls, Java applets, etc. Application proxy 204 also communicates with document viewers 212 which will include viewers appropriate to observe and interact with data appropriate to the application program, in all of its possible contexts. For example, in the illustrated photographic editing and compositing program, document viewers 212 include an "Edit Picture" viewer, a "Special Effects" viewer, an "Object Manager" viewer, etc.

[0026] Each viewer 212 has one or more workflows defined for it. These workflows, which comprise methods, variables and states that are required to be shared among program components and can include, for example: zoom; undo; redo; brush; size; text operations; etc. and also allows various user interface components to be registered with the workflow and can define default values and/or conditions for the workflow. For example, in the case of a zoom workflow, the user interface components associated with the workflow can comprise: a text box (to display the current zoom percentage); a slider (to select the desired zoom percentage); and a default zoom value of one hundred percent.

[0027] The management of workflows is performed by workflow manager 216. As a document viewer 212 is instantiated, its associated workflows are registered with workflow manager 216. Workflow manager 216 manages communication between document viewers 212, user interface components 208 and, through application proxy 204, with renderer 200. Each user interface component 208 for a workflow registers itself with workflow manager 216, as the user interface component is instantiated, to identify the variables it is interested in or deregisters itself with the workflow manager as it is destroyed. For example, a Zoom slider would register that it is interested in a variable "zoom" and will send it messages to that variable if the user interacts with the slider.

Further, the workflow manager ensures that the zoom slider receives any updates to the variable "zoom" which have resulted from any changes to the variable from other sources.

[0028] Workflow manager 216 also interfaces with active document manager 220 to retrieve and/or to write information to the current active document 224 as required by a workflow. This can include the initial reading of the present active document into the application program for display in a document viewer 212 or the writing of a changed version of the document, as produced by a document viewer 212, or the writing of an undo file for the present active document.

[0029] The order in which a workflow is defined is not fixed. For example, if renderer 200 has a layout defined which includes a set of user interface components 208 for a zoom control and a document viewer 212 is loaded for which a zoom workflow is not defined, the set of user interface components 208 register themselves with workflow manager 216 and are displayed in an inoperative or "ghosted" manner by workflow manager 216 as it can not relate them to a variable defined for document viewer 212. When a document viewer 212 is subsequently loaded that has a zoom workflow and/or variable defined, the zoom workflow is registered with workflow manager 216 and matched to the associated set of user interface components 208 and variables which are then shown as being active or un-ghosted. In the more usual circumstance, loading a document viewer 212 will result in an update and re-rendering of the user interface layout by renderer 200, the update changing the user interface components 208 in the layout as required.

[0030] While workflow manager 216 primarily communicates with application proxy 204, for efficiency workflow manager 216 can communicate directly with user interface components 208 and with document viewers 212. For example, a user can activate a load new image control, in user interface components 208, which requires the loading of an

entire image. User interface components 208 can pass the appropriate message to workflow manager 216 which in turn obtains the document information from the active document 224 via active document manager 220 and forwards the document information directly to document viewer 212.

[0031] In addition to changes to the active document, active document manager 220 is also responsible for writing or otherwise persisting information relating to the present state and context of the application program relative to the active document. For example, if the document is being viewed in a document viewer 212 at a zoom setting of two hundred percent, this setting is stored by active document manager 220 with the active document 224 for that context. If a context change occurs in the application, for example in response to a user interface event, and a different document viewer is loaded where zoom is not provided and another context change subsequently occurs loading a document viewer where zoom is provided, active document 224 will be displayed at the previously set zoom of two hundred percent by recovering the stored zoom rate information.

[0032] When a context change, or other event requiring a display update, occurs within the application program, either as a result of a user interface event or another event, a message is sent by application proxy 204 to renderer 200. Application proxy 204 is responsible for determining the changes required to be made to the application program user interface, whether these changes require rendering of a new layout or the updating of the present layout. In response to the received message, renderer 200 will then re-render the application program user interface to dynamically update the display to reflect the changes indicated by application proxy 204 resulting from the context change or other event. When renderer 200 re-renders the application program user, any updated elements are provided by workflow manager 216. These elements comprise the user interface components 208

defined for the present context, the document viewer or viewers 212 defined for the present context and the present active document 224.

[0033] As mentioned above, application programs used with the present invention can be implemented with components, such as COM, DCOM or CORBA objects. Application proxy 204 serves to marshal the information from each component of the application program to renderer 200, such that, to renderer 200, application proxy 204 appears as a monolithic application program.

[0034] In the photographic editing and compositing example discussed herein, user interface components 208 are implemented as ActiveX controls or Java applets. Document viewers 212 are also implemented as COM objects, each having at least one defined workflow which can be registered with workflow manager 216, as mentioned above.

[0035] If renderer 200 is a DHTML browser, or the like, it is also possible to implement one or more or all of user interface components 208 in the DHTML layout, with Javascripts or the like, and a callback to application proxy 204 can be effected upon the defined user interface event occurring in the browser. These Javascript or other implemented controls can also be used to update the display produced by renderer 200, if desired, thus allowing the present invention to employ generic HTML-based controls and obviating the need to write custom ActiveX controls or the like.

[0036] One of the advantages provided by component architectures is that new or different components can be added or employed as desired. With the present invention, providing appropriate changes to the GUI of an application in accordance with the addition or alteration of components is easily accomplished. For example, if a new or enhanced document viewer component is added to the photographic editing and compositing application discussed herein, the workflows associated with the document viewer are

registered with workflow manager 216, using an appropriate workflow registration method. User interface components required by the document viewer component are instantiated if necessary and registered with workflow manager 216 and appropriate default values or conditions (if any) are defined. The new or enhanced document viewer component is then ready for use with the application program. As will be apparent, in most circumstances no new layout need be defined for renderer 200 as the layout will be re-rendered, as necessary, with the appropriate document viewer and user interface components as needed. If a new layout is desired, it can be provided with the component and provided to renderer 200 as desired. This allows purchasers of the application program to purchase additional components, as needed. It is also contemplated that particular components with limited or special uses can be rented. Specifically, a DCOM or other component can be executed for a single use or for a predefined limited time, via the internet or other telecommunications network.

[0037] Another advantage of the present invention is that it enables the productization of components in a relatively simple manner. Specifically, different products can be constructed merely by changing the layout employed by renderer 200. For example, an expert product can have one layout wherein all available tools are displayed to the user, providing an efficient workspace, while a beginner product can have one or more layouts of fewer tools each and arranged by task providing a simplified workspace, albeit a less efficient one. Further, the expert product can include various tools and capabilities in addition to those provided with the beginner tool merely by including additional components and an appropriate layout. The present invention thus encourages the construction and implementation of component based application programs.

[0038] The above-described embodiments of the invention are intended to be examples of the present invention and alterations and modifications may be effected thereto, by those of skill in the art, without departing from the scope of the invention which is defined solely by the claims appended hereto.

What is claimed is:

CLAIMS

1. A computer implemented system for providing a graphical user interface, comprising:

a renderer defined to render a graphical user interface (GUI) for an application program;

a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program; and

a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

2. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein the proxy enables details of each component which makes up the application program to be hidden from the renderer.

3. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein the proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer.

4. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format.

5. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer.

6. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components.

7. A computer implemented system for providing a graphical user interface as recited in claim 6, wherein the workflow manager is defined to register user interface components for each registered workflow.

8. A computer implemented system for providing a graphical user interface as recited in claim 1, further comprising:

an active document manager defined to retrieve a document required by a workflow upon registration of the workflow with the workflow manager and communicate the retrieved document to the workflow manager for provision to the renderer through the proxy.

9. A method for providing a graphical user interface, comprising:

operating a renderer to render a graphical user interface (GUI) for an application program;

operating a proxy to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program; and

operating a workflow manager to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

10. A method for providing a graphical user interface as recited in claim 9, wherein the proxy functions to hide details of each component which makes up the application program from the renderer.

11. A method for providing a graphical user interface as recited in claim 9, wherein the proxy functions to enable each component which makes up the application program to be modified in a manner that is transparent to the renderer.

12. A method for providing a graphical user interface as recited in claim 9, wherein each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format.

13. A method for providing a graphical user interface as recited in claim 9, wherein each document viewer includes a respective user interface requirements

specification referencing one or more user interface components associated with the document viewer.

14. A method for providing a graphical user interface as recited in claim 9, further comprising:

registering a workflow associated with each document viewer with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components.

15. A method for providing a graphical user interface as recited in claim 14, wherein the workflow manager functions to register user interface components for each registered workflow.

16. A method for providing a graphical user interface as recited in claim 9, further comprising:

operating an active document manager to retrieve a document required by a workflow upon registration of the workflow with the workflow manager, further operating the active document manager to communicate the retrieved document to the workflow manager for provision to the renderer through the proxy.

User Interface Method and System for Application Programs Implemented with Component Architectures

ABSTRACT

A computer implemented system is disclosed for providing a graphical user interface (GUI) for an application program. The system includes a renderer, a proxy, and a workflow manager. The renderer is defined to render the GUI. The proxy is defined to provide to the renderer each component necessary for rendering the GUI. The proxy appears to the renderer as a single monolithic application program. The workflow manager is defined to communicate one or more document viewers and their associated user interface components to the proxy for provision to the renderer. The document viewers and their associated user interface components represent components necessary for rendering the GUI.

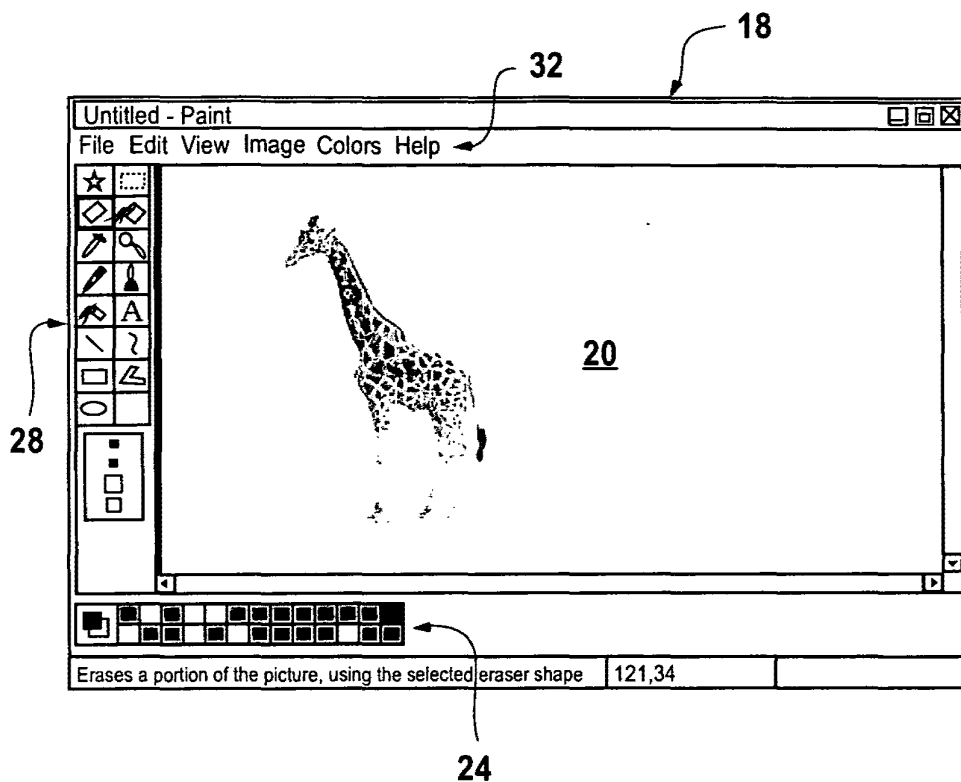
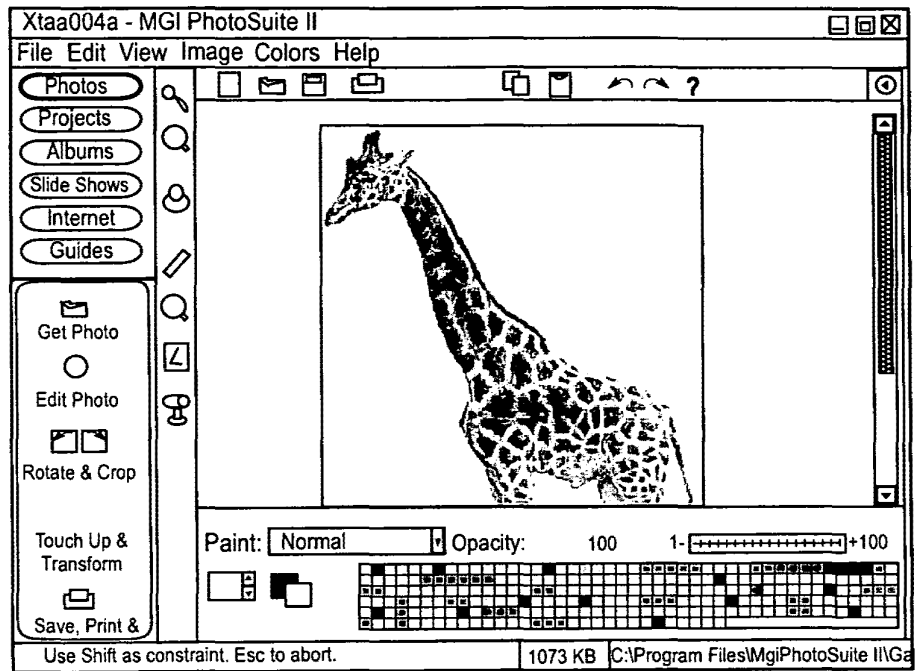


FIG. 1



100

FIG. 2

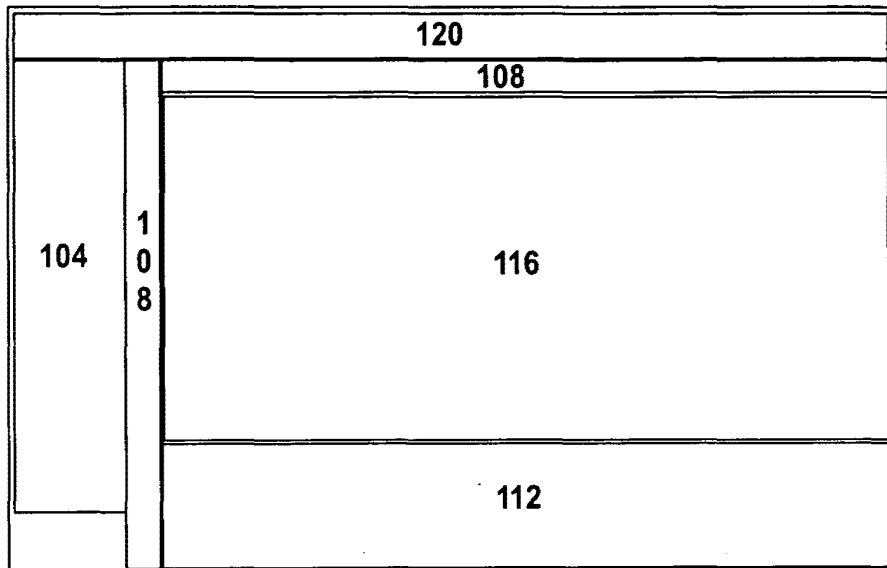


FIG. 3

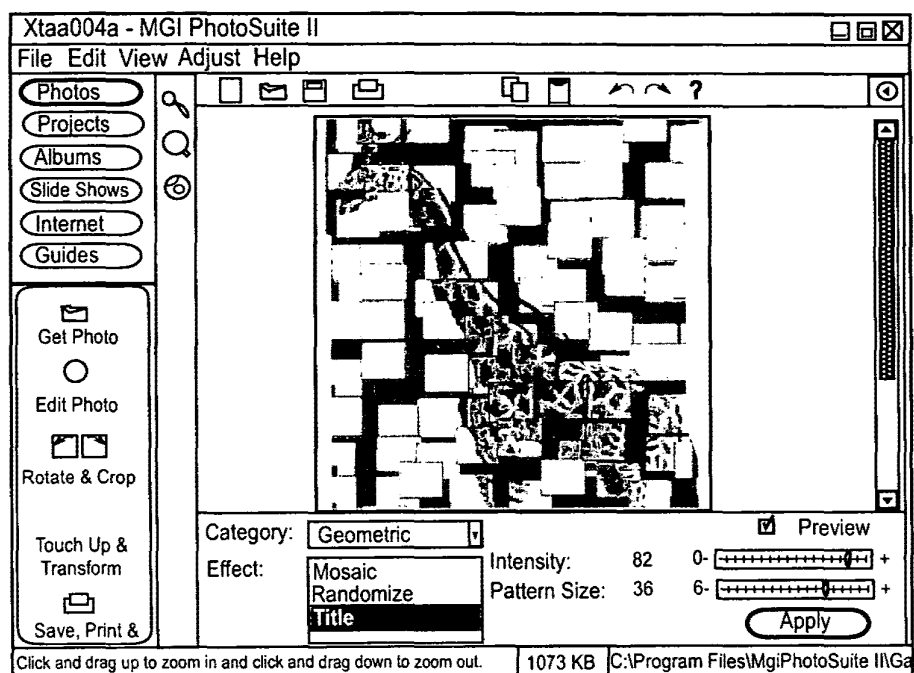


FIG. 4

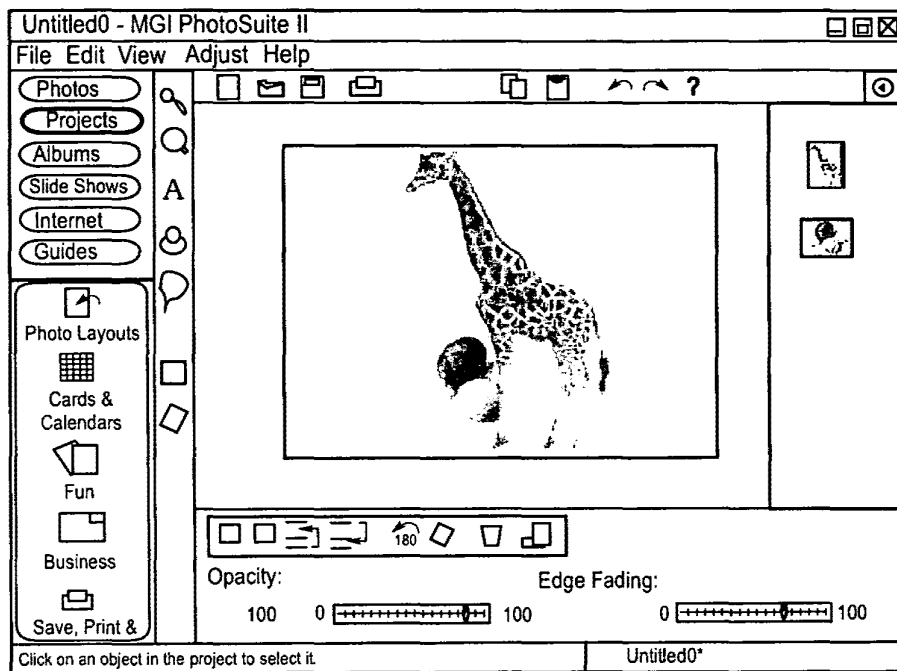


FIG. 5

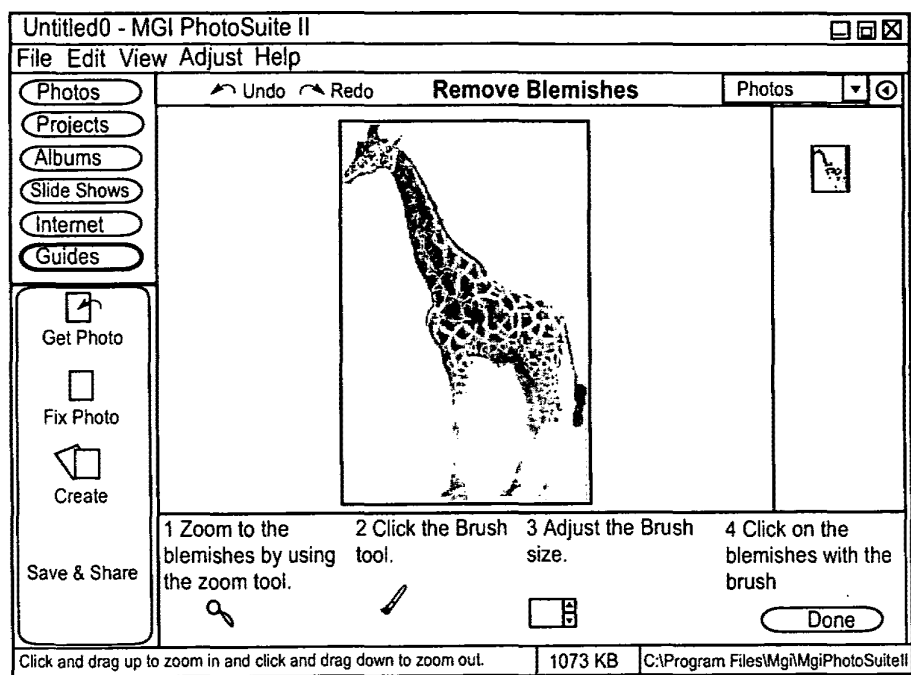


FIG. 6

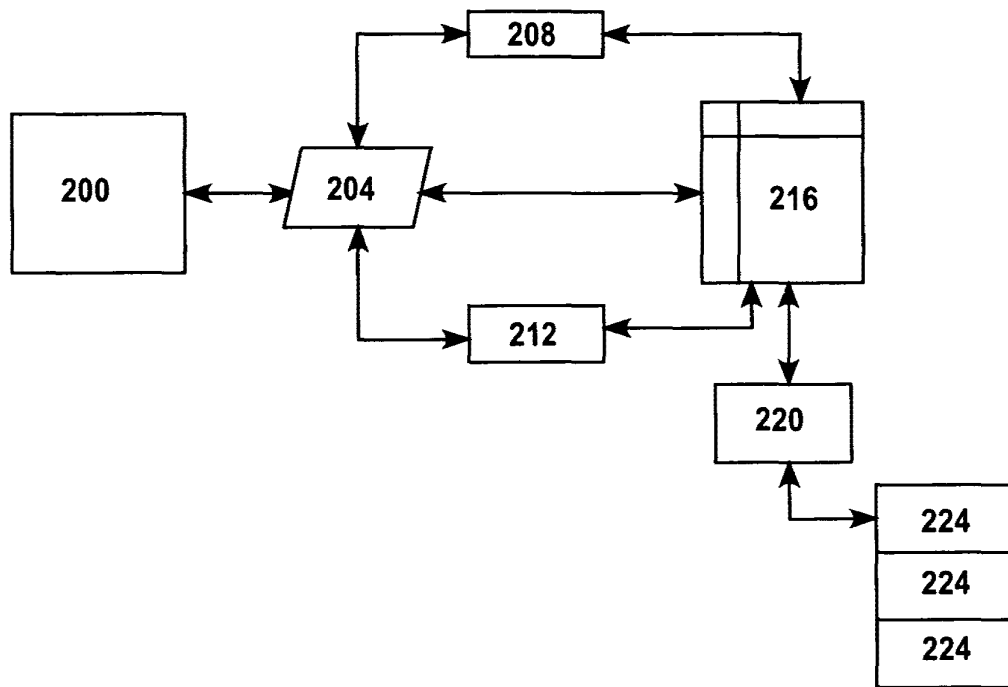


FIG. 7

Docket No.
T8464481US

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES

the specification of which

(check one)

☐ is attached hereto.

☒ was filed on February 1, 1999 as United States Application No. or PCT International Application Number _____ and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	☐
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	☐
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

_____	_____
(Application Serial No.)	(Filing Date)
_____	_____
(Application Serial No.)	(Filing Date)
_____	_____
(Application Serial No.)	(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)
		(patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)
		(patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)
		(patented, pending, abandoned)

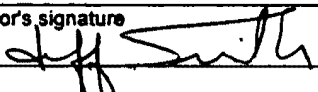
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

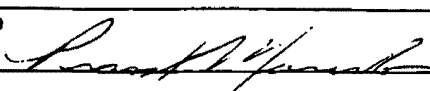
Robert P. STRATTON	35,765
Omar A. NASSIF	33,640
Arne I. FORS	20,775
D. Doak HORNE	33,105
Robert J. GRAHAM	43,430
Peter MILNE	34,534

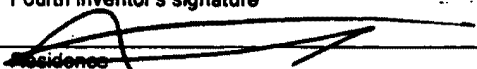
Send Correspondence to: **GOWLING, STRATHY & HENDERSON**
Suite 4900, Commerce Court West
Toronto, Ontario, Canada, M5L 1J3

Direct Telephone Calls to: *(name and telephone number)*
Robert P. STRATTON (416) 862-3616

Full name of sole or first inventor Jeffrey A. SMITH	
Sole or first inventor's signature 	Date Mar 11/99
Residence 28 Iroquois Drive, Stouffville, Ontario, Canada, L4A 7X4	
Citizenship Canadian	
Post Office Address Same	

Full name of second inventor, if any Alan PAGE	
Second inventor's signature 	Date
Residence 398 Eglinton Avenue East, Suite 1111, Toronto, Ontario, Canada, M4P 3H8	
Citizenship Canadian	
Post Office Address Same	

Full name of third inventor, if any S. Prasad MARUVADA	
Third inventor's signature 	Date MAR. 15, 99
Residence 520 Lyman Boulevard, Newmarket, Ontario, Canada, L3X 1V8	
Citizenship Canadian	
Post Office Address Same	

Full name of fourth inventor, if any Scott A. NORTHMORE	
Fourth inventor's signature 	Date MAR 1, 99
Residence RR 2, Port Carling, Ontario, Canada, P0B 1J0	
Citizenship Canadian	
Post Office Address Same	

Full name of fifth inventor, if any	
Fifth inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

Full name of sixth inventor, if any	
Sixth inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

08/28/2006 EAREGAY1 00000054 11509503

01 FC:1011	300.00 OP
02 FC:1111	500.00 OP
03 FC:1311	200.00 OP

PTO-1556
(5/87)

U.S. Government Printing Office: 2002 — 489-367/80033

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875 Effective December 8, 2004

Application or Docket Number

11509503

APPLICATION AS FILED - PART I

(Column 1)

(Column 2)

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(q), (p), or (u))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	16 minus 20 =	• 0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	• 0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

RATE (\$)	FEE (\$)
N/A	150.00
N/A	\$250
N/A	\$100
X\$ 25 =	
X100 =	
+180=	
TOTAL	

RATE (\$)	FEE (\$)
N/A	300.00
N/A	\$500
N/A	\$200
X\$50 =	
X200 =	
+360=	
TOTAL	1000

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED - PART II

(Column 1)

(Column 2)

(Column 3)

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	•	Minus **	=
Independent (37 CFR 1.16(h))	•	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

RATE (\$)	ADDITIONAL FEE (\$)
X\$ 25 =	
X100 =	
+180=	
TOTAL ADD'L FEE	

RATE (\$)	ADDITIONAL FEE (\$)
X\$50 =	
X200 =	
+360=	
TOTAL ADD'L FEE	

1, 9,

(Column 1)

(Column 2)

(Column 3)

AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	•	Minus **	=
Independent (37 CFR 1.16(h))	•	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

RATE (\$)	ADDITIONAL FEE (\$)
X\$ 25 =	
X100 =	
+180=	
TOTAL ADD'L FEE	

RATE (\$)	ADDITIONAL FEE (\$)
X\$50 =	
X200 =	
+360=	
TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

082306
20427 U.S. PTO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this paper and the documents and/or fees referred to as attached therein are being deposited with the United States Postal Service on **August 23, 2006** in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR §1.10, Mailing Label Number **EV746476753US**, addressed to the Commissioner for Patents, Alexandria, VA 22313-1450.



Kenneth D. Wright

Attorney Docket No: ROXIP259C

First Named Inventor: SMITH

113006 U.S. PTO
11/509503
082306

UTILITY PATENT APPLICATION TRANSMITTAL (37 CFR. § 1.53(b))
(Continuation, Divisional or Continuation-in-part application)

Commissioner for Patents
Alexandria, VA 22313-1450

☐ Duplicate for
fee processing

Sir: This is a request for filing a patent application under 37 CFR. § 1.53(b) in the name of inventors:
Jeffrey A. Smith, Alan Page, S. Prasad Maruvada, Scott A. Northmore

For: USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS
IMPLEMENTED WITH COMPONENT ARCHITECTURES

This application is a ☒ Continuation ☐ Divisional ☐ Continuation-in-part
of prior Application No.: **09/240,844**, from which priority under 35 U.S.C. §120 is claimed.

Application Elements:

- ☒ 21 Pages of Specification, Claims and Abstract
☒ 7 Sheets of **Formal** Drawings
☒ Declaration
☐ Newly executed (original or copy)
☒ Copy from a prior application (37 CFR 1.63(d) for a continuation or divisional).
The entire disclosure of the prior application from which a copy of the declaration is
herein supplied is considered as being part of the disclosure of the accompanying
application and is hereby incorporated by reference therein.
☐ Deletion of inventors Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

Accompanying Application Parts:

- ☐ Assignment and Assignment Recordation Cover Sheet (recording fee of \$40.00 enclosed)
☐ Power of Attorney
☐ 37 CFR 3.73(b) Statement by Assignee

- ☐ Information Disclosure Statement with Form PTO-1449 ☐ Copies of IDS Citations
- ☐ Preliminary Amendment (*New claims numbered after highest original claim in prior application.*)
- ☒ Return Receipt Postcard
- ☐ Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i)
- ☐ Other:

Claim For Foreign Priority

- ☐ Priority of _____ Application No. _____ filed on _____ is claimed under 35 U.S.C. § 119.
- ☐ The certified copy has been filed in prior application U.S. Application No. _____
- ☐ The certified copy will follow.

Extension of Time for Prior Pending Application

- ☐ A Petition for Extension of Time is being concurrently filed in the prior pending application. A copy of the Petition for Extension of Time is attached.
- ☐ Cancel in this application original claims _____ of the prior application before calculating the filing fee. (*At least one original independent claim must be retained.*)

Fee Calculation (37 CFR § 1.16)

	(Col. 1) NO. FILED	(Col. 2) NO. EXTRA	SMALL ENTITY RATE FEE	OR	LARGE ENTITY RATE FEE
Section 1. BASIC FILING, SEARCH, AND EXAMINATION FEES					
BASIC FEE			\$150 \$	OR	\$300 \$300.00
SEARCH FEE			\$250 \$	OR	\$500 \$500.00
EXAMINATION FEE			\$100 \$	OR	\$200 \$200.00
Section 1: Sub-Total			\$ _____	OR	Total \$1,000.00
Section 2. EXCESS CLAIM FEES					
TOTAL CLAIMS	<u>16</u>	-20 = <u>0</u>	x25= \$	OR	x50 = \$
INDEP CLAIMS	<u>2</u>	-03 = <u>0</u>	x100 = \$	OR	x200 = \$
☐ Multiple Dependent Claim Presented			\$180 = \$	OR	\$360 = \$
Section 2: Sub-Total			\$ _____	OR	Total \$0.00

Section 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Fee (Large Entity)
 _____ - 100 = _____ / 50 = _____ (round **up** to a whole number) x 250 = \$ _____

OR

Total Sheets Extra Sheets Fee (Small Entity)
 _____ - 100 = _____ / 50 = _____ (round **up** to a whole number) x 125 = \$ _____

Section 3: Sub-Total

Total \$ 0.00

Total Fees: Section 1 + Section 2 + Section 3: \$1,000.00

☒ Check No. 16931 in the amount of \$1,000.00 is enclosed.

☒ The Commissioner is authorized to charge any fees beyond the amount enclosed which may be required, or to credit any overpayment, to Deposit Account No. 50-0805 (Order No. ROXIP259C).

Request for Small Entity Status

☐ Applicant is entitled to small entity status.

General Authorization for Petition for Extension of Time (37 CFR §1.136)

☒ Applicants hereby make and generally authorize any Petitions for Extensions of Time as may be needed for any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR §1.17 as may be needed to Deposit Account No. 50-0805 (Order No. ROXIP259C).

☒ Please send correspondence to the following address:

Kenneth D. Wright
MARTINE PENILLA & GENCARELLA, LLP
710 Lakeway Drive, Suite 200
Sunnyvale, CA 94085
Tel: (408) 774-6903
Fax: (408) 749-6901
Customer Number 25920

Date: August 23, 2006



Kenneth D. Wright
Registration No. 53,795



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/509,503	08/23/2006	Jeffrey A. Smith	ROXIP259C

CONFIRMATION NO. 5950

25920
MARTINE PENILLA & GENCARELLA, LLP
710 LAKEWAY DRIVE
SUITE 200
SUNNYVALE, CA94085

Title: User interface method and system for application programs implemented with component architectures

Publication No. US-2006-0282787-A1

Publication Date: 12/14/2006

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publicly available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 703-305-3028.

Pre-Grant Publication Division, 703-605-4283

PLUS Search Results for S/N 11509503, Searched Tue Mar 24 08:43:22 EDT 2009
 The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

7117446 99	6751780 54
20060282787 99	
20020167543 78	
20080288621 72	
20080270597 69	
5790119 64	
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20070043609 64	
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PLUS Search Results for S/N 11509503, Searched Tue Mar 24 08:43:18 EDT 2009
 The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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PLUS Search Results for S/N 11509503, Searched Thu Jan 13 13:22:06 EST 2011

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

7117446 99	20040111387 64
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PLUS Search Results for S/N 11509503, Searched Thu Jan 13 13:22:03 EST 2011

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

20060282787 99	6477527 65
7117446 89	
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6292186 65	
6446109 65	



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Address: COMMISSIONER FOR PATENTS
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	ROXIP259C	5950
25920 7590 01/19/2011 MARTINE PENILLA & GENCARELLA, LLP 710 LAKEWAY DRIVE SUITE 200 SUNNYVALE, CA 94085			EXAMINER HUR, ECE	
			ART UNIT 2172	PAPER NUMBER
			MAIL DATE 01/19/2011	DELIVERY MODE PAPER

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

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 11/509,503	Applicant(s) SMITH ET AL.	
	Examiner ECE HUR	Art Unit 2172	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 August 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 August 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) ☐ Notice of Informal Patent Application |
| 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) ☐ Other: _____ |

DETAILED ACTION

This action is responsive to application filed on August 23, 2006 in which claims 1 to 16 are presented for examination.

Status of Claims

Claims 1-20 are pending in the case. Claims 1 and 9 are the independent Claims.
Claims 1-8 are rejected under 35 U.S.C. 101.
Claims 1-20 are rejected under 35 U.S.C. 103 (a).

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-8 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter, specifically directed towards Software program per se.

Regarding Claims 1-8, Claims 1-8 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter and claiming "Software" per se. Software is functional descriptive material that can be considered statutory only if it is both functional and clearly embodied on a computer readable medium and designed to support specific data manipulation function. When functional

descriptive material is recorded on a computer-readable medium it will become structurally and functionally interrelated the medium and will be statutory in most cases since the use of technology permits the function of the descriptive material to be realized. See *In re Lowry*, 32 F.3d 1579, 32 USPQ2d 1031, 1035 (Fed. Cir 1994) and *Warmerdam*, 33 F.3d at 1360-61, 31 USPQd at 1759. A Software structure is functional if the specific arrangement of data enables a computer to accomplish useful result arising from the arrangement of the data in the software. However, only computer readable medium executed instruction by a processor could be statutory, it is not clearly defined as being embodied in a computer readable medium as executed instruction and is therefore not statutory. See *Warmerdam*, 33 F.3d at 1360, 31 USPQ2d at 1759.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lynch, US 6,558,431 in view of Chow, US 6,038,395.

Regarding Claim 1, Lynch discloses the claimed aspect of a *computer implemented system for providing a graphical user interface, comprising: a renderer defined to render a graphical user interface (GUI) for an application program*(Lynch, FIG. 705); *a workflow manager defined to communicate one or more document viewers and associated user interface components for provision to the renderer as components necessary for rendering the GUI.*(Lynch, FIG. 7, Source Formatter 707).

Lynch does not specifically discloses the claimed aspect of *a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program*, however Chow discloses the claimed aspect, wherein interface Repository, in easily changeable

form, with the necessary knowledge for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature to Lynch because this would provide context sensitive GUI without changing the source code.

Regarding Claim 2, most of the limitations have been met in the rejection of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the renderer. (Lynch, FIG. 7, 705). Lynch does not disclose the claimed aspect, however Chow discloses the claimed aspect of the proxy enables details of each component which makes up the application program to be hidden from the renderer, wherein the renderer and proxy are separate units. The renderer would render what the proxy provides as components for the GUI. It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature to Lynch because this would allow to render a context sensitive GUI.

Regarding Claim 3, most of the limitations have been met in the rejection of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the renderer. (Lynch, FIG. 7, 705). Lynch does not specifically discloses the claimed aspect of proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer, however Chow discloses the claimed aspect, wherein interface Repository, in easily changeable form, with the necessary knowledge

for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature to Lynch because this would provide context sensitive GUI without changing the source code. Proxy's changes will be apparent to the renderer to present the GUI.

Regarding Claim 4, most of the limitations have been met in the rejection of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format in FIG. 7, wherein the renderer 705 uses the document tree 704 to form a screen display page. (Lynch, Column 4, lines 50-52, Column 5, lines 44-45, 56-59).

Regarding Claim 5, most of the limitations have been met in the rejection of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer, wherein document is displayed and modified. (Lynch, FIG. 11, 1101, 1102, FIG. 6, 601, 602, Column 4, lines 52-61).

Regarding Claim 6, most of the limitations have been met in the rejection of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Regarding Claim 7, most of the limitations have been met in the rejection of Claim 6. See the rejection of Claim 6 for details. Lynch discloses the claimed aspect of the workflow manager is defined to register user interface components for each registered workflow, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Regarding Claim 8, most of the limitations have been met in the rejection of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of an active document manager defined to retrieve a document required by a workflow upon registration of the workflow with the workflow manager, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Lynch discloses the claimed aspect of renderer in FIG. 7, wherein renderer is illustrated. Lynch does not specifically disclose the claimed aspect of proxy, however

Chow discloses the claimed aspect, wherein interface Repository, in easily changeable form, with the necessary knowledge for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature to Lynch to communicate the retrieved document to the workflow manager for provision to the renderer through the proxy because this would provide context sensitive GUI without changing the source code.

Regarding Claim 9, Claim 9 and Claim 1 are similar in scope and rejected under similar rationale. See rejection details for Claim 1.

Regarding Claim 10, the rejection for Claim 9 is incorporated. See rejection details for Claim 9. Claim 10 and Claim 2 are similar in scope and rejected under similar rationale. See rejection details for Claim 2.

Regarding Claim 11, the rejection for Claim 9 is incorporated. See rejection details for Claim 9. Claim 11 and Claim 3 are similar in scope and rejected under similar rationale. See rejection details for Claim 3.

Regarding Claim 12, the rejection for Claim 9 is incorporated. See rejection details for Claim 9. Claim 12 and Claim 4 are similar in scope and rejected under similar rationale. See rejection details for Claim 4.

Regarding Claim 13, the rejection for Claim 9 is incorporated. See rejection details for Claim 9. Claim 13 and Claim 5 are similar in scope and rejected under similar rationale. See rejection details for Claim 5.

Regarding Claim 14, the rejection for Claim 9 is incorporated. See rejection details for Claim 9. Claim 14 and Claim 6 are similar in scope and rejected under similar rationale. See rejection details for Claim 6.

Regarding Claim 15, the rejection for Claim 9 is incorporated. See rejection details for Claim 9. Claim 15 and Claim 7 are similar in scope and rejected under similar rationale. See rejection details for Claim 7.

Regarding Claim 16, the rejection for Claim 9 is incorporated. See rejection details for Claim 9. Claim 16 and Claim 8 are similar in scope and rejected under similar rationale. See rejection details for Claim 8.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See 892 for more and details.

- 1) Hill, US 5,511,197, "Proxy Interface".
- 2) Krueger, US 5,602,729, "Widget Proxy".
- 3) Novik, US 6,314,533, "Proxy Component".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ECE HUR whose telephone number is (571) 270-1972. The examiner can normally be reached on MONDAY-THURSDAY 7:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BORIS PESIN can be reached on (571) 272-4070. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ece Hur
E.H./e.h.

January 13, 2011
/Boris Pesin/
Supervisory Patent Examiner, Art Unit 2172

Notice of References Cited	Application/Control No. 11/509,503		Applicant(s)/Patent Under Reexamination SMITH ET AL.	
	Examiner ECE HUR		Art Unit 2172	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,511,197 A	04-1996	Hill et al.	719/328
*	B	US-5,602,729 A	02-1997	Krueger et al.	717/124
*	C	US-6,038,395 A	03-2000	Chow et al.	717/105
*	D	US-6,314,533 B1	11-2001	Novik et al.	714/39
*	E	US-6,385,661 B1	05-2002	Guthrie et al.	719/316
*	F	US-6,473,407 B1	10-2002	Ditmer et al.	370/252
*	G	US-2002/0167543 A1	11-2002	SMITH et al.	345/762
*	H	US-6,558,431 B1	05-2003	Lynch et al.	715/210
*	I	US-6,799,320 B1	09-2004	Elvanoglu et al.	719/331
*	J	US-2004/0215600 A1	10-2004	Aridor et al.	707/003
*	K	US-6,842,175 B1	01-2005	Schmalstieg et al.	345/427
*	L	US-6,925,466 B2	08-2005	Jensen et al.	1/1
*	M	US-7,055,136 B2	05-2006	Dzoba et al.	717/125

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
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	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 11/509,503		Applicant(s)/Patent Under Reexamination SMITH ET AL.	
	Examiner ECE HUR		Art Unit 2172	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,117,445 B2	10-2006	Berger, Kelly D.	715/752
*	B	US-7,512,896 B2	03-2009	Rockey et al.	715/779
*	C	US-7,624,356 B1	11-2009	Rockey et al.	715/811
	D	US-			
	E	US-			
	F	US-			
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<i>Index of Claims</i> 	Application/Control No. 11509503	Applicant(s)/Patent Under Reexamination SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant		☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE							
Final	Original	01/13/2011							
	1	✓							
	2	✓							
	3	✓							
	4	✓							
	5	✓							
	6	✓							
	7	✓							
	8	✓							
	9	✓							
	10	✓							
	11	✓							
	12	✓							
	13	✓							
	14	✓							
	15	✓							
	16	✓							

Search Notes 	Application/Control No. 11509503	Applicant(s)/Patent Under Reexamination SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

SEARCHED			
Class	Subclass	Date	Examiner
715	762, 700, 866, 744	1/12/2011	E.H.
345	676, 594, 589	1/12/2011	E.H.

SEARCH NOTES		
Search Notes	Date	Examiner
Plus Search, EAST, ACM	1/12/2011	E.H.
Inventor Name Search	1/12/2011	E.H.

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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October 2002

A Practical Guide to Red Hat Linux with Cdrom

Publisher: Addison-Wesley Longman Publishing Co., Inc.Full text available: [Safari](#) [Online Book](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

From the Book: This is a straightforward, easy-to-read, logically organized book about GNU/Linux¹ by an author who has been writing successful books on UNIX/Linux operating systems for over 20 years. It is for people with some computer experience ...

2 [Apache Server for Windows Little Black Book](#)[Greg Holden](#), [Matthew Keller](#)

January 1999

Apache Server for Windows Little Black Book

Publisher: Coriolis Group Books**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

From the Book:

3 [GUMP: adapting client/server messaging protocols into peer-to-peer serverless environments](#)[Robert N. Less](#), [Joe Macker](#), [David Millar](#), [Ian J. Taylor](#)

June 2010

BADS '10: Proceeding of the 2nd workshop on Bio-inspired algorithms for distributed systems**Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (582.85 KB)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 44, Downloads (Overall): 44, Citation Count: 0

In this paper we present a generic environment for creating message-oriented server-side proxies to support adaptation from TCP transport-oriented client-server sessions to many-to-many peer-to-peer networking environments more suitable for deployment ...

Keywords: JmDNS, NORM, SLP, XMPP, multicast, peer- to-peer, serverless chat, ws-notification4 [Core Java 2: Volume 1, Fundamentals, Sixth Edition, 6th edition](#)[Gay S. Horstmann](#), [Gary Cornell](#)

August 2002

Core Java 2: Volume 1, Fundamentals, Sixth Edition, 6th edition

Publisher: Pearson EducationFull text available: [Safari](#) [Online Book](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

From the Book:

Preface

To the Reader

In late 1995, the Java programming language burst onto the Internet scene and gained instant celebrity status. The promise of Java technology was that it would become the *universal glue* that connects ...

5 [WebTraff: A GUI for Web Proxy Cache Workload Modeling and Analysis](#)[N. Markatchev](#), [C. Williamson](#)

October 2002

MASCOTS '02: Proceedings of the 10th IEEE International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunications Systems**Publisher:** IEEE Computer SocietyFull text available: [Publisher Site](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

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BIB DATA SHEET

CONFIRMATION NO. 5950

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
11/509,503	08/23/2006	715	2172	ROXIP259C		
RULE						
APPLICANTS Jeffrey A. Smith, Stouffville, CANADA; Alan Page, Toronto, CANADA; S. Prasad Maruvada, Newmarket, CANADA; Scott A. Northmore, Carling, CANADA; E.H. YES 01/13/2011						
** CONTINUING DATA ***** This application is a CON of 09/240,844 02/01/1999 PAT 7,117,446						
** FOREIGN APPLICATIONS ***** NONE E.H. 01/13/2011						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 09/07/2006						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☐ No Verified and /ECE HUR/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY CANADA	SHEETS DRAWINGS 7	TOTAL CLAIMS 16	INDEPENDENT CLAIMS 2
ADDRESS MARTINE PENILLA & GENCARELLA, LLP 710 LAKEWAY DRIVE SUITE 200 SUNNYVALE, CA 94085 UNITED STATES						
TITLE User interface method and system for application programs implemented with component architectures						
FILING FEE RECEIVED 1000	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

Titles of most frequently occurring classifications of patents returned
from a search of 11509503 on Jan 13, 2011

9 715/762 (7 OR, 2 XR)
Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
715/762 .. User interface development (e.g., GUI builder)

5 719/328 (1 OR, 4 XR)
Class 719 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS:
INTERPROGRAM COMMUNICATION OR INTERPROCESS COMMUNICATION (IPC)
719/328 . APPLICATION PROGRAM INTERFACE (API)

4 715/810 (1 OR, 3 XR)
Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
715/764 .. On-screen workspace or object
715/810 ... Menu or selectable iconic array (e.g., palette)

3 717/105 (3 OR, 0 XR)
Class 717 DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND
MANAGEMENT
717/100 . SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G., INTEGRATED CASE
TOOL OR STAND-ALONE DEVELOPMENT TOOL)
717/104 .. Modeling
717/105 ... Visual

3 715/835 (0 OR, 3 XR)
Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
715/764 .. On-screen workspace or object
715/810 ... Menu or selectable iconic array (e.g., palette)
715/835 Selectable iconic array

3 345/156 (2 OR, 1 XR)
Class 345 COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY
SYSTEMS
345/156 . DISPLAY PERIPHERAL INTERFACE INPUT DEVICE

3 715/866 (0 OR, 3 XR)
Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
715/866 .. Miscellaneous customization or adaptation

3 715/781 (0 OR, 3 XR)
Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
715/764 .. On-screen workspace or object
715/781 ... Window or viewpoint

2 345/589 (1 OR, 1 XR)
Class 345 COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY
SYSTEMS
345/418 . COMPUTER GRAPHICS PROCESSING
345/581 .. Attributes (surface detail or characteristic, display
attributes)
345/589 ... Color or intensity

2 715/764 (1 OR, 1 XR)
 Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
 OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
 715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
 715/764 .. On-screen workspace or object

2 G9B/27.051 (0 OR, 2 XR)
 Class G9B INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN
 RECORD CARRIER AND TRANSDUCER
 G9B/27 . Editing; Indexing; Addressing; Timing or synchronising;
 Monitoring; Measuring tape travel {G11B 27/00}
 G9B/27.017 .. Indexing; Addressing; Timing or synchronising; Measuring
 tape travel {G11B 27/10}
 G9B/27.051 ... Indicating arrangements (indicating measured values in
 general G01D) [N: indicating means incorporated in magazine or cassette G9B/23.055
 and G9B/23.069] {G11B 27/34}

2 345/157 (0 OR, 2 XR)
 Class 345 COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY
 SYSTEMS
 345/156 . DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/157 .. Cursor mark position control device

2 345/629 (1 OR, 1 XR)
 Class 345 COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY
 SYSTEMS
 345/418 . COMPUTER GRAPHICS PROCESSING
 345/619 .. Graphic manipulation (object processing or display
 attributes)
 345/629 ... Merge or overlay

2 709/208 (2 OR, 0 XR)
 Class 709 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS:
 MULTI COMPUTER DATA TRANSFERRING
 709/208 . MASTER/SLAVE COMPUTER CONTROLLING

2 715/803 (2 OR, 0 XR)
 Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
 OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
 715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
 715/764 .. On-screen workspace or object
 715/781 ... Window or viewpoint
 715/803 Window differentiation

2 717/109 (0 OR, 2 XR)
 Class 717 DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND
 MANAGEMENT
 717/100 . SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G., INTEGRATED CASE
 TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/106 .. Code generation
 717/109 ... Visual

2 715/839 (0 OR, 2 XR)
 Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
 OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
 715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
 715/764 .. On-screen workspace or object
 715/810 ... Menu or selectable iconic array (e.g., palette)
 715/835 Selectable iconic array
 715/839 Imitating real life object

2 715/825 (1 OR, 1 XR)

Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
 OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
 715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
 715/764 .. On-screen workspace or object
 715/810 ... Menu or selectable iconic array (e.g., palette)
 715/825 Dynamically generated menu items

2 715/853 (0 OR, 2 XR)
 Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
 OPERATOR INTERFACE PROCESSING AND SCREEN SAVER DISPLAY PROCESSING
 715/700 . OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
 715/764 .. On-screen workspace or object
 715/853 ... Hierarchy or network structure

2 719/331 (1 OR, 1 XR)
 Class 719 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS:
 INTERPROGRAM COMMUNICATION OR INTERPROCESS COMMUNICATION (IPC)
 719/331 . DYNAMIC LINKING, LATE BINDING

2 717/136 (1 OR, 1 XR)
 Class 717 DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND
 MANAGEMENT
 717/100 . SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G., INTEGRATED CASE
 TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/136 .. Translation of code

2 718/100 (0 OR, 2 XR)
 Class 718 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: VIRTUAL
 MACHINE TASK OR PROCESS MANAGEMENT OR TASK MANAGEMENT/CONTROL
 718/100 . TASK MANAGEMENT OR CONTROL

2 710/8 (0 OR, 2 XR)
 Class 710 ELECTRICAL COMPUTERS AND DIGITAL DATA PROCESSING SYSTEMS:
 INPUT/OUTPUT
 710/1 . INPUT/OUTPUT DATA PROCESSING
 710/8 .. Peripheral configuration

2 719/318 (2 OR, 0 XR)
 Class 719 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS:
 INTERPROGRAM COMMUNICATION OR INTERPROCESS COMMUNICATION (IPC)
 719/318 . EVENT HANDLING OR EVENT NOTIFICATION

2 717/129 (0 OR, 2 XR)
 Class 717 DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND
 MANAGEMENT
 717/100 . SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G., INTEGRATED CASE
 TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/124 .. Testing or debugging
 717/127 ... Monitoring program execution
 717/129 Using breakpoint

2 714/E11.21 (0 OR, 2 XR)
 Class 714 ERROR DETECTION/ CORRECTION AND FAULT DETECTION/RECOVERY
 714/E11.001 . ERROR DETECTION; ERROR CORRECTION; MONITORING (EPO)
 714/E11.207 .. Preventing errors by testing or debugging software (EPO)
 714/E11.208 ... Software debugging (EPO)
 714/E11.21 Debuggers (EPO)

2 717/125 (0 OR, 2 XR)
 Class 717 DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND
 MANAGEMENT
 717/100 . SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G., INTEGRATED CASE
 TOOL OR STAND-ALONE DEVELOPMENT TOOL)

11509503_CLSTI TLES.txt

717/124 ..Testing or debugging

717/125 ...Having interactive or visual

2 715/744 (0 OR, 2 XR)

Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT,
 OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING

715/700 . OPERATOR INTERFACE (E. G., GRAPHICAL USER INTERFACE)

715/733 ..For plural users or sites (e.g., network)

715/744 ...Interface customization or adaption (e.g., client server)

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6925466").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 18:02
S1	869	715/762.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 09:56
S2	2020	345/676,594,589.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 09:57
S3	1477	715/700.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 09:59
S4	4323	S1 or S2 or S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 09:59
S5	23	(proxy) same (render\$4) same (workflow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:00
S6	1469	(proxy) same (render\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:21

S7	42	(proxy) same (render\$4) and dhtml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:22
S8	1261	(proxy) same (render\$4) and interface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:24
S9	17	"6405192"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:25
S10	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/10 13:52
S12	2	("20020167543").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/10 14:00
S13	2683	context same sensitive same (gui or interface or ui or component or object or element) same (proxy or software or program or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:19
S14	2	context same sensitive same (gui or interface or ui or component or object or element) same (proxy or software or program or application) same render\$4 same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:20
S15	587	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:21

S16	102	context near4 sensitive near4 (gui or interface or ui or component or object or element) near4 (proxy or software or program or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:21
S17	145	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application) and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:23
S18	2	("5644738").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 11:43
S19	2	("6801929").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 11:45
S20	2	("6584469").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 11:45
S21	8	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application) and student and professional and version	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:54
S22	11	different same version same (software or application or product) same student same version same professional	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:56
S23	10	(provid\$4 or display) same different same (gui or interface or ui) same student same professional	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:59

S24	18230	proxy same (gui or interface or ui)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:05
S25	6	proxy same (gui or interface or ui) same context same sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:05
S26	1763	proxy same (gui or interface or ui) same architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:09
S27	283	proxy with (gui or interface or ui) with architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10
S28	35	proxy near4 (gui or interface or ui) near4 architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10
S30	17	proxy with (gui or interface or ui) with architecture and context with sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10
S31	684	proxy with (contain\$4 or provid\$4) same (gui or interface or ui) with (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:29
S32	405	proxy with (contain\$4 or provid\$4) with (gui or interface or ui) with (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:29

S33	74	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:29
S34	1	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element) and context with sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:30
S35	74	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:31
S36	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 14:45
S37	2837	715/762,866,744.CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:11
S38	96	document same manager same retriev\$4 same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:14
S39	5	S37 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:14
S40	13	document same manager same retriev\$4 same required same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 16:13

1/13/2011 6:03:18 PM

C:\Documents and Settings\ehur\My Documents\EAST\Workspaces
\11509503_ProxyRenderer.wsp

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of)
SMITH, et al.) Examiner: Hur, Ece
Application No: 11/509,503) Art Unit: 2172
Filed: August 23, 2006) Atty. Docket No: ROXIP259C
For: User Interface Method and System) Date: May 19, 2011
for Application Programs Implemented)
with Component Architectures)

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office via electronic filing with EFS-Web on **May 19, 2011**.

Signed: 
Kenneth D. Wright

AMENDMENT

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This Amendment is submitted in reply to the Office Action dated January 19, 2011, and within the period for reply extending to May 19, 2011, with payment of a one-month extension of time fee. The Applicants hereby petition for the one-month extension for reply. Please enter the following amendments and remarks.

Amendments to the Claims are reflected in the Listing of Claims that begins on page 2 of this Amendment.

Remarks/Arguments begin on page 7 of this Amendment.

Electronic Patent Application Fee Transmittal				
Application Number:		11509503		
Filing Date:		23-Aug-2006		
Title of Invention:		User interface method and system for application programs implemented with component architectures		
First Named Inventor/Applicant Name:		Jeffrey A. Smith		
Filer:		Kenneth Duane Wright		
Attorney Docket Number:		ROXIP259C		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with \$0 paid	1251	1	130	130

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				130

Electronic Acknowledgement Receipt

EFS ID:	10130228
Application Number:	11509503
International Application Number:	
Confirmation Number:	5950
Title of Invention:	User interface method and system for application programs implemented with component architectures
First Named Inventor/Applicant Name:	Jeffrey A. Smith
Customer Number:	25920
Filer:	Kenneth Duane Wright
Filer Authorized By:	
Attorney Docket Number:	ROXIP259C
Receipt Date:	19-MAY-2011
Filing Date:	23-AUG-2006
Time Stamp:	16:59:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 130
RAM confirmation Number	3593
Deposit Account	500805
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	ROXIP259C_amd_5-18-11_efile d.PDF	286821	no	10
			fe1dd0c1164c3643f91852767516dda7650850b3		

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	30141	no	2
			5332eea4eaf5e7ca22d6eb33e30c19925fb068b2		

Warnings:

Information:

Total Files Size (in bytes):			316962
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

LISTING OF CLAIMS

The listing of claims provided below replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A computer implemented system for providing a graphical user interface, comprising:

a renderer defined to render a graphical user interface (GUI) for an application program;

a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and

a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI,

wherein the renderer, the proxy, and the workflow manager are executed by a computer.

2. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein the proxy enables details of each component which makes up the application program to be hidden from the renderer.

3. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein the proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer.

4. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format.

5. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer.

6. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components.

7. (Original) A computer implemented system for providing a graphical user interface as recited in claim 6, wherein the workflow manager is defined to register user interface components for each registered workflow.

8. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, further comprising:

an active document manager defined to retrieve a document required by a workflow upon registration of the workflow with the workflow manager and communicate the retrieved document to the workflow manager for provision to the renderer through the proxy.

9. (Currently Amended) A method for providing a graphical user interface, comprising:

operating a renderer to render a graphical user interface (GUI) for an application program;

operating a proxy to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and

operating a workflow manager to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

10. (Original) A method for providing a graphical user interface as recited in claim 9, wherein the proxy functions to hide details of each component which makes up the application program from the renderer.

11. (Original) A method for providing a graphical user interface as recited in claim 9, wherein the proxy functions to enable each component which makes up the application program to be modified in a manner that is transparent to the renderer.

12. (Original) A method for providing a graphical user interface as recited in claim 9, wherein each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format.

13. (Original) A method for providing a graphical user interface as recited in claim 9, wherein each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer.

14. (Original) A method for providing a graphical user interface as recited in claim 9, further comprising:

registering a workflow associated with each document viewer with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components.

15. (Original) A method for providing a graphical user interface as recited in claim 14, wherein the workflow manager functions to register user interface components for each registered workflow.

16. (Original) A method for providing a graphical user interface as recited in claim 9, further comprising:

operating an active document manager to retrieve a document required by a workflow upon registration of the workflow with the workflow manager, further operating the active document manager to communicate the retrieved document to the workflow manager for provision to the renderer through the proxy.

REMARKS/ARGUMENTS

This Amendment is submitted in reply to the Office Action dated January 19, 2011, and within the period for reply extending to May 19, 2011, with payment of a one-month extension of time fee. The Applicants hereby petition for the one-month extension of time for reply.

Claims 1 and 9 are currently amended.

Claims 1-16 remain pending.

Rejections Under 35 U.S.C. 101

Claims 1-8 were rejected under 35 U.S.C. 101 as being directed to non-statutory subject matter. These rejections are traversed.

The Office has asserted that claims 1-8 are directed to software, and therefore do not fall within scope of statutory subject matter as set forth in 35 U.S.C. 101. The Applicants have amended claim 1 to recite that the renderer, the proxy, and the workflow manager are executed by a computer. Therefore, the components of the computer implemented system of amended claim 1 are tied to a computer, i.e., an apparatus, which is statutory subject matter per 35 U.S.C. 101. Therefore, the computer implemented system of amended claim 1 is directed to statutory subject matter per 35 U.S.C. 101. The Applicants kindly request the Office to withdraw the rejections of claims 1-8 under 35 U.S.C. 101.

Rejections Under 35 U.S.C. 103

Claim 1-16 were rejected under 35 U.S.C. 103(a) as being unpatentable over Lynch et al. ("Lynch" hereafter) (U.S. Patent No. 6,558,431) in view of Chow et al. ("Chow" hereafter) (U.S. Patent No. 6,038,395). These rejections are traversed.

Claim 1

In applying the combination of Lynch and Chow to reject claim 1, the Office has asserted that the proxy objects of Chow teach the proxy of claim 1. The Applicants respectfully disagree.

Claim 1 recites that the proxy appears to the renderer as a single monolithic application program. However, the proxy objects of Chow do not correspond to a single monolithic application program. Rather, Chow (column 9, lines 35-38) teaches that the visual builder is a proxy tree, with the proxy objects being the "source" which is manipulated and edited by the visual programmer at build time. Chow (column 9, lines 9-13) also teaches that the proxy objects are created by the visual builder during build time and that the proxy objects map to corresponding runtime target objects. Also, Chow (column 9, lines 30-34) teaches that there is a one-to-one mapping between the proxy objects at build time and the target objects at runtime. Therefore, it should be understood that Chow teaches use of multiple proxy objects, where each proxy object corresponds to one target object. Consequently, the proxy objects of Chow do not fairly teach or suggest a proxy that appears to a renderer as a single monolithic application program, as recited in claim 1.

The foregoing notwithstanding, the Applicants have amended claim 1 to further clarify that the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI. Chow simply does not teach that the proxy objects of the visual builder are defined to determine changes required to be made to a GUI for an application program during execution of the application program, much less wherein a given change is one of rendering a new layout in the GUI and updating a present layout in the GUI.

In fact, the proxy objects of Chow are not even present during execution of a program with which they are associated. Rather, Chow (column 10, line 65, through column 11, line 12) teaches that the target objects that correspond to the proxy objects are used to form a runtime tree that is actually executed. Therefore, the proxy objects of Chow cannot be reasonably construed to teach a proxy that is defined to determine changes required to be made to the GUI for the application program during execution of the application program,

wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI, as recited in amended claim 1.

Additionally, Chow (column 9, line 56, through column 10, line 5) teaches the following:

"Now that the notion of a "proxy" object has been introduced as a fundamental concept of the present invention, it is necessary to detail the functions it must be capable of performing. They are as follows:

Representative Proxy Functions

1. Present itself at build time.
2. Provide storage for, and access to, property values.
3. Provide information on the events available on corresponding target object.
4. Provide information on the operations available on corresponding target object.
5. Save itself on, and restore itself from, a persistent medium.
6. Copy itself.
7. Realize itself, and subsequently detach itself from the realized target object tree, and destroy itself."

As indicted in the above-identified teaching of Chow, the proxy object must be capable of destroying itself. Therefore, the proxy object of Chow does not actually make it into an executing program. Thus, the proxy objects of Chow cannot be reasonably construed to teach a proxy that is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI, as recited in amended claim 1.

Based on the foregoing, the Applicants submit that the combination of Lynch and Chow does not teach or suggest all the features of amended claim 1, and therefore does not

render amended claim 1 prima facie obvious under 35 U.S.C. 103. The Office is requested to withdraw the rejection of amended claim 1 under 35 U.S.C. 103.

Claim 9

Amended claim 9 recites features similar to those of amended claim 1. In applying the combination of Lynch and Chow to reject claim 9, the Office has made the same assertions against the features of claim 9 as made against similar features of claim 1. To the extent that amended claim 9 recites features similar to those recited in amended claim 1, the arguments presented above with regard to amended claim 1 are equally applicable to amended claim 9.

Therefore, the Applicants submit that the combination of Lynch and Chow does not teach or suggest all the features of amended claim 9, and therefore does not render amended claim 9 prima facie obvious under 35 U.S.C. 103. The Office is requested to withdraw the rejection of amended claim 9 under 35 U.S.C. 103.

Dependent Claims 2-8 and 10-16

Because a dependent claim includes each and every feature of its independent claim, the dependent claim is patentable for at least the same reasons as its independent claim. Therefore, each of dependent claims 2-8 and 10-16 is patentable for at least the same reasons as its independent claim. The Office is requested to withdraw the rejections of claims 2-8 and 10-16 under 35 U.S.C. 103.

The Applicants respectfully submit that all of the pending claims are in condition for allowance. Therefore, a Notice of Allowance is requested. If the Examiner has any questions concerning the present Amendment, the Examiner is kindly requested to contact the undersigned at (408) 774-6914. Also, if any additional fees are due in connection with filing this Amendment, the Commissioner is authorized to charge Deposit Account No. 50-0805 (Order No. ROXIP259C).

Respectfully submitted,
MARTINE PENILLA & GENCARELLA, LLP



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Customer Number 25920

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/509,503		Filing Date 08/23/2006		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY ☐ OR		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A		N/A		N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A		N/A		N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A		N/A		N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=	X \$	=	X \$	=	X \$	=
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=	X \$	=	X \$	=	X \$	=
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))			If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY	
AMENDMENT	05/19/2011	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 16	Minus	** 20	= 0	X \$	=	X \$52=	0	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X \$	=	X \$220=	0	0
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE		TOTAL ADD'L FEE	0	
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$	=	X \$	=	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$	=	X \$	=	=
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE		TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

 Legal Instrument Examiner:
 /TERRY MALLOY/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	ROXIP259C	5950
25920 7590 08/01/2011 MARTINE PENILLA & GENCARELLA, LLP 710 LAKEWAY DRIVE SUITE 200 SUNNYVALE, CA 94085			EXAMINER HUR, ECE	
			ART UNIT 2172	PAPER NUMBER
			MAIL DATE 08/01/2011	DELIVERY MODE PAPER

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

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	11/509,503	SMITH ET AL.	
	Examiner	Art Unit	
	ECE HUR	2172	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2011.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 August 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) ☐ Notice of Informal Patent Application |
| 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) ☐ Other: _____ |

DETAILED ACTION

This action is responsive to Response/Arguments filed on May 19, 2011 in which Claims 1-16 are pending.

Status of Claims

Claims 1-16 are pending in the case. Claims 1 and 9 are the independent Claims. Claims 1-16 are rejected under 35 U.S.C. 103 (a).

Response to Arguments

Applicant's arguments filed May 19, 2011 have been fully considered. See rejection for details. Applicant argued:

- 1) Regarding Claims 1-8 rejection under 35 U.S.C. 101, the rejection is withdrawn because applicant amended the Claim.
- 2) Applicant argues that Chow does not disclose single monolithic application, however Chow discloses that Interface repository being contained in the proxy object itself therefore it is a monolithic application and there could only one proxy object. (Chow, Abstract, Brief Summary, FIG. 8).
- 3) Applicant's arguments with respect to amended Claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lynch, US 6,558,431 in view of Chow, US 6,038,395 in further view of Carpenter, US 7,168,086.

Regarding Claim 1, Lynch discloses the claimed aspect of a *computer implemented system for providing a graphical user interface, comprising: a renderer*

defined to render a graphical user interface (GUI) for an application program (Lynch, FIG. 705); a workflow manager defined to communicate one or more document viewers and associated user interface components for provision to the renderer as components necessary for rendering the GUI, renderer, workflow manager are executed by a computer. (Lynch, FIG. 7, Source Formatter 707, FIG. 12).

Lynch does not specifically disclose the claimed aspect of *a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program*, however Chow discloses the claimed aspect and proxy is executed by a computer, wherein interface Repository, in easily changeable form, with the necessary knowledge for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract, Brief Summary). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature to Lynch because this would provide context sensitive GUI without changing the source code. Lynch and Chow do not disclose specifically the claimed aspect of *the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI*, however Carpenter discloses the claimed aspect, wherein proxy server certain client UI elements (e.g. buttons, controls, graphics, labels, and other screen customizations presented to the

viewer on the client terminal), it is possible to update the UI elements with new features, or to apply changes to reflect new promotional features or different branding, as needed. For example, the logo of a particular video-on-demand server may appear on a button on a UI screen presented to a viewer. The server UI 78 of the proxy server 24 can dynamically change that logo as it appears on the various client terminals 14 to reflect the branding of the various video-on-demand back-end servers 30 it controls. (Carpenter, Column 5, lines 54-65). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of updating GUI elements dynamically to Lynch and Chow because this would allow the interface elements to promote certain brand. For example logo may appear on the button.

Regarding Claim 2, Lynch, Chow, Carpenter teach of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the renderer. (Lynch, FIG. 7, 705). Lynch does not disclose the claimed aspect, however Chow discloses the claimed aspect of the proxy enables details of each component which makes up the application program to be hidden from the renderer, wherein the renderer and proxy are separate units. The renderer would render what the proxy provides as components for the GUI. It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of proxy enables details of each component which makes up the application program to be hidden from the renderer to Lynch because this would allow to render a context sensitive GUI.

Regarding Claim 3, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the renderer. (Lynch, FIG. 7, 705). Lynch does not specifically disclose the claimed aspect of proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer, however Chow discloses the claimed aspect, wherein interface Repository, in easily changeable form, with the necessary knowledge for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer to Lynch because this would provide context sensitive GUI without changing the source code. Proxy's changes will be apparent to the renderer to present the GUI.

Regarding Claim 4, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format in FIG. 7, wherein the renderer 705 uses the document tree 704 to form a screen display page. (Lynch, Column 4, lines 50-52, Column 5, lines 44-45, 56-59).

Regarding Claim 5, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer, wherein document is displayed and modified. (Lynch, FIG. 11, 1101, 1102, FIG. 6, 601, 602, Column 4, lines 52-61).

Regarding Claim 6, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Regarding Claim 7, Lynch, Chow, Carpenter teach all of Claim 6. See the rejection of Claim 6 for details. Lynch discloses the claimed aspect of the workflow manager is defined to register user interface components for each registered workflow, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Regarding Claim 8, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of an active document manager defined to retrieve a document required by a workflow upon registration of the workflow with the workflow manager, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Lynch discloses the claimed aspect of renderer in FIG. 7, wherein renderer is illustrated. Lynch does not specifically disclose the claimed aspect of proxy, however Chow discloses the claimed aspect, wherein interface Repository, in easily changeable form, with the necessary knowledge for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of proxy to Lynch to communicate the retrieved document to the workflow manager for provision to the renderer through the proxy because this would provide context sensitive GUI without changing the source code.

Regarding Claim 9, Claim 9 and Claim 1 are similar in scope and rejected under similar rationale. See rejection details for Claim 1.

Regarding Claim 10, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 10 and Claim 2 are similar in scope and rejected under similar rationale. See rejection details for Claim 2.

Regarding Claim 11, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 11 and Claim 3 are similar in scope and rejected under similar rationale. See rejection details for Claim 3.

Regarding Claim 12, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 12 and Claim 4 are similar in scope and rejected under similar rationale. See rejection details for Claim 4.

Regarding Claim 13, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 13 and Claim 5 are similar in scope and rejected under similar rationale. See rejection details for Claim 5.

Regarding Claim 14, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 14 and Claim 6 are similar in scope and rejected under similar rationale. See rejection details for Claim 6.

Regarding Claim 15, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 15 and Claim 7 are similar in scope and rejected under similar rationale. See rejection details for Claim 7.

Regarding Claim 16, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 16 and Claim 8 are similar in scope and rejected under similar rationale. See rejection details for Claim 8.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See 892 for more and details.

- 1) Hill, US 5,511,197, "Proxy Interface".
- 2) Krueger, US 5,602,729, "Widget Proxy".
- 3) Novik, US 6,314,533, "Proxy Component".

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ECE HUR whose telephone number is (571) 270-1972. The examiner can normally be reached on Mon-Thurs 7:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boris Pesin can be reached on 571-272-4070. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

July 19, 2011
Ece Hur
E.H. /e.h.

/Boris Pesin/

Application/Control Number: 11/509,503

Page 12

Art Unit: 2172

Supervisory Patent Examiner, Art Unit 2172

Notice of References Cited	Application/Control No. 11/509,503		Applicant(s)/Patent Under Reexamination SMITH ET AL.	
	Examiner ECE HUR		Art Unit 2172	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,511,197 A	04-1996	Hill et al.	719/328
*	B	US-5,602,729 A	02-1997	Krueger et al.	717/124
*	C	US-6,038,395 A	03-2000	Chow et al.	717/105
*	D	US-6,314,533 B1	11-2001	Novik et al.	714/39
*	E	US-6,385,661 B1	05-2002	Guthrie et al.	719/316
*	F	US-6,473,407 B1	10-2002	Ditmer et al.	370/252
*	G	US-2002/0167543 A1	11-2002	SMITH et al.	345/762
*	H	US-6,542,908 B1	04-2003	Ims, Steven D.	1/1
*	I	US-6,558,431 B1	05-2003	Lynch et al.	715/210
*	J	US-6,766,333 B1	07-2004	Wu et al.	1/1
*	K	US-6,799,320 B1	09-2004	Elvanoglu et al.	719/331
*	L	US-2004/0215600 A1	10-2004	Aridor et al.	707/003
*	M	US-6,842,175 B1	01-2005	Schmalstieg et al.	345/427

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 11/509,503		Applicant(s)/Patent Under Reexamination SMITH ET AL.	
	Examiner ECE HUR		Art Unit 2172	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,925,466 B2	08-2005	Jensen et al.	1/1
*	B	US-7,055,136 B2	05-2006	Dzoba et al.	717/125
*	C	US-7,117,445 B2	10-2006	Berger, Kelly D.	715/752
*	D	US-7,117,446 B2	10-2006	Smith et al.	715/762
*	E	US-7,168,086 B1	01-2007	Carpenter et al.	725/98
*	F	US-7,512,896 B2	03-2009	Rockey et al.	715/779
*	G	US-7,624,356 B1	11-2009	Rockey et al.	715/811
*	H	US-7,865,919 B2	01-2011	Carpenter et al.	725/37
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	S					
	T					

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	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 11509503	Applicant(s)/Patent Under Reexamination SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant				☐ CPA				☐ T.D.				☐ R.1.47			
CLAIM		DATE													
Final	Original	01/13/2011	07/19/2011												
	1	✓	✓												
	2	✓	✓												
	3	✓	✓												
	4	✓	✓												
	5	✓	✓												
	6	✓	✓												
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	13	✓	✓												
	14	✓	✓												
	15	✓	✓												
	16	✓	✓												

Search Notes 	Application/Control No. 11509503	Applicant(s)/Patent Under Reexamination SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

SEARCHED			
Class	Subclass	Date	Examiner
715	762, 700, 866, 744	1/12/2011	E.H.
345	676, 594, 589	1/12/2011	E.H.

SEARCH NOTES		
Search Notes	Date	Examiner
Plus Search, EAST, ACM	1/12/2011	E.H.
Inventor Name Search	1/12/2011	E.H.
Updated Search	7/19/2011	E.H.

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

--	--

Asynchronous Method Invocation (AMI)

www.zeroc.com/doc/Ice-3.4.1-IceTouch/.../Csharp.15.16.html - Cached

Besides the synchronous **proxy** methods, slice2cs generates the following begin_ method knows which user **interface element** should receive the **update**, ...

Design Considerations for Proxy Objects (Windows)

[msdn.microsoft.com/en-us/library/dd318047\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/dd318047(v=vs.85).aspx) - Cached

Proxy and accessible object design depends on the design of the server **UI elements**. Regardless of the design, a **UI element** must notify its **proxy** object ...

HIBERNATE TUTORIAL - Hibernate O/R Mapping, <class> element

www.allapptabs.com/.../hibernate_o_r_mapping_class_element.htm - Cached

(7), **proxy** (optional): Specifies an **interface** to use for lazy initializing **proxies**. You may specify the name of the class itself. (8), dynamic-**update** ...

Getting ClamXav to use a Proxy Server : Bart Busschots

www.bartbusschots.ie/blog/?p=2060 - Cached
Jul 1, 2011 -- Getting ClamXav to use a **Proxy** Server
· Photo of the Week 172 ... and it has no **interface elements** of its own to allow you to specify a **proxy** server manually. ... Restart ClamXav and you should now be able **update** your ...

1 2 3 4 5 6 7 8 9 10 [Next](#)

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("7168086").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/19 16:24
L6	2	("6038395").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/19 17:33
L7	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/19 18:00
S1	869	715/762.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 09:56
S2	2020	345/676,594,589.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 09:57
S3	1477	715/700.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 09:59
S4	4323	S1 or S2 or S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 09:59

S5	23	(proxy) same (render\$4) same (workflow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:00
S6	1469	(proxy) same (render\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:21
S7	42	(proxy) same (render\$4) and dhtml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:22
S8	1261	(proxy) same (render\$4) and interface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:24
S9	17	"6405192"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/24 10:25
S10	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/10 13:52
S12	2	("20020167543").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/10 14:00
S13	2683	context same sensitive same (gui or interface or ui or component or object or element) same (proxy or software or program or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:19

S14	2	context same sensitive same (gui or interface or ui or component or object or element) same (proxy or software or program or application) same render\$4 same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:20
S15	587	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:21
S16	102	context near4 sensitive near4 (gui or interface or ui or component or object or element) near4 (proxy or software or program or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:21
S17	145	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application) and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:23
S18	2	("5644738").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 11:43
S19	2	("6801929").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 11:45
S20	2	("6584469").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 11:45
S21	8	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application) and student and professional and version	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:54

S22	11	different same version same (software or application or product) same student same version same professional	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:56
S23	10	(provid\$4 or display) same different same (gui or interface or ui) same student same professional	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:59
S24	18230	proxy same (gui or interface or ui)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:05
S25	6	proxy same (gui or interface or ui) same context same sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:05
S26	1763	proxy same (gui or interface or ui) same architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:09
S27	283	proxy with (gui or interface or ui) with architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10
S28	35	proxy near4 (gui or interface or ui) near4 architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10
S30	17	proxy with (gui or interface or ui) with architecture and context with sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10

S31	684	proxy with (contain\$4 or provid\$4) same (gui or interface or ui) with (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:29
S32	405	proxy with (contain\$4 or provid\$4) with (gui or interface or ui) with (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:29
S33	74	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:29
S34	1	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element) and context with sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:30
S35	74	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:31
S36	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 14:45
S37	2837	715/762,866,744.CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:11
S38	96	document same manager same retriev\$4 same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:14

S39	5	S37 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:14
S40	13	document same manager same retriev\$4 same required same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 16:13
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S42	2	("6038395").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/14 10:34
S43	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/18 15:48
S44	26	proxy same (chang\$4 or modif\$4) same (interface or gui or ui) same during same execution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:19
S45	54	proxy same (chang\$4 or modif\$4) same (interface or gui or ui) same during same execut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:20
S46	16	proxy same (chang\$4 or modif\$4) with (interface or gui or ui) same during same execut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:20

S47	2	("6542908").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/18 18:28
S48	8132	ims and proxy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:32
S49	386	ims and steven and proxy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:33
S50	357	ims and steven and proxy and interface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:34
S51	118	ims and steven and proxy same interface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:34
S52	78	ims and d and steven and proxy same interface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:34
S53	24	ims and d and steven and proxy same interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:35
S54	4082	proxy same interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:37

S55	2490	proxy with interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:37
S56	123	proxy with (chang\$4 or modif\$4) with interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:37
S57	30	proxy near4 (chang\$4 or modif\$4) near4 interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:38
S58	404	proxy same (updat\$4 or chang\$4 or modif\$4) same (gui or interface or ui) same (layout or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/19 12:32
S59	50	proxy with (updat\$4 or chang\$4 or modif\$4) with (gui or interface or ui) with (layout or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/19 12:32
S60	10	proxy with (updat\$4 or chang\$4 or modif\$4) with (gui or interface or ui) with (layout or element) same exec\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/19 12:33
S61	17	proxy with (updat\$4 or chang\$4 or modif\$4) with (gui or interface or ui) with (layout or element) and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/19 12:34

7/19/2011 6:18:05 PM

C:\Documents and Settings\ehur\My Documents\EAST\Workspaces
11509503_ProxyRenderer.wsp

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of)
 SMITH, et al.) Examiner: Hur, Ece
 Application No: 11/509,503) Art Unit: 2172
 Filed: August 23, 2006) Atty. Docket No: ROXIP259C
 For: User Interface Method and System) Date: December 1, 2011
 for Application Programs Implemented)
 with Component Architectures)

CERTIFICATE OF E-FILEING

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office via electronic filing with EFS-Web on **December 1, 2011**.

Signed: _____

Kenneth D. Wright

**NOTICE OF APPEAL FROM THE PRIMARY EXAMINER
TO THE BOARD OF APPEALS AND INTERFERENCES**

Commissioner for Patents
 Alexandria, VA 22313-1450

Sir:

Applicant hereby appeals to the Board of Appeals from the decision of the Primary Examiner mailed August 1, 2011 finally rejecting Claims 1-16.

The item(s) checked below are appropriate:

Appeal Fee: ☐ \$310.00 (Small Entity) ☒ \$620.00 (Large Entity)

The proceedings herein are for a patent application and the provisions of 37 CFR 1.136 apply:

☒ Applicant petitions for an extension of time under 37 CFR 1.136 (fees: 37 CFR 1.17(a)-(d)) for the total number of months checked below:

<u>Months</u>	<u>Large Entity</u>	<u>Small Entity</u>
☒ one	\$150.00	\$ 75.00
☐ two	\$560.00	\$280.00
☐ three	\$1,270.00	\$635.00

If an additional extension of time is required, please consider this a petition therefor.

☐ An extension for ___ months has already been secured and the fee paid therefore of \$_____ is deducted from the total fee due for the total months of extension now requested.

☐ Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

Total Fees Due

Notice of Appeal Fee \$ 620.00

Extension Fee (if any) \$ 150.00

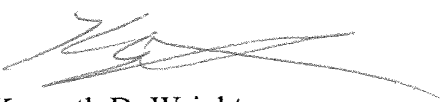
Total Fees Due \$ 770.00

☐ Enclosed is Check No. _____ in the amount of \$_____.

☒ The total fees due in the amount of \$770.00 is paid electronically in conjunction with electronic filing of the present Notice of Appeal.

☒ Charge any additional fees or credit any overpayment to Deposit Account No. 50-0805, (Order No. ROXIP259C).

Respectfully submitted,
MARTINE PENILLA GROUP, LLP



Kenneth D. Wright
Reg. No. 53,795

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Sunnyvale, CA 94085
(408) 774-6914
Customer No. 25920

Electronic Patent Application Fee Transmittal				
Application Number:		11509503		
Filing Date:		23-Aug-2006		
Title of Invention:		User interface method and system for application programs implemented with component architectures		
First Named Inventor/Applicant Name:		Jeffrey A. Smith		
Filer:		Kenneth Duane Wright		
Attorney Docket Number:		ROXIP259C		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Notice of appeal	1401	1	620	620
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	1251	1	150	150
Miscellaneous:				
Total in USD (\$)				770

Electronic Acknowledgement Receipt

EFS ID:	11526803
Application Number:	11509503
International Application Number:	
Confirmation Number:	5950
Title of Invention:	User interface method and system for application programs implemented with component architectures
First Named Inventor/Applicant Name:	Jeffrey A. Smith
Customer Number:	25920
Filer:	Kenneth Duane Wright
Filer Authorized By:	
Attorney Docket Number:	ROXIP259C
Receipt Date:	01-DEC-2011
Filing Date:	23-AUG-2006
Time Stamp:	19:09:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 770
RAM confirmation Number	18717
Deposit Account	500805
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Notice of Appeal Filed	ROXIP259C_Notice_of_Appeal_12-1-11_eFiled.PDF	50550	no	2
			e3e9729e838f370c0df5648f166fbb2e4bd59b77		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	31986	no	2
			4c73162627ef171db7996b2ecb0f30c287b6a76a		

Warnings:

Information:

Total Files Size (in bytes):			82536
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



Application No. 11/509,503

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES**

EX PARTE SMITH ET AL.

Application for Patent

Filed August 23, 2006

Application No. 11/509,503

For:

**User Interface Method and System for Application
Programs Implemented with Component Architectures**

APPEAL BRIEF

**MARTINE PENILLA GROUP, LLP
Attorneys for Applicants
710 Lakeway Drive, Suite 200, Sunnyvale, CA 94085**

CERTIFICATE MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on **February 1, 2012**.

Signed: _____


Kenneth D. Wright

02/07/2012 CCHAU1 00000063 11509503

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620.00 0P



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I. REAL PARTY IN INTEREST

The real party in interest is Sonic Solutions, Inc.

II. RELATED APPEALS AND INTERFERENCES

The Applicants are not aware of any other Appeals or Interferences related to the present application.

III. STATUS OF CLAIMS

A total of 16 claims were presented during prosecution of this application. Claims 1-16 are pending and rejected. Claims 1 and 9 are independent claims. Claims 2-8 and 10-16 are dependent claims. The Applicants appeal rejected claims 1-16.

IV. STATUS OF AMENDMENTS

There was no amendment filed after the Final Office Action dated August 1, 2011, from which this Appeal is made.

V. SUMMARY OF CLAIMED SUBJECT MATTER

Independent claim 1 discloses a computer implemented system for providing a graphical user interface. (page 8, lines 5-6) The computer implemented system includes a renderer defined to render a graphical user interface (GUI) for an application program. (page 8, lines 9-10, and page 9, lines 16-17) The computer implemented system also includes a proxy defined to provide each component necessary for rendering the GUI to the renderer. (page 10, lines 6-7) The proxy appears to the renderer as a single monolithic application program. (page 10, lines 7-10) The proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a

new layout in the GUI and updating a present layout in the GUI. (page 13, lines 17-20) The computer implemented system further includes a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI. (page 11, lines 15-19) The renderer, the proxy, and the workflow manager are executed by a computer. (page 14, lines 3-7)

Independent claim 9 discloses a method for providing a graphical user interface. (page 8, lines 5-6) The method includes operating a renderer to render a graphical user interface (GUI) for an application program. (page 8, lines 9-10, and page 9, lines 16-17) The method also includes operating a proxy to provide each component necessary for rendering the GUI to the renderer. (page 10, lines 6-7) The proxy appears to the renderer as a single monolithic application program. (page 10, lines 7-10) The proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI. (page 13, lines 17-20) The method further includes operating a workflow manager to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI. (page 11, lines 15-19)

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

A. Claims 1-16 were rejected under 35 U.S.C. 103(a) as being unpatentable over Lynch et al. ("Lynch" hereafter) (U.S. Patent No. 6,558,431) in view of Chow et al. ("Chow" hereafter) (U.S. Patent No. 6,038,395) in view of Carpenter et al. ("Carpenter" hereafter) (U.S. Patent No. 7,168,086).

VII. ARGUMENT

A. Rejections of claims 1-16 under 35 U.S.C. 103(a) as being unpatentable over the combination of Lynch, Chow, and Carpenter.

Independent Claim 1

With reference to “Examination Guidelines for Determining Obviousness Under 35 U.S.C. 103 in View of the Supreme Court Decision in *KSR International Co. v. Teleflex Inc.*,” Section III.A., the Applicants note that the Examiner has effectively asserted that the elements of the prior art (i.e., of the Lynch, Chow, and Carpenter references) can be combined according to known methods to yield predictable results. To reject a claim on this rationale, the Examiner must articulate the following:

- "(1) a finding that the prior art included each element claimed, although not necessarily in a single prior art reference, with the only difference between the claimed invention and the prior art being the lack of actual combination of the elements in a single prior art reference;
- (2) a finding that one of ordinary skill in the art could have combined the elements as claimed by known methods, and that in combination, each element merely would have performed the same function as it did separately;
- (3) a finding that one of ordinary skill in the art would have recognized that the results of the combination were predictable; and
- (4) whatever additional findings based on the *Graham* factual inquiries may be necessary, in view of the facts of the case under consideration, to explain a conclusion of obviousness."

If any of these findings cannot be made, then this rationale cannot be used to support a conclusion that the claim would have been obvious to one of ordinary skill in the art. For reasons discussed below, the Applicants submit that the prior art does not include

each element as recited in claim 1. Therefore, the Applicants submit that the Examiner's articulation of "(1) a finding that the prior art included each element claimed, although not necessarily in a single prior art reference, with the only difference between the claimed invention and the prior art being the lack of actual combination of the elements in a single prior art reference," is in error.

Determination of whether the prior art includes each element claimed requires findings of fact concerning the teachings of the references applied. Therefore, the Applicants will now factually indicate how the combination of the Lynch, Chow, and Carpenter references fails to teach certain elements of claim 1, in contrast to the Examiner's assertions.

Examiner's Assertions

In applying the combination of Lynch, Chow, and Carpenter to reject claim 1, the Examiner has asserted that the "proxy object" of Chow teaches the proxy of claim 1, wherein the proxy of claim 1 is defined to provide each component necessary for rendering the GUI to the renderer, and wherein the proxy of claim 1 appears to the renderer as a single monolithic application program. The Examiner has also asserted that the proxy server 24 of Carpenter teaches the features of the proxy of claim 1, in which the proxy of claim 1 is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI. The Examiner has also asserted that the source formatter 707 of Lynch teaches the workflow manager of claim 1, which is defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

Arguments Against Examiner's Assertions

The disclosures of Chow and Carpenter do not teach or suggest the particular features of the proxy of claim 1, as asserted by the Examiner. Claim 1 recites that the proxy appears to the renderer as a "single" "monolithic" "application program." However, the proxy objects of Chow do not correspond to a single monolithic application program. Rather, Chow (column 9, lines 35-38) teaches that the visual builder is a proxy tree, with the proxy objects being the "source" which is manipulated and edited by the visual programmer at build time. Chow (column 9, lines 9-13) teaches that the proxy objects are created by the visual builder during build time and that the proxy objects map to corresponding runtime target objects. Also, Chow (column 9, lines 30-34) teaches that there is a one-to-one mapping between the proxy objects at build time and the target objects at runtime. Therefore, it should be understood that Chow teaches use of multiple proxy objects, where each proxy object corresponds to one target object. Consequently, the "multiple" proxy objects of Chow do not fairly teach or suggest a proxy that appears to a renderer as a single monolithic application program, as recited in claim 1.

Moreover, claim 1 recites that the proxy is defined to determine changes required to be made to the GUI for the application program "during execution of the application program." It must be understood that the proxy objects of Chow are not present during execution of a program with which they are associated. Specifically, Chow (column 10, line 65, through column 11, line 12) teaches that the target objects (which correspond to the proxy objects) are used to form a runtime tree that is actually executed. Therefore, it should be understood that Chow teaches execution of the target objects as opposed to execution of the proxy objects. Consequently, the proxy objects of Chow cannot be reasonably construed to teach a proxy that is defined to determine changes required to be made to the GUI for the application program during execution of the application program. Simply stated, because the proxy objects of Chow are not executable per se, it is

impossible for the proxy objects to carry out any particular action, much less determining changes required to be made to the GUI for the application program during execution of the application program.

This point is further enforced by Chow's teaching that the proxy objects "must be capable" of destroying themselves. Specifically, Chow (column 9, line 56, through column 10, line 5) teaches the following:

"Now that the notion of a "proxy" object has been introduced as a fundamental concept of the present invention, it is necessary to detail the functions it must be capable of performing. They are as follows:

Representative Proxy Functions

1. Present itself at build time.
2. Provide storage for, and access to, property values.
3. Provide information on the events available on corresponding target object.
4. Provide information on the operations available on corresponding target object.
5. Save itself on, and restore itself from, a persistent medium.
6. Copy itself.
7. Realize itself, and subsequently detach itself from the realized target object tree, and destroy itself."

As indicted above, each proxy object of Chow must be capable of destroying itself. Therefore, it should be understood that the proxy object of Chow does not become part of the executing program. Rather, the target objects form the executable program (see Chow column 10, line 65, through column 11, line 12). In view of the foregoing, the proxy objects of Chow cannot be reasonably construed to teach a proxy that is defined to determine changes required to be made to the GUI for the application program during execution of the application program.

Additionally, the Examiner has asserted that the proxy server 24 of Carpenter teaches the proxy of claim 1 with regard to determining changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI. However, this is not the case. The proxy server 24 of Carpenter is a computer system, not a single monolithic application program as recited in claim 1. Specifically, Carpenter (column 3, lines 34-37) states that "proxy servers 24 are computers interposed in a middle tier between the head-end 12 and the client terminals 14." Therefore, because the proxy servers 24 of Carpenter are explicitly defined as computers, as opposed to the single monolithic application program of the proxy of claim 1, the Applicants submit that the proxy servers 24 do not fairly teach or suggest the proxy of claim 1 or its recited features.

In addition to foregoing, the disclosure of Lynch does not teach or suggest the particular features of the workflow manager of claim 1, as asserted by the Examiner. The Board is requested to note that in explaining how Lynch is asserted to teach the workflow manager of claim 1, the Examiner has simply referred to the source formatter 707 as shown in Figure 7 of Lynch and Figure 12 of Lynch, without any supporting explanation whatsoever. The Applicants note Lynch's disclosure (at column 4, lines 58-61) that the source formatter 707 is defined to insert proper formats, such as line breaks, into an HTML document tree in accordance with a user's preferences. Given this teaching of the source formatter 707 by Lynch, the Applicants cannot discern how the source formatter 707 of Lynch teaches or suggests the workflow manager of claim 1, which is defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

The Applicants submit that the Examiner has not provided articulated reasoning with rational underpinning to support the Examiner's assertions with regard to how the source formatter 707 of Lynch teaches the workflow manager of claim 1. The analysis supporting a rejection under 35 U.S.C. 103 should be made explicit. Rejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *In re Kahn*, 441 F.3d 977, 988, 78 USPQ2d 1329, 1336 (Fed. Cir. 2006), and *KSR*, 550 U.S. at 398, 82 USPQ2d at 1396.

With regard to "Examination Guidelines for Determining Obviousness Under 35 U.S.C. 103 in View of the Supreme Court Decision in *KSR International Co. v. Teleflex Inc.*," Section III.A, if any of the findings (1)-(4) cannot be made, then the rationale that the elements of the prior art can be combined according to known methods to yield predictable results cannot be used to support a conclusion that the claim would have been obvious to one of ordinary skill in the art.

As discussed above, the Applicants submit that the combination of Lynch, Chow, and Carpenter fails to teach all features of claim 1. Therefore, the Applicants submit that the Examiner's articulation of "(1) a finding that the prior art included each element claimed, although not necessarily in a single prior art reference, with the only difference between the claimed invention and the prior art being the lack of actual combination of the elements in a single prior art reference," is in error. The Applicants submit that finding (1) cannot be made based on the cited art of record.

In view of the foregoing, the Applicants submit that claim 1 is not rendered prima facie obvious under 35 U.S.C. 103 by the combination of Lynch, Chow, and Carpenter. The Board is requested to reverse the rejection of claim 1 under 35 U.S.C. 103.

Independent Claim 9

Claim 9 recites features similar to those discussed above with regard to claim 1.

Specifically, claim 9 recites:

- operating a proxy to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and
- operating a workflow manager to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

Claim 9 has been rejected by the Examiner using the same basis of rejection as applied to reject claim 1. Therefore, to the extent that claim 9 recites features similar to those recited in claim 1, the arguments presented above with regard to claim 1 are equally applicable to claim 9. In view of these arguments, the Applicants submit that claim 9 is not rendered prima facie obvious under 35 U.S.C. 103 by the combination of Lynch, Chow, and Carpenter. The Board is requested to reverse the rejection of claim 9 under 35 U.S.C. 103.

Dependent Claims 2 and 10

The Examiner has asserted that the proxy objects of Chow somehow teach the proxy feature of claim 2, in which the proxy enables details of each component which makes up the application program to be hidden from the renderer. The Examiner seems to assert that simply because the proxy objects of Chow are considered as a separate unit from the renderer of Lynch, then the proxy objects of Chow would somehow inherently

hide details of each component that makes up the application program from the renderer of Lynch. However, the Applicants disagree and do not find any teaching in either Chow or Lynch to support the Examiner's conclusion. Again, the analysis supporting a rejection under 35 U.S.C. 103 should be made explicit. Rejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *In re Kahn*, 441 F.3d 977, 988, 78 USPQ2d 1329, 1336 (Fed. Cir. 2006), and *KSR*, 550 U.S. at 398, 82 USPQ2d at 1396.

Claim 10 has been rejected by the Examiner using the same basis of rejection as applied to reject claim 2. Therefore, to the extent that claim 10 recites features similar to those recited in claim 2, the arguments presented above with regard to claim 2 are equally applicable to claim 10.

Also, because a dependent claim incorporates each and every feature of its independent claim, the dependent claim is patentable for at least the same reasons as its independent claim. Therefore, each of dependent claims 2 and 10 is patentable for at least the same reasons as its independent claim.

The Applicants submit that each of claims 2 and 10 is not rendered *prima facie* obvious under 35 U.S.C. 103 by the combination of Lynch, Chow, and Carpenter. The Board is requested to reverse the rejections of claims 2 and 10 under 35 U.S.C. 103.

Dependent Claims 3-4 and 11-12

Because a dependent claim incorporates each and every feature of its independent claim, the dependent claim is patentable for at least the same reasons as its independent claim. Therefore, each of dependent claims 3-4 and 11-12 is patentable for at least the same reasons as its independent claim. The Board is requested to reverse the rejections of claims 3-4 and 11-12 under 35 U.S.C. 103.

Dependent Claims 5 and 13

The Examiner has asserted that Lynch (Figure 11, items 1101, 1102, and Figure 6, items 601 and 602, and column 4, lines 52-61) somehow teaches or suggests that each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer, as recited in claim 5. However, the Applicants do not find any related teaching in Lynch (Figure 11, items 1101, 1102, and Figure 6, items 601 and 602, and column 4, lines 52-61). And, the Examiner has not provided any articulated reasoning with rational underpinning to support the conclusory statement that Lynch (Figure 11, items 1101, 1102, and Figure 6, items 601 and 602, and column 4, lines 52-61) somehow teaches or suggests that each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer.

Again, the analysis supporting a rejection under 35 U.S.C. 103 should be made explicit. Rejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *In re Kahn*, 441 F.3d 977, 988, 78 USPQ2d 1329, 1336 (Fed. Cir. 2006), and *KSR*, 550 U.S. at 398, 82 USPQ2d at 1396.

Claim 13 has been rejected by the Examiner using the same basis of rejection as applied to reject claim 5. Therefore, to the extent that claim 13 recites features similar to those recited in claim 5, the arguments presented above with regard to claim 5 are equally applicable to claim 13.

Also, because a dependent claim incorporates each and every feature of its independent claim, the dependent claim is patentable for at least the same reasons as its

independent claim. Therefore, each of dependent claims 5 and 13 is patentable for at least the same reasons as its independent claim.

The Applicants submit that each of claims 5 and 13 is not rendered prima facie obvious under 35 U.S.C. 103 by the combination of Lynch, Chow, and Carpenter. The Board is requested to reverse the rejections of claims 5 and 13 under 35 U.S.C. 103.

Dependent Claims 6 and 14

The Examiner has asserted that the source formatter 707 of Lynch (column 4, lines 57-60) somehow teaches or suggests that each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components, as recited in claim 6. As discussed with regard to claim 1, the source formatter 707 of Lynch does not teach or suggest the workflow manager of claim 1. The source formatter 707 of Lynch is simply defined to insert proper formatting into an HTML document tree. Therefore, the Applicants do not agree that the source formatter 707 of Lynch fairly teaches or suggests that each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components, as recited in claim 6.

Moreover, other than simply citing Lynch (column 4, lines 57-60), the Examiner has not provided any articulated reasoning with rational underpinning to support the conclusory statement that Lynch (column 4, lines 57-60) somehow teaches or suggests that each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components, as recited in claim 6.

Again, the analysis supporting a rejection under 35 U.S.C. 103 should be made explicit. Rejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *In re Kahn*, 441 F.3d 977, 988, 78 USPQ2d 1329, 1336 (Fed. Cir. 2006), and *KSR*, 550 U.S. at 398, 82 USPQ2d at 1396.

Claim 14 has been rejected by the Examiner using the same basis of rejection as applied to reject claim 6. Therefore, to the extent that claim 14 recites features similar to those recited in claim 6, the arguments presented above with regard to claim 6 are equally applicable to claim 14.

Also, because a dependent claim incorporates each and every feature of its independent claim, the dependent claim is patentable for at least the same reasons as its independent claim. Therefore, each of dependent claims 6 and 14 is patentable for at least the same reasons as its independent claim.

The Applicants submit that each of claims 6 and 14 is not rendered *prima facie* obvious under 35 U.S.C. 103 by the combination of Lynch, Chow, and Carpenter. The Board is requested to reverse the rejections of claims 6 and 14 under 35 U.S.C. 103.

Dependent Claims 7 and 15

The Examiner has asserted that the source formatter 707 of Lynch (column 4, lines 57-60) somehow teaches or suggests that the workflow manager is defined to register user interface components for each registered workflow, as recited in claim 7. As discussed with regard to claim 1, the source formatter 707 of Lynch does not teach or suggest the workflow manager of claim 1. The source formatter 707 of Lynch is simply defined to insert proper formatting into an HTML document tree. Therefore, the Applicants do not

agree that the source formatter 707 of Lynch fairly teaches or suggests a workflow manager that is defined to register user interface components for each registered workflow.

Moreover, other than simply citing Lynch (column 4, lines 57-60), the Examiner has not provided any articulated reasoning with rational underpinning to support the conclusory statement that Lynch (column 4, lines 57-60) somehow teaches or suggests a workflow manager that is defined to register user interface components for each registered workflow, as recited in claim 7.

Again, the analysis supporting a rejection under 35 U.S.C. 103 should be made explicit. Rejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *In re Kahn*, 441 F.3d 977, 988, 78 USPQ2d 1329, 1336 (Fed. Cir. 2006), and *KSR*, 550 U.S. at 398, 82 USPQ2d at 1396.

Claim 15 has been rejected by the Examiner using the same basis of rejection as applied to reject claim 7. Therefore, to the extent that claim 15 recites features similar to those recited in claim 7, the arguments presented above with regard to claim 7 are equally applicable to claim 15.

Also, because a dependent claim incorporates each and every feature of its independent claim, the dependent claim is patentable for at least the same reasons as its independent claim. Therefore, each of dependent claims 7 and 15 is patentable for at least the same reasons as its independent claim.

The Applicants submit that each of claims 7 and 15 is not rendered *prima facie* obvious under 35 U.S.C. 103 by the combination of Lynch, Chow, and Carpenter. The Board is requested to reverse the rejections of claims 7 and 15 under 35 U.S.C. 103.

Dependent Claims 8 and 16

The Examiner has asserted that the source formatter 707 of Lynch (column 4, lines 57-60) somehow teaches or suggests an active document manager that is defined to retrieve a document required by a workflow upon registration of the workflow with the workflow manager and communicate the retrieved document to the workflow manager for provision to the renderer through the proxy, as recited in claim 8. As discussed with regard to claim 1, the source formatter 707 of Lynch does not teach or suggest the workflow manager of claim 1. The source formatter 707 of Lynch is simply defined to insert proper formatting into an HTML document tree. Additionally, if the source formatter 707 was considered to represent the workflow manager as the Examiner has asserted, then it is not credible for the source formatter 707 to also represent the active document manager, when the active document manager is required to communicate the retrieved document to the workflow manager for provision to the renderer. In other words, the source formatter 707 cannot be both the workflow manager and the active document manager which are recited as separate entities in the claims.

Moreover, other than simply citing Lynch (column 4, lines 57-60), the Examiner has not provided any articulated reasoning with rational underpinning to support the conclusory statement that Lynch (column 4, lines 57-60) somehow teaches or suggests the active document manager, as recited in claim 8.

Again, the analysis supporting a rejection under 35 U.S.C. 103 should be made explicit. Rejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *In re Kahn*, 441 F.3d 977, 988, 78 USPQ2d 1329, 1336 (Fed. Cir. 2006), and *KSR*, 550 U.S. at 398, 82 USPQ2d at 1396.

Claim 16 has been rejected by the Examiner using the same basis of rejection as applied to reject claim 8. Therefore, to the extent that claim 16 recites features similar to those recited in claim 8, the arguments presented above with regard to claim 8 are equally applicable to claim 16.

Also, because a dependent claim incorporates each and every feature of its independent claim, the dependent claim is patentable for at least the same reasons as its independent claim. Therefore, each of dependent claims 8 and 16 is patentable for at least the same reasons as its independent claim.

The Applicants submit that each of claims 8 and 16 is not rendered prima facie obvious under 35 U.S.C. 103 by the combination of Lynch, Chow, and Carpenter. The Board is requested to reverse the rejections of claims 8 and 16 under 35 U.S.C. 103.

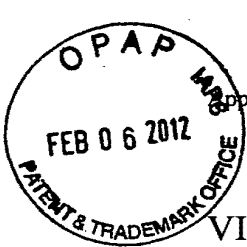
The Applicants submit that each of rejected claims 1-16 is patentable. Therefore, the Applicants respectfully request that the Board of Patent Appeals and Interferences reverse the Examiner's rejections of claims 1-16.

Respectfully Submitted,
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VIII. CLAIMS APPENDIX

1. A computer implemented system for providing a graphical user interface, comprising:

a renderer defined to render a graphical user interface (GUI) for an application program;

a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and

a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI,

wherein the renderer, the proxy, and the workflow manager are executed by a computer.

2. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein the proxy enables details of each component which makes up the application program to be hidden from the renderer.

3. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein the proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer.

4. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format.

5. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer.

6. A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components.

7. A computer implemented system for providing a graphical user interface as recited in claim 6, wherein the workflow manager is defined to register user interface components for each registered workflow.

8. A computer implemented system for providing a graphical user interface as recited in claim 1, further comprising:

an active document manager defined to retrieve a document required by a workflow upon registration of the workflow with the workflow manager and communicate the retrieved document to the workflow manager for provision to the renderer through the proxy.

9. A method for providing a graphical user interface, comprising:
operating a renderer to render a graphical user interface (GUI) for an application program;

operating a proxy to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and

operating a workflow manager to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

10. A method for providing a graphical user interface as recited in claim 9, wherein the proxy functions to hide details of each component which makes up the application program from the renderer.

11. A method for providing a graphical user interface as recited in claim 9, wherein the proxy functions to enable each component which makes up the application program to be modified in a manner that is transparent to the renderer.

12. A method for providing a graphical user interface as recited in claim 9, wherein each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format.

13. A method for providing a graphical user interface as recited in claim 9, wherein each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer.

14. A method for providing a graphical user interface as recited in claim 9, further comprising:

registering a workflow associated with each document viewer with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components.

15. A method for providing a graphical user interface as recited in claim 14, wherein the workflow manager functions to register user interface components for each registered workflow.

16. A method for providing a graphical user interface as recited in claim 9, further comprising:

operating an active document manager to retrieve a document required by a workflow upon registration of the workflow with the workflow manager, further operating the active document manager to communicate the retrieved document to the workflow manager for provision to the renderer through the proxy.



EVIDENCE APPENDIX

There is no evidence for this Appeal.

X. RELATED PROCEEDINGS APPENDIX

There are currently no decisions rendered by a court or the Board in any proceeding identified in the Related Appeals and Interferences section.



AE
LW
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	)	Attorney Docket No: ROXIP259C
	)	
SMITH et al.	)	Examiner: Hur, Ece
	)	
Application No: 11/509,503	)	Group Art Unit: 2172
	)	
Filed: August 23, 2006	)	Date: February 1, 2012
	)	
For: User Interface Method and System for	)	
Application Programs Implemented with	)	
Component Architectures	)	

CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 1, 2012. Signed: <u></u> Kenneth D. Wright

**TRANSMITTAL OF APPEAL BRIEF
(PATENT APPLICATION -- 37 CFR 192)**

Mail Stop: Appeal Brief-Patents
Commissioner for Patents
Alexandria, VA 22313-1450

Sir:

This Appeal Brief is in furtherance of the Notice of Appeal filed in this case on December 1, 2011.

This application is on behalf of:

☐ Small Entity ☒ Large Entity

Pursuant to 37 CFR 1.17(f), the fee for filing the Appeal Brief is:

☐ \$310.00 (Small Entity) ☒ \$620.00 (Large Entity)

☐ Appeal Brief Fee has already been paid. Prosecution was re-opened by Examiner in response to the Appeal Brief submitted _____.

The proceedings herein are for a patent application and the provisions of 37 CFR 1.136 apply:

☐ Applicant petitions for an extension of time under 37 CFR 1.136 (fees: 37 CFR 1.17(a)-(d)) for the total number of months checked below:

Attorney Docket No. ROXIP259C

-1-

USSN 11/509,503

<u>Months</u>	<u>Large Entity</u>	<u>Small Entity</u>
☐ one	\$120.00	\$60.00
☐ two	\$450.00	\$225.00
☐ three	\$1,020.00	\$510.00
☐ four	\$1,590.00	\$795.00

If an additional extension of time is required, please consider this a petition therefor.

☐ An extension for __ months has already been secured and the fee paid therefore of \$ is deducted from the total fee due for the total months of extension now requested.

☒ Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that Applicant has inadvertently overlooked the need for a petition and fee for extension of time.

Total Fees Due:

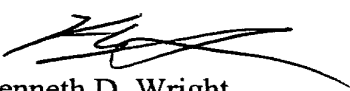
Appeal Brief Fee	\$620.00
Extension Fee (if any)	\$0
Total Fee Due	<u>\$620.00</u>

☒ Enclosed is Check No. 25954 in the amount of \$620.00.

☐ The Commissioner is authorized to charge the total fees due of \$ to Deposit Account No. 50-0850, (Order No.).

☒ The Commissioner is authorized to charge any additional required fees or credit any overpayment to Deposit Account No. 50-0805, (Order No. ROXIP259C).

Respectfully submitted,
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	ROXIP259C	5950
25920 7590 04/13/2012 MARTINE PENILLA GROUP, LLP 710 LAKEWAY DRIVE SUITE 200 SUNNYVALE, CA 94085			EXAMINER HUR, ECE	
			ART UNIT 2172	PAPER NUMBER
			MAIL DATE 04/13/2012	DELIVERY MODE PAPER

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**BEFORE THE BOARD OF PATENT APPEALS
AND INTERFERENCES**

Application Number: 11/509,503
Filing Date: August 23, 2006
Appellant(s): SMITH ET AL.

Kenneth D. Wright
For Appellant

EXAMINER'S ANSWER

This is in response to the appeal brief filed on 02/06/2012 appealing from the Office action mailed on 08/01/2011.

(1) Real Party in Interest

A statement identifying by name the real party in interest is contained in the brief is correct.

(2) Related Appeals and Interferences

The examiner is not aware of any related appeals, interferences, or judicial proceedings which will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

(3) Status of Claims

The following is a list of claims that are rejected and pending in the application:

Claims 1-16 are pending. The statement of the status of Claims contained in the brief is correct.

(4) Status of Amendments After Final

The appellant's statement of the status of amendments after final rejection contained in the brief is correct.

(5) Summary of Claimed Subject Matter

The summary of claimed subject matter contained in the brief is correct.

(6) Grounds of Rejection to be Reviewed on Appeal

The appellant's statement of the grounds of rejection to be reviewed on appeal is correct.

(7) Claims Appendix

The copy of the appealed claims contained in the Appendix to the brief is correct.

(8) Evidence Relied Upon

6,558,431	Lynch	09-1998
6,038,395	Chow	12-1994
7,168,086	Carpenter	11-1998

(9) Grounds of Rejection

The following ground(s) of rejection are applicable to the appealed claims:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lynch, US 6,558,431 in view of Chow, US 6,038,395 in further view of Carpenter, US 7,168,086.

Regarding Claim 1, Lynch discloses the claimed aspect of a *computer implemented system for providing a graphical user interface, comprising: a renderer defined to render a graphical user interface (GUI) for an application program*(Lynch, FIG. 705); *a workflow manager defined to communicate one or more document viewers and associated user interface components for provision to the renderer as components necessary for rendering the GUI, renderer, workflow manager are executed by a computer.*(Lynch, FIG. 7, Source Formatter 707, FIG. 12).

Lynch does not specifically disclose the claimed aspect of *a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program*, however Chow discloses the claimed aspect and proxy is executed by a computer, wherein interface Repository, in easily changeable form, with the necessary knowledge for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract, Brief Summary). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature to Lynch because this would provide context sensitive GUI without changing the source code. Lynch and Chow do not disclose

specifically the claimed aspect of *the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI*, however Carpenter discloses the claimed aspect, wherein proxy server certain client UI elements (e.g. buttons, controls, graphics, labels, and other screen customizations presented to the viewer on the client terminal), it is possible to update the UI elements with new features, or to apply changes to reflect new promotional features or different branding, as needed. For example, the logo of a particular video-on-demand server may appear on a button on a UI screen presented to a viewer. The server UI 78 of the proxy server 24 can dynamically change that logo as it appears on the various client terminals 14 to reflect the branding of the various video-on-demand back-end servers 30 it controls. (Carpenter, Column 5, lines 54-65). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of updating GUI elements dynamically to Lynch and Chow because this would allow the interface elements to promote certain brand. For example logo may appear on the button.

Regarding Claim 2, Lynch, Chow, Carpenter teach of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the renderer. (Lynch, FIG. 7, 705). Lynch does not disclose the claimed aspect, however Chow discloses the claimed aspect of the proxy enables details of each component which makes up the application program to be

hidden from the renderer, wherein the renderer and proxy are separate units. The renderer would render what the proxy provides as components for the GUI. It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of proxy enables details of each component which makes up the application program to be hidden from the renderer to Lynch because this would allow to render a context sensitive GUI.

Regarding Claim 3, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the renderer. (Lynch, FIG. 7, 705). Lynch does not specifically disclose the claimed aspect of proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer, however Chow discloses the claimed aspect, wherein interface Repository, in easily changeable form, with the necessary knowledge for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer to Lynch because this would provide context sensitive GUI without changing the source code. Proxy's changes will be apparent to the renderer to present the GUI.

Regarding Claim 4, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format in FIG. 7, wherein the renderer 705 uses the document tree 704 to form a screen display page. (Lynch, Column 4, lines 50-52, Column 5, lines 44-45, 56-59).

Regarding Claim 5, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer, wherein document is displayed and modified. (Lynch, FIG. 11, 1101, 1102, FIG. 6, 601, 602, Column 4, lines 52-61).

Regarding Claim 6, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Regarding Claim 7, Lynch, Chow, Carpenter teach all of Claim 6. See the rejection of Claim 6 for details. Lynch discloses the claimed aspect of the workflow manager is defined to register user interface components for each registered workflow, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Regarding Claim 8, Lynch, Chow, Carpenter teach all of Claim 1. See the rejection of Claim 1 for details. Lynch discloses the claimed aspect of an active document manager defined to retrieve a document required by a workflow upon registration of the workflow with the workflow manager, wherein the source formatter 707 is prompted by the edit engine to insert the proper formats. (Lynch, Column 4, lines 57-60).

Lynch discloses the claimed aspect of renderer in FIG. 7, wherein renderer is illustrated. Lynch does not specifically disclose the claimed aspect of proxy, however Chow discloses the claimed aspect, wherein interface Repository, in easily changeable form, with the necessary knowledge for retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract). It would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of proxy to Lynch to communicate the retrieved document to the workflow manager for provision to the

renderer through the proxy because this would provide context sensitive GUI without changing the source code.

Regarding Claim 9, Claim 9 and Claim 1 are similar in scope and rejected under similar rationale. See rejection details for Claim 1.

Regarding Claim 10, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 10 and Claim 2 are similar in scope and rejected under similar rationale. See rejection details for Claim 2.

Regarding Claim 11, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 11 and Claim 3 are similar in scope and rejected under similar rationale. See rejection details for Claim 3.

Regarding Claim 12, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 12 and Claim 4 are similar in scope and rejected under similar rationale. See rejection details for Claim 4.

Regarding Claim 13, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 13 and Claim 5 are similar in scope and rejected under similar rationale. See rejection details for Claim 5.

Regarding Claim 14, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 14 and Claim 6 are similar in scope and rejected under similar rationale. See rejection details for Claim 6.

Regarding Claim 15, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 15 and Claim 7 are similar in scope and rejected under similar rationale. See rejection details for Claim 7.

Regarding Claim 16, Lynch, Chow, Carpenter teach all of Claim 9. See rejection details for Claim 9. Claim 16 and Claim 8 are similar in scope and rejected under similar rationale. See rejection details for Claim 8.

(10) Response to Argument

A. Appellant argues that Chow and Carpenter do not disclose single monolithic proxy

Appellant argues that Chow and Carpenter do not disclose single monolithic(single unified, linked) proxy, however in the rejection Chow is applied for this aspect, wherein Chow discloses the claimed aspect, wherein interface Repository, in easily changeable form, with the necessary knowledge for

retrieving such information from the Interface Repository being contained in the proxy object itself. The information stored in the Interface Repository may be changed without altering or recompiling the source code which implements the proxy object itself. (Chow, Abstract, Brief Summary). Furthermore, Chow discloses that the proxy object has interface declaration and each of the icons, slider bars, and the like are shown in FIG. 4 as a node or circle representing an "object". There could be an interface which has only one item on it or plurality of items represented as illustrated in FIGs. 4, 5, 7, 8. (Chow, Abstract, Brief Summary, FIGs. 4, 5, 7, 8). Therefore the tree would provide a single monolithic, single unified application to create an interface. Also, Carpenter discloses the claimed aspect of single monolithic(single unified, linked) proxy in FIG. 1, wherein proxy server 24 certain client UI elements (e.g. buttons, controls, graphics, labels, and other screen customizations presented to the viewer on the client terminal), it is possible to update the UI elements with new features, or to apply changes to reflect new promotional features or different branding, as needed. For example, the logo of a particular video-on-demand server may appear on a button on a UI screen presented to a viewer. The server UI 78 of the proxy server 24 using application program can dynamically change that logo as it appears on the various client terminals 14 to reflect the branding of the various video-on-demand back-end servers 30 it controls. (Carpenter, Column 5, lines 54-65).

B. Appellant argues that Lynch does not disclose Workflow

Appellant argues that Lynch does not disclose workflow management, however Lynch discloses the claimed aspect in FIG. 7, wherein the source formatter 707 is prompt by the Edit Engine, therefore workflow management exists because one item is activated after another one. (Lynch, Column 4, lines 40-60). Also, Lynch discloses a workflow management in FIG. 7, wherein changes passed from inspector 709 to the parser 702 and 703 validator to parse and to renderer 705 and generator 706. (Lynch, Column 5, lines 53-59). Additionally, workflow management is typically and commonly known at the time of the invention.

C. Appellant argues that there is no Motivation to combine

In response to appellant's argument that there is no teaching, suggestion, or motivation to combine the references, the examiner recognizes that obviousness may be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988), *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992), and *KSR International Co. v. Teleflex, Inc.*, 550 U.S. 398, 82 USPQ2d 1385 (2007). In this case, it would be obvious to one of ordinary skill

in the art at the time of the invention to add this feature of proxy to Lynch because this would provide context sensitive GUI without changing the source code. Furthermore, it would be obvious to one of ordinary skill in the art at the time of the invention to add this feature of updating GUI elements dynamically to Lynch and Chow because this would allow the interface elements to promote certain brand. For example logo may appear on the button

D. Appellant argues that Chow does not disclose proxy enables details

Appellant argues that Chow does not disclose proxy enables details of each component to be hidden from renderer. However, Lynch discloses the claimed aspect of renderer in FIG. 7. Chow discloses the claimed aspect of the proxy enables details of each component which makes up the application program to be hidden from the renderer, wherein the renderer and proxy are separate units. The renderer would render what the proxy provides as components for the GUI.

E. Appellant argues that Lynch does not disclose different GUI with different Specification

Appellant argues that Lynch does not disclose different GUI with different specification, however Lynch discloses the claimed aspect in FIGs. 6, 601, 602,

11, 1101, 1102, wherein document is displayed and modified, therefore has different specification for each view/GUI.

(11) Related Proceeding(s) Appendix

No decision rendered by a court or the Board is identified by the examiner in the Related Appeals and Interferences section of this examiner's answer.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/Ece Hur/

04/03/2012

Conferees:

/Boris Pesin/

Supervisory Patent Examiner, Art Unit 2172

/Stephen S. Hong/

Supervisory Patent Examiner, Art Unit 2178

AF
IF



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of	)	
	)	Examiner: Hur, Ece
SMITH, et al.	)	
	)	Art Unit: 2172
Application No.: 11/509,503	)	
	)	Docket No.: ROXIP259C
Filed: August 23, 2006	)	
	)	Date: June 13, 2012
For: User Interface Method and System for	)	
Application Programs Implemented	)	
with Component Architectures	)	

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on **June 13, 2012**.

Signed: _____

Kenneth D. Wright

REPLY BRIEF

Mail Stop: Appeal Brief-Patents
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Dear Sir:

This Reply Brief is in response to the Examiner's Answer dated April 13, 2012. This Reply Brief is filed within the two-month time period extending to June 13, 2012. Please enter the following remarks.

REMARKS/ARGUMENTS

Response to Examiner's Answer

The Applicants' arguments presented in the Appeal Brief submitted February 1, 2012 ("Appeal Brief" hereafter), remain fully applicable to the claim rejections on appeal. In the interest of brevity, the Applicants respectfully request that the Board of Patent Appeals and Interferences ("Board" hereafter) refer to the Applicants' Appeal Brief for a detailed explanation of the Applicants' position with respect to the Examiner's rejections. The remainder of the present Reply Brief responds specifically to the Examiner's comments as provided in the "Response to Argument" section of the Examiner's Answer dated April 13, 2012.

A. Chow and Carpenter do not disclose single monolithic proxy.

The Examiner has again asserted that the runtime tree of Chow teaches the single monolithic proxy of claim 1. The Applicants continue to disagree for the reasons detailed in the Appeal Brief. In particular, Chow (column 10, line 65, through column 11, line 12) teaches that the target objects (which correspond to the proxy objects) are used to form a runtime tree that is actually executed. Therefore, it should be understood that Chow teaches execution of the target objects as opposed to execution of the proxy objects. Consequently, the proxy objects of Chow cannot be reasonably construed to teach a proxy that is defined to determine changes required to be made to the GUI for the application program during execution of the application program. Simply stated, because the proxy objects of Chow are not executable per se, it is impossible for the proxy objects to carry out any particular action, much less determining changes required to be made to the GUI for the application program, during execution of the application program.

The Applicants respectfully submit that the Examiner's additional statements in the Response to Argument section of the Reply Brief concerning Chow's supposed teaching of the single monolithic application program of claim 1, fails to provide articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. In particular, the Examiner has failed to provide articulated reasoning with rational underpinning to explain how the non-

executable proxy objects of Chow can be reasonably construed to have any executable characteristic during execution of the application program, much less have an executable characteristic of determining changes required to be made to the GUI for the application program during execution of the application program.

B. Lynch does not disclose Workflow Manager.

In the Reply Brief, the Examiner has asserted that workflow management exists in Lynch because "one item is activated after another one," with exemplary reference to the source formatter 707 of Lynch being prompted by the Edit Engine of Lynch. The Examiner has also made the conclusory statement that "workflow management is typically and commonly known at the time of the invention."

Claim 1 recites "a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI." Therefore, it should be appreciated that claim 1 does not recite a workflow manager by which "one item is activated after another one," as misconstrued by the Examiner. As explained in the Appeal Brief, the source formatter 707 of Lynch is simply defined to insert proper formatting into an HTML document tree. Lynch does not provide any teaching or suggestion that would reasonably link the source formatter 707 of Lynch to a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI, as recited in claim 1.

Additionally, as discussed in the Appeal Brief, the source formatter 707 of Lynch cannot be both the workflow manager and the active document manager of claim 1, as asserted by the Examiner. If the source formatter 707 was considered to represent the workflow manager as the Examiner has asserted, then it is not credible for the source formatter 707 to also represent the active document manager, when the active document manager is required to communicate the

retrieved document to the workflow manager for provision to the renderer. The Examiner has failed to provide an explanation that would resolve this inconsistency in the basis of rejection.

C. No motivation to combine the references.

The Examiner has asserted that the Applicants have argued that there is no teaching, suggestion, or motivation to combine the references. However, the Applicants have argued that the elements of the prior art (i.e., of the Lynch, Chow, and Carpenter references) cannot be combined according to known methods to yield predictable results. Specifically, in the Appeal Brief, the Applicants explain why the Examiner's articulation of "(1) a finding that the prior art included each element claimed, although not necessarily in a single prior art reference, with the only difference between the claimed invention and the prior art being the lack of actual combination of the elements in a single prior art reference," is in error.

D. Chow does not teach a proxy that enables details of each component of the application program to be hidden from the renderer.

The Examiner asserts that simply because the proxy objects of Chow are considered as a separate unit from the renderer of Lynch, then the proxy objects of Chow would somehow inherently hide details of each component that makes up the application program from the renderer of Lynch. However, the Applicants disagree and do not find any teaching in either Chow or Lynch to support this assertion by the Examiner as it relates to claims 2 and 10.

E. Lynch does not teach that each document viewer includes a respective user interface requirements specification.

The Applicants do not find any teaching in Lynch (Figure 11, items 1101, 1102, and Figure 6, items 601 and 602, and column 4, lines 52-61) with regard to a document viewer including a respective user interface requirements specification referencing one or more user interface components associated with the document viewer, as recited in claim 5. The Examiner has stated in the Reply Brief that because a document is displayed and modified it must have a different specification for each view/GUI. The Applicants submit that this is an impermissible

extrapolation of Lynch's disclosure by the Examiner. Lynch (Figure 11, items 1101, 1102, and Figure 6, items 601 and 602, and column 4, lines 52-61) does not provide any teaching or suggestion with regard to each document viewer including a respective user interface requirements specification referencing one or more user interface components associated with the document viewer, as it applies to claims 5 and 13.

Based on the foregoing and the arguments presented in the Appeal Brief, the Applicants submit that each of rejected claims 1-16 is patentable. Therefore, the Applicants respectfully request that the Board reverse the Examiner's rejections of claims 1-16. If any fees are due in connection with filing this Reply Brief, the Commissioner is authorized to charge Deposit Account No. 50-0805 (Order No. ROXIP259C).

Respectfully submitted,
MARTINE PENILLA GROUP, LLP



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	ROXIP259C	5950
25920 7590 07/13/2012 MARTINE PENILLA GROUP, LLP 710 LAKEWAY DRIVE SUITE 200 SUNNYVALE, CA 94085			EXAMINER HUR, ECE	
			ART UNIT 2172	PAPER NUMBER
			MAIL DATE 07/13/2012	DELIVERY MODE PAPER

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MARTINE PENILLA GROUP, LLP
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SUNNYVALE, CA 94085

Appeal No: 2012-010227
Application: 11/509,503
Appellant: Jeffrey A. Smith et al.

**Board of Patent Appeals and Interferences
Docketing Notice**

Application 11/509,503 was received from the Technology Center at the Board on July 09, 2012 and has been assigned Appeal No: 2012-010227.

In all future communications regarding this appeal, please include both the application number and the appeal number.

The mailing address for the Board is:

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The facsimile number of the Board is 571-273-0052. Because of the heightened security in the Washington D.C. area, facsimile communications are recommended. Telephone inquiries can be made by calling 571-272-9797 and referencing the appeal number listed above.

By order of the Board of Patent Appeals and Interferences.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

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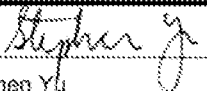
☐	Firm or Individual Name			
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Assignee Name and Address: SONIC SOLUTIONS LLC
2830 De La Cruz Boulevard
Santa Clara, CA 95050
United States of America

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SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	3/12/13
Name	Stephen Yu	Telephone	N/A
Title	Manager		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.31 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Smith et al.Application No./Patent No.: 11509503Filed/Issue Date: 08-23-2006Titled: **USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES**

Sonic Solutions LLC, a limited liability company

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: SMITH, JEFFREY A.; PAGE, ALAN; MARUVA To: MGI SOFTWARE CORP.

The document was recorded in the United States Patent and Trademark Office at

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- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.06]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/jim h salter/

2013-05-28

Signature

Date

Jim H. Salter

USPTO Reg. # 35668

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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4. From: SONIC SOLUTIONS To: SONIC SOLUTIONS LLC The document was recorded in the United States Patent and Trademark Office at Reel 26533 and Frame 400 or for which a copy thereof is attached.

Electronic Acknowledgement Receipt

EFS ID:	15887536
Application Number:	11509503
International Application Number:	
Confirmation Number:	5950
Title of Invention:	User interface method and system for application programs implemented with component architectures
First Named Inventor/Applicant Name:	Jeffrey A. Smith
Customer Number:	25920
Filer:	James Harrison Salter
Filer Authorized By:	
Attorney Docket Number:	ROXIP259C
Receipt Date:	28-MAY-2013
Filing Date:	23-AUG-2006
Time Stamp:	18:41:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	USPTO_Power_of_Atty_IPL-Rovi_Sonic_Solutions_LLC_aia0080_Signedp.pdf	426628 18549698f27e3df6a0c3a53e987e5437b46a0a36	no	1

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73.	Rovi-071US2_Form_sb0096_05-28-13p.pdf	434157 633e0a8713c7367a6abcbd3848591ffd16af0063	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				860785	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/509,503	08/23/2006	Jeffrey A. Smith	ROXIP259C

CONFIRMATION NO. 5950

POA ACCEPTANCE LETTER



Date Mailed: 05/31/2013

112502
Inventive Patent Law P.C.
2280 E. Bidwell St. #2032
Folsom, CA 95630

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/28/2013.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/fstephanos/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	See Schedule A attached	
	Filing Date	See Schedule A attached	
	First Named Inventor	See Schedule A attached	
	Title	See Schedule A attached	
	Art Unit	See Schedule A attached	
	Examiner Name	See Schedule A attached	
	Attorney Docket No.	See Schedule A attached	

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.
OR

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

75563

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number	Practitioner(s) Name	Registration Number

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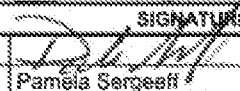
Email

I am the:

☐ Applicant/Inventor.
OR

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____

SIGNATURE of Applicant or Assignee of Record

Signature		Date	3/10/15
Name	Pamela Sergeeff	Telephone	(408) 562-8400
Title and Company: Manager, Sonic Solutions LLC, a Limited Liability Company			

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

SCHEDULE A

Attorney Docket No.: 003597-1256-102		
First Inventor: Jeffrey A. Smith et al.		
Patent No.:	Application No.: 11/509,503	
Issued:	Filed: August 23, 2006	
Confirmation No.: 5950		
Title: USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES		
Chain of Title :		
From: Jeffrey A. Smith et al.	To: MGI Software Corp.	
Recordation Date: February 2, 2015	Reel: 34865	Frame: 993
From: MGI Software Corp.	To: Roxio, Inc.	
Recordation Date: February 2, 2015	Reel: 34866	Frame: 9
From: Roxio, Inc.	To: Sonic Solutions	
Recordation Date: February 2, 2015	Reel: 34866	Frame: 51
From: Sonic Solutions	To: Sparta Acquisition Sub II LLC	
Recordation Date: February 2, 2015	Reel: 34866	Frame: 83
From: Sparta Acquisition Sub II LLC	To: Sonic Solutions LLC, a Limited Liability Company	
Recordation Date: June 30, 2011	Reel: 26533	Frame: 400

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Sonic Solutions LLC, a Limited Liability CompanyApplication No./Patent No.: See Schedule A attached Filed/Issue Date: See Schedule A attachedTitled: See Schedule A attachedSonic Solutions LLC, a Limited LiabilityCompany

(Name of Assignee)

, a

Company

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ an assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel See Schedule A attached, Frame See Schedule A attached, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned, whose title is supplied below, is authorized to act on behalf of the assignee.

Pamela Sergeeff
Signature

2/10/15
Date

Pamela Sergeeff
Printed or Typed Name

Manager
Title

SCHEDULE A

Attorney Docket No.: 003597-1256-102		
First Inventor: Jeffrey A. Smith et al.		
Patent No.:	Application No.: 11/509,503	
Issued:	Filed: August 23, 2006	
Confirmation No.: 5950		
Title: USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES		
Chain of Title :		
From: Jeffrey A. Smith et al.	To: MGI Software Corp.	
Recordation Date: February 2, 2015	Reel: 34865	Frame: 993
From: MGI Software Corp.	To: Roxio, Inc.	
Recordation Date: February 2, 2015	Reel: 34866	Frame: 9
From: Roxio, Inc.	To: Sonic Solutions	
Recordation Date: February 2, 2015	Reel: 34866	Frame: 51
From: Sonic Solutions	To: Sparta Acquisition Sub II LLC	
Recordation Date: February 2, 2015	Reel: 34866	Frame: 83
From: Sparta Acquisition Sub II LLC	To: Sonic Solutions LLC, a Limited Liability Company	
Recordation Date: June 30, 2011	Reel: 26533	Frame: 400

Electronic Acknowledgement Receipt

EFS ID:	21483026
Application Number:	11509503
International Application Number:	
Confirmation Number:	5950
Title of Invention:	User interface method and system for application programs implemented with component architectures
First Named Inventor/Applicant Name:	Jeffrey A. Smith
Customer Number:	112502
Filer:	Gall Chaim Gotfried/Linda Blake
Filer Authorized By:	Gall Chaim Gotfried
Attorney Docket Number:	Rovi-071US2
Receipt Date:	12-FEB-2015
Filing Date:	23-AUG-2006
Time Stamp:	15:58:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	003597-1256-102_POA.pdf	154679 16ae1bdb6a8a1008bfdccad7e617758252033da2	no	2

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73.	003597-1256-102_373_Statement.pdf	157893 651411abac6298d07f2aa1470aaf6b60f5f3882a	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				312572	
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/509,503	08/23/2006	Jeffrey A. Smith	Rovi-071US2

112502
Inventive Patent Law P.C.
2280 E. Bidwell St. #2032
Folsom, CA 95630

CONFIRMATION NO. 5950
POWER OF ATTORNEY NOTICE



Date Mailed: 02/25/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/12/2015.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/atesfai/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/509,503	08/23/2006	Jeffrey A. Smith	003597-1256-102

CONFIRMATION NO. 5950

POA ACCEPTANCE LETTER



OC000000073572083

75563
ROPES & GRAY LLP
PATENT DOCKETING 39/361
1211 AVENUE OF THE AMERICAS
NEW YORK, NY 10036-8704

Date Mailed: 02/25/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/12/2015.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/atesfai/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	003597-1256-102	5950
75563	7590	05/05/2015		
ROPES & GRAY LLP PATENT DOCKETING 39/361 1211 AVENUE OF THE AMERICAS NEW YORK, NY 10036-8704			EXAMINER HUR, ECE	
			ART UNIT	PAPER NUMBER
			2172	
			NOTIFICATION DATE	DELIVERY MODE
			05/05/2015	ELECTRONIC

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

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPatentMail@ropesgray.com
USPatentMail2@ropesgray.com

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ex parte JEFFREY A. SMITH, ALAN PAGE,
S. PRASSAD MARUVADA, and SCOTT A. NORTHMORE

Appeal 2012-010227
Application 11/509,503¹
Technology Center 2100

Before ERIC B. GRIMES, ROBERT A. POLLOCK, and
KENNETH G. SCHOPFER, *Administrative Patent Judges*.

SCHOPFER, *Administrative Patent Judge*.

DECISION ON APPEAL

This is an appeal under 35 U.S.C. § 134 involving system and method claims for providing a graphical user interface. The Examiner rejected the claims as obvious. We have jurisdiction under 35 U.S.C. § 6(b). We reverse.

¹ According to Appellants, the real party in interest is Sonic Solutions, Inc. App. Br. 3.

STATEMENT OF THE CASE

Background

The present invention relates to a method and system for providing a user interface for application programs. More specifically, the present invention provides a method and system for providing a graphical user interface for application programs implemented with component architectures such as COM (Component Object Model), DCOM (Distributed Component Object Model), CORBA (Common Object Request Broker Architecture) and the like.

Spec. ¶ 1.

The Claims

Claims 1–16 are on appeal. Claim 1 is representative and reads as follows.

1. A computer implemented system for providing a graphical user interface, comprising:

a renderer defined to render a graphical user interface (GUI) for an application program;

proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and

a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI,

wherein the renderer, the proxy, and the workflow manager are executed by a computer.

App. Br. 20 (emphasis added). Independent claim 9 is a method claim requiring, *inter alia*, “operating a workflow manager to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.” *Id.* at 22.

The Rejection

The Examiner maintains that claims 1–16 are unpatentable under 35 U.S.C. § 103(a) over Lynch² in view of Chow³ and Carpenter.⁴

DISCUSSION

Principles of Law

In order to establish a prima facie case of obviousness, the Examiner must show that each and every limitation of the claim is described or suggested by the combination of prior art references or would have been obvious based on the knowledge of those of ordinary skill in the art. *In re Fine*, 837 F.2d 1071, 1074 (Fed. Cir. 1988). “[R]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness.” *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006).

² Lynch et al., US 6,558,431 B1, issued May 6, 2003.

³ Chow et al., US 6,038,395, issued Mar. 14, 2000.

⁴ Carpenter et al., US 7,168,086 B1, issued Jan. 23, 2007.

Analysis

Appellants argue, *inter alia*, that Lynch does not teach or suggest a workflow manager with the particular features in claims 1 and 9 as asserted by the Examiner. App. Br. 10–12.

For the reasons set forth below, we find that the Examiner has not set forth a *prima facie* showing that the proposed combination of art teaches or suggests a workflow manager as claimed.

With respect to claims 1 and 9, the Examiner finds that Lynch discloses a workflow manager as claimed. The Examiner initially cites only to the Source Formatter 707 in Figure 7 and Figure 12 of Lynch. Ans. 6, 11. Further, in response to Appellants' argument, the Examiner asserts the following:

Appellant argues that Lynch does not disclose workflow management, however Lynch discloses the claimed aspect in FIG. 7, wherein the source formatter 707 is prompt by the Edit Engine, therefore workflow management exists because one item is activated after another one. (Lynch, Column 4, lines 40-60). Also, Lynch discloses a workflow management in FIG. 7, wherein changes passed from inspector 709 to the parser 702 and 703 validator to parse and to renderer 705 and generator 706. (Lynch, Column 5, lines 53-59). Additionally, workflow management is typically and commonly known at the time of the invention.

Id. at 14.

We find that the Examiner has not adequately explained how the relied upon portions of Lynch show that Lynch teaches or suggests a workflow manager as claimed. Specifically, claim 1 requires a workflow manager defined to communicate document viewers and associated interface components to the proxy, and the Examiner has not explained how the cited

portions of Lynch meet these requirements. We see no apparent connection between the cited portions of Lynch and the claimed workflow manager. *See, e.g.*, Lynch col. 4, ll. 58–61 (describing the source formatter 707 as being used to insert proper formats into a document). The Examiner appears to rely generally on a teaching of workflow management without any specific tie to the claim language, as indicated by the Examiner’s statement that workflow management was known at the time of invention. However, we are not persuaded that any teaching of workflow management renders the claimed workflow manager obvious, and the Examiner has not identified any teaching or suggestion that the workflow performed in Lynch is related to the claim limitation language.

Accordingly, we determine that the Examiner failed to establish a prima facie showing of obviousness of claims 1 and 9. Thus, we reverse the rejection of independent claims 1 and 9 as well as dependent claims 2–8 and 10–16.

CONCLUSION

For the reasons set forth above, we reverse the rejection of claims 1–16.

REVERSED

sl



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75563 7590 08/12/2015
ROPES & GRAY LLP
PATENT DOCKETING 39/361
1211 AVENUE OF THE AMERICAS
NEW YORK, NY 10036-8704

EXAMINER

HUR, ECE

ART UNIT

PAPER NUMBER

2172

DATE MAILED: 08/12/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/509,503

08/23/2006

Jeffrey A. Smith

003597-1256-102

5950

TITLE OF INVENTION: USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	11/12/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or **Fax** (571)-273-2885

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

75563 7590 08/12/2015
ROPES & GRAY LLP
PATENT DOCKETING 39/361
1211 AVENUE OF THE AMERICAS
NEW YORK, NY 10036-8704

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	003597-1256-102	5950

TITLE OF INVENTION: USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	11/12/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
HUR, ECE	2172	715-762000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	003597-1256-102	5950
75563	7590	08/12/2015	EXAMINER	
ROPES & GRAY LLP PATENT DOCKETING 39/361 1211 AVENUE OF THE AMERICAS NEW YORK, NY 10036-8704			HUR, ECE	
			ART UNIT	PAPER NUMBER
			2172	
DATE MAILED: 08/12/2015				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 11/509,503	Applicant(s) SMITH ET AL.	
	Examiner ECE HUR	Art Unit 2172	AIA (First Inventor to File) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/05/2015.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-16. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)	5. ☒ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	7. ☐ Other _____.
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date <u>08/03/2015</u> .	

Primary Examiner /Ece Hur/	
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Application Number: 12/766,984

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Drew Schulte on 8/3/2015.

The application has been amended as follows:

Examiner's Note: There is no Double Patenting with the Parent Application 09/240,844/US 7,117,446.

Please amend the following Claim 1 -

1. (Currently Amended) A computer implemented system for providing a graphical user interface, comprising: a non-transitory computer readable medium; a renderer defined to render a graphical user interface (GUI) for an application program; a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program,

wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI, wherein the renderer, the proxy, and the workflow manager are executed by ~~a computer~~ the non-transitory computer readable medium.

Reasons for Allowance

Total of 16 Claims are allowed.

Independent Claim 1, when considered as a whole is allowable over the art of record, specially amendments in combination with the rest of the Claim. Prior art of record fail to clearly teach or suggest a renderer defined to render a graphical user interface (GUI) for an application program; a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and a workflow manager defined to communicate one or more document viewers and

associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI, wherein the renderer, the proxy, and the workflow manager are executed.

Independent Claim 9, when considered as a whole is allowable over the art of record, specially amendments in combination with the rest of the Claim. Prior art of record fail to clearly teach or suggest similar concepts as for Claim 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ECE HUR whose telephone number is (571) 270-1972. The examiner can normally be reached on MONDAY-THURSDAY 7:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BORIS PESIN can be reached on (571) 272-4070. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

/Ece Hur/

E.H./e.h.

08/03/2015

Notice of References Cited	Application/Control No. 11/509,503		Applicant(s)/Patent Under Reexamination SMITH ET AL.	
	Examiner ECE HUR		Art Unit 2172	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,511,197 A	04-1996	Hill et al.	719/328
*	B	US-5,602,729 A	02-1997	Krueger et al.	717/124
*	C	US-6,038,395 A	03-2000	Chow et al.	717/105
*	D	US-6,314,533 B1	11-2001	Novik et al.	714/39
*	E	US-6,385,661 B1	05-2002	Guthrie et al.	719/316
*	F	US-6,473,407 B1	10-2002	Ditmer et al.	370/252
*	G	US-2002/0167543 A1	11-2002	SMITH et al.	345/762
*	H	US-6,542,908 B1	04-2003	Ims, Steven D.	1/1
*	I	US-6,558,431 B1	05-2003	Lynch et al.	715/210
*	J	US-2003/0162561 A1	08-2003	Johnson et al.	455/553
*	K	US-6,766,333 B1	07-2004	Wu et al.	1/1
*	L	US-6,775,671 B1	08-2004	de Lara et al.	1/1
*	M	US-6,799,320 B1	09-2004	Elvanoglu et al.	719/331

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 11/509,503		Applicant(s)/Patent Under Reexamination SMITH ET AL.	
	Examiner ECE HUR		Art Unit 2172	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2004/0215600 A1	10-2004	Aridor et al.	707/003
*	B	US-6,842,175 B1	01-2005	Schmalstieg et al.	345/427
*	C	US-6,925,466 B2	08-2005	Jensen et al.	1/1
*	D	US-7,055,136 B2	05-2006	Dzoba et al.	717/125
*	E	US-7,117,445 B2	10-2006	Berger, Kelly D.	715/752
*	F	US-7,117,446 B2	10-2006	Smith et al.	715/762
*	G	US-7,168,086 B1	01-2007	Carpenter et al.	725/98
*	H	US-7,512,896 B2	03-2009	Rockey et al.	715/779
*	I	US-7,624,356 B1	11-2009	Rockey et al.	715/811
*	J	US-7,711,984 B2	05-2010	Tenenti, Silvia	714/15
*	K	US-7,865,919 B2	01-2011	Carpenter et al.	725/37
	L	US-			
	M	US-			

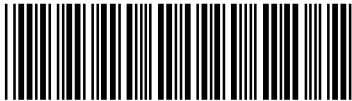
FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 11509503	Applicant(s)/Patent Under Reexamination SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant					☐ CPA					☐ T.D.					☐ R.1.47				
CLAIM		DATE																	
Final	Original	01/13/2011	07/19/2011	08/03/2015															
1	1	✓	✓	=															
2	2	✓	✓	=															
3	3	✓	✓	=															
4	4	✓	✓	=															
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12	12	✓	✓	=															
13	13	✓	✓	=															
14	14	✓	✓	=															
15	15	✓	✓	=															
16	16	✓	✓	=															

Issue Classification 	Application/Control No. 11509503	Applicant(s)/Patent Under Reexamination SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

CPC						
Symbol					Type	Version
G06F		9	/	4443	F	2013-01-01
G06T		2200	/	24	A	2013-01-01
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CPC Combination Sets				
Symbol		Type	Set	Version

(Assistant Examiner) (Date)		Total Claims Allowed: 16	
/ECE HUR/ Examiner.Art Unit 2172 (Primary Examiner) (Date)		O.G. Print Claim(s) 1	O.G. Print Figure FIG. 2

Issue Classification 	Application/Control No. 11509503	Applicant(s)/Patent Under Reexamination SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

☐ Claims renumbered in the same order as presented by applicant															
☐ CPA															
☐ T.D.															
☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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(Assistant Examiner) (Date)		Total Claims Allowed: 16	
/ECE HUR/ Examiner.Art Unit 2172 (Primary Examiner) (Date)		O.G. Print Claim(s) 1	O.G. Print Figure FIG. 2

Search Notes 	Application/Control No. 11509503	Applicant(s)/Patent Under Reexamination SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

CPC- SEARCHED		
Symbol	Date	Examiner
G06F9/4443, G06T2200/24	8/3/2015	E.H.

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
715	762, 700, 866, 744	1/12/2011	E.H.
345	676, 594, 589	1/12/2011	E.H.

SEARCH NOTES		
Search Notes	Date	Examiner
Plus Search, EAST, ACM	1/12/2011	E.H.
Inventor Name Search	1/12/2011	E.H.
Updated Search	7/19/2011	E.H.
Updated Search, Also, GOOGLEPATENT, GOOGLEPRIORART FINDER, IEEE, IPCOM	8/1/2015	E.H.

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G06F9	4443	8/1/2015	E.H.
G06T2200	24	8/1/2015	E.H.

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Add your own

- ☐ renderer
- ☐ application programs
- ☐ workflow manager
- ☐ proxy
- ☐ associated user interface components
- ☐ document viewers
- ☐ graphical user interface
- ☐ implemented with component
- ☐ component necessary
- ☐ component architectures

Custom Date Range

Start date: MM/DD/YYYY

End date: 02/01/1999

A case study in designing a document-centric coordination application over the Internet

P Ciancarini, D Rosel, F Vitali - Proc. Workshop on the Active Web, 1999

... The MUDshell is the client of the MUDWeb application, and is the interface framework ... We expect that multiagent, document-centric applications will exploit the forthcoming XML technology ... a unified framework for describing orthogonally a document structure, its rendering, and its ...

An analysis of the production line versus the case manager approach to information intensive services

UM Apté, CM Seath, CH Goh - Decision Sciences, 1999

... evolving customer preferences for customized and responsive services are rendering this production ... Some early case manager applications nearly replicated the production line approach, with just ... current research interests are in the development and application of operations ...

Systems integration

P Ciancarini, S Conrad, W Hasselbring - 1999

... content of the document, and deliver all kinds of required rendering needs. ... We use federated environmental information systems (EIS) as the application background as they ... of software components implemented in different program- ming languages to distributed applications. ...

National Benchmark Program in Microelectronic Systems Design Automation

F Englez - 1997

... of making the desktop recordable, and (2) the feasibility of rendering it collaborative. ... internet-based experiments, ranging from collaborative benchmarking applications to interactive ... Weld researchers are writing application-programming-interface definitions, which they plan to ...

Total cost management in the internet age

P Doherty - AACIE International Transactions, 1998

... Rendering is performed through the lens of a virtual camera that moves, tilts, and twirls in response to ... The document contains the APP tag, which identifies the Java applet. ... While this application development was originally intended for site design it was felt that it could also be ...

User interface method and system for application programs...

www.google.com/patents/US7117446
Grant - Filed Feb 1, 1998 - Issued Oct 3, 2004 - Jeffrey A. Smith - Sonic Solutions, Inc.

an application proxy to manage communication between said renderer, said document ... determining a present context of said application program and rendering said The management of workflows is performed by workflow manager 216.

Integrated proxy interface for web based data management reports

www.google.com/patents/US6377883
Grant - Filed Dec 24, 1995 - Issued Apr 21, 2002 - Andre K. Brandt - Intel Workgroup, Inc.

10(b) illustrates the logical DSS/Report Manager application programming interface; ... between the Dispatcher server and the application specific proxy (FIG. agent scheduling, workflow broadcasting interface, and transaction logging Microsoft Corporation, Streamable interactive rendering-independent page layout.

Class Library Support for Workflow Environments and Applications

http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.14.6656&rep=rep1&type=pdf

Nov 21, 1997 - complex to program than applications which rely on short and noninteractive transactions. Other activities on workflow specification and management related to our related to the client support infrastructure (such as proxy and surrogate ...

Evaluation of workflow management systems - Workflow Patterns

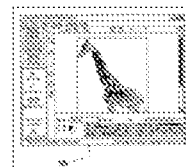
http://www.workflowpatterns.com/documentation/documents/Issue99.pdf

Nov 18, 1997 - benchmark for existing workflow management systems. In the last part of the paper, ... the correctness of a large-scale program cannot be determined for every defining substitute relationships (proxies) between employees. In most ...

Evaluation of Workflow Management Systems - CiteSeer

http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.109.2098&rep=rep1&type=pdf

Application US20060282787



User interface method and system for application programs implemented component architectures

Show Claims

Inventors: Jeffrey Smith, Alan Page, S. Manuveda, Scott Northmore

Assignees: Smith Jeffrey A, Alan Page, Manuveda S P, Northmore Scott A

Publication number: US20060282787

Application number: 11/508,503

Filing date: Aug 23, 2006

Preview this Patent Application

Nov 08, 1999 - for the evaluation of different **workflow management** systems is the correctness of a large-scale **program** cannot be deter- ... Contrary to desktop application **programs** with a fairly defining substitute relationships (**proxies**) between em-.

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Main Concept Text
 proxy determines required changes for an applica...

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1. **System and method for determining the location**
 ASSIGNMENT: HAPRS CORP
 AU2002315379A1 | AUSTRALIAN PATENT DOCUMENTS | 07-APR-2005
2. **A design for storage and retrieval of arbitrary content and application data**
 By responding to the detection shows switch the improved performance the condition of dynamically from a internal data structure of switching to another in the inner part of the data structure for improved data storage and retrieval performance of system system and method for. in one embodiment the...
 ASSIGNMENT: IDTMC INC
 CN1751367A | CHINESE APPLICATIONS | 22-MAR-2006
3. **System and method for determining the location**
 AU2002315379A1 | AUSTRALIAN PATENT DOCUMENTS | 19-JUN-2005
4. **Systems, methods, and computer readable media for providing applications style functionality to a user**
 Systems, methods, and computer readable media of providing applications style functionality to a user of a mobile radio terminal are disclosed. In certain embodiments, the systems, methods, and computer readable media include the steps of receiving a data stream transmission having a plurality of...
 ASSIGNMENT: SRIJ PTY LTD
 US20131313 | US PATENTS | 10-SEP-2013
5. **System and method for determining the location of a transmitter using passive reflectors or refractors as proxy receivers**
 The location of a transmitter can be determined using a proxy receiver, such as a natural landmark or man-made structure, which reflects and/or refracts the signal from a transmitter (64) toward a receiver. A processor (65) is operatively connected to the receiver and determines the location of the...
 ASSIGNMENT: HAPRS CORP
 EP1399752A2 | EUROPEAN APPLICATIONS | 24-MAR-2004
6. **Systems, methods, and computer readable media for providing applications style functionality to a user**
 Systems, methods, and computer readable media of providing applications style functionality to a user of a mobile radio terminal are disclosed. In certain embodiments, the systems, methods, and computer readable media include the steps of receiving a data stream transmission having a plurality of...
 ASSIGNMENT: SRIJ PTY LTD
 WO2010037164A1 | WIPO APPLICATIONS | 06-APR-2010
7. **System and method for determining the location of a transmitter using passive reflectors or refractors as proxy receivers and using database querying**
 A system and method determines the location of a transmitter. At least one receiver receives a signal from the transmitter(64) and at least one proxy receiver is an object that reflects and /or refracts a signal along an arriving path to the at least one receiver. A processor(66) is operative with...
 ASSIGNMENT: HAPRS CORP
 EP1399752A2 | EUROPEAN APPLICATIONS | 24-MAR-2004
8. **System and method for determining the location of a transmitter using passive reflectors or refractors as proxy receivers and using database querying**
 A system and method determines the location of a transmitter. At least one receiver receives a signal from the transmitter(64) and at least one proxy receiver is an object that reflects and /or refracts a signal along an arriving path to the at least one receiver. A processor(66) is operative with...
 ASSIGNMENT: HAPRS CORP [4:1]
 CA2451910C | CANADIAN PATENTS | 13-APR-2010
9. **Locating a transmitter using reflectors and refractors**
 AU2002316282A1 | AUSTRALIAN PATENT DOCUMENTS | 19-JUN-2005
10. **Secured presentation layer virtualization for wireless handheld communication device**
 The connectivity and security of wireless handheld devices (HDs) can be leveraged to provide a presentation appliance (PA) such as a laptop with an ability to securely communicate with an enterprise's private network. A split-proxy server, with part of it executing on the HD and a part executing on...
 ASSIGNMENT: BAYALIK SOLUTIONS CORP
 EP234777A1 | EUROPEAN APPLICATIONS | 13-OCT-2010
11. **Method and system for data layout and replacement in distributed streaming caches on the Internet**

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https://iq.ip.com/discover

8/1/2015

Petitioner Disney Ex-1004, 0210

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COLLAPSE MENU

A cache replacement system and method for changing the number of cached copies of segments of a media response in response to a change in a media clip is disclosed. Whenever rank change for a media clip is detected at an origin server, rank change information is distributed to proxy servers...

ASSIGNMENT: DISNEY CORP [1]
US6999988 [1] US PATENTS [13-APR-2005]

12. Method and system for calibrating wireless location systems

This invention relates to a method for calibrating a wireless location system (WLS) to enable the system to make highly accurate differential measurements such as time difference of arrival (TDOA) and frequency difference of arrival (FDOA). Calibration is accomplished by transmitting a signal from...

ASSIGNMENT: HARRIS CORP
EP1407258B1 [1] EUROPEAN PATENTS [06-JUN-2012]

13. Method and system for calibrating wireless location systems

This invention relates to a method for calibrating a wireless location system (WLS) to enable the system to make highly accurate differential measurements such as time difference of arrival (TDOA) and frequency difference of arrival (FDOA). Calibration is accomplished by transmitting a signal from...

ASSIGNMENT: HARRIS CORP
EP1407258A2 [1] EUROPEAN APPLICATIONS [14-APR-2004]

14. Secured presentation layer virtualization for wireless handheld communication device having endpoint independence

The connectivity and security of wireless handheld devices (HDs) can be leveraged to provide a presentation appliance (PA) (e.g. a laptop) with an ability to securely communicate with an enterprise's private network. A split-proxy server, with part of it executing on the HD and a part executing on...

ASSIGNMENT: BAYALINK SOLUTIONS CORP
EP2238778A1 [1] EUROPEAN APPLICATIONS [13-OCT-2010]

15. System and method for determining and representation of connection-related performance data in networks

The present invention describes a system and method for determining and representation of connection-related performance data in networks in particular in the area of application of www - applications, such as, for example, web browsers. It is based on the technical possibility, html - documents...

ASSIGNMENT: INTEL BUSINESS MACHINES CORP
DE19913884A1 [1] GERMAN APPLICATIONS [14-OCT-1999]

16. Position-encoded optical proxy for sensing and pointing of light sources

The present invention is directed to systems, devices and methods utilizing a proxy device that indicates directional aspects of redirected light from a corresponding light redirecting element by the position of one or more redirected light beams in one or more directions or coordinates on such a...

ASSIGNMENT: SOLARRESERVE LLC
EP2072833A2 [1] EUROPEAN APPLICATIONS [20-MAY-2015]

17. Locating a transmitter using reflectors and refractors

The location of a transmitter can be determined using a proxy receiver, such as a natural landmark or man-made structure, which reflects and/or refracts the signal from a transmitter (64) toward a receiver. A processor (65) is operatively connected to the receiver and determines the location of the...

ASSIGNMENT: HARRIS CORP
CA2451628A1 [1] CANADIAN APPLICATIONS [03-JAN-2005]

18. Improved presentation scheme for communication between user stations and application programs

Systems and method for interactive cooperation of a user station and a commonly used application program residing in a central location, such as a server. The interactive cooperation take place across a link or network. According to the present scheme, a structure of a presentation element for...

ASSIGNMENT: INTEL BUSINESS MACHINES CORP
EP0996068A1 [1] EUROPEAN APPLICATIONS [26-APR-2000]

19. Organeware applications for computer systems

A method for implementing a software application by shifting all the definition of an application into data, which need not be translated to code to be run, which is run by code which remains the same from application to application.

ASSIGNMENT: INSTANCIA INC [1+2]
US6049673 [1] US PATENTS [13-APR-2000]

20. Proxy server

Methods and a preprocessing proxy server in a communication system can support any mode of web browser operation and enable a user selectively to bypass or enable the proxy server's translation of requested web content. For example, a translation selection decision can be made based on the requested...

ASSIGNMENT: TELEFON AB LM ERICSSON
EP2504773A1 [1] EUROPEAN APPLICATIONS [03-OCT-2012]

21. Method and system for calibrating location system

AU2002315345A1 [1] AUSTRALIAN PATENT DOCUMENTS [15-JUN-2003]

Organicware applications for computer systems

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COLLAPSE MENU

20. A method for implementing a software application by storing all the definition of an application
 Metadata, which may be translated to code to be run, which is run by code which remains the
 same from application to application.

ASSIGNMENT: Main Concept Text
 US6324682 | US PATENTS | 22-NOV-2001

21. **Detecting secure or encrypted tunneling in a computer network**
 Views: Sort: Relevance:

Aspects of the present disclosure relate to a computer assisted method for detecting encrypted tunneling or
 proxy avoidance which may include electronically receiving information from a proxy server, extracting
 information regarding a CONNECT function of Hyper Text Transport Protocol (HTTP) from the...

ASSIGNMENT: BANK OF AMERICA NA
 AU2011238618A1 | AUSTRALIAN PATENT DOCUMENTS | 08-NOV-2012

24. **Predictive, multi-layer caching architectures**

Predictive, multi-layer caching architectures may be used to predict which elements a user is most likely to
 navigate to within a collection of elements associated with a predefined layout and, in response, to increase
 the accessibility of these elements to a client device of the user. For instance,...

ASSIGNMENT: MICROSOFT CORP
 EP2735095A1 | EUROPEAN APPLICATIONS | 14-MAY-2014

25. **Method and system for wireless location systems**

This invention relates to a method for calibrating a wireless location system (WLS) to enable the system to
 make highly accurate differential measurements such as time difference of arrival (TDOA) and frequency
 difference of arrival (FDOA). Calibration is accomplished by transmitting a signal from...

ASSIGNMENT: HARRIS CORP
 CA2565585A1 | CANADIAN APPLICATIONS | 03-JAN-2005

26. **Detecting secure or encrypted tunneling in a computer network**

Aspects of the present disclosure relate to a computer assisted method for detecting encrypted tunneling or
 proxy avoidance which may include electronically receiving information from a proxy server, extracting
 information regarding a CONNECT function of Hyper Text Transport Protocol (HTTP) from the...

ASSIGNMENT: BANK OF AMERICA NA
 AU2011238618B2 | AUSTRALIAN PATENT DOCUMENTS | 29-JAN-2015

27. **Information processing system, proxy server, web page display control method, storage
 medium and program transmitter**

ASSIGNMENT: INTERNATIONAL BUSINESS MACH CORP IBM
 JP2001184344A | JAPANESE APPLICATIONS | 08-JUL-2001

28. **System and method for network access without reconfiguration**

A system and method for providing client access to a network without changing client network settings
 includes determining whether the client is configured to use a proxy service and selectively acting as the
 proxy service when the client is so configured. In one embodiment, determining whether the...

ASSIGNMENT: HEMADY INC
 EP2357570A1 | EUROPEAN APPLICATIONS | 17-AUG-2011

29. **System and method for network access without reconfiguration**

A system and method for providing client (36) access to a network (56) without changing client network
 settings (38) includes determining whether the client (36) is configured to use a proxy service and selectively
 acting as the proxy service when the client (36) is so configured. In one embodiment,...

ASSIGNMENT: HEMADY INC
 EP1254248A2 | EUROPEAN APPLICATIONS | 28-AUG-2002

30. **User interface method and system for application programs implemented with
 component architectures**

A method and system for providing a graphical user interface for application programs implemented with
 component architectures such as COM (Component Object Model), DCOM (Distributed Component Object
 Model), CORBA (Common Object Request Broker Architecture) and the like. The invention allows a...

ASSIGNMENT: MSI SOFTWARE CORP (+1)
 CA2261083A1 | CANADIAN APPLICATIONS | 01-AUG-2000

31. **Method and system for calibrating location systems**

This invention relates to a method for calibrating a wireless location system (WLS) to enable the system to
 make highly accurate differential measurements such as time difference of arrival (TDOA) and frequency
 difference of arrival (FDOA). Calibration is accomplished by transmitting a signal from...

ASSIGNMENT: HAPRO CORP (+1)
 CA2450810C | CANADIAN PATENTS | 16-DEC-2008

32. **Selection of a proxy device for a network**

Multiple devices in a user's premises may each be configured to separately communicate with an external
 network, but the signal strength available to each may vary significantly depending on the wiring of the
 premises. The disclosure provides methods wherein the various devices may coordinate with...

ASSIGNMENT: COMCAST CABLE COMM LLC
 EP2237487A1 | EUROPEAN APPLICATIONS | 09-OCT-2010

33. **Method for transferring and displaying data pages on a data network**

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COLLAPSE MENU

The apparent speed of a connection between a browser at a user station and a proxy or gateway on a network such as the Internet is increased by providing a local proxy at the user station which interacts with a remote proxy. While the remote proxy is retrieving a newly requested World Wide Web page...

ASSIGNMENT: 3M CO
EP0826145A2 | EUROPEAN APPLICATIONS | 15-SEP-1998

34. Adapting data in a communication system

A communication system (1) comprises a user terminal (4), a data providing means (2), and a means for adapting data to the handedness (i.e. whether left-handed or right-handed) of a user. In one embodiment, the user terminal (4) negotiates with the data providing means (2). In another embodiment, a...

ASSIGNMENT: MOTOROLA SOLUTIONS INC
EP1251872A2 | EUROPEAN APPLICATIONS | 06-NOV-2002

35. Access control for server applications

A method, system, and computer program product for access control for a server application provided between a server executing an application and a client. Access control is added to an existing server application (for example, a legacy application) without changing the application or the database...

ASSIGNMENT: HILL BUSINESS MACHINES CORP
US690926A0 | US PATENTS | 28-JUL-2015

36. Method and apparatus for distributed script processing

The invention claims a method for providing mobile equipment browsing a low power experience the method of. Agent platform receives the web page request of. The agent management platform receives the mobile equipment information. The agent platform treating and/or promote the processing relative to...

ASSIGNMENT: NOKIA CORP
CN103807113A | CHINESE APPLICATIONS | 02-JUL-2016

37. A tcp proxy providing application layer modifications

The invention disclosed is a Transmission Control Protocol (TCP) transport handler for a network intermediary. The handler examines all segments in a TCP/IP data Stream between two nodes. The handler maintains a list of changes made by an application module to a data segment within a data stream and...

ASSIGNMENT: SAGEVIEW INC (-1)
CA2392097A1 | CANADIAN APPLICATIONS | 26-DEC-2003

38. Automatic proxy detection and traversal

The invention provides a method for detecting a proxy. The method comprises inspecting one or more network communications being sent from a client computer, and determining from information contained in the network communication whether the network communication is being sent via a proxy. The...

ASSIGNMENT: SCANSAFE LTD
EP2232810B1 | EUROPEAN PATENTS | 18-DEC-2013

39. Method and apparatus for determining a location of data in an open specification environment

A comment is compared to path mappings within a network for identifying a potential pathname of output data for an object within the publication data. If the output data is does not exist at the potential pathname, the comment is compared to search paths within the network to identify the potential...

ASSIGNMENT: XEROX CORP (-1)
CA2364770C | CANADIAN PATENTS | 25-MAR-2008

40. A tcp proxy providing application layer modifications

The invention disclosed is a Transmission Control Protocol (TCP) transport handler for a network intermediary. The handler examines all segments in a TCP/IP data stream between two nodes. The handler maintains a list of changes made by an application module to a data segment within a data stream and...

ASSIGNMENT: SAGEVIEW INC (-4)
CA2392097C | CANADIAN PATENTS | 12-JAN-2010

41. User interface method and system for application programs implemented with component architectures

A method and system for providing a graphical user interface for application programs implemented with component architectures such as COM (Component Object Model), DCOM (Distributed Component Object Model), CORBA (Common Object Request Broker Architecture) and the like. The invention allows a...

ASSIGNMENT: SONIC SOLUTIONS LLC (-1)
US711744S | US PATENTS | 03-OCT-2006

42. Method for transferring and displaying data pages on a data network

ASSIGNMENT: AT & AMP T CORP
EP0436143B1 | EUROPEAN PATENTS | 07-JUN-2006

43. A system and method for interactive marketing

A system and method of interactive, location based and presentation and advertising that enables users with wireless network (109) addressable communications device (108) to control multi-media content on network addressable screens (101) and enables marketers to track, monitor and respond to users...

ASSIGNMENT: OCAMCO INC
EP1413083A2 | EUROPEAN APPLICATIONS | 01-AUG-2007

44. Automatic proxy detection and traversal

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COLLAPSE MENU

The invention provides a method for detecting a proxy. The method comprises inspecting one or more messages from a client computer, and determining from information contained in the network communication whether the network communication is being sent via a proxy.

ASSIGNMENT: JUNG ONLINE SVC INC
EP2232810A1 | EUROPEAN APPLICATIONS | 26-SEP-2010

45. **Method and apparatus to determine user identity and limit access to a communications network**
Sort: Relevance:

ASSIGNMENT: JUNG ONLINE SVC INC
AU199801195382 | AUSTRALIAN PATENT DOCUMENTS | 09-MAY-2002

46. **Method and system of teleconferencing**

The present invention relates generally to telecommunications, and more specifically, to a system and method of teleconferencing. Existing telephony systems suffer from a number of problems including system complexity, limited access and implementation of services on fixed hardware which results in...

ASSIGNMENT: LOMA NETWORKS INC
EP116378A1 | EUROPEAN APPLICATIONS | 18-JUL-2001

47. **Systems, methods, and computer readable media for providing applications style functionality to a user**

Systems, methods, and computer readable media of providing applications style functionality to a user of a mobile radio terminal are disclosed. In certain embodiments, the systems, methods, and computer readable media include the steps of receiving a data stream transmission having a plurality of...

ASSIGNMENT: BINGU PTY LTD
US20140019524 | US APPLICATIONS | 16-JAN-2014

48. **HTTP optimization, multi-homing, mobility and priority**

The parallel hyper text transmission protocol http and connection of the flow line process is combined by real time changing the parallel connection and line the number of the request so as to make the un-completed request of the number of the small and the link keeping can be completely used the...

ASSIGNMENT: QUALCOMM INC
CN1625686B2A | CHINESE APPLICATIONS | 05-SEP-2012

49. **Method of and apparatus for rapid retrieval of data in a content distribution network**

A method and apparatus for accelerating data retrieval on a widely dispersed content distribution network such as the World Wide Web. The system associates a concept URI with a resource which can serve as a reference for a group of resources. When the system receives a request from a client calling...

ASSIGNMENT: CLEARBLUE TECHNOLOGY INC
EP1364310A2 | EUROPEAN APPLICATIONS | 26-NOV-2003

50. **Systems, Methods, and Computer Readable Media for Providing Applications Style Functionality to a User**

Systems, methods, and computer readable media of providing applications style functionality to a user of a mobile radio terminal are disclosed. In certain embodiments, the systems, methods, and computer readable media include the steps of receiving a data stream transmission having a plurality of...

ASSIGNMENT: BINGU PTY LTD
US20110170959 | US APPLICATIONS | 03-NOV-2011

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Displaying Results 1-25 of 1,126 for proxy determines required changes for an application layout

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Year

Single Year

Range

☐

1912

☐

2015

From

To

1915

2015

Author

Affiliation

Publication Title

Publisher

Conference Location

☐ Online color camera calibration

Marszalec, E.; Pietikainen, M.

Pattern Recognition, 1994. Vol. 1 - Conference A: Computer Vision & Image Processing., Proceedings of the 12th IAPR International Conference on

Year: 1994, Volume: 1

Pages: 232 - 237 vol.1, DOI: 10.1109/ICPR.1994.576263

Cited by: Papers (6)

IEEE Conference Publications

Abstract

(668 Kb)

Standards Dictionary
Terms

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☐ Compiler-directed selection of dynamic memory layouts

Kandemir, M.; Kadayif, I.

Hardware/Software Codesign, 2001. CODES 2001. Proceedings of the Ninth International Symposium on

Year: 2001

Pages: 219 - 224, DOI: 10.1109/HSC.2001.924679

Cited by: Papers (7) | Patents (2)

IEEE Conference Publications

Abstract

(696 Kb)

☐ A New Mobility Management Scheme in Proxy Mobile IPv6 Networks with Dynamic Paging Support

Myung-Kyu Yi; Sung-Yeol Yun; Seok-Cheon Park; Young-Kyu Yang

Ubiquitous Information Technologies and Applications (CUTE), 2010

Proceedings of the 5th International Conference on

Year: 2010

Pages: 1 - 6, DOI: 10.1109/ICUT.2010.5677801

IEEE Conference Publications

Abstract

(666 Kb)

☐ Multi-target tracking through opportunistic camera control in a resource constrained multimodal sensor network

Nayak, J.; Gonzalez-Argueta, L.; Bi Song; Roy-Chowdhury, A.; Tuncel, E.

Distributed Smart Cameras, 2008. ICDS-C 2008. Second ACM/IEEE

International Conference on

Year: 2008

Pages: 1 - 10, DOI: 10.1109/ICDS-C.2008.4635682

Cited by: Papers (3)

IEEE Conference Publications

Abstract

(263 Kb)

☐ Optimistic Synchronization of Cooperative XML Authoring Using Tunable Transaction Boundaries

Abstract (324 Kb)

☐ **Background compensation and an active-camera motion tracking algorithm**

Gupta, R.; Theys, M.D.; Siegel, H.J.

Parallel Processing, 1997, Proceedings of the 1997 International Conference on

Year: 1997

Pages: 431 - 440, DOI: 10.1109/ICPP.1997.622677

Cited by: Papers (2) | Patents (1)

IEEE Conference Publications

Abstract (1064 Kb)

☐ **V-Touch: Markerless laser-based interactive surface**

Dikovita, C.R.; Abeysooriya, D.P.

Advances in ICT for Emerging Regions (ICTer), 2013 International Conference on

Year: 2013

Pages: 248 - 252, DOI: 10.1109/ICTer.2013.6761186

IEEE Conference Publications

Abstract (422 Kb)

☐ **Parameters which influence the performance of practical magnetic switches**

Barrett, D.M.

Pulsed Power Conference, 1995. Digest of Technical Papers., Tenth IEEE International

Year: 1995, Volume: 2

Pages: 1154 - 1159 vol 2, DOI: 10.1109/PPC.1995.599770

Cited by: Papers (5)

IEEE Conference Publications

Abstract (351 Kb)

☐ **On the Accuracy, Efficiency, and Reusability of Automated Test Oracles for Android Devices**

Ying-Dar Lin; Rojas, J.F.; Chu, E.T.-H.; Yuan-Cheng Lai

Software Engineering, IEEE Transactions on

Year: 2014, Volume: 40, Issue: 10

Pages: 957 - 970, DOI: 10.1109/TSE.2014.2331982

IEEE Journals & Magazines

Abstract (1365 Kb)

☐ **Session 6 keynote address**

Bredersen, R.

Solid-State Circuits Conference. Digest of Technical Papers. 1987 IEEE International

Year: 1987, Volume: XXX

Pages: 66 - 67, DOI: 10.1109/ISSCC.1987.1157162

IEEE Conference Publications

Abstract (468 Kb)

☐ **Abridgment of paper on concluding study of ventilation of turbo alternators multiple path radial system**

Fechheimer, C.J.; Penney, G.W.

A.I.E.E., Journal of the

Year: 1926, Volume: 45, Issue: 4
 Pages: 347 - 354, DOI: 10.1109/JAIEE.1926.6534692
 Cited by: Papers (1)
IEEE Journals & Magazines

Abstract (2450 Kb)

☐ **A computer-aided, spatially-selective protection technique for multichip module and chip-on-board devices**

Mann, J.W.
 Electronic Components and Technology Conference, 1992. Proceedings., 42nd
 Year: 1992
 Pages: 1046 - 1052, DOI: 10.1109/ECTC.1992.204335
 Cited by: Patents (2)
IEEE Conference Publications

Abstract (469 Kb)

☐ **Automatic Detection of Adverse Weather Conditions in Traffic Scenes**

Lagorio, A.; Grosso, E.; Tistarelli, M.
 Advanced Video and Signal Based Surveillance, 2008. AVSS '08. IEEE Fifth International Conference on
 Year: 2008
 Pages: 273 - 279, DOI: 10.1109/AVSS.2008.50
 Cited by: Papers (1)
IEEE Conference Publications

Abstract (748 Kb)

☐ **An Automatic TV Tracking Theodolite for Range Instrumentation**

Wisnieff, Robert E.
 Military Electronics, IRE Transactions on
 Year: 1961, Volume: MIL-5, Issue: 4
 Pages: 326 - 330, DOI: 10.1109/IRET-MIL.1961.5008375
IEEE Journals & Magazines

Abstract (1837 Kb)

☐ **Detecting External Disturbances on the Camera Lens in Wireless Multimedia Sensor Networks**

Alippi, C.; Boracchi, G.; Camplani, R.; Roveri, M.
 Instrumentation and Measurement, IEEE Transactions on
 Year: 2010, Volume: 59, Issue: 11
 Pages: 2982 - 2990, DOI: 10.1109/TIM.2010.2047129
 Cited by: Papers (1)
IEEE Journals & Magazines

Abstract (1025 Kb)

☐ **Object Specific Image Reconstruction using a Compressive Sensing Architecture for Application in Surveillance Systems**

Mahalanobis, A.; Muise, R.
 Aerospace and Electronic Systems, IEEE Transactions on
 Year: 2009, Volume: 45, Issue: 3
 Pages: 1167 - 1180, DOI: 10.1109/TAES.2009.5259191
 Cited by: Papers (13)
IEEE Journals & Magazines

Abstract (3167 Kb)

- ☐ **Improving electrical safety in an electrolytic cell line**
 Long, A.; Boyd, S.; Phillips, J.; Machado, R.; Kelly, E.; Trambly, M.;
 Ciaikowski, E.
 Petroleum and Chemical Industry Conference (PCIC), 2010 Record of
 Conference Papers Industry Applications Society 57th Annual
 Year: 2010
 Pages: 1 - 13, DOI: 10.1109/PCIC.2010.5666817
 Cited by: Papers (2)
IEEE Conference Publications
- Abstract (504 Kb)
-
- ☐ **Optimal camera placement with adaptation to dynamic scenes**
 Fiore, L.; Somasundaram, G.; Drenner, A.; Papanikolopoulos, N.
 Robotics and Automation, 2008. ICRA 2008. IEEE International Conference on
 Year: 2008
 Pages: 956 - 961, DOI: 10.1109/ROBOT.2008.4543328
 Cited by: Papers (1)
IEEE Conference Publications
- Abstract (1396 Kb)
-
- ☐ **Simultaneous beams in large phased radar arrays**
 Ascione, M.; Bernardi, G.; Buonanno, A.; D'Urso, M.; Felaco, M.; Labate, M.G.;
 Prisco, G.; Vinetti, P.
 Phased Array Systems & Technology, 2013 IEEE International Symposium on
 Year: 2013
 Pages: 616 - 616, DOI: 10.1109/ARRAY.2013.6731900
IEEE Conference Publications
- Abstract (244 Kb)
-
- ☐ **Statistical tracking in video traffic surveillance**
 Boyd, J.E.; Meloche, J.; Vardi, Y.
 Computer Vision, 1999. The Proceedings of the Seventh IEEE International
 Conference on
 Year: 1999, Volume: 1
 Pages: 163 - 168 vol.1, DOI: 10.1109/ICCV.1999.791213
 Cited by: Papers (12) | Patents (2)
IEEE Conference Publications
- Abstract (128 Kb)
-
- ☐ **The SIP-Based System Used in Connection with a Firewall**
 Koski, P.; Ylinen, J.; Louia, P.
 Telecommunications, 2006. AICT-ICIW '06. International Conference on
 Internet and Web Applications and Services/Advanced International
 Conference on
 Year: 2006
 Pages: 203 - 203, DOI: 10.1109/AICT-ICIW.2006.191
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- Abstract (224 Kb)
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- ☐ **Evaluation of an Immersive Learning Programme to Support Triage Training**
 Jarvis, S.; De Freitas, S.
 Games and Virtual Worlds for Serious Applications, 2009. VS-GAMES '09.
 Conference in

Year: 2009

Pages: 117 - 122, DOI: 10.1109/VS-GAMES.2009.31

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IEEE Conference Publications

Abstract

(1065 Kb)

 Handling dynamic changes in hierarchical radiosily through interaction meshes

Carre, S.; Deniel, J.M.; Guillou, E.; Bouatouch, K.

Computer Graphics and Applications, 2000. Proceedings. The Eighth Pacific Conference on

Year: 2000

Pages: 40 - 436, DOI: 10.1109/PCCGA.2000.883677

IEEE Conference Publications

Abstract

(1148 Kb)

 Aerosol retrieval over land from AVHRR data-application for atmospheric correction

Holben, B.; Vermote, E.; Kaufman, Y.J.; Tanre, D.; Kalb, V.

Geoscience and Remote Sensing, IEEE Transactions on

Year: 1992, Volume: 30, issue: 2

Pages: 212 - 222, DOI: 10.1109/36.134072

Cited by: Papers (23)

IEEE Journals & Magazines

Abstract

(1108 Kb)

 e-service composition: supporting dynamic definition of process-oriented negotiation parameters

Piccinelli, G.; Preist, C.; Bartolini, C.

Database and Expert Systems Applications, 2001. Proceedings. 12th International Workshop on

Year: 2001

Pages: 727 - 731, DOI: 10.1109/DEXA.2001.953143

Cited by: Papers (3) | Patents (16)

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Abstract

(400 Kb)

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Method and system for data layout and replacement in ...


www.google.com/patents/US6999988

Grant - Filed Mar 30, 2001 - Issued Feb 14, 2006 - Milind M. Buddhikot - Lucent Technologies Inc.

Each proxy server uses this information to recompute caching ... at the origin server to determine whether a rank change for said media clip has occurred; and ... The present application claims priority to a United States Provisional ... it is absolutely required to do so in response to client requests thereby ...

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Schematic-based layout migration

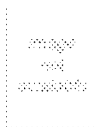

www.google.com/patents/US20120233576

App. - Filed Mar 9, 2011 - Published Sep 13, 2012 - Geoffrey R. Barrows - International Business Machines Corporation

The methods herein automatically change the original design size ... different amounts of space required within the changed design size for each of the replacement cells. ... The first thing is to determine if there are any programs that will ... A proxy server is a server that sits between a client application, such ...

[Overview](#) [Related](#) [Discuss](#)

Controlling proxy tool with injected widget code


www.google.com/patents/WO2015042969A1?cl=en

App. - Filed Sep 30, 2013 - Published Apr 2, 2015 - Yang Luo - Hewlett-Packard Development Company, L.P.

Upon a determination that a subsequent request from the client device corresponds to user interaction with the widget and not the rendered application code, a state of the proxy tool is updated ... recording tool's GUI and an application's GUI without the need to change screens. ... The adjacent layout of Fig.

[Overview](#) [Related](#) [Discuss](#)

Remote user interface proxy apparatus and method of ...


www.google.com/patents/US20090210488

App. - Filed Feb 20, 2009 - Published Aug 20, 2009 - Joo-yeol Lee - Samsung Electronics Co., Ltd.

Provided is a proxy apparatus having an embedded remote user interface client (RUIC) and an ... application claims the priority of Korean Patent Application No. In operation 302, the proxy apparatus determines whether or not the UI ... 5, the proxy apparatus changes the layout and the size of the UI ...

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Rui proxy apparatus and a ui component processing method ...


www.google.com/patents/EP2278773A2?cl=en

App. - Filed Feb 19, 2009 - Published Jan 26, 2011 - Joo-Yeol Lee - Samsung Electronics Co., Ltd.

Also, the user cannot change the RUIC in a seamless form. ... for rendering and controlling a user interface to control applications on a device other than In operation 302, the proxy apparatus determines whether or not the UI ... 5, the proxy apparatus changes the layout and the size of the UI components ...

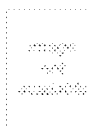
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System for hosting graphical layout/presentation objects

www.google.com/patents/WO2004107308A1?cl=en

App. - Filed May 15, 2003 - Published Dec 9, 2004 - Sujal S Parikh - Microsoft Corp

The presenter system enables application user interface developers to



implement ... that require updating based upon changes to corresponding graphical elements. The layout operation determines the content and placement of the lines of text within a ... 5 summarizes the structure of a child proxy class;.

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System for hosting graphical layout/presentation objects



www.google.com/patents/EP1627376A1?cl=en

App. - Filed May 15, 2003 - Published Feb 22, 2006 - Sujal S. Parikh - Microsoft Corporation

The presenter system enables application user interface developers to ... a change to a graphical element to determine whether to update a corresponding presenter. 8. ... that require updating based upon changes to corresponding graphical elements. 5 summarizes the structure of a child proxy class;.

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System for hosting graphical layout/presentation objects



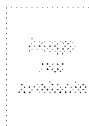
www.google.com/patents/US20040225960

App. - Filed May 9, 2003 - Published Nov 11, 2004 - Sujal Parikh - Microsoft Corporation

The presenter system enables application user interface developers to implement ... that require updating based upon changes to corresponding graphical elements. The layout operation determines the content and placement of the lines of text within a ... 5 summarizes the structure of a child proxy class;.

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System for hosting graphical layout/presentation objects



www.google.com/patents/CA2462172A1?cl=en

App. - Filed May 15, 2003 - Published Nov 9, 2004 - Sujal S. Parikh - Microsoft Corporation

The presenter system enables application user interface developers to implement ... that require updating based upon changes to corresponding graphical elements. The layout operation determines the content and placement of the lines of text within a ... 5 summarizes the structure of a child proxy class;.

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Network system



www.google.com/patents/US20100031139

App. - Filed Dec 21, 2007 - Published Feb 4, 2010 - Yasuhiro Ihara - Access Co., Ltd

a drawing data generating unit that determines the page layout based on the page However, the inventor of the present application has been found that if the 5 is a block diagram illustrating a configuration of a proxy server as explained above, the processes required for a layout change of a page ...

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1 [User-Centered Design Stories: Real-World UCD Case Studies](#)[Carol Righi, Janice James](#)

April 2007

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Intended for both the student and the practitioner, this is the first user-centered design casebook. It follows the Harvard Case study method, where the reader is placed in the role of the decision-maker in a real-life professional situation. In this ...

Keywords: User Interfaces2 [No Code Required: Giving Users Tools to Transform the Web](#)[Allen Cypher, Mira Dontcheva, Tessa Lau, Jeffrey Nichols](#)

April 2010

No Code Required: Giving Users Tools to Transform the Web

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Revolutionary tools are emerging from research labs that enable all computer users to customize and automate their use of the Web without learning how to program. No Code Required takes cutting edge material from academic and industry leaders ...

3 [API Design for C++... 1st edition](#)[Martin Reddy](#)

February 2011

API Design for C++, 1st edition

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The design of application programming interfaces can affect the behavior, capabilities, stability, and ease of use of end-user applications. With this book, you will learn how to design a good API for large-scale long-term projects. With extensive C++ ...

4 [Moving To The Cloud: Developing Apps in the New World of Cloud Computing... 1st edition](#)[Dinkar Sitaram, Geetha Manjunath](#)

December 2011

Moving To The Cloud: Developing Apps in the New World of Cloud Computing, 1st edition

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Moving to the Cloud provides an in-depth introduction to cloud computing models, cloud platforms, application development paradigms, concepts and technologies. The authors particularly examine cloud platforms that are in use today. They also describe ...

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Authors Jim Jeffers and James Reinders spent two years helping educate customers about the prototype and pre-production hardware before Intel introduced the first Intel Xeon Phi coprocessor. They have distilled their own experiences coupled with insights ...

6 [Open Source Fuzzing Tools](#)

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8 [Botnets: The Killer Web Applications](#)

[Craig Schiller](#), [Jim Binkley](#)

February 2007

Botnets: The Killer Web Applications

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The book begins with real world cases of botnet attacks to underscore the need for action. Next the book will explain botnet fundamentals using real world examples. These chapters will cover what they are, how they operate, and the environment and technology ...

Keywords: Computer Science, Security

9 [The Basics of Information Security: Understanding the Fundamentals of InfoSec in Theory and Practice, 2nd edition](#)

[Jason Andress](#)

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Great commercial penetration testing tools can be very expensive and sometimes hard to use or of questionable accuracy. This book helps solve both of these problems. The open source, no-cost penetration testing tools presented do a great job and can ...

11 Securing Citrix Presentation Server in the Enterprise

Farag Azad

June 2008

Securing Citrix Presentation Server in the Enterprise

Publisher: Syngress Publishing

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Citrix Presentation Server allows remote users to work off a network server as if they weren't remote. That means Incredibly fast access to data and applications for users, no third party VPN connection, and no latency issues. All of these features ...

Keywords: Applied, Computer Science, Computers, Security

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Steven Palmer

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This book is about Web Application Hacking. The world-renowned authors teach the reader to use publicly available tools to conduct thorough assessments of web application. This assessment process provides the reader with an understanding of Web application ...

Keywords: CGI, JavaScript, Perl, VBScript, Security

13 The Best Damn Windows Server 2008 Book Period, 2 edition

Anthony Piltzecker

June 2008

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Publisher: Syngress Publishing

Full text available:

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The Second Edition of the Best Damn Windows Server Book Period is completely revised and updated to Windows Server 2008. This book will show you how to increase the reliability and flexibility of your server infrastructure with built-in Web and ...

Keywords: Applied, Computer Science, Computers, Security, Viruses

14 Malware Forensics Field Guide for Windows Systems: Digital Forensics Field Guides

Cameron H. Malin, Eoghan Casey, James M. Aquilina

June 2012

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Publisher: Syngress Publishing

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15 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michael F. H. Sauer

November 1997

CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

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S10	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/10 13:52
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S13	2683	context same sensitive same (gui or interface or ui or component or object or element) same (proxy or software or program or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:19
S14	2	context same sensitive same (gui or interface or ui or component or object or element) same (proxy or software or program or application) same render\$4 same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:20
S15	587	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:21
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S17	145	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application) and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 11:23
S18	2	("5644738").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 11:43
S19	2	("6801929").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 11:45
S20	2	("6584469").PN.	US-PGPUB; USPAT;	OR	OFF	2011/01/13 11:45

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S21	8	context with sensitive with (gui or interface or ui or component or object or element) with (proxy or software or program or application) and student and professional and version	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:54
S22	11	different same version same (software or application or product) same student same version same professional	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:56
S23	10	(provid\$4 or display) same different same (gui or interface or ui) same student same professional	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 12:59
S24	18230	proxy same (gui or interface or ui)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:05
S25	6	proxy same (gui or interface or ui) same context same sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:05
S26	1763	proxy same (gui or interface or ui) same architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:09
S27	283	proxy with (gui or interface or ui) with architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10
S28	35	proxy near4 (gui or interface or ui) near4 architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10
S30	17	proxy with (gui or interface or ui) with architecture and context with sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:10
S31	684	proxy with (contain\$4 or provid\$4) same (gui or interface or ui) with	US-PGPUB; USPAT;	OR	ON	2011/01/13 13:29

		(component or object or item or element)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S32	405	proxy with (contain\$4 or provid\$4) with (gui or interface or ui) with (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:29
S33	74	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:29
S34	1	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element) and context with sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:30
S35	74	proxy near4 (contain\$4 or provid\$4) near4 (gui or interface or ui) near4 (component or object or item or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 13:31
S36	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/13 14:45
S37	2837	715/762,866,744.CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:11
S38	96	document same manager same retriev\$4 same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:14
S39	5	S37 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 15:14
S40	13	document same manager same retriev\$4 same required same workflow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/13 16:13
S41	2	("6925466").PN.	US-PGPUB; USPAT;	OR	OFF	2011/01/13 18:02

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S42	2	("6038395").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/14 10:34
S43	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/18 15:48
S44	26	proxy same (chang\$4 or modif\$4) same (interface or gui or ui) same during same execution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:19
S45	54	proxy same (chang\$4 or modif\$4) same (interface or gui or ui) same during same execut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:20
S46	16	proxy same (chang\$4 or modif\$4) with (interface or gui or ui) same during same execut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:20
S47	2	("6542908").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/18 18:28
S48	8132	ims and proxy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:32
S49	386	ims and steven and proxy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:33
S50	357	ims and steven and proxy and interface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:34
S51	118	ims and steven and proxy same interface	US-PGPUB; USPAT;	OR	ON	2011/07/18 18:34

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S52	78	ims and d and steven and proxy same interface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:34
S53	24	ims and d and steven and proxy same interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:35
S54	4082	proxy same interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:37
S55	2490	proxy with interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:37
S56	123	proxy with (chang\$4 or modif\$4) with interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:37
S57	30	proxy near4 (chang\$4 or modif\$4) near4 interface and "1999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/18 18:38
S58	404	proxy same (updat\$4 or chang\$4 or modif\$4) same (gui or interface or ui) same (layout or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/19 12:32
S59	50	proxy with (updat\$4 or chang\$4 or modif\$4) with (gui or interface or ui) with (layout or element)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/19 12:32
S60	10	proxy with (updat\$4 or chang\$4 or modif\$4) with (gui or interface or ui) with (layout or element) same exec\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/19 12:33
S61	17	proxy with (updat\$4 or chang\$4 or modif\$4) with (gui or interface or ui)	US-PGPUB; USPAT;	OR	ON	2011/07/19 12:34

		with (layout or element) and "1999"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S62	2	("7168086").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/19 16:24
S67	2	("6425120").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/20 15:35
S68	2	("6529909").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/07/20 15:46
S69	2	("6038395").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/04/03 13:28
S70	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/04/03 13:48
S71	2	("6038395").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/04/04 12:01
S72	2	("7168086").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/04/04 12:19
S73	2	("6558431").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/08/01 18:12
S74	4	("6038395").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/08/01 18:12
S75	2	("7168086").PN.	US-PGPUB; USPAT;	OR	OFF	2015/08/01 18:12

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S76	3120	715/762.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 18:49
S77	6816	345/676,594,589.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 18:56
S79	34348	S76 or S77 or 715/700.ccls. or G06F9/4443.CPC. or ((G06T2200/24).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 19:00
S80	6	proxy same render\$4 same (workflow near4 (manager\$4 or component))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 19:02
S81	9	("2002/0167543").URPN.	USPAT	OR	ON	2015/08/01 19:12
S82	12	proxy same render\$4 same (workflow same (manager\$4 or component))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 19:19
S83	3	S79 and S82	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 19:19
S84	194	proxy same determin\$4 same (chang\$4 or updat\$4) same application same program	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 19:21
S85	5	S79 and S84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 19:21
S86	23	(proxy same determin\$4 same (chang\$4 or updat\$4) same application same program).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/01 19:23

S87	9	("6775671").URPN.	USPAT	OR	ON	2015/08/01 19:25
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	23	(proxy same determin\$4 same (chang\$4 or updat\$4) same application same program).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2015/08/03 18:28
S88	2284	715/762.ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2015/08/01 19:17
S89	4926	345/676,594,589.ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2015/08/01 19:17
S90	18008	S88 or S89 or 715/700.ccls. or G06F9/4443.CPC. or (G06T2200/24).CPC.)	US-PGPUB; USPAT; UPAD	OR	ON	2015/08/01 19:18
S91	6	proxy same render\$4 same (workflow near4 (manager\$4 or component))	US-PGPUB; USPAT; UPAD	OR	ON	2015/08/01 19:18
S92	12	proxy same render\$4 same (workflow same (manager\$4 or component))	US-PGPUB; USPAT; UPAD	OR	ON	2015/08/01 19:19
S93	3	S90 and S92	US-PGPUB; USPAT; UPAD	OR	ON	2015/08/01 19:19

8/ 3/ 2015 6:30:10 PM
C:\ Users\ ehur\ Documents\ EAST\ Workspaces\ 11509503_ProxyRenderer.w sp

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

75563 7590 08/12/2015
ROPES & GRAY LLP
PATENT DOCKETING 39/361
1211 AVENUE OF THE AMERICAS
NEW YORK, NY 10036-8704

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	003597-1256-102	5950

TITLE OF INVENTION: USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	11/12/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
HUR, ECE	2172	715-762000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Ropes & Gray LLP

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Sonic Solutions

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Santa Clara, California

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 06-1075 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Saad Hassan/

Typed or printed name Saad Hassan

Date November 12, 2015

Registration No. 70,223

Electronic Patent Application Fee Transmittal				
Application Number:		11509503		
Filing Date:		23-Aug-2006		
Title of Invention:		USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES		
First Named Inventor/Applicant Name:		Jeffrey A. Smith		
Filer:		Saad Khalid Hassan/Petra Valentin		
Attorney Docket Number:		003597-1256-102		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				960

Electronic Acknowledgement Receipt

EFS ID:	24060261
Application Number:	11509503
International Application Number:	
Confirmation Number:	5950
Title of Invention:	USER INTERFACE METHOD AND SYSTEM FOR APPLICATION PROGRAMS IMPLEMENTED WITH COMPONENT ARCHITECTURES
First Named Inventor/Applicant Name:	Jeffrey A. Smith
Customer Number:	75563
Filer:	Saad Khalid Hassan/Petra Valentin
Filer Authorized By:	Saad Khalid Hassan
Attorney Docket Number:	003597-1256-102
Receipt Date:	12-NOV-2015
Filing Date:	23-AUG-2006
Time Stamp:	16:01:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 960
RAM confirmation Number	2749
Deposit Account	061075
Authorized User	HASSAN, SAAD

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		003597-1256-102-312-Amd.pdf	22494 cf0c27f64b6a2bf9414a2cba4773a58695111f9d	yes	6
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment after Notice of Allowance (Rule 312)		1	1	
	Claims		2	5	
	Applicant Arguments/Remarks Made in an Amendment		6	6	
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	003597-1256-102-Issue-Fee.pdf	176462 4864640da5c74257fdc986eba97a03fc661f4118	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30657 c53a49527457ff775ae120889bafcfec6d6229f4	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			229613		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Smith et al.

Allowed: August 12, 2015

Application No.: 11/509,503

Confirmation No.: 5950

Filed: August 23, 2006

Art Unit: 2172

For: USER INTERFACE METHOD AND SYSTEM
FOR APPLICATION PROGRAMS IMPLEMENTED
WITH COMPONENT ARCHITECTURES

Examiner: E. Hur

AMENDMENT AFTER ALLOWANCE UNDER 37 C.F.R. 1.312

MS Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Prior to issuance of the patent, applicants respectfully request entry of this amendment under 37 C.F.R. 1.312 for the above-captioned patent application.

Amendments of the Claims begin on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

AMENDMENTS OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A computer implemented system for providing a graphical user interface, comprising: a non-transitory computer readable medium;
a renderer defined to render a graphical user interface (GUI) for an application program;
a proxy defined to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and
a workflow manager defined to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI,
wherein the renderer, the proxy, and the workflow manager are executed ~~[[by]]~~ from the non-transitory computer readable medium.
2. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein the proxy enables details of each component which makes up the application program to be hidden from the renderer.
3. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein the proxy enables each component which makes up the application program to be modified in a manner that is transparent to the renderer.

4. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format.

5. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer.

6. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, wherein each document viewer is defined to register an associated workflow with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components.

7. (Original) A computer implemented system for providing a graphical user interface as recited in claim 6, wherein the workflow manager is defined to register user interface components for each registered workflow.

8. (Original) A computer implemented system for providing a graphical user interface as recited in claim 1, further comprising:

an active document manager defined to retrieve a document required by a workflow upon registration of the workflow with the workflow manager and communicate the retrieved document to the workflow manager for provision to the renderer through the proxy.

9. (Previously Presented) A method for providing a graphical user interface, comprising:

operating a renderer to render a graphical user interface (GUI) for an application program;
operating a proxy to provide each component necessary for rendering the GUI to the renderer, wherein the proxy appears to the renderer as a single monolithic application program, and

wherein the proxy is defined to determine changes required to be made to the GUI for the application program during execution of the application program, wherein a given change determined by the proxy is one of rendering a new layout in the GUI and updating a present layout in the GUI; and

operating a workflow manager to communicate one or more document viewers and associated user interface components to the proxy for provision to the renderer as components necessary for rendering the GUI.

10. (Original) A method for providing a graphical user interface as recited in claim 9, wherein the proxy functions to hide details of each component which makes up the application program from the renderer.

11. (Original) A method for providing a graphical user interface as recited in claim 9, wherein the proxy functions to enable each component which makes up the application program to be modified in a manner that is transparent to the renderer.

12. (Original) A method for providing a graphical user interface as recited in claim 9, wherein each of the one or more document viewers includes functions to enable the renderer to display a current document in an appropriate format.

13. (Original) A method for providing a graphical user interface as recited in claim 9, wherein each document viewer includes a respective user interface requirements specification referencing one or more user interface components associated with the document viewer.

14. (Original) A method for providing a graphical user interface as recited in claim 9, further comprising:

registering a workflow associated with each document viewer with the workflow manager upon instantiation of the document viewer, the workflow including methods, variables, and states to be shared among program components.

15. (Original) A method for providing a graphical user interface as recited in claim 14, wherein the workflow manager functions to register user interface components for each registered workflow.

16. (Original) A method for providing a graphical user interface as recited in claim 9, further comprising:

operating an active document manager to retrieve a document required by a workflow upon registration of the workflow with the workflow manager, further operating the active document manager to communicate the retrieved document to the workflow manager for provision to the renderer through the proxy.

REMARKS

The above-identified application was allowed on August 12, 2015. Applicants respectfully request entry, pursuant to 37 C.F.R. § 312, of the foregoing amendment to claim 1. The amendment corrects a minor informality. No new matter has been added and the amendment is fully supported by the originally-filed application.

Applicants respectfully submit that the proposed claim amendment merely embodies "the correction of formal matters without changing the scope of the claims." Accordingly, entry of these amendments would "require no substantial amount of additional work on the part of the [Patent and Trademark] Office" (MPEP § 714.16).

Entry of this amendment, without withdrawing the application from issue, is hereby respectfully requested.

Applicants believe no fee is due with this paper other than the fees indicated in the enclosed fee transmittal. However, if a fee is due, please charge our Deposit Account No. 06-1075, under Order No. 003597-1256-102 from which the undersigned is authorized to draw.

Dated: November 12, 2015

Respectfully submitted,

By /Saad Hassan/

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	08/23/2006	Jeffrey A. Smith	003597-1256-102	5950
75563	7590	12/11/2015		
ROPES & GRAY LLP PATENT DOCKETING 39/361 1211 AVENUE OF THE AMERICAS NEW YORK, NY 10036-8704			EXAMINER HUR, ECE	
			ART UNIT	PAPER NUMBER
			2172	
			NOTIFICATION DATE	DELIVERY MODE
			12/11/2015	ELECTRONIC

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

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPatentMail@ropesgray.com
USPatentMail2@ropesgray.com

**UNITED STATES DEPARTMENT OF COMMERCE****U.S. Patent and Trademark Office**

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Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
11/509,503	23 August, 2006	SMITH ET AL.	003597-1256-102

ROPES & GRAY LLP PATENT DOCKETING 39/361 1211 AVENUE OF THE AMERICAS NEW YORK, NY 10036-8704		EXAMINER	
		ECE HUR	
		ART UNIT	PAPER
		2172	20151208

DATE MAILED:

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

Commissioner for Patents

Applicant's Amendment under 37 C.F.R. 1.312 on 11/12/2015 is entered accepted by the Examiner. The amendment contains only minor changes does not change the scope of the Claim.

Primary Examiner
/Ece Hur/

12/08/2015

Response to Rule 312 Communication	Application No. 11/509,503	Applicant(s) SMITH ET AL.
	Examiner ECE HUR	Art Unit 2172

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

1. ☒ The amendment filed on 12 November 2015 under 37 CFR 1.312 has been considered, and has been:
- a) ☒ entered.
 - b) ☐ entered as directed to matters of form not affecting the scope of the invention.
 - c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.
 - d) ☐ disapproved. See explanation below.
 - e) ☐ entered in part. See explanation below.

The amendment does not change the scope, there are minor changes.

Primary Examiner /Ece Hur/	
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/509,503	01/12/2016	9235428	003597-1256-102	5950

75563 7590 12/22/2015
ROPES & GRAY LLP
PATENT DOCKETING 39/361
1211 AVENUE OF THE AMERICAS
NEW YORK, NY 10036-8704

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 2913 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

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