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(54) Title: EFFICIENT INFORMATION TRANSFER SYSTEMS

(57) Abstract: This invention relates to providing a system for improved user productivity and administrative management capability enabling control of software application functionality. Productivity is enabled with a single drag-and-drop operation for moving data in email attachments to web-enabled databases. In commercial work environments, where multiple computer software applications must collaborate with assistance of a user, it is desirable to have an environment facilitating efficiency of user input for accomplishing tasks, particularly in efficient transferring, particularly using a drag-and-drop point/select/command device, particularly using only one user motion for each transfer, of multiple data files from an email application into a browser-accessible database.

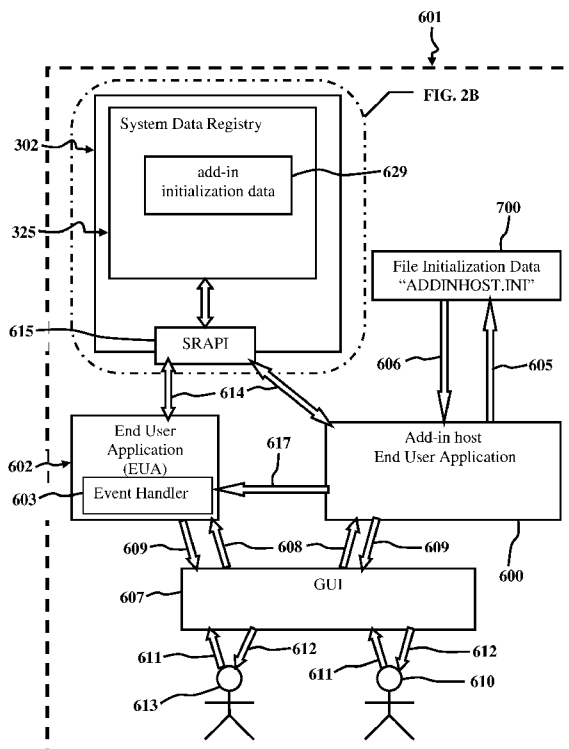


FIG. 2A

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EFFICIENT INFORMATION TRANSFER SYSTEMS**BACKGROUND**

This invention relates to efficient information transfer systems, particularly providing a system for improved user productivity and administrative management capability enabling control of software application functionality. In commercial work environments, where multiple computer software applications must collaborate with assistance of a user, it is desirable to have an environment facilitating efficiency of user input for accomplishing tasks. Enabling administrative management of software application functionality creates a focused work environment keeping software applications (such as Internet web browsers) from being used for purposes other than commercial purposes.

More particularly, this invention relates to enhancing productivity (and overcoming productivity problems) by tightly integrating graphical user interfaces of multiple software applications together.

OBJECTS AND FEATURES OF THE INVENTION

A primary object and feature of the present invention is to provide a system overcoming the above-mentioned problems.

It is a further object and feature of the present invention to provide such a system enhancing data transfer between software applications such as email and web-enabled databases.

It is yet a further object and feature of the present invention to provide such a system that tightly integrates graphical user interfaces of multiple commercial off the shelf ("COTS") software applications, such as email and database clients.

It is another object and feature of the present invention to provide software architecture capable of enhancing productivity by providing transfer of email attachments for input a database by a simple drag-and-drop operation.

It is yet another object and feature of the present invention to provide software architecture capable of enhancing productivity and focusing the work environment.

It is yet a further object and feature of the present invention to enhance administrative control of applications.

It is yet another object and feature of the present invention to facilitate management of a focused and task-oriented work environments.

It is another object and feature of the present invention to provide administrative control to allow enablement of only that functionality needed for the required task.

It is another object and feature of the present invention to provide close proximity of all graphical elements, thus permitting efficient user interaction with all integrated software applications.

5 It is another object and feature of the present invention to provide a drag-and-drop moving step to permit the user to perform such moving step with exactly one continuous motion of the point/select/command device.

A further primary object and feature of the present invention is to provide such a system that is efficient, inexpensive, and handy. Other objects and features of this invention will become apparent with reference to the following descriptions.

10

SUMMARY OF THE INVENTION

In accordance with a preferred embodiment hereof, this invention provides a system, relating to, using at least one GUI display and at least one point/select/command device, transferring useful information, associated with user-selected data associated with at least one data icon, between at least one first software application displaying in at least one first pane and
15 at least one second software application displaying in at least one second pane, comprising: first software application computing means for providing at least one first set of software operations displayable-in the at least one first pane; second software application computing means for providing at least one second set of software operations displayable-in the at least one second
20 pane; icon selector computing means for selecting, using the point/select/command device, within the at least one first display pane, the at least one data icon; icon mover computing means for moving, using the point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane; and icon releaser computing means for releasing, using the point/select/command device, within the at least one second display pane, the at least one data icon; wherein such icon releaser computing means comprises information
25 classifier computing means for classifying the useful information to categorize any metadata to provide metadata classification information; and information transfer computing means for transferring the useful information and any associated metadata classification information to the second software application.

Moreover, it provides such a system wherein such first software application computing
30 means comprises at least one email-client software application. Additionally, it provides such a system wherein such second software application computing means comprises at least one web-browser software application. Also, it provides such a system wherein such at least one web-browser software application displays within the at least one pane of the at least one email-client software application. In addition, it provides such a system wherein: such at least one web-

browser software application comprises at least one database client software application; and such information transfer computing means transfers the useful information and such any associated at least one metadata classification information to such at least one database client software application. And, it provides such a system wherein such any associated at least one
5 metadata classification information comprises at least one user-selected data extension file type.

Further, it provides such a system wherein such information classifier computing means comprises file type identifier computing means for identifying at least one user-selected data extension file type. Even further, it provides such a system, further comprising user limiter computing means for administratively limiting user access to such at least one web-browser
10 software application. Moreover, it provides such a system, wherein such user limiter computing means comprises text field limiter computing means for limiting at least one edit property of at least one editable text field.

In accordance with another preferred embodiment hereof, this invention provides a program, relating to, using at least one GUI display and at least one point/select/command
15 device, transferring useful information, associated with user-selected data associated with at least one data icon, between at least one first software application displaying in at least one first pane and at least one second software application displaying in at least one second pane, comprising the steps of: providing at least one first set of software operations displayable in the at least one first pane; providing at least one second set of software operations displayable in the at least one
20 second pane; selecting, using the point/select/command device, within the at least one first display pane, the at least one data icon; moving, using the point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane; and releasing, using the point/select/command device, within the at least one second display pane, the at least one data icon; classifying the useful information to categorize any metadata to
25 provide metadata classification information; and transferring the useful information and any associated metadata classification information to the second software application.

Additionally, it provides such a system wherein such first set of software operations comprises at least one email-client software application. Also, it provides such a system wherein such second set of software operations comprises at least one web-browser software application.
30 In addition, it provides such a system wherein such at least one web-browser software application displays within the at least one pane of the at least one email-client software application. And, it provides such a system wherein: such at least one web-browser software application comprises at least one database client software application; and the useful information and such any associated at least one metadata classification information is

transferred to such at least one database client software application. Further, it provides such a system wherein such at least one metadata classification information comprises at least one user-selected data extension file type.

Even further, it provides such a system wherein such classifying the useful information comprises identifying at least one user-selected data extension file type. Moreover, it provides such a system, further comprising administratively limiting user access to such at least one web-browser software application. Additionally, it provides such a system, wherein such administratively limiting user access comprises limiting at least one edit property of at least one editable text field.

In accordance with another preferred embodiment hereof, this invention provides a system, relating to, using at least one GUI display and at least one point/select/command device, transferring information, associated with user-selected data associated with at least one data icon, between at least one first software application displaying in at least one first pane and at least one second software application displaying in at least one second pane, comprising: at least one first software application processor adapted to provide at least one first set of software operations displayable-in the at least one first pane; at least one second software application processor adapted to provide at least one second set of software operations displayable-in the at least one second pane; at least one icon selector processor adapted to select, using the point/select/command device, within the at least one first display pane, the at least one data icon; at least one icon mover processor adapted to move, using the point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane; and at least one icon releaser processor adapted to release, using the point/select/command device, within the at least one second display pane, the at least one data icon; wherein such at least one icon releaser processor comprises at least one information classifier processor adapted to classify the information to categorize any metadata; and at least one information transfer processor adapted to transfer the information and any associated at least one user-selected data extension file type to the at least one second software application processor.

Also, it provides such a system wherein such first software application processor comprises at least one email-client software application processor. In addition, it provides such a system wherein such second software application processor comprises at least one web-browser software application processor. And, it provides such a system wherein such at least one web-browser software application processor displays within the at least one pane of the at least one email-client software application processor. Further, it provides such a system wherein: such at least one web-browser software application processor comprises at least one database client

software application processor; and such information transfer processor transfers the useful information and such any associated at least one metadata classification information to such at least one database client software application processor. Even further, it provides such a system wherein such any associated at least one metadata classification information comprises at least one user-selected data extension file type.

Moreover, it provides such a system wherein such information classifier processor comprises at least one file type identifier processor that identifies at least one user-selected data extension file type. Additionally, it provides such a system, further comprising at least one user limiter processor that administratively limits user access to such at least one web-browser software application. Also, it provides such a system, wherein such user limiter processor comprises text field limiter processor that limits at least one edit property of at least one editable text field.

In accordance with another preferred embodiment hereof, this invention provides a digital storage means containing computer readable indicia representing a computer program relating to, using at least one GUI display and at least one point/select/command device, transferring information, associated with user-selected data associated with at least one data icon, between at least one first software application displaying in at least one first pane and at least one second software application displaying in at least one second pane, such program comprising the steps of: providing at least one first set of software operations displayable in the at least one first pane; providing at least one second set of software operations displayable in the at least one second pane; selecting, using the point/select/command device, within the at least one first display pane, the at least one data icon; moving, using the point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane; releasing, using the point/select/command device, within the at least one second display pane, the at least one data icon; classifying the information to categorize any metadata; identifying at least one user-selected data extension file type; transferring the information and any associated at least one user-selected data extension file type to the at least one second software application.

In addition, it provides such a system wherein such first set of software operations comprises at least one email-client software application. Also, it provides such a system wherein such second set of software operations comprises at least one web-browser software application. Further, it provides such a system wherein such at least one web-browser software application displays within the at least one pane of the at least one email-client software application. Even further, it provides such a system wherein: such at least one web-browser software application comprises at least one database client software application; and the useful information and such

any associated at least one metadata classification information is transferred to such at least one database client software application. Moreover, it provides such a system wherein such at least one metadata classification information comprises at least one user-selected data extension file type. Additionally, it provides such a system wherein such classifying the useful information
5 comprises identifying at least one user-selected data extension file type. Also, it provides such a system further comprising administratively limiting user access to such at least one web-browser software application. In addition, it provides such a system wherein such administratively limiting user access comprises limiting at least one edit property of at least one editable text field.

10 In accordance with another preferred embodiment hereof, this invention provides a method, relating to providing labor-saving multiple data transfers into at least one database application from another application, comprising the steps of: providing at least one data transfer software application adapted to assist labor-saving information transfer into at least one database
15 user seeking such labor-saving information transfer; wherein such at least one data transfer software application comprises at least the steps of providing at least one first set of software operations displayable in at least one first pane of at least one GUI, providing at least one second set of software operations displayable in at least one second pane of the at least one GUI, wherein such at least one second set of software operations comprises the at least one database
20 application, selecting, using at least one point/select/command device, within the at least one first display pane, at least one data icon, moving, using the at least one point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane, wherein such moving step is enabled to permit at least one user to perform such moving step with exactly one continuous motion of the at least one point/select/command device
25 (“drag”), releasing, using the point/select/command device, within the at least one second display pane, the at least one data icon, classifying the useful information to categorize any metadata to provide metadata classification information, and transferring the useful information and any associated metadata classification information to the at least one database application; wherein the at least one user is enabled to make labor-saving multiple data transfers into the at least one
30 database application.

Further, it provides such a method wherein such at least one first set of software operations comprises at least one email software application. Further, it provides such a method wherein such at least one second pane comprises at least one browser interface. Even further, it provides such a method further comprising the step(s) of: providing, in such at least one database

application, sufficient administrative control of such at least one user to enhance labor-saving monetizing of such multiple data transfers; wherein such labor-saving monetizing comprises enabling better performance. Even further, it provides such a method wherein such labor-saving monetizing comprises better performing of compliance.

5 Even further, it provides such a method wherein such labor-saving monetizing comprises better performing of compliance in at least the area of risk management. Even further, it provides such a method wherein such labor-saving monetizing comprises better performing of compliance in at least the area of time management.

10 In accordance with another preferred embodiment hereof, this invention provides each and every novel feature, element, combination, step and/or method disclosed or suggested by this patent application.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1A shows, diagrammatically, a computer used for commercial or personal computing applications, according to a preferred embodiment of this invention.

15 FIG. 1B shows, diagrammatically, memory region allocation created by an operating system of system memory, according to a preferred embodiment of this invention.

20 FIG. 2A shows, diagrammatically, an application data transfer system, interaction of user with graphical user interface, add-in host end user application with file data read access, and file data write access of file initialization data, according to a preferred embodiment of this invention.

FIG. 2B shows, diagrammatically, initialization data for add-in host end user application, according to a preferred embodiment of this invention.

25 FIG. 3 shows, diagrammatically, computers connected in a data network allowing collaboration of distributed end user application accomplishing a common function, according to a preferred embodiment of this invention.

FIG. 4 shows, diagrammatically, window frame layout of graphical user interface used by end user application to display data on display, according to a preferred embodiment of this invention.

30 FIG. 5 shows, diagrammatically, categories of initialization data used by add-in host end user application, according to a preferred embodiment of this invention.

FIG. 6 shows, diagrammatically, initialization data used by add-in host end user application for authentication, according to a preferred embodiment of this invention.

FIG. 7 shows, diagrammatically, initialization data of explorer ID used to configure web browser and filesystem panes within window frame of OUTLOOK® Explorer, according to a preferred embodiment of this invention.

5 FIG. 8 shows, diagrammatically, initialization data of inspector ID used to configure web browser and filesystem panes with OUTLOOK® Inspector, according to a preferred embodiment of this invention.

FIG. 9 shows, diagrammatically, initialization data of URL ID that configures web browser address combo box with predefined URLs and filesystem address combo box with filesystem paths, according to a preferred embodiment of this invention.

10 FIG. 10 shows an illustration, of a layout of panes for OUTLOOK® Explorer window frame that includes web-browser and filesystem explorer add-in panes, according to a preferred embodiment of this invention.

FIG. 11 shows an illustration, of a layout of panes for OUTLOOK® Inspector window frame that includes web-browser and hidden filesystem explorer add-in panes, according to a preferred embodiment of this invention.

15 FIG. 12 shows an illustration, of a layout of panes for OUTLOOK® Inspector window frame that includes web-browser add-in pane and showing preferences dialog, according to a preferred embodiment of this invention.

FIG. 13 shows an illustration, of preferences dialog with tabs that allows access to display layout, Universal Resource Locator (“URL”) URL locations, and administrative preference attributes, according to a preferred embodiment of this invention.

FIG. 14 shows an illustration, of preferences dialog that allows defining of web URLs and file addresses to initialize web and filesystem add-in address combo boxes, according to a preferred embodiment of this invention.

25 FIG. 15 shows an illustration, of preferences dialog that allows setting of add-in host lock, administrator username, and password, according to a preferred embodiment of this invention.

FIG. 16 shows, diagrammatically, OUTLOOK® Explorer window frame and menu items to access preference configuration, according to a preferred embodiment of this invention.

30 FIG. 17 shows, diagrammatically, OUTLOOK® Explorer window frame with web-browser URL drop-down combo box, according to a preferred embodiment of this invention.

FIG. 18 shows, diagrammatically, OUTLOOK® Explorer window frame with filesystem address drop-down combo box, according to a preferred embodiment of this invention.

FIG. 19 shows, diagrammatically, OUTLOOK® email EUA add-in in-box transferring data to web-browser database client, according to a preferred embodiment of this invention.

FIG. 20 shows, diagrammatically, position enumeration states specifying layout position of pane, preferably three-dimensionally or preferably two-dimensionally, in window frame layout, according to a preferred embodiment of this invention.

FIG. 21 shows an overall schematic illustration, productivity method licensor enabling increased productivity of data transfer between email and web-enabled database, according to a preferred embodiment of the present invention.

FIG. 22 shows a schematic illustration, of a business method for enabling productivity method licensor, compliance requirements, and risk management, according to the preferred embodiment of FIG. 21.

FIG. 23 shows a functional illustration, of a preferred implementation of a preferred business method for enabling productivity method licensor, compliance requirements, and risk management, according to the preferred embodiment of FIG. 22.

FIG. 24 shows a schematic illustration of a typical processor configuration for an implementation of the method relating to productivity method licensor, compliance requirements, and risk management, according to the preferred embodiment of FIG. 22.

DETAILED DESCRIPTION OF THE BEST MODES

AND PREFERRED EMBODIMENTS OF THE INVENTION

Commercial users of computer software applications have many tasks requiring data transfer from email file attachments to database applications with web clients that use the file attachments as input. Tightly integrating graphical user interfaces (“GUI”) of multiple software applications creates an environment where minimal input is required by a user to accomplish desired tasks. Close proximity (e.g., no graphical elements are hidden from view by other elements) of all graphical elements permits efficient user interaction with all integrated software applications.

Commercial enterprises facilitate software programs for performance of specific tasks by employees and customers to accomplish commercial goals for a benefit to an organization. In certain commercial situations, it is desirable to have software applications that are preferably focused on a specific task and preferably cannot be diverted to other undesirable tasks. Integrating GUIs of multiple software applications preferably provides a framework by which administrative configuration capabilities over a software application features are facilitated.

Improvement of productivity and administrative control preferably are facilitated by preferably integrating GUIs of multiple software applications into a graphical display window

frame of preferably multiple panes with a layout manager. A configuration of GUIs preferably tightly integrated into the same graphical window frame requires less manipulation by a user to enter input events. The tight integration of the email and web-enabled database applications GUIs preferably allows a single drag-and-drop operation to transfer data from email and input the data to the database.

FIG. 1A shows diagrammatically general-purpose computer **340** used for commercial or personal computing applications. Computer **340** preferably includes at least one bi-directional data communication port **347**, at least one display **352**, at least one motherboard **355**, at least one system memory **300**, at least one keyboard **358**, at least one long-term memory device **363**, and at least one point/select command device **361**, as shown.

Computer **340** preferably communicates using bi-directional data communication port **347** with preferably at least one other computer **340**. Computer **340** preferably connects via bi-directional data communication connection **345** to data network **350**, as shown (see FIG. 3).

Computer **340** preferably displays visual graphical images in at least one display region **351** of display **352**. Motherboard **355** facilitates execution of end user application (“EUA”), EUA **602** (see FIG. 2A). System memory **300** is preferably comprised of short-term memory. Keyboard **358**, or, alternately preferable, any device facilitating symbolic input, includes alphanumeric keys used to input alphanumeric character data to EUA **602**. Point/select command device **361** preferably comprises at least one device type facilitating data and command event input, preferably capable of drag-and-drop abilities, preferably two-dimensional, preferably at least one mouse. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as technology advances, purpose of the application, user then preferences, etc., other point/select command devices for the EUA, such as touch screen devices, voice recognition devices, vision recognition devices, three-dimensional devices, etc., may suffice.

Long-term memory device **363** preferably comprises any memory device type that retains its state information after power has been removed, preferably a read/write disk drive or, alternately preferable, electrically programmable semi-conductor memory.

FIG. 1B shows diagrammatically memory region allocation **301** created by an operating system program **302** of system memory **300**. System memory **300** preferably comprises at least one memory region **305**, at least one process memory region **310** of add-in host EUA **600**, at least one process memory region **315**, and at least one nth process memory region **320**, as shown.

Memory region **305** preferably supports functionality of operating system program **302**. Process memory region **310** of add-in host EUA **600** preferably supports functionality of add-in

host end user application (“add-in host EUA”), add-in host EUA **600** (see FIG. 2A).

Initialization data **335** of add-in host EUA **600** preferably comprises state data information (which controls and configures operational functionality) of add-in host EUA **600**. Process

memory region **310** of add-in host EUA **600** preferably comprises at least one sub-process
5 memory region **328**. Sub-process memory region **328** preferably provides a program execution environment for EUA **602**. Alternately, process memory region **315** preferably provides a program execution environment for EUA **602**.

Operating system program **302** preferably allocates memory region allocation **301** of system memory **300**. System memory **300** preferably comprises different types of memory,
10 preferably including short-term memory (volatile) and long-term memory (non-volatile). Short-term memory loses its current state when power to system memory **300** is discontinued.

Memory region **305** of operating system program **302** preferably comprises at least one system data registry **325**, at least one copy/paste variable data memory buffer **330**, and at least one display memory **313**, as shown. System data registry **325** preferably provides long-term
15 storage of state data for operating system program **302** and state data for add-in host EUA **600** (see FIG. 2A). Copy/paste variable data memory buffer **330** preferably provides temporary data storage for data to be transported via copy then paste inputs between at least two EUA’s **602**. Display memory **313** preferably comprises state data accessed by a graphics pipeline to render preferably at-least-two-dimensional graphic images onto display **352** of computer **340**.

FIG. 2A shows diagrammatically application data transfer system **601**, interaction of user
20 **613** with GUI **607**, add-in host EUA **600** (with file data read access **606**, and file data write access **605**) of file initialization data (“file ID”), file ID **700**, of add-in EUA **600**. Application data transfer system **601** preferably comprises at least one add-in host EUA **600**, at least one EUA **602**, at least one file data write access **605**, at least one file data read access **606**, at least
25 one file ID **700**, at least one GUI **607**, at least one operating system program **302**, at least one system data registry **325**, at least one digital data input events **608**, at least one output display data **609**, at least one administrator **610**, at least one user inputs **611**, at least one graphical display information **612**, at least one user **613**, at least one registry access function **614**, at least one system registry application programming interface (“SRAPI”), SRAPI **615**, at least one data
30 transfer event **617**, and at least one add-in initialization data **629** providing productivity enhancements with integrated administrative functionality controls, as shown.

A foundational implementation capability and integration of add-in host EUA **600** (with other EUA **600** GUIs) are preferably facilitated with Add-in Express™ for OUTLOOK® Express. Add-in Express™ (available at Internet URL address www.add-in-express.com) is a

family of rapid application development (“RAD”) tools for customizing the GUI of OUTLOOK® Explorer or OUTLOOK® Inspector by adding additional panes **110** into window frame layout **101**. These panes **110** are regions used by EUA **600** as its display pane **110**. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as technology advances, purpose of the application, new tool development, then user preferences, etc., other tool suites for supporting software RAD, such as new integrated development environments, new software foundation libraries, new GUI libraries, etc., may suffice.

Web browser generally refers to any EUA **602** that allows user **613** to navigate to a URL and then it displays the web page, such as Internet Explorer® by Microsoft Corporation.

Filesystem explorer generally refers to any EUA **602** that allows user **613** to navigate through a file system and display the contents of a directory tree, such as Windows® Explorer by Microsoft Corporation. Database client generally refers to any EUA **602** that accesses a database by query, read, or write, such as INTELLIDOX® by Forefront Technologies, Inc. of Burlington, NC.

Add-in host EUA **600** preferably comprises OUTLOOK® Explorer or OUTLOOK® Inspector, alternately preferably, all software applications that utilize GUI **607**.

EUA **602** preferably comprises at least one software application that utilizes GUI **607** (at least embodying herein second software application computing means for providing at least one second set of software operations displayable-in the at least one second pane) and at least one event handler **603**. Event handler **603** of EUA **602** is a sequence of code that processes data transfer event **617** resulting from a drag-and-drop event focused on EUA **602**. Alternately, EUA **602** preferably comprises at least one event handler **603**, at least one Internet web browser, at least one filesystem explorer, and/or at least one local or remote database client. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as technology advances, purpose of the application, new software development, user then preferences, etc., other software applications for the EUA, such as web services, information filters, search engines, stand-alone applications, etc., may suffice.

Add-in host EUA **600**, on installation, preferably initializes system data registry **325** via SRAPI **615** creating add-in initialization data **629** for add-in host EUA **600** startup processing. Operating system program **302** preferably provides SRAPI **615** for add-in host EUA **600** and EUA **602** to create, read and write state data with registry access function **614**.

User **613** and administrator **610** preferably provide inputs **611** to GUI **607** invoking functionality and services provided by add-in host EUA **600**. Add-in host EUA **600** preferably receives input via digital input events **608**. Add-in host EUA **600** preferably sends output display data **609** to GUI **607** (at least embodying herein first software application computing means for providing at least one first set of software operations displayable-in the at least one first pane). GUI **607** preferably renders output display data **609** in at least one window frame layout **101** (see FIG. 4). Digital data input events **608** preferably comprise input of at least one keyboard **358** (see FIG. 1A) or at least one point/select command device **361**.

Add-in host EUA **600** preferably invokes file data read access **606** obtaining a copy of file ID **700**. Add-in host EUA **600** preferably enables functionality of at least one EUA **602** based on predefined states of preferably at least one file ID **700**. File ID **700**, preferably contained in a file, stores in preferably at least one long-term memory device **363** (see FIG. 1A). Data preferably is read with file data read access **606** from a file containing file ID **700**. Application data transfer system **601** preferably places file ID **700** in at least one initialization data **335** (see FIG. 1B) of add-in host EUA **600**. File ID **700** and initialization data **335** (see FIG. 1B) of add-in host EUA **600** are preferably stored in a data record structure as shown in diagrams of FIGS. 15, 16, 17, 18, and 19.

Alternately, during installation of add-in host EUA **600**, add-in host EUA **600** preferably invokes file data read access **606** obtaining a copy of file ID **700**. Add-in host EUA **600** invokes at least one registry access function **614** copying file ID **700** to add-in initialization data **629** for long-term storage.

FIG. 2B shows diagrammatically initialization data **629** contained in system data registry **325** used by add-in host end user application. System data registry **325** preferably comprises at least one admin username **630**, and at least one admin password **631**, or, alternately preferably, at least one add-in host email ID **632**, at least one explorer ID **633**, at least one inspector ID **634**, and at least one URL IDATA **635**, as shown.

Startup authentication of add-in host EUA **600** (see FIG. 2A) preferably occurs by a match when comparing admin username **730** (see FIG. 6) and admin password **733** in initialization data **335** (see FIG. 1B) of add-in host EUA **600** to values of admin username **630** and admin password **631** respectively in system data registry **325**. Add-in host EUA **600** preferably accesses admin username **630** and admin password **631** fields via SRAPI **615**. Add-in host EUA **600** preferably compares admin username **730** and admin password **733** to values in fields of admin username **630** and admin password **631**, respectively. If the compared fields

match, then add-in host EUA **600** is authenticated and not in lock down mode. If the compared fields do not match, then add-in host EUA **600** is not authenticated and is in lock down mode.

Alternately preferably, startup authentication of add-in host EUA **600** (see FIG. 2A) preferably occurs by a match when comparing admin username **730** (see FIG. 6) and admin password **733** in initialization data **335** (see FIG. 1B) of add-in host EUA **600** to values of admin username **730** and admin password **733**, of add-in host email ID **632** of system data registry **325**, respectively. Admin username **730** (see FIG. 6) and admin password **733** in initialization data **335** of add-in host EUA **600** are input via processing of preferences dialog **370** (see FIG. 15). Add-in host EUA **600** preferably accesses admin username **630** and admin password **631** fields via SRAPI **615**. Add-in host EUA **600** preferably compares admin username **730** and admin password **733** in initialization data **335** of add-in host EUA **600** to values of admin username **630** and admin password **631** fields, respectively. If the compared fields match, then administrator **610** of add-in host EUA **600** is authenticated and add-in host EUA **600** is not in lock down mode. If the compared fields do not match, then administrator **610** of add-in host EUA **600** is not authenticated and is in lock down mode. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as technology advances, purpose of the application, user then preferences, etc., other means for administrator authentication, such as, retinal scan, finger print scan, hand print scan, facial image recognition, voice recognition, etc., may suffice.

FIG. 3 shows diagrammatically computers **340** preferably connected in data network **350** preferably allowing collaboration of distributed end user application **602** accomplishing a common function. Data network **350** preferably comprises at least one bi-directional data communication connection **345**, at least one computer **340**, and at least one FTP server **341**, as shown.

Computers **340** preferably communicate in data network **350** with bi-directional data communication connection **345**. Data network **350** preferably facilitates collaboration of at least one distributed add-in host EUA **600** (see FIG. 2A) and/or at least one EUA **602** preferably accomplishing goals of user **613**. Bi-directional data communication connection **345** preferably provides connection from bi-directional data communication port **347** of computer **340** with data network **350**. Data network **350** preferably comprises at least one Internet and/or preferably at least one Intranet. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as technology advances with new materials, methods of communication, user then preferences, etc.,

other data network systems, such as, fiber optics, radio frequency, modulated laser beams, microwave, electro-magnetic force, etc., may suffice.

FIG. 4 shows diagrammatically window frame layout **101** of GUI **607** used by end user application **602** to display data on display **352** (see FIG. 1A). Display region **113** preferably comprises at least one window frame layout **101**, at least one pane **110**, at least one border region **117**, at least one button **115**, at least one widget **112**, and at least one layout manager **111**, as shown. GUI **607** preferably comprises at least one display region **113**, and at least one event handler **603**.

Functionally, layout manager **111** preferably arranges panes **110** and border regions **117** by placing state data into display memory **313** (see FIG. 1B). Widget **112** preferably refers to graphic image or icon of GUI **607** that displays information and/or generates input events that are handled by an attached EUA **602**. Button **115** and widget **112** on display **352**, preferably present a graphical image. User **613** selecting button **115** preferably invokes GUI **607** mechanism generating input events to EUA **620** via point/select command device **361**.

Pane **110** is preferably a separate area of display region **351** (see FIG. 1A) on display **352**. Layout manager **111** preferably computes and preferably lays out three-dimensional and/or two-dimensional position of all graphic images displayed in pane **110**. Layout manager **111** preferably arranges graphic images like at least one button **115** and/or at least one widget **112** in pane **110** inside of window frame layout **101**. Add-in host EUA **600** preferably comprises at least one layout manager **111** accessing file ID **700** (see FIG. 2A) to initialize functional and layout characteristics for at least one pane **110** and at least one border region **117**. File ID **700** preferably is not limited to storing pane **110** and border region **117** initialization data and includes other initialization data for other characteristics of pane **110**. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as technology advances, purpose of the application, user then preferences, etc., other means for display, such as, holographic, electronic flexible paper, etc., may suffice.

FIG. 5 shows diagrammatically all categories of initialization data record file ID **700** used by add-in host EUA **600** (see FIG. 2A). File ID **700** preferably comprises at least one add-in host email ID **705**, at least one explorer ID **710**, at least one inspector ID **715**, and at least one URL ID **720**, as shown.

Add-in host email ID **705** preferably comprises initialization data used for administrative purposes by administrator **610**. Explorer ID **710** preferably comprises initialization data used for configuration of web-browser add-in pane **155** (see FIG. 10) and filesystem-explorer add-in pane

160. Inspector ID **715** preferably comprises initialization data used for configuration of web-browser add-in pane **180** (see FIG. 11) and hidden filesystem-explorer add-in pane **183**. URL is a string of characters used to represent a resource on an Internet or Intranet. URL ID **720** preferably comprises initialization data for initializing at least one URL combo box **405** of web-browser add-in pane **400** (see FIG. 17) and at least one address combo box **455** of filesystem-explorer add-in pane **450** (see FIG. 18).

FIG. 6 shows diagrammatically initialization data used by Add-in host EUA **600** for authentication. Add-in host email ID **705** initialization data record preferably comprises at least one admin username **730**, at least one admin password **733**, at least one new admin password **736**, at least one locked field **739**, at least one location field **741**, at least one FTP host field **744**, at least one FTP directory field **747**, at least one FTP username field **749**, at least one FTP password field **751**, and at least one default URL field **753** is stored in a file on at least one long-term memory device **363** (see FIG. 1A) in encrypted form, as shown.

Add-in host email ID **705** is preferably accessed by at least one file data read access **606** (see FIG. 2A) and preferably stored in system memory **300** (see FIG. 1A). Add-in host email ID **705** is preferably decrypted with at least one cipher, or preferably at least one 128-bit swapping cipher. Add-in host email ID **705** used by add-in host EUA **600** for login, administrator **610** control, access to FTP host with FTP host field **744**, and default URL field **753** for initializing URL combo box **405** of web-browser add-in pane **400** (see FIG. 17). Add-in host email ID **705** is preferably encrypted with at least one cipher, or at least one 128-bit swapping cipher. At least one long-term memory device **363** is preferably updated by at least one file data write access **605** preferably writing add-in host email ID **705**.

Alphanumeric character array preferably comprises of at least one ASCII or preferably at least one UNICODE character. Admin username field **730** preferably comprises at least one alphanumeric character array containing username used as authentication of administrator **610** (see FIG. 2A). Admin password **733**, preferably comprises at least one alphanumeric character array, preferably contains password of administrator **610** used for authentication of administrator **610**. New admin password **736** preferably comprises at least one alphanumeric character array used to change admin password **733**. Locked field **739** (at least embodying herein wherein such user limiter computing means comprises text field limiter computing means for limiting at least one edit property of at least one editable text field) preferably is used for locking (true) or unlocking (false) at least one add-in host EUA **600**. Location field **741**, preferably a alphanumeric character array, is a path that preferably locates at least one admin username **630** and at least one admin password **631** in system data registry **325** (see FIG. 1B).

FTP host field **744** preferably comprises at least one alphanumeric character array defining a URL of FTP server **341** (see FIG. 3). FTP server **341** functionality preferably is to transfer files to a requesting add-in host EUA **600**. FTP directory field **747** preferably comprises at least one alphanumeric character array defining a file system directory where FTP server **341** writes and reads a file containing file ID **700** (see FIG. 2A). FTP username field **749** preferably comprises an at least one alphanumeric character array used to authenticate add-in host EUA **600** with an FTP server **341**. FTP password field **751** preferably comprises at least one alphanumeric character array used to authenticate add-in host EUA **600** with an FTP server **341**. Full FTP server **341** authentication of add-in host EUA **600** preferably requires at least one FTP username field **749** and at least one FTP password field **751**.

Default URL field **753** preferably comprises at least one alphanumeric character array used for initializing URL combo box **405** of web-browser add-in pane **400** (see FIG. 17) with at least one URL.

Data record of add-in host email ID **705** preferably is stored, in encrypted form, in a file on at least one long-term memory device **363** (see FIG. 1A).

FIG. 7 shows diagrammatically initialization data of explorer ID **710** used to configure web-browser add-in pane **155** (see FIG. 10) (at least embodying herein wherein such second software application computing means comprises at least one web-browser software application) and filesystem-explorer add-in pane **160** with OUTLOOK® Explorer. Explorer ID **710** preferably comprises at least one launch web field **756**, at least one launch filesystem field **759**, at least one position web field **761**, and at least one position filesystem field **764**, as shown.

Launch web field **756** (at least embodying herein further comprising user limiter computing means for administratively limiting user access to such at least one web-browser software application) preferably is a boolean (true or false) field. Web-browser add-in pane **155** preferably is placed into at least one window frame layout **101** (see FIG. 4) when launch web field **756** is true. Filesystem-explorer add-in pane **160** is preferably placed into window frame layout **101** (see FIG. 4) when launch filesystem field **759** is true. Position web field **761** and position filesystem field **764** are preferably enumeration fields of data type position enumeration **640** (see FIG. 20). Each enumeration represents a location for pane **110** (see FIG. 4).

FIG. 8 shows diagrammatically initialization data of inspector ID **715** used to configure web-browser add-in pane **155** (see FIG. 10) (at least embodying herein wherein such at least one web-browser software application displays within the at least one pane of the at least one email-client software application) and filesystem-explorer add-in pane **160** (see FIG. 10) with OUTLOOK® Inspector. Inspector ID **715** preferably comprises at least one launch web field

766, at least one launch filesystem field **769**, at least one position web field **772**, and at least one position filesystem field **775**, as shown.

Launch web field **766** preferably is a boolean (true or false) field. Web-browser add-in pane **155** preferably is placed into window frame layout **101** (see FIG. 4) when launch web field **766** is true. Filesystem-explorer add-in pane **160** preferably is placed into window frame layout **101** (see FIG. 4) when launch filesystem field **769** is true. Position web field **772** and position filesystem field **775** preferably are enumeration fields of data type position enumeration **640** (see FIG. 20). Each enumeration preferably represents a location of pane **110** (see FIG. 4).

FIG. 9 shows diagrammatically initialization data of URL ID **720** that configures web browser address combo box **405** (see FIG. 17) with predefined URLs and address combo box **455** of filesystem-explorer add-in pane **450** (see FIG. 18) with filesystem paths. URL ID **720** preferably comprises at least one default web URL **781** field and at least one address array **780**, as shown.

Address array **780** preferably comprises of at least one alphanumeric character array. Array elements that preferably start with characters “http”, “https,” or, alternately preferable, any constant character string, tag each element to be one of a set of URLs that initialize at least one web browser address combo box **405**. Array elements that are not tagged to initialize web browser address combo box **405** are used to initialize address combo box **455** of filesystem-explorer add-in pane **450**.

URL ID **720** preferably is accessed by at least one file data read access **606** (see FIG. 2A) and preferably stored in system memory **300**. Add-in host email ID **705** preferably is decrypted with at least one cipher or, alternately preferable, at least one 128-bit swapping cipher. URL ID **720** preferably is encrypted with at least one cipher or, alternately preferable, at least one 128-bit swapping cipher before being written to at least one long-term memory device **363** by at least one file data write access **605** (see FIG. 2A). Default web URL **781** field preferably is used as an initial URL loaded into URL combo box **405** of web-browser add-in pane **400** (see FIG. 17) of web-browser add-in pane **400**.

FIG. 10 shows a layout of panes for OUTLOOK® Explorer window frame **119** including web-browser and filesystem explorer add-in panes. OUTLOOK® Explorer window frame **119** preferably comprises at least one window frame layout **101**, at least one menu bar **120**, at least one tool bar **125**, at least one empty add-in pane **130**, at least one email folder pane **135**, at least one display mode selection pane **140**, at least one email folder contents pane **145**, at least one email preview pane **150**, at least one web-browser add-in pane **155**, and at least one filesystem-explorer add-in pane **160**, as shown. This depicts a preferable pane layout from a plurality of

possibilities for at least one web-browser add-in pane **155** and at least one filesystem-explorer add-in pane **160**. Empty add-in pane **130** preferably comprises at least one pane **110** (see FIG. 4), at least one widget **112**, at least one GUI **607** (see FIG. 2A) of at least one EUA **602**, at least one digital data input events **608**, at least one output display data **609** supporting at least one user inputs **611**, at least one graphical display information **612** for use of at least one user **613**, and at least one administrator **610**.

FIG. 11 shows a layout of panes for OUTLOOK® Inspector window frame **164** including web-browser and hidden filesystem explorer add-in panes. OUTLOOK® Inspector window frame **164** preferably comprises at least one window frame layout **101**, at least one tab selectors for toolbars **165**, at least one current selected tab toolbar **170**, at least one email composer **175**, at least one web-browser add-in pane **180**, at least one overlay drop down pane selector menu button **181**, at least one overlaid pane display selector menu **185**, at least one filesystem-explorer pane selector **182**, and at least one web-browser pane selector **184**, as shown.

OUTLOOK® Inspector window frame **164** preferably facilitates user **613** (see FIG. 2A) access to at least one hidden filesystem-explorer add-in pane **183**. OUTLOOK® Inspector window frame **164** preferably depicts a layout of pane **110** (see FIG. 4) from a plurality of possibilities for web-browser add-in pane **180** and a hidden filesystem-explorer add-in pane **183**. Overlay drop down pane selector menu button **181** causes overlaid pane selector menu **185** to drop down allowing user **610** to preferably select web-browser pane selector **184** or filesystem-explorer pane selector **182** causing selected add-in to be displayed and the other to be hidden.

FIG. 12 shows a layout of panes **110** (see FIG. 4) for OUTLOOK® Inspector window frame **201** including web-browser add-in pane **190** and showing preferences dialog **195**. OUTLOOK® Inspector window frame **201** preferably comprises at least one window frame layout **101**, at least one web-browser add-in pane **190**, at least one preferences dialog **195**, at least one ok button **202**, at least one cancel button **203**, at least one launch checkbox **200**, at least one web tab **205**, at least one web ribbon menu **210**, and at least one preferences button **215** facilitating user **613** access to configuration of preferences, as shown.

User **613** preferably selects web tab **205**; this causes web ribbon menu **210** to be displayed allowing user **613** to preferably select preferences button **215** to access preferences dialog **195**. User **613** preferably selects launch checkbox **200** on preferences dialog **195** displaying a checkmark; this includes web-browser add-in pane **190** in layout of OUTLOOK® Inspector window frame **201**. User **613** preferably selects checkbox **200** displaying no checkmark; this causes web-browser add-in pane **190** not to be included in layout of OUTLOOK® Inspector window frame **201**. Explorer web tab **259** (see FIG. 13) explorer

filesystem tab **265**, inspector web tab **267**, and inspector filesystem tab **269** all have at least one launch checkbox **200** that preferably configures each add-in host EUA **600** for inclusion in window frame layout **101** (see FIG. 4).

User **613** preferably selecting ok button **202** applies state of launch checkbox **200** to launch web field **756** (see FIG. 7), launch filesystem field **759**, launch web field **766** (see FIG. 8) or launch filesystem field **769** depending on which explorer web tab **259** (see FIG. 13), explorer filesystem tab **265**, inspector web tab **267**, or inspector filesystem tab **269** is selected and closes preferences dialog **195**.

FIG. 13 shows preferences dialog **255** with tabs allowing access to display layout, URL locations, and administrative preference attributes. Preferences dialog **255** preferably comprises at least one ok button **256**, at least one cancel button **257**, at least one position combo box **254**, at least one drop down position list **258**, at least one explorer web tab **259**, at least one display tab **260**, at least one locations tab **261**, at least one admin tab **263**, at least one explorer filesystem tab **265**, at least one inspector web tab **267**, at least one inspector filesystem tab **269**, and at least one drop down position selector list button **271** providing at least one user **610** and/or at least one administrator **610** access to layout preference attributes, as shown.

Preferences dialog **255** preferably operates in modal mode or, alternately preferable, non-modal mode. User **613** preferably selects display tab **260**, with point/select command device **361**, invoking preferences dialog **255** to present tab set comprised of explorer web tab **259**, explorer filesystem **265**, inspector web **267**, and inspector filesystem **269**. User **613** preferably selecting explorer filesystem tab **265** causing the display of position combo box **254** and drop down position selector list button **271**. User **613** preferably selects drop down position selector list button **271** invoking position combo box **254** to display drop down position list **258** of position enumeration **640** (see FIG. 20). User **613** preferably selects desired identifier from position enumeration **640** configuring layout position of filesystem-explorer add-in pane **160** (see FIG. 10). User **613** preferably selects ok button **256** applying new position preference of position filesystem field **764** (see FIG. 7) and closes preferences dialog **255**. User **613** preferably selecting cancel button **257** causes all preference changes to be cleared, no position preference is applied to position filesystem field **764**, and closes preferences dialog **255**.

User **613** preferably selecting explorer web tab **259** presents position combo box **254** and drop down position selector list button **271**. User **613** preferably selecting drop down position selector list button **271** invokes position combo box **254** to display identifiers of position enumeration **640** in drop down position list **258**. User **613** preferably selects desired identifier of position enumeration **640** configuring layout position of web-browser add-in pane **155** (see FIG.

10). User **613** preferably selects ok button **256** applying new position preference to position web field **761** (see FIG. 7) and closes preferences dialog **255**. User **613** preferably selects cancel button **257** causing all changes to be cleared, no position preference is applied to position web field **761**, and closes preferences dialog **255**.

5 User **613** preferably selects inspector web tab **267** presenting position combo box **254** and drop down position selector list button **271**. User **613** preferably selects drop down position selector list button **271** invoking position combo box **254** to present identifiers of position enumeration **640** in drop down position list **258**. User **613** preferably selects desired identifier of position enumeration **640** configuring layout position of web-browser add-in pane **180** (see FIG. 10 11). User **613** preferably selects ok button **256** applying new position preference to position web **772** (see FIG. 8) and closes preferences dialog **255**. User **613** preferably selects cancel button **257** causing all changes to be cleared, no position preference is applied to position web **772**, and closes preferences dialog **255**.

 User **613** preferably selects inspector filesystem tab **269** presenting position combo box 15 **254** and drop down position selector list button **271**. User **613** preferably selects drop down position selector list button **271** invoking position combo box **254** to display identifiers of position enumeration **640** in drop down position list **258**. User **613** preferably selects desired identifier of position enumeration **640** configuring layout position of filesystem-explorer add-in pane **200** (see FIG. 12). User **613** preferably selects ok button **256** applying new position 20 preferences to field position filesystem **775** (see FIG. 8) and closes preferences dialog **255**. User **613** preferably selects cancel button **257** causing all changes to be cleared, no position preferences to be applied to position filesystem **775**, and closes preferences dialog **255**.

 FIG. 14 shows preferences dialog **280** allowing defining of web URLs and file addresses to initialize web and filesystem add-in address combo boxes. Preferences dialog **280** preferably 25 comprises at least one ok button **281**, at least one cancel button **282**, at least one locations tab **283**, at least one edit textbox **284**, at least one file browser button **285**, at least one address listbox **286**, at least one add button **287**, at least one delete button **288**, at least one make default URL button **289**, and at least one default URL textbox **290**, as shown.

 Administrator **610** preferably pre-defines URLs and file addresses for use in URL combo 30 box **405** of web-browser add-in pane **400** (see FIG. 17) and address combo box **455** of filesystem-explorer add-in pane **450** (see FIG. 18). Preferences dialog **280** preferably operates in modal mode or, alternately preferable, non-modal mode. User **613**, upon selecting file browser button **285**, preferably opens a file browser allowing movement through directories of a file system, local file path or, alternately preferable, networked file path, and selecting a directory

path. A selected directory path is placed in edit textbox **284** on exit of file browser. User **613** preferably edits directory path in edit textbox **284**. Contents of edit textbox **284** are copied to address listbox **286** when user **613** selects add button **287**. User **613** preferably enters a URL directly into edit textbox **284** and when selecting add button **287** copies contents of edit textbox **284** to address listbox **286**.

User **613** preferably selecting a URL or file address in address listbox **286** can delete it from address listbox **286** by selecting delete button **288**. User **613** preferably defines a default URL by selecting a URL in address listbox **286** and then selecting make default URL button **289** copying selected URL value into default URL textbox **290**. User **613** preferably selects ok button **281** copying new address preferences to address array **780** (see FIG. 9), copying contents of default URL textbox **290** to default web URL **781**, and closes preferences dialog **255**. User **613** preferably selects cancel button **282** causing all address changes to be cleared, no predefined addresses to be copied to address array **780** or default web URL **781**, and closes preferences dialog **280**.

FIG. 15 shows preferences dialog **370** that allows setting of add-in host lock, administrator username and password. Preferences dialog **370** comprises at least one admin tab **371**, at least one admin tab pane **389** comprising at least one cancel button **372**, at least one ok button **373**, at least one postman textbox **374**, at least one mail key textbox **375**, at least one lock checkbox **377**, at least one new mail key textbox **379**, at least one FTP user textbox **380**, at least one FTP password textbox **382**, at least one pref register key **383**, at least one FTP host textbox **385**, at least one FTP directory textbox **386**, and at least one distribute ini button **388**, as shown.

Preferences dialog **370** preferably operates in modal mode or, alternately preferable, non-modal mode. Administrator **610** (see FIG. 2A) preferably, using point/select command device **361** (see FIG. 1A), selects admin tab **371** of preferences dialog **370** causing GUI **607** (see FIG. 2A) to display admin tab pane **389**. All fields of admin tab pane **389** are initialized with their respective values from add-in host email ID **705** (see FIG. 6).

Administrator **610**, using point/select command device **361**, preferably selects postman textbox **374** and, by typing, enters account name of administrator **610**. Administrator **610** preferably selects mail key textbox **375** then, by typing, enters a password. Authentication of administrator **610** preferably requires a comparison and match of contents of postman textbox **374** with admin username **730** (see FIG. 6) and mail key textbox **375** with admin password **733** (see FIG. 6) by add-in host EUA **600**. Administrator **610** preferably selects lock checkbox **377**, making it checked, puts add-in host EUA **600** in lock down mode. Lock checkbox **377** state is

saved to locked field **739** (see FIG. 6) when administrator **610** preferably selects ok button **373**, provided administrator **610** is authenticated.

Administrator **610** preferably selects new mail key textbox **379** and, by typing, enters a new password. New mail key textbox **379** contents are saved in new admin password **736** (see FIG. 6) and admin password **733** when administrator **610** preferably selects ok button **373**, provided administrator **610** is authenticated.

Administrator **610** preferably selects FTP host textbox **385** and by typing, enters a URL for FTP server **341** (see FIG. 3). Contents of FTP host textbox **385** is saved to FTP host field **744** (see FIG. 6) when administrator **610** preferably selects ok button **373**, provided administrator **610** is authenticated.

Administrator **610** preferably selects FTP directory textbox **386** and by typing, enters a directory path. Contents of FTP directory textbox **386** is saved to FTP directory field **747** (see FIG. 6) when administrator **610** selects ok button **373**, provided administrator **610** is authenticated.

Administrator **610** preferably selects FTP user textbox **380** and, by typing, enters a user account name for FTP server **341**. Contents of FTP user textbox **380** is saved to FTP username field **749** (see FIG. 6) when administrator **610** selects ok button **373**, provided administrator **610** is authenticated.

Administrator **610** preferably selects FTP password textbox **382** and, by typing, enters a user account password for FTP server **341**. Contents of FTP password textbox **382** is saved to FTP password field **751** (see FIG. 6) when administrator **610** selects ok button **373**, provided administrator **610** is authenticated.

Administrator **610** preferably selects ok button **373** will save all admin tab pane **389** fields to corresponding field of add-in host email ID **705** (see FIG. 6), providing administrator **610** is authenticated. Add-in host EUA **600** (see FIG. 2A) writes an updated copy of file ID **700**, ADDINHOST.INI, via file data write access **605** completing ok button **373** processing.

Administrator **610** preferably selects Distribute INI button **388** causing a copy of local file ID **700**, ADDINHOST.INI, file to be copied to FTP directory defined by FTP directory field **747** (see FIG. 6), provided administrator **610** is authenticated.

Administrator **610** selecting cancel button **372** causes changes of admin tab pane **389** savable fields not to be saved before closing processing of preferences dialog **370**.

FIG. 16 shows diagrammatically OUTLOOK® explorer window frame **219** and menu items to access preference configuration. OUTLOOK® Explorer window frame **219** preferably comprises at least one window frame layout **101** (see FIG. 4), at least one view dropdown menu

220, at least one view menu button **221**, at least one web pane menu **222**, at least one show filesystem pane **223**, at least one preferences item **224**, at least one show web pane **225**, at least one menu bar **230**, at least one selected check **235**, and at least one filesystem-explorer display pane **240** allowing user **613** to configure preferences, as shown.

5 User **613** preferably selects view menu button **221** located on menu bar **230** causing view dropdown menu **220** to display. After such, user **613** preferably selects web pane menu **222** causing show web pane **225**, show filesystem pane **223**, and preferences item **224** to display. User **613** preferably selects show filesystem pane **223** toggling layout position configuration of filesystem-explorer display pane **240** and saving new position enumeration **640** (see FIG. 20) in
10 position filesystem field **764** (see FIG. 7). User **613** preferably selects show web pane **225** toggling layout position of configuration of web-browser add-in pane **155** (see FIG. 10) and saving new position enumeration **640** in position web field **761** (see FIG. 7).

 User **613** preferably selects preferences item **224** of web pane menu **222** causing preferences dialog **255** (see FIG. 13) to be displayed by GUI **607** (see FIG. 2A) allowing
15 configuration of preferences.

 FIG. 17 shows diagrammatically OUTLOOK® Explorer window frame **402** with URL combo box **405** of web-browser add-in pane **400**. OUTLOOK® Explorer window frame **402** preferably comprises at least one window frame layout **101** (see FIG. 4), at least one web-browser add-in pane **400**, at least one drop-down listbox button **401**, at least one web-browser
20 URL combo box **405**, and at least one drop-down URL listbox **410** for demonstrating administrative control capabilities of add-in host EUA **600** (see FIG. 2A), as shown. User **613** preferably selects drop-down listbox button **401** causing drop-down URL listbox **410** to drop down. User **613** preferably selects a URL for web-browser add-in pane **400** to navigate too. User **613** preferably selects URL combo box **405** of web-browser add-in pane **400** and then
25 entering, by typing, a URL to navigate too, provided locked field **739** (see FIG. 6) is not locked. Locked field **739**, in locked state, limits user **613** to only selecting URLs preloaded in drop-down URL listbox **410** initialized from address array **780** (see FIG. 9).

 Administrator **610** (see FIG. 2A) preferably controls state of locked field **739** via lock checkbox **377** of preferences dialog **370** (see FIG. 15) facilitating operational configuration of
30 URL combo box **405** of web-browser add-in pane **400** controlling capabilities user **613** has available. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as technology advances, purpose of the application, user then preferences, etc., other functionality of the add-in or add-in host EUA's may be administered, such as configuring GUI features of EUA,

controlling GUI widgets of EUA, controlling GUI events handled by EUA, controlling functionality of EUA available for use, etc., may suffice.

FIG. 18 shows diagrammatically OUTLOOK® Explorer window frame **449** with address combo box **455** of filesystem-explorer add-in pane **450**. OUTLOOK® Explorer window frame **449** preferably comprises at least one window frame layout **101** (see FIG. 4), at least one filesystem-explorer add-in pane **450**, at least one drop-down listbox button **451**, at least one address combo box **455**, and at least one drop-down directory path listbox **460**, for demonstrating administrative control capabilities of add-in host EUA **600** (see FIG. 2A), as shown.

User **613** preferably selects drop-down listbox button **451** causing drop-down directory path listbox **460** to drop down. User **613** preferably selects a directory path for filesystem-explorer add-in pane **450** to navigate too. User **613** preferably selects address combo box **455** of filesystem-explorer add-in pane **450** and entering, by typing, a directory path to navigate too, provided locked field **739** (see FIG. 6) is not in a locked state. Locked field **739** in locked state preferably limits user **613** to only selecting directory paths preloaded in drop-down directory path listbox **460** from address array **780** (see FIG. 9). Administrator **610** (see FIG. 2A) preferably controls locked field **739** state via lock checkbox **377** (see FIG. 15) of preferences dialog **370** facilitating operational configuration of address combo box **455** of filesystem-explorer add-in pane **450** controlling capabilities user **613** has available.

FIG. 19 shows diagrammatically OUTLOOK® email EUA add-in in-box **505** transferring data to web-browser database client **506**. OUTLOOK® Explorer window frame **500** preferably comprises at least one add-in pane **501**, at least one web-browser database client **506**, at least one email attachment icon **502**, at least one controlled cursor **503**, at least one add-in pane **504** of EUA **602**, at least one email EUA add-in in-box **505**, at least one copied email attachment icon **508**, and at least one controlled cursor movement **510** demonstrating user **613** drag-and-drop capability with controlled point/select command device **361** (see FIG. 1A) invoking data transfer event **617** (see FIG. 2A), as shown.

OUTLOOK® Explorer window frame **500** (at least embodying herein wherein such first software application computing means comprises at least one email-client software application) comprised of window frame layout **101** (see FIG. 4) with at least one single layout manager **111** facilitating an always visible pane **110** of GUI **607** for each EUA **602**. This preferred pane **110** layout facilitates a drag-and-drop event of GUI **607** between any pair of add-in pane **501** of EUA **602** resulting in data transfer event **617**. If panes **101** are hidden then a copy-and-paste technique must be used to facilitate data transfer event **617** requiring more manipulation by user **613**.

Data transfer event **617** preferably occurs between add-in pane **504** of EUA **602**, and preferably at least one email EUA add-in in-box **505**, resulting from user **613** preferably selecting and holding email attachment icon **502** with controlled cursor **503** using point/select command device **361** (see FIG. 1) (at least embodying herein icon selector computing means for selecting, using the point/select/command device, within the at least one first display pane, the at least one data icon). User **613** preferably drags controlled cursor movements **510** with email attachment icon **508** over add-in pane **501** of EUA **602** (at least embodying herein icon mover computing means for moving, using the point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane), alternately preferably, at least one web-browser database client **506** (at least embodying herein such at least one web-browser software application comprises at least one database client software application). User **613** preferably releases controlled cursor movements **510** dropping email attachment icon **502** generating data transfer event **617** (at least embodying herein icon releaser computing means for releasing, using the point/select/command device, within the at least one second display pane, the at least one data icon).

User **613** dropping email attachment icon **502** preferably provides context sensitive digital data input events **608** (see FIG. 2A) invoking data transfer event **617**. Data transfer event **617** is communicated to event handler **603** of EUA **602** of web-browser database client **506**. Event handler **603** gets a handle to a file from email attachment icon **508** and performs EUA **602** specific processing (at least embodying herein wherein such icon releaser computing means comprises information classifier computing means for classifying the useful information to categorize any metadata to provide metadata classification information). Event handler **603** of EUA **602** (at least embodying herein information transfer computing means for transferring the useful information and any associated metadata classification information to the second software application) specific processing preferably comprises at least one determination of file type (at least embodying herein wherein such any associated at least one metadata classification information comprises at least one user-selected data extension file type), at least one extraction of data records from a file and at least one write of data record into an INTELLIDOX® database (at least embodying herein such information transfer computing means transfers the useful information and such any associated at least one metadata classification information to such at least one database client software application). Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as technology advances, purpose of the application, user then preferences, etc., other event handler processing for the EUA, such as may be determined base

on criteria like parsing meta data of the transfer event, and where such meta data may include: the source EUA, URL of the web browser, examining header information read from the file, examining and categorizing the data in the file, command message contained in the file resulting in data being returned to the source EUA, pseudo attachment file commanding retrieval of information from the target EUA, etc., may suffice.

FIG. 20 shows diagrammatically position enumeration **640** states specifying layout position of pane **110**, preferably three-dimensionally or preferably two-dimensionally, in window frame layout **101**. Position enumeration **640** preferably comprises at least one TopSubpane **642**, at least one BottomSubpane **644**, at least one RightSubpane **646**, at least one WebViewpane **648**, at least one LeftSubpane **650**, at least one BottomOutlookBar **652**, at least one BottomNavigationPane **654**, at least one BottomToDoBar **656**, at least one TopReadingPane **658**, at least one BottomReadingPane **660**, at least one LeftReadingPane **662**, at least one RightReadingPane **664**, and at least one HiddenPane **665** defining location of at least one pane **110** (see FIG. 4) in at least one window frame layout **101**, as shown.

Position of pane **110** in window frame layout **101** are specified preferably three-dimensionally or two-dimensionally consistent with capabilities of GUI **607** (see FIG. 2A) and display **352** (see FIG. 1A) with identifiers of position enumeration **640**.

FIG. 21 shows an overall schematic illustration, of a productivity method licensor **901** enabling increased productivity of data transfer between email and web-enabled database, according to a preferred embodiment of the present invention. As depicted in FIG. 21, at a high level of abstraction, preferably licensor productivity system **900** may be modeled as a number of stakeholders interconnected via a hub, performance messaging site, shown as compliant messaging site **913**. Stakeholders comprise productivity method licensor **901**, User 1 **911**, compliance company **905**, User N **912**, supply chain **910**, 3rd party consultants **906**, risk arbitrator **931**, and software developer **903**, as shown. Enablers comprise electronic commerce interface **908**, electronic shopping cart **909**, merchant bank **902**, and compliant messaging site **913**, as shown. Productivity method licensor **901** authorizes and provides management and enabling functions for the other stakeholders of productivity system **900**.

Preferably, productivity method licensor **901**, through compliant messaging site **913**, provides a means, and monetizes the means, for User 1 **911** to communicate with User N **912**, supply chain **910**, 3rd party consultants **906**, and/or compliance company **905**. Additionally, preferably, productivity method licensor **901**, through compliant messaging site **913**, provides a means, and monetizes the means, for compliance company **905** to enable compliance requirements **914** of User 1 **911** and/or 3rd party consultants **906**. Further, preferably,

productivity method licensor **901**, through compliant messaging site **913**, provides a means, and monetizes the means, for risk arbitrator **931** to enable risk management **915** associated activities of User 1 **911**, 3rd party consultants **906**, compliance company **905** and/or software developer **903**. Further, preferably, productivity method licensor **901** provides compliance requirements **914** and risk management **915** as compliance and risk requirements **935** to software developer **903** for software implementation **997**. Further, preferably, productivity method licensor **901** pays software developer **903** for the software implementation **997** with payment **995**. Software developer **903** preferably implements software implementation **997** (i.e. the desirable implementation of EUA **602**) with administrative controls and auditing capabilities complementary of compliance and risk requirements **935**.

Further referring to FIG. 21, preferably, supply chain **910** may retrieve payment message **916** by interfacing with electronic commerce interface **908**, electronic shopping cart **909**, and merchant bank **902**. In a preferred embodiment, supply chain **910** queries electronic commerce interface **908** via Internet **907**, wherein electronic commerce interface **908** is linked to compliant messaging site **913**, and wherein payment message **916** is also linked to compliant messaging site **913**. Preferably, electronic commerce interface **908** is configured such that supply chain **910**, when enabled with predetermined credentials and/or by having made predetermined payments, may query for User N **912**, and further may query for payment message **916** that are associated with User N **912**. Further, preferably, compliant messaging site **913** comprises necessary means to assure that only compliance licenses **917**, associated with User N **912**, may be accessed by supply chain **910**. Once supply chain **910** has located compliance licenses **917**, associated with User N **912**, then compliant messaging site **913** offers to deliver such compliance licenses **917** to supply chain **910**. Preferably, such offering is accomplished by supply chain **910** using electronic shopping cart **909** to select from available compliance licenses **917** and paying for the deliver payment message **993** via merchant bank **902**. Preferably, electronic commerce interface **908** may be electronically interfaced, through compliant messaging site **913**, to User 1 **911**, compliance company **905**, software developer **903**, and/or risk arbitrator **931**.

Again referring to FIG. 21, preferably, compliance company **905** and risk arbitrator **904** may query compliant messaging site **913** relative to compliance requirements **914** of User 1 **911**. Preferably, in return for the benefits of compliance requirements **914** to compliance company **905**, compliance company **905** provides payment **918** to productivity method licensor **901**. Risk arbitrator **904** preferably provides insurance policy **998** to compliance company **905** for a reduced payment **999** for consideration of enforcement of compliance requirements **914** and risk management **915**. Risk arbitrator **904** preferably provides insurance policy **998** to compliance

company **905** for a reduced payment **999** for consideration of enforcement of compliance requirements **914** and risk management **915**.

FIG. 22 shows a schematic illustration, of a business method for enabling productivity method licensor **901**, compliance requirements **914** and risk management **915**, according to the preferred embodiment of FIG. 21. Preferably, directly monetizing the use of productivity system **900**, preferably, this direct monetizing is accomplished, in part, by productivity method licensor **901** providing developer license **919** to software developer **903** in return for software developer **903** providing pay license fees **920** to productivity method licensor **901** on connection **899**, as shown. Additionally, preferably, developer license **919** enables software developer **903** to perform company-licensing applications **922**, developer information **923** for productivity system **900** via compliant messaging site **913**, preferably by connection **921**, as shown.

Additionally, preferably, as part of method **900** directly monetizing at least one use of productivity system **900**, company license **924** enables compliance company **905** by connection **925**, connection **927**, connection **921** and connection **926**, as shown. Preferably, this connectivity is such that User 1 **911** may input compliance licenses **917**, associated with User N **912**, into server farm **928** preferably via compliant messaging site **913**. Preferably, this connectivity is such that compliance company **905** has availability to enabling licenses **929** in server farm **928**, as shown. Additionally, preferably, company license **924** enables compliance company **905** to link through connection **921** preferably to software developer **903**. Preferably, this connectivity is such that compliance company **905** has availability to records of User N **912** housed within software developer **903**. Further, preferably, company license **924** enables compliance company **905** to link to 3rd party consultants **906** by connection **930**. Additionally, preferably, company license **924** enables compliance company **905** to link through connection **927** to User 1 **911**, and through connection **904** to risk arbitrator **931**. Additionally, preferably, compliance company **905** pays license fees **987** to productivity method licensor **901** in consideration for use of company license **924**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, connectivity, server capabilities, user requirements/needs, etc., other eCommerce system connectivities for company license, such as, for example, portable wireless connectivity links, virtual connections, and/or security service elements, yet to be developed, etc., may suffice.

Preferably, as part of method **900** directly monetizing at least one use of productivity system **900**, productivity system **900** enables risk arbitrator **931** (having paid license fees **932**) to have remote connectivity to compliance company **905**, preferably by connection **904** and to

software developer **903**, preferably by connection **933** to connection **934** through compliant messaging site **913**. Preferably, this connectivity enables inputting at least one risk management input **936** into productivity system **900** for compliance company **905**. Additionally, preferably, risk arbitrator **931** provides risk management inputs **988** and license fees **932** to productivity method licensor **901** to receive risk arbitration license **989** utilizing connection **933**.
5 Additionally, preferably, this connectivity enables connectivity to server farm **928**, by connection **926** as shown. Thus, method **900** directly monetizes at least one use of compliance license **917** via insurance policy **937** for reduced insurance premium **990**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under
10 appropriate circumstances, considering issues such as changes in technology, connectivity, server capabilities, user requirements/needs, etc., other eCommerce system connectivities for risk arbitrator, such as, for example, portable wireless connectivity links, virtual connections, and/or security service elements, yet to be developed, etc., may suffice.

Further, referring to FIG. 22, preferably, method **900** comprises directly monetizing use of eCommerce license **938** by providing connection **934** to compliant messaging site **913** in
15 return for compliant messaging site **913** providing ecommerce-license fees **939**, as shown, to productivity method licensor **901**. Preferably, compliant messaging site **913** also provides eCommerce connectivity, as shown, to supply chain **910**. Preferably, supply chain **910** provides enabling licenses **929** to compliance company **905** in return for pay user fee **940**. Preferably, in
20 return supply chain **910** provides pay user fee **940**, as shown, to compliant messaging site **913**. Thus, preferably, productivity system **900** enables remote connecting of supply chain **910**, preferably by connection **941** to compliant messaging site **913**. This preferred connectivity, when coupled with analytics of compliant messaging site **913** and server farm **928**, preferably enables enabling licenses **929** as well as license storage **942** for supply chain **910**, as shown in
25 FIG. 22. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, connectivity, server capabilities, user requirements/needs, etc., other eCommerce system connectivities for compliant messaging site, such as, for example, portable wireless connectivity links, virtual connections, and/or security service elements, yet to be developed,
30 etc., may suffice.

Additionally, referring to FIG. 22, compliant messaging site **913** preferably provides connectivity to 3rd party consultants **906** via link **943**, as shown. Using link **943** 3rd party consultants **906** conduct inputs for professional consults **944**, as shown. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under

appropriate circumstances, considering issues such as changes in technology, connectivity, server capabilities, user requirements/needs, etc., other related system connectivity for ecommerce-based professional consults, such as, for example, portable wireless connectivity links, virtual connections, and/or security service elements, yet to be developed, etc., may suffice.

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FIG. 23 shows a functional illustration, of a preferred implementation of a preferred business method for enabling productivity method licensor **901**, compliance requirements **914** and risk management **915**, according to the preferred embodiment of FIG. 22. The functional illustration of preferred business method for enabling productivity method licensor **901**, compliance requirements **914** and risk management **915**, shown in FIG. 23, is identified as method **900**.

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Preferably, User 1 **911** and/or User N **912** utilize IP machine **945** to interface with productivity system **900**, as shown. User interface IP machine **945** preferably provides User 1 **911** and/or User N **912** with authenticating and establishing authorized functions, as shown. Preferably, IP machine **945** enables User 1 **911** and/or User N **912** to access compliant messaging site **913** via communication link **946** and Internet **907** through firewall **958**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, user requirements/needs, eCommerce legislation, Internet security measures, etc., other eCommerce system connectivity for User 1 and/or User N, such as, for example, portable wirelessly connected user-interface managers, virtual connections from user-interface elements to back-office billing, settlement, and/or security service elements yet to be developed, etc., may suffice.

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Preferably, once User 1 **911** and/or User N **912** connects to compliant messaging site **913**, User 1 **911** and/or User N **912** has access to functionality of , supply chain management server **948**, licensing time/billing management **949**, and database server **950**, as shown, in server farm **928**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, user requirements/needs, Internet security measures, eCommerce legislation, etc., other configurations of sever farm, such as multiple or virtual server configurations, virtual connections from user interface elements to security service elements and/or databases, etc., may suffice.

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Preferably, the above-stated connectivity also allows User 1 **911** to view supply chain tracking **951**, risk tracking **952**, and licensing time/billing tracking **953**.

Additionally, FIG. 23 shows how supply chain **910** utilizes IP machine **954** to interface with productivity system **900**. Preferably, IP machine **954** allows supply chain **910** to authenticate and establish authorized functions, as shown. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, user requirements/needs, Internet security measures, eCommerce legislation, etc., other configurations of eCommerce system connectivity for supply chain, such as virtual connections that facilitate authentication and authorization for supply chain to server farm may suffice.

Preferably, utilizing IP machine **954**, supply chain **910** is enabled to access compliant messaging site **913** via risk arbitrator **931** and Internet **907** through firewall **958**. Preferably, once supply chain **910** connects to compliant messaging site **913**, supply chain **910** has access to functionality of messaging server **947**, supply chain management server **948**, licensing time/billing management server **949**, risk analysis server **955** and database server **950**, as shown, in server farm **928**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, user requirements/needs, Internet security measures, eCommerce legislation, etc., other configurations of eCommerce system connectivity for supply chain, such as, for example, virtual connections that facilitate authentication and authorization for supply chain to server farm, etc., may suffice

Additionally, FIG. 23 shows how 3rd party consultants **906** utilize IP (*i.e.*, Internet Protocol) machine **956** to interface with productivity system **900**. IP machine **956**, preferably, allows 3rd party consultants **906** to authenticate and establish authorized functions, as shown. Preferably, IP machine **956** enables 3rd party consultants **906** to connect to Internet **907**, as shown.

Utilizing IP machine **956**, preferably, enables 3rd party consultants **906** to access compliant messaging site **913** via communication link **957** and Internet **907** through firewall **958**. Preferably, once 3rd party consultant **906** connect to compliant messaging site **913**, 3rd party consultant **906** has access to functionality of messaging server **947**, licensing time/billing management server **949**, risk analysis server **955** and database server **950**, as shown, in server farm **928**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, user requirements, etc., other eCommerce system connectivity for 3rd party consultants, such as, for example, virtual connections from user-interface elements to server farm, and/or security service elements, etc., may suffice.

Further, FIG. 23 shows how risk arbitrator **931**, preferably, utilizes IP machine **988** to enable risk arbitrator **931** to connect to access compliant messaging site **913** via communication link **910** and Internet **907** through firewall **958**. Preferably, once risk arbitrator **931** connects to compliant messaging site **913**, risk arbitrator **931** has access to the functionality of messaging server **947**, licensing time/billing management server **949**, risk analysis server **955** and database server **950**, as shown, in server farm **928**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, user requirements/needs, Internet security measures, eCommerce legislation, etc., other eCommerce system connectivity for risk arbitrator, such as, for example, secure virtual connections to server farm may suffice.

Preferably, the above-stated connectivity also allows risk arbitrator **931** to view supply chain tracking **951**, risk tracking **952**, and licensing time/billing tracking **953**.

Still further, FIG. 23 shows how software developer **903** utilizes IP machine **986** to enable software developer **903** to connect to access compliant messaging site **913** via communication link **985** and Internet **907** through firewall **958**. Preferably, once software developer **903** connects to compliant messaging site **913**, software developer **903** has access to functionality of messaging server **947**, development server **898**, licensing time/billing management server **949**, supply chain management server **948**, risk analysis server **955**, and database server **950**, as shown, in server farm **928**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in technology, user requirements/needs, Internet security measures, eCommerce legislation, etc., other eCommerce system connectivity for software developers such as, for example, portable wirelessly connected user-interfaces, virtual connections from user-interface elements to back-office billing, settlement, and/or security service elements, etc., may suffice.

Preferably, the above-described connectivity also allows software developer **903** to view supply chain tracking **951**, risk tracking **952**, and licensing time/billing tracking **953**.

Preferably, compliance company **905** utilizes IP machine **960** to compliance company **905** to connect to access compliant messaging site **913** via core router **961** and firewall **958** Internet **907**, and link **959**. Preferably, once compliance company **905** connects to compliant messaging site **913**, compliance company **905** has access to functionality of messaging server **947**, licensing time/billing management server **949**, supply chain management server **948**, risk analysis server **955**, and database server **950**, as shown, in server farm **928**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under

appropriate circumstances, considering issues such as changes in technology, user requirements/needs, Internet security measures, eCommerce legislation, etc., other eCommerce system connectivity for compliance company, such as, for example, secure virtual connections, and/or security service elements, etc., may suffice.

5 Preferably, the above-stated connectivity also allows compliance company **905** to view supply chain tracking **951**, risk tracking **952**, and licensing time/billing tracking **953**.

FIG. 24 shows a schematic block diagram view of an exemplary processor configuration for implementation of the business method for compliance management, compliance requirements **914** and risk management **915**, according to the preferred embodiment of FIG. 22.
10 Environment **962** comprises server environment **928** and networked user equipment **963**, as shown. Additionally, hardware environment **962** comprises at least one server **964**, comprising at least one input/output port **965**, power supply **966**, motherboard **967**, chassis **968**, storage **969**, memory **970** (central processing unit), CPU **971**, printer **980**, removable storage medium **972**, mouse **973**, key board **974**, monitor **975**, network interface **976**, wireless network access **977**,
15 network **978**, firewall **958**, and Internet connection **979**.

Networked user equipment environment **963** comprises at least one user device IP machine **956**, web enabled device (WAP) **982** (personal data assistant), PDA **983**, and/or tablet (personal computer) PC **984**.

Hardware environment **962** may be used to enable data-flows across a multi-layer
20 architecture of productivity system **900** (see FIG. 23), including the following: at least one client machine tier **991** (represented herein as IP machine **945**, IP machine **954**, IP machine **956**, IP-machine **992**, IP Machine **986**, and IP machine **960**); at least one network connectivity tier **945** (represented herein as Internet **907**) with firewall **958** --- also, at least one presentation tier (represented herein as compliant messaging site **913**, messaging server **947**) --- also, at least one
25 application (business) tier (represented herein as licensing time/billing management server **949**, risk analysis server **955**, and supply chain management server **948**) --- also, at least one database tier (represented herein as database server **950**). Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in data communications architectures and computing
30 technology, etc., other multi-layered data communications and computing constructs including, such as, for example, interlaced N-tier communications and computing architectures yet to be developed, etc., may suffice.

Chassis **968** of server environment **964**, as shown, houses all components that make up server environment **964** and provides at least one input/output port **965**. Motherboard **967** of

server environment **928** comprises the main logic circuitry and preferably, as shown, provides all necessary circuitry to interconnect all server environment **928** components. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in computer server environment
5 technology, etc., other computer server subassembly and component constructs including elements, such as, for example, highly-integrated motherboards, blade-computer housings yet to be developed, etc., may suffice.

Power supply **966** of server environment **928** may comprise a redundant arrangement of individual power supplies that together preferably provide a fail-safe means of providing
10 necessary power for all hardware environment **962** components, as shown. Power supply **966** minimally may comprise a rating at 150% of maximum use capacity when operating in “hot-standby” mode. Power supply **966** may minimally comprise at least one 300 watt power supply. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in power-
15 inverter technology, etc., other power supply designs including high-frequency inductive and capacitive concepts, such as, for example, switch-mode invertors and converters yet to be developed, etc., may suffice.

Storage **969** of server environment **928** may be configured as a Redundant Array of Independent Drives (RAID). Storage **969** may have “mirroring” (copying of data to more than
20 one physical disk); “striping” (splitting of data across more than one physical disk), and error correction or fault tolerance (redundant storing of data that allows detecting and fixing of data-integrity anomalies). Storage **969** may be, for example, a RAID-5 configuration of at least four- each physical-disc storage sized appropriately for productivity system **900** with at least one serial-attached SCSI 3 Gbps interface. Upon reading the teachings of this specification, those
25 with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in electronic data storage technology, etc., other means of dynamically storing electronic data including elements, such as, for example, semiconductor storage means and mango-optical storage means yet to be developed, etc., may suffice.

Memory **970** of server environment **928** may include dynamic RAM (random access
30 memory), semiconductor chips that store system software, programs, and data currently used, as shown, by CPU (central processor unit) **971**. Memory **970** may comprise volatile memory, that is, memory contents of which may be lost when/if server environment **928** loses power. Thus, contents of memory **970** should be stored in storage **969** prior to powering down hardware environment **962**. Memory **970** may be minimally sized to sustain 150% of the memory

requirements of productivity system **900**, with fully buffered DIMM (dual inline memory module) memory, as an example. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in semiconductor dynamic memory technology, related semiconductor packaging technology, etc., other semiconductor memory circuits and packaging, such as, for example, bi-polar semiconductor circuits and compatible miniaturized-packaging yet to be developed, etc., may suffice.

CPU (central processing unit) **971** of server environment **928** interprets and executes actual computing tasks of productivity system **900** and has capacity for simultaneously executing multiple processing threads (parallel processing). Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in semiconductor processing technology, semiconductor processor packaging technology, etc., other semiconductor processing and related packaging constructs, such as, for example, miniaturized chip design, enhanced clocking, enhanced arrangements for thermal control at faster clock-speeds yet to be developed, etc., may suffice.

Printer **980** of server environment **928** has a standards-based interface with input/output port **965** and is capable of generating reports, as necessary, to communicate information to users of productivity system **900**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in printing technology, print-media technology, etc., other printing and information conveying systems, such as, for example, non-impact carbon deposition technologies, low-environmental impact temporary media yet to be developed, etc., may suffice.

Removable storage media **972** of preferred server environment **928** protects productivity system **900** data from accidental loss, as shown, if hardware environment **962** hardware or storage media fails. Removable storage media **972** establishes at least one backup (*e.g.*, duplicate copies of productivity system **900** data) on archival media, for example, that may be stored on at least one other storage device and retrieved for later use by productivity system **900**. Removable storage media **972** comprises minimally, for example, a single 24X IDE CD-ROM drive and CD-ROM discs. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in long-term electronic data storage and data transfer technology, etc., other long-term electronic data storage means, such as, for example, Internet connected disk-arrays, dynamic storage devices, and static storage devices yet to be developed, etc., may suffice.

Mouse **973** (or other pointing device) of preferred server environment **928** has a standards-based interface with input/output port **965** and is capable of conveying signals to CPU **971** via a cursor, as shown, via monitor **975** or equivalent. Mouse **973** minimally comprises, for example, at least one USB 2-button optical mouse, as shown, with at least one scroll function, or
5 equivalent. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in computer pointing-device technology, human-machine interface technology, etc., other computer pointing devices, such as, for example, laser-based pointers or biometric-based pointers yet to be developed, etc., may suffice.

10 Keyboard **974** of server environment **928** has a standards-based interface preferably with input/output port **965**, as shown, and is capable of conveying signals to CPU **971** via at least one keyboard-like interface, as shown. Keyboard **974** allows users, as shown, to enter commands to direct productivity system **900** executions within server environment **928**. Keyboard **974** minimally comprises at least one USB keyboard, preferably with at least one hot-key, as shown.
15 Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in human-machine interface technology, computer input/output technology, etc., other employee-theft detection system algorithms including elements, such as, for example, optical readers and encoders, biometric readers and encoders yet to be developed, etc., may suffice.

20 Monitor **975** of server environment **928** comprises displaying at least one input/output text message and at least one graphic symbol, associated with productivity system **900**, with sufficient resolution and clarity that user **981** may effectively act in either an administrator role or operator role with productivity system **900**. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances,
25 considering issues such as changes in computer display technology, etc., other controllable light-emitting display technologies including elements, such as, for example, liquid-crystal-based displays or light-emitting-diode displays yet to be developed, etc., may suffice.

Network interface **976** enables server environment **928** to send at least one communication signal and to receive at least one communication signal from network **978**,
30 preferably using at least one standards-based communication-protocol.

Firewall **958**, as shown, isolates at least one network from Internet **907**, permitting only specific traffic to pass into or out of productivity system **900**. Firewall **958** selectively blocks data traffic, typically at ISO/OSI layer 3 and layer 4, and has state knowledge of all data connectivity sessions passing through firewall **958**. Firewall **958** typically has: 1) IEEE 802.1x

based edge authentication; 2) switch access password protection; 3) at least one user-definable setting for enabling or disabling Web, SSH, Telnet, SSL management access; 4) at least one port-based MAC address alert and lock-down; 5) IP address filtering for management access Layer 2/3/4-based Access Control Lists (ACLs); RADIUS and TACACS+ remote authentication; and 6) SSL/SSH encryption. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in data-encryption technology, firewalling technology etc., other data-encryption algorithms and data-network firewalling constructs, such as, for example, multi-layer intrusion detection/prevention, hashing algorithms, and intrusion reporting means yet to be developed, etc., may suffice.

Wireless network access **977** enables networked user equipment environment **963** to send at least one communication signal to at least one other network-enabled device using at least one standards-based communication protocol. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in wireless data-communications technology and/or wireless data-transmission protocols, etc., other wired or wireless data and multi-media communications technologies, such as, for example, laser-based wireless communications technologies, spread-spectrum wireless communications technologies yet to be developed, etc., may suffice.

Internet connection **978** of networked-user-equipment environment **963** has sufficient bandwidth and latency characteristics (data connectivity) such that productivity system **900** may properly execute all functions with all related user devices. Examples of related user devices include WAP enabled mobile phone **982**, browser enabled IP machine **956**, personal digital assistant (PDA) **983**, and tablet PC **984**. Internet connection **979** may, for example, comprises a minimum of one-megabit bandwidth (bi-directional) with latency of less than 900 milliseconds. Upon reading the teachings of this specification, those with ordinary skill in the art will now understand that, under appropriate circumstances, considering issues such as changes in networked-user-equipment technology, miniaturized human-machine interaction technology, etc., other networked-user-equipment including human-machine interfaces, such as, for example, integrated networks allowing for multimedia store-and-forward and real-time communications via touch-sensitive input/output interface, biometrics yet to be developed, etc., may suffice.

Although applicant has described applicant's preferred embodiments of this invention, it will be understood that the broadest scope of this invention includes modifications. Such scope is limited only by the below claims as read in connection with the above specification. Further,

many other advantages of applicant's invention will be apparent to those skilled in the art from the above descriptions and the below claims.

WHAT IS CLAIMED IS:

- 1) A computer system, relating to using at least one GUI display and at least one point/select/command device to transfer useful information, associated with user-selected data associated with at least one data icon, between at least one first software application displaying in at least one first pane and at least one second software application displaying in at least one second pane, comprising:
- 5
- a) first software application computing means for providing at least one first set of software operations displayable in the at least one first pane;
 - b) second software application computing means for providing at least one second set of software operations displayable in the at least one second pane;
 - 10 c) icon selector computing means for selecting, using the point/select/command device, within the at least one first display pane, the at least one data icon;
 - d) icon mover computing means for moving, using the point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane; and
 - 15 e) icon releaser computing means for releasing, using the point/select/command device, within the at least one second display pane, the at least one data icon;
 - f) wherein said icon releaser computing means comprises information classifier computing means for classifying the useful information to categorize any metadata to provide metadata classification information; and
 - 20 g) information transfer computing means for transferring the useful information and any associated metadata classification information to the second software application.
- 2) The system according to claim 1 wherein said first software application computing means comprises at least one email-client software application.
- 25
- 3) The system according to claim 2 wherein said second software application computing means comprises at least one web-browser software application.
- 4) The system according to claim 3 wherein said at least one web-browser software application displays within the at least one pane of the at least one email-client software application.
- 30
- 5) The system according to claim 3 wherein:
- a) said at least one web-browser software application comprises at least one database client software application; and

- b) said information transfer computing means transfers the useful information and such any associated at least one metadata classification information to such at least one database client software application.
- 6) The system according to claim 5 wherein such any associated at least one metadata classification information comprises at least one user-selected data extension file type.
- 7) The system according to claim 1 wherein said information classifier computing means comprises file type identifier computing means for identifying at least one user-selected data extension file type.
- 8) The system according to claim 5, further comprising user limiter computing means for administratively limiting user access to said at least one web-browser software application.
- 9) The system according to claim 8, wherein said user limiter computing means comprises text field limiter computing means for limiting at least one edit property of at least one editable text field.
- 10) A computer system, relating to using at least one GUI display and at least one point/select/command device to transfer information, associated with user-selected data associated with at least one data icon, between at least one first software application displaying in at least one first pane and at least one second software application displaying in at least one second pane, comprising:
- a) at least one first software application processor structured and arranged to provide at least one first set of software operations displayable in the at least one first pane;
- b) at least one second software application processor structured and arranged to provide at least one second set of software operations displayable in the at least one second pane;
- c) at least one icon selector processor structured and arranged to select, using the point/select/command device, within the at least one first display pane, the at least one data icon;
- d) at least one icon mover processor structured and arranged to move, using the point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane; and
- e) at least one icon releaser processor structured and arranged to release, using the point/select/command device, within the at least one second display pane, the at least one data icon;

- f) wherein said at least one icon releaser processor comprises at least one information classifier processor structured and arranged to classify the information to categorize any metadata; and
- g) at least one information transfer processor structured and arranged to transfer the information and any associated at least one user-selected data extension file type to the at least one second software application processor.
- 5
- 11) The computer system according to claim 10 wherein said first software application processor comprises at least one email-client software application processor.
- 12) The computer system according to claim 11 wherein said second software application processor comprises at least one web-browser software application processor.
- 10
- 13) The computer system according to claim 12 wherein said at least one web-browser software application processor displays within the at least one pane of the at least one email-client software application processor.
- 14) The computer system according to claim 13 wherein:
- 15
- a) said at least one web-browser software application processor comprises at least one database client software application processor; and
- b) said information transfer processor transfers the useful information and such any associated at least one metadata classification information to such at least one database client software application processor.
- 20
- 15) The computer system according to claim 14 wherein such any associated at least one metadata classification information comprises at least one user-selected data extension file type.
- 16) The computer system according to claim 10 wherein said information classifier processor comprises at least one file type identifier processor that identifies at least one user-selected data extension file type.
- 25
- 17) The computer system according to claim 14, further comprising at least one user limiter processor that administratively limits user access to said at least one web-browser software application.
- 18) The computer system according to claim 17, wherein said user limiter processor comprises text field limiter processor that limits at least one edit property of at least one editable text field.
- 30
- 19) A digital storage medium containing computer readable indicia representing a computer program relating to, using at least one GUI display and at least one point/select/command device, transferring information, associated with user-selected data associated with at

least one data icon, between at least one first software application displaying in at least one first pane and at least one second software application displaying in at least one second pane, such program comprising the steps of:

- 5 a) providing at least one first set of software operations displayable in the at least one first pane;
 - b) providing at least one second set of software operations displayable in the at least one second pane;
 - c) selecting, using the point/select/command device, within the at least one first display pane, the at least one data icon;
 - 10 d) moving, using the point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane;
 - e) releasing, using the point/select/command device, within the at least one second display pane, the at least one data icon;
 - f) classifying the information to categorize any metadata;
 - 15 g) identifying at least one user-selected data extension file type;
 - h) transferring the information and any associated at least one user-selected data extension file type to the at least one second software application.
- 20) The digital storage medium according to claim 19 wherein said first set of software operations comprises at least one email-client software application.
 - 20 21) The system according to claim 29 wherein said second set of software operations comprises at least one web-browser software application.
 - 22) The digital storage medium according to claim 21 wherein said at least one web-browser software application displays within the at least one pane of the at least one email-client software application.
 - 25 23) The digital storage medium according to claim 21 wherein:
 - a) said at least one web-browser software application comprises at least one database client software application; and
 - b) the useful information and such any associated at least one metadata classification information is transferred to such at least one database client software application.
 - 30 24) The digital storage medium according to claim 23 wherein such at least one metadata classification information comprises at least one user-selected data extension file type.
 - 25) The digital storage medium according to claim 21 wherein said classifying the useful information comprises identifying at least one user-selected data extension file type.

- 26) The digital storage medium according to claim 23 further comprising administratively limiting user access to said at least one web-browser software application.
- 27) The digital storage medium according to claim 26 wherein said administratively limiting user access comprises limiting at least one edit property of at least one editable text field.
- 5 28) A method, relating to providing labor-saving multiple data transfers into at least one database application from another application, comprising the steps of:
- a) providing at least one data transfer software application adapted to assist labor-saving information transfer into at least one database application; and
 - b) monetizing use of such at least one data transfer software application by at least one user seeking such labor-saving information transfer;
 - 10 c) wherein such at least one data transfer software application comprises at least the steps of
 - i) providing at least one first set of software operations displayable in at least one first pane of at least one GUI,
 - 15 ii) providing at least one second set of software operations displayable in at least one second pane of the at least one GUI,
 - (1) wherein such at least one second set of software operations comprises the at least one database application,
 - 20 iii) selecting, using at least one point/select/command device, within the at least one first display pane, at least one data icon,
 - iv) moving, using the at least one point/select/command device, the at least one data icon from the at least one first display pane to the at least one second display pane,
 - (1) wherein such moving step is enabled to permit at least one user to
 - 25 perform such moving step with exactly one continuous motion of the at least one point/select/command device (“drag”),
 - v) releasing, using the point/select/command device, within the at least one second display pane, the at least one data icon,
 - vi) classifying the useful information to categorize any metadata to provide
 - 30 metadata classification information, and
 - vii) transferring the useful information and any associated metadata classification information to the at least one database application;
 - d) wherein the at least one user is enabled to make labor-saving multiple data transfers into the at least one database application.

- 29) The method according to claim 28 wherein such at least one first set of software operations comprises at least one email software application.
- 30) The method according to claim 29 wherein said at least one second pane comprises at least one browser interface.
- 5 31) The method according to claim 30 further comprising the step(s) of:
- a) providing, in such at least one database application, sufficient administrative control of such at least one user to enhance labor-saving monetizing of such multiple data transfers;
 - b) wherein such labor-saving monetizing comprises enabling better performance.
- 10 32) The method according to claim 31 wherein such labor-saving monetizing comprises better performing of compliance.
- 33) The method according to claim 32 wherein such labor-saving monetizing comprises better performing of compliance in at least the area of risk management.
- 34) The method according to claim 32 wherein such labor-saving monetizing comprises
15 better performing of compliance in at least the area of time management.

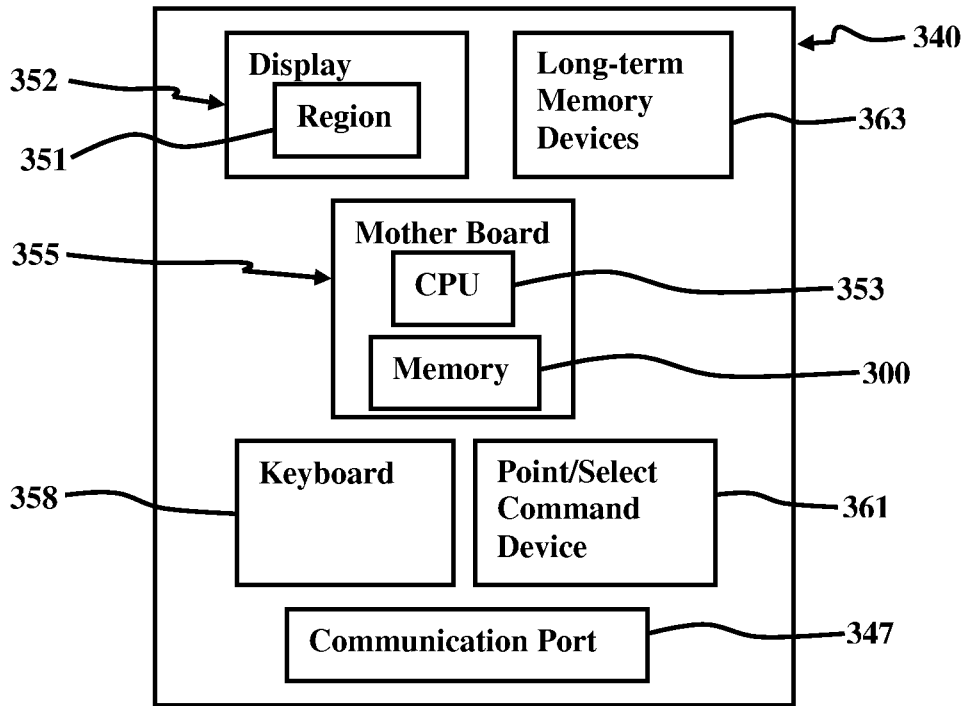


FIG. 1A

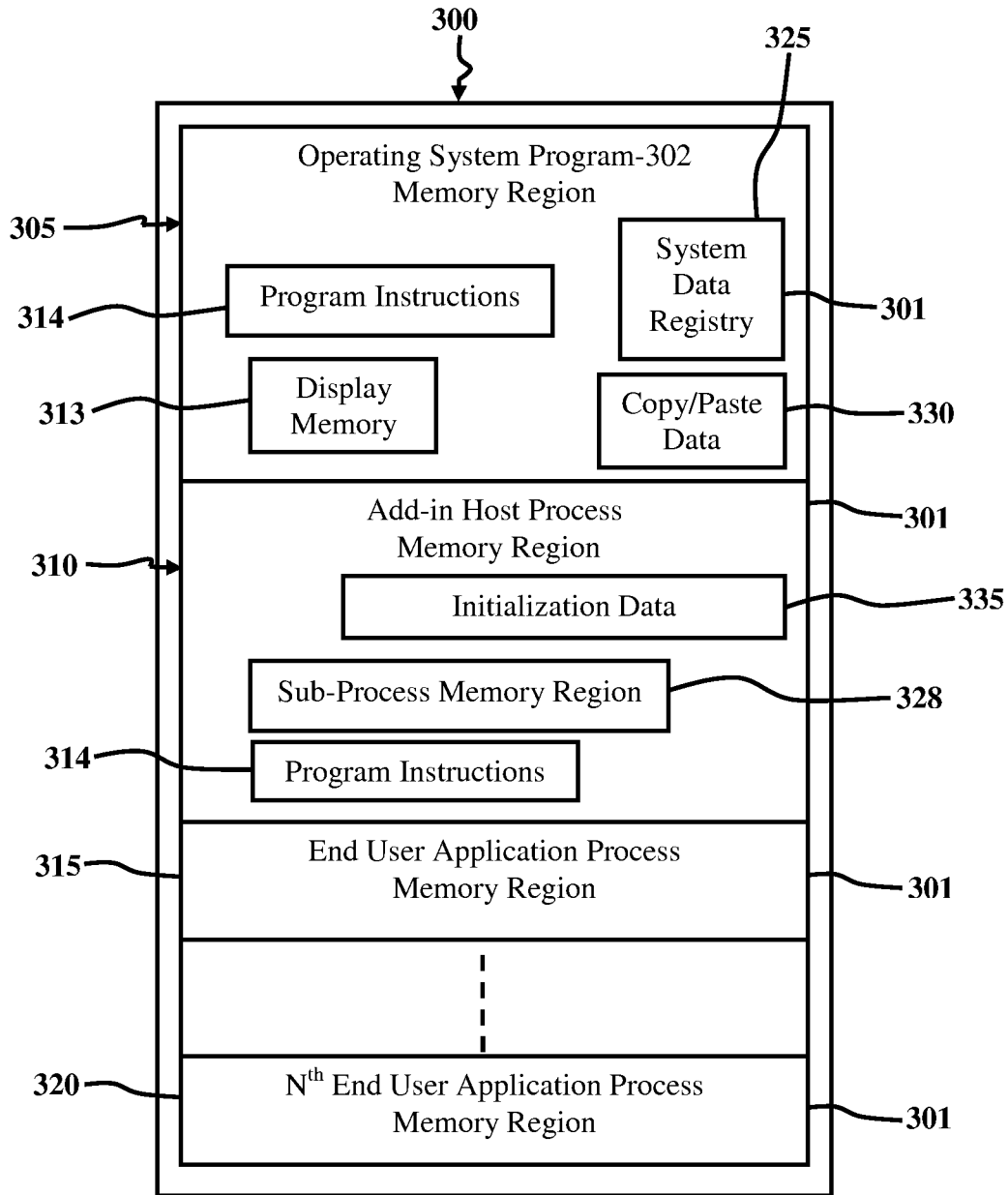


FIG. 1B

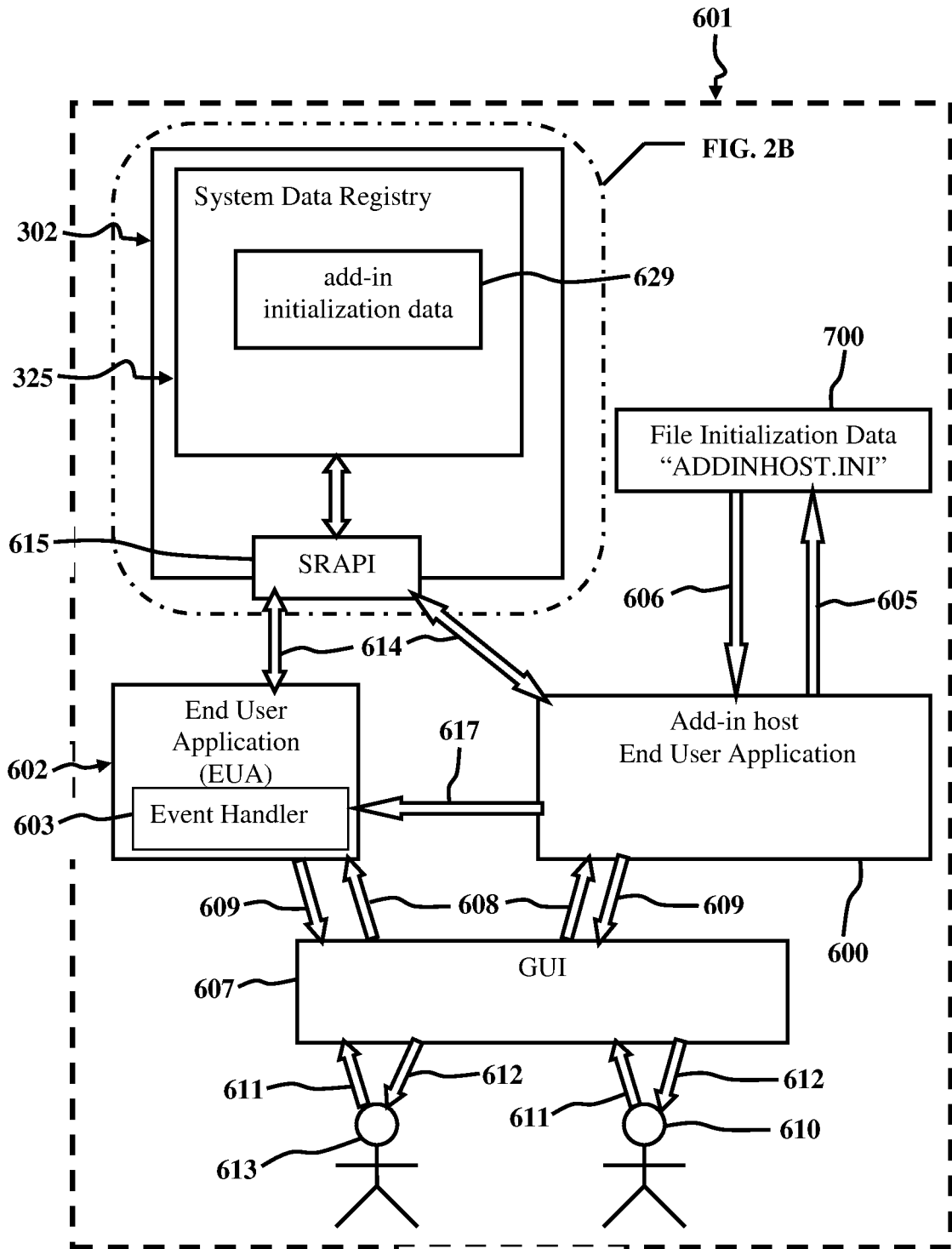


FIG. 2A

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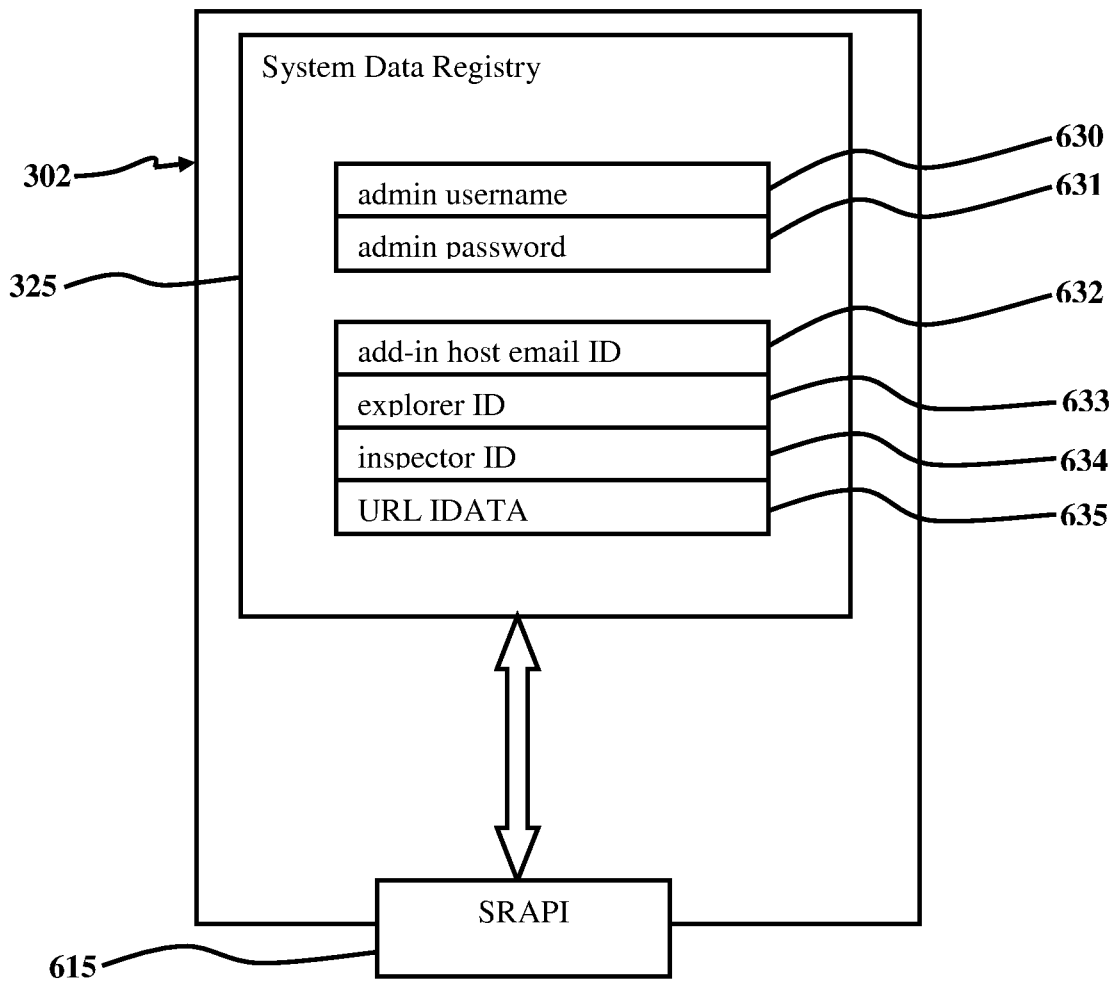


FIG. 2B

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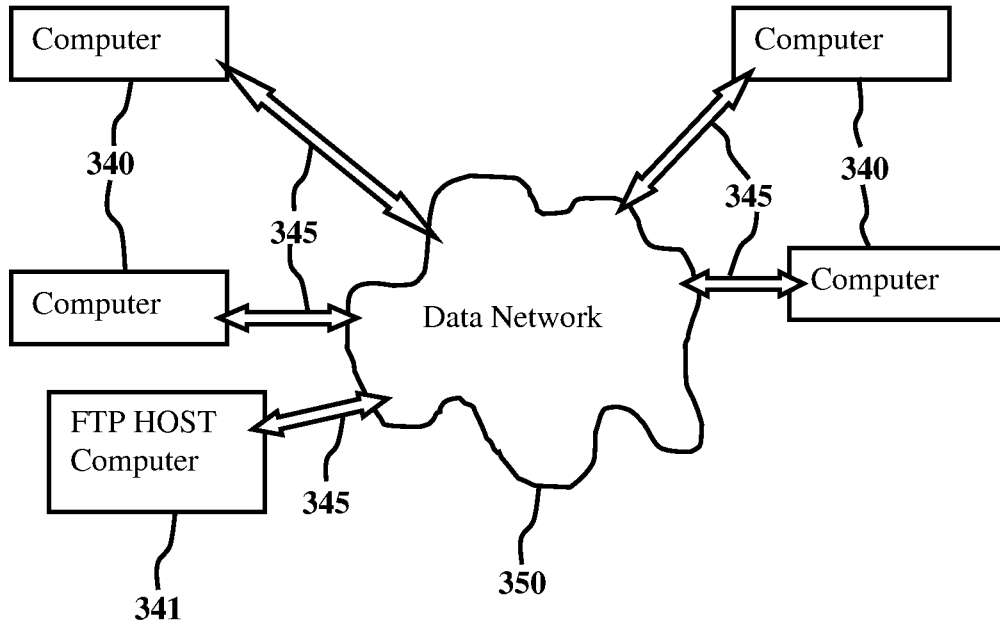


FIG. 3

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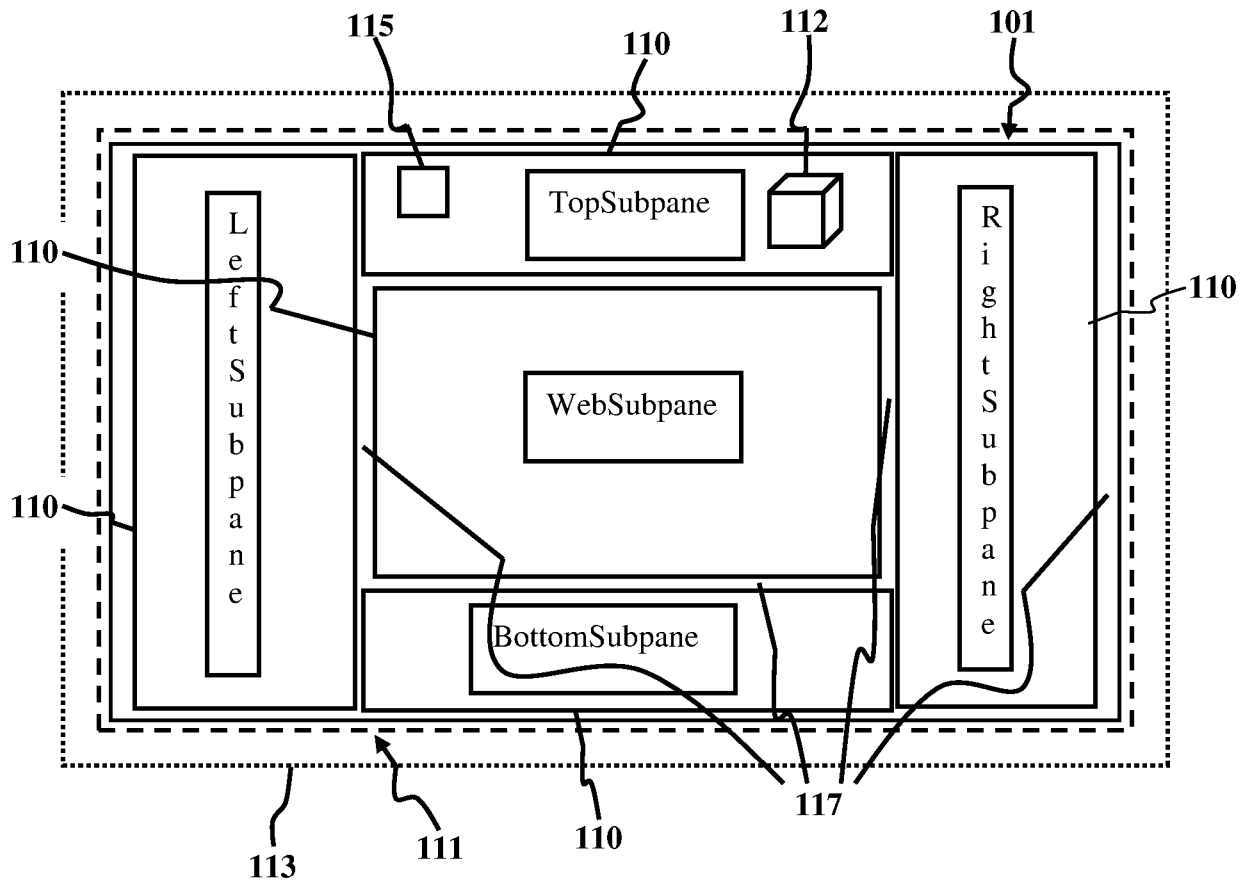


FIG. 4

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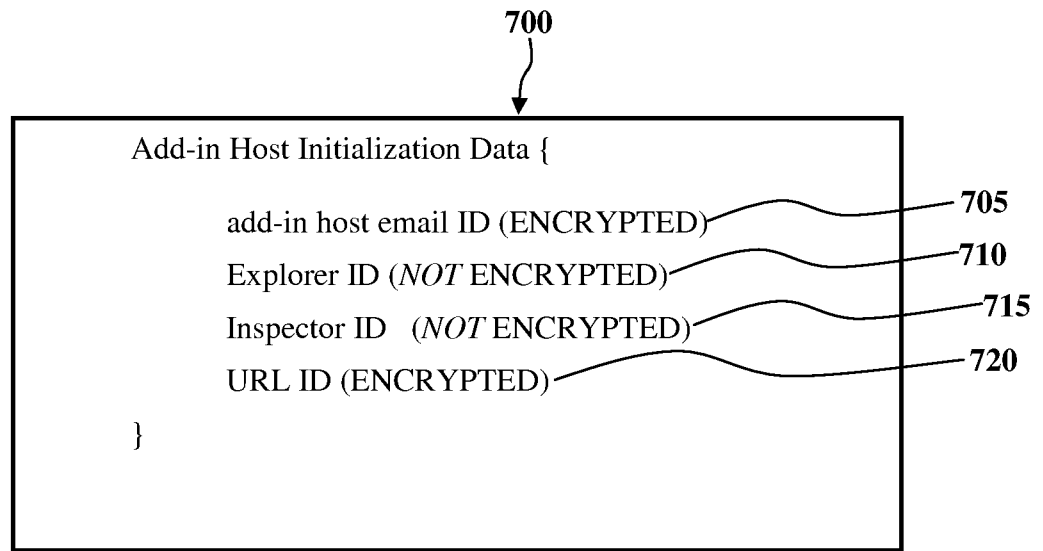


FIG. 5

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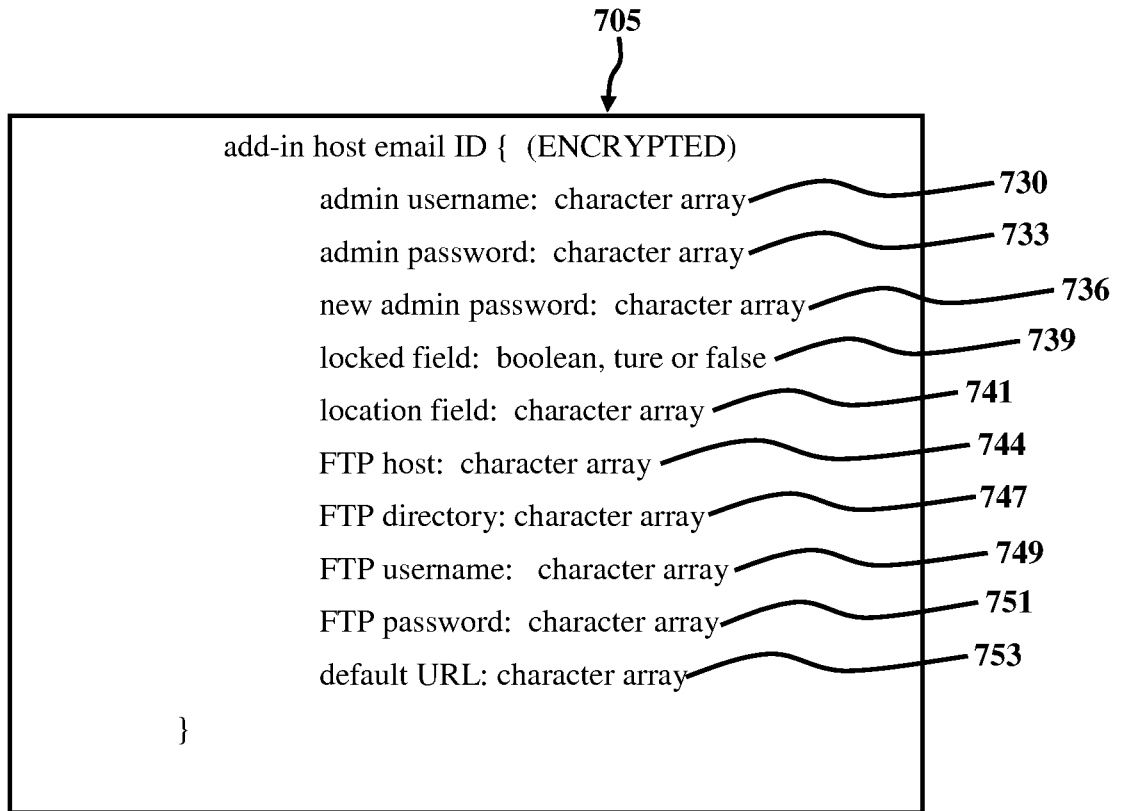


FIG. 6

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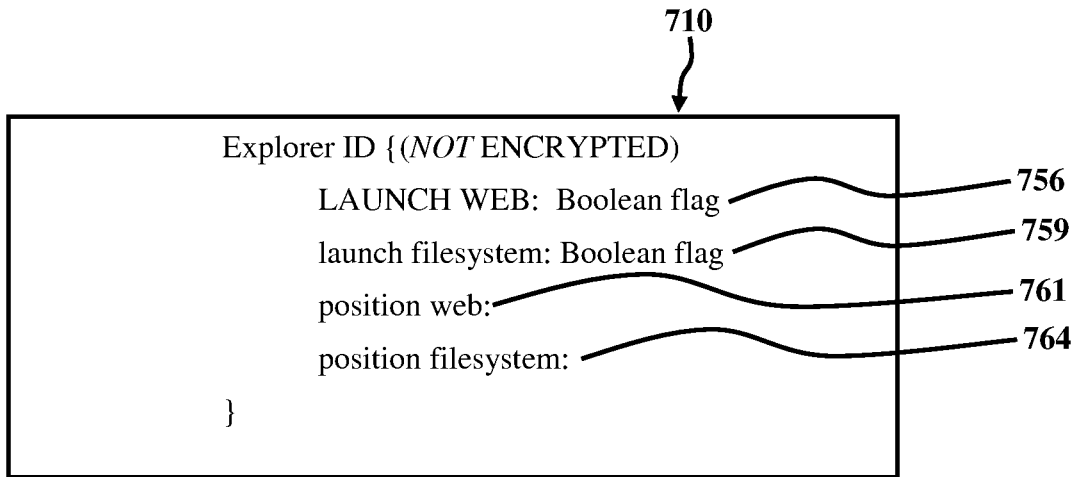


FIG. 7

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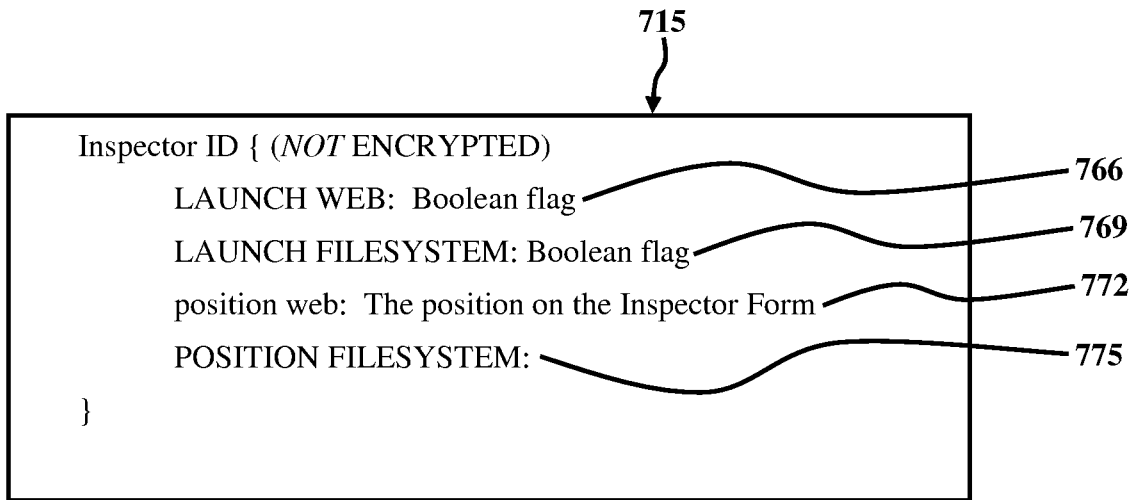


FIG. 8

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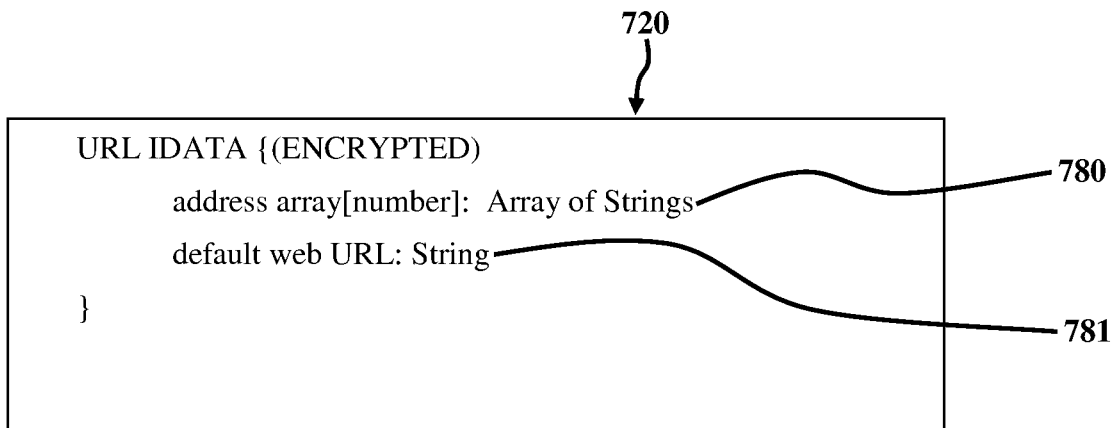


FIG. 9

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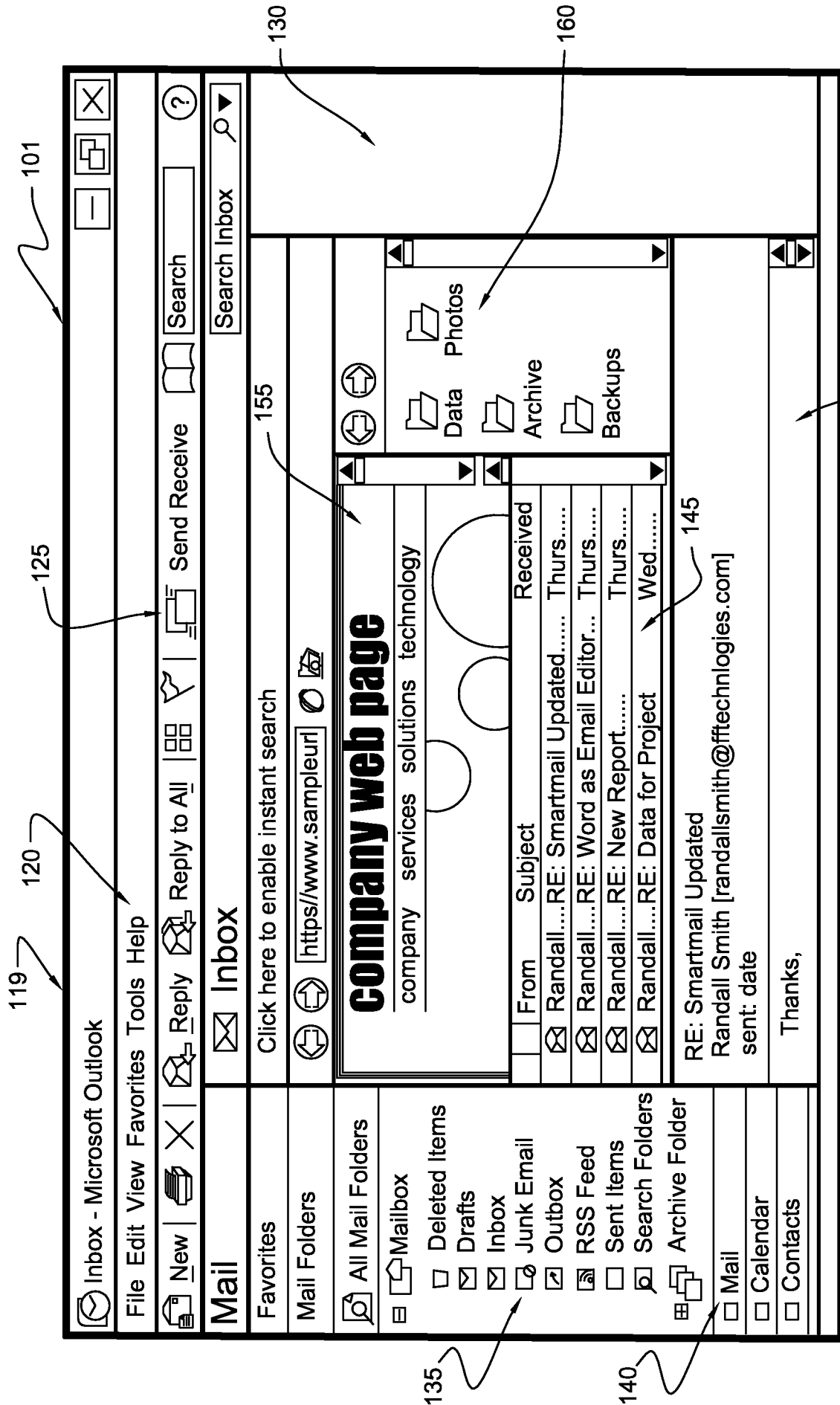


FIG. 10

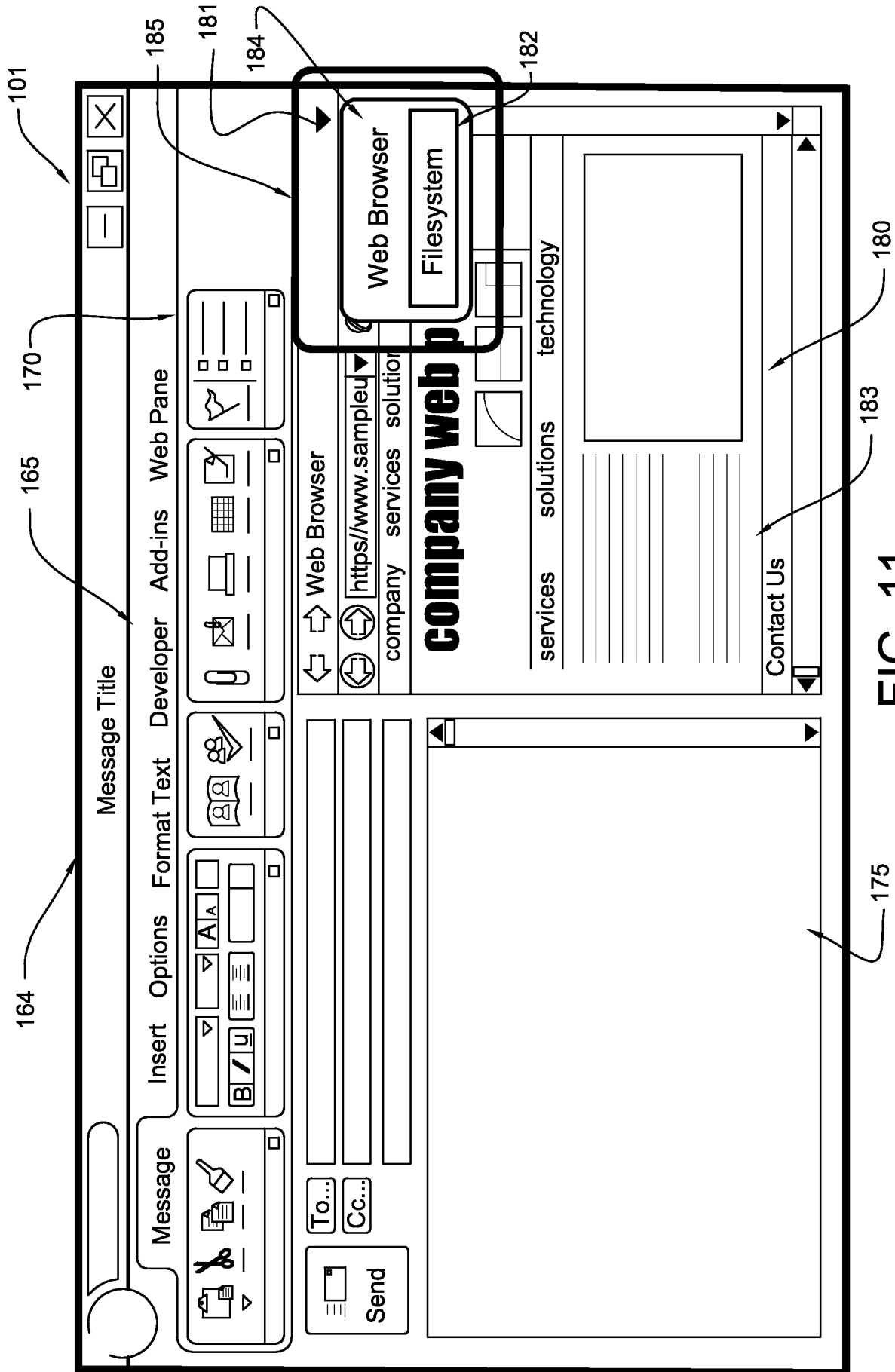


FIG. 11

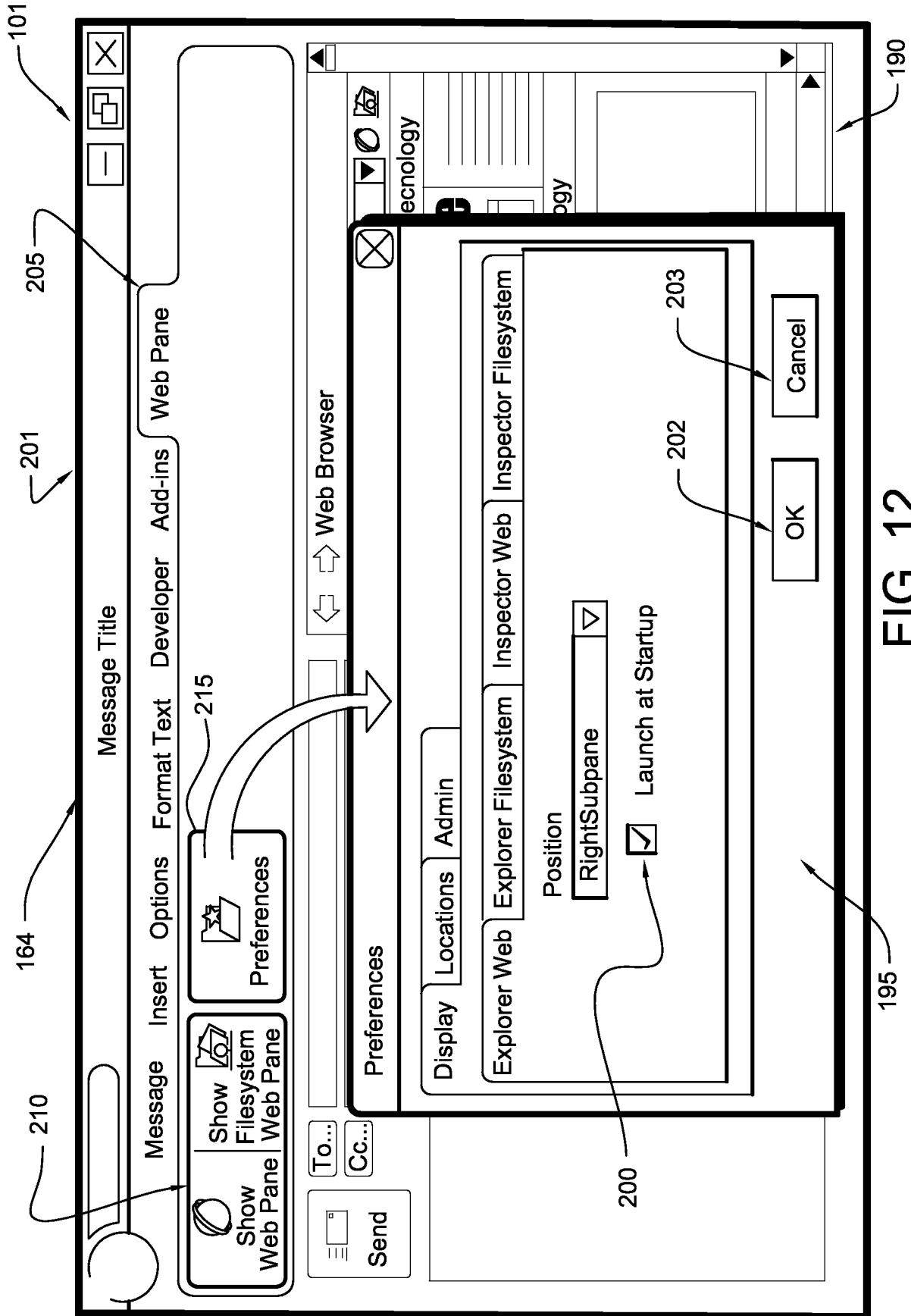


FIG. 12

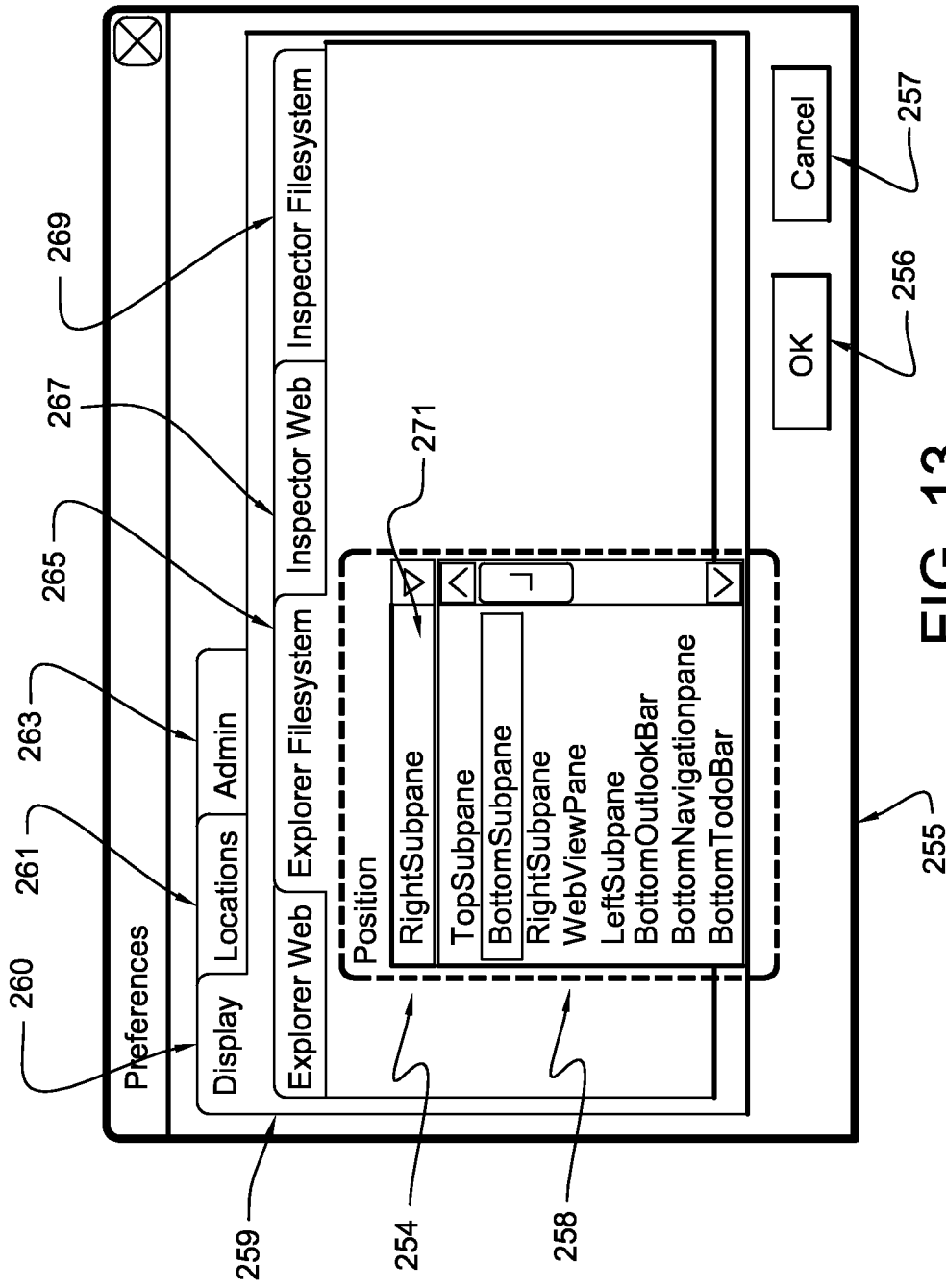


FIG. 13

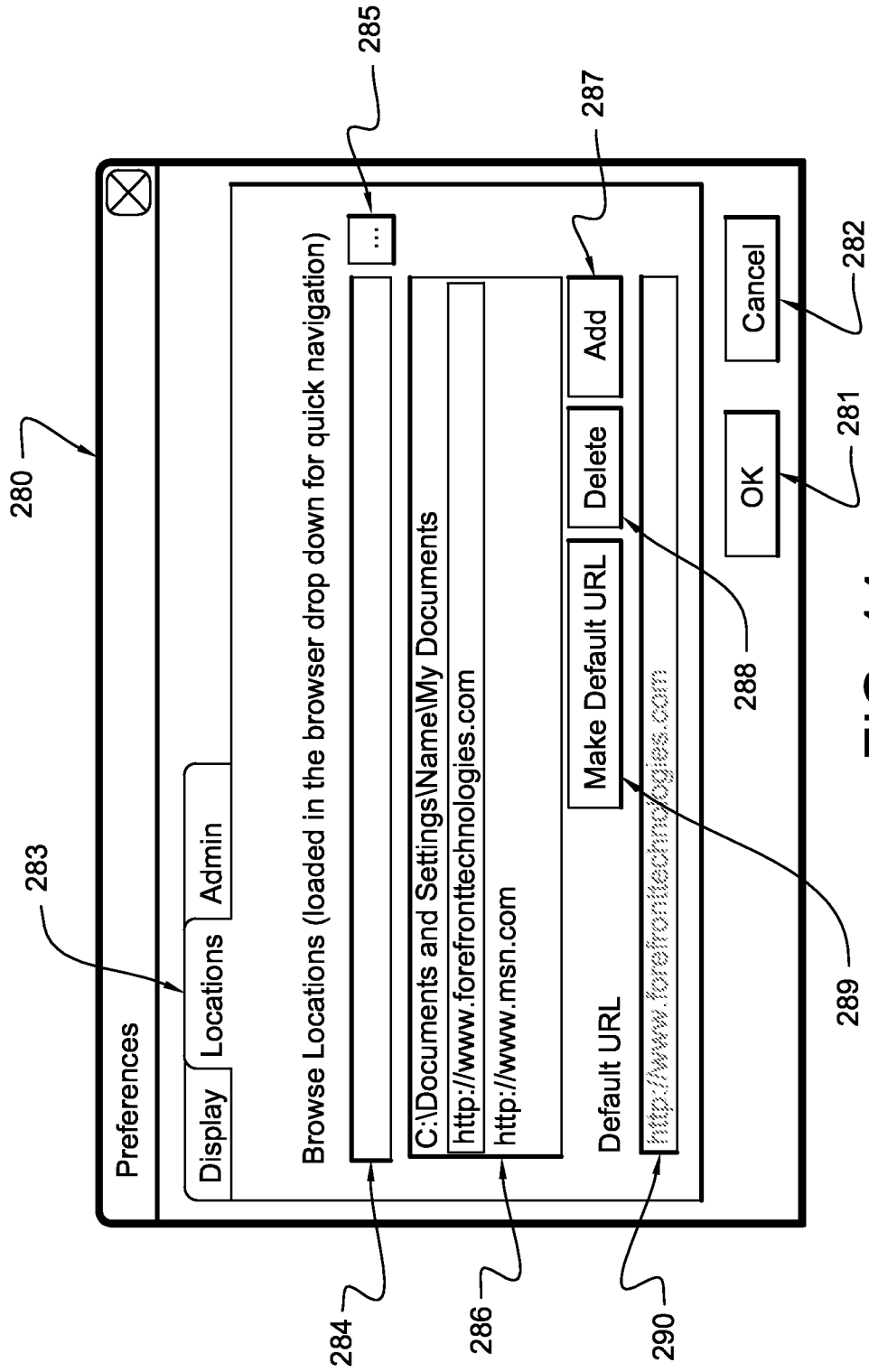


FIG. 14

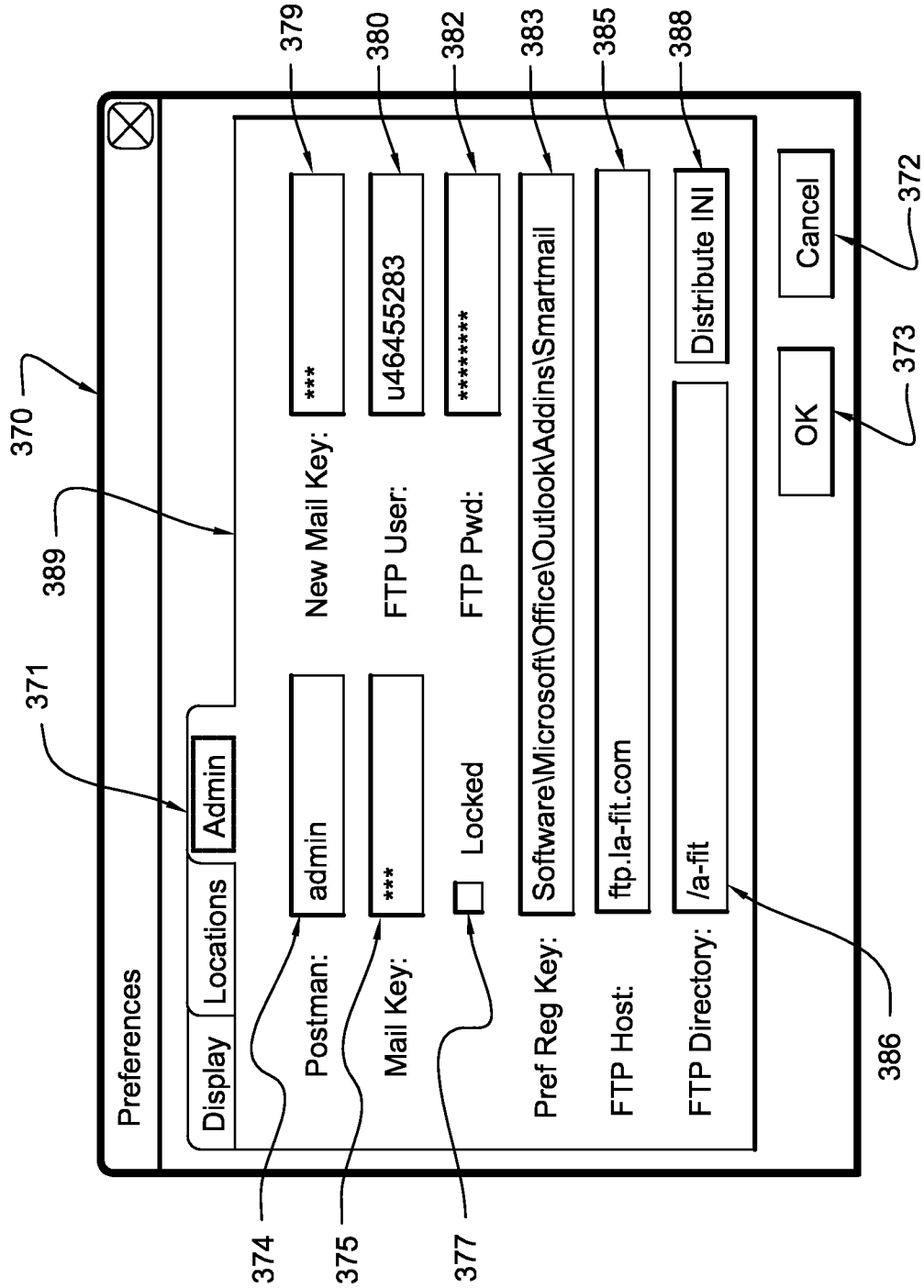


FIG. 15

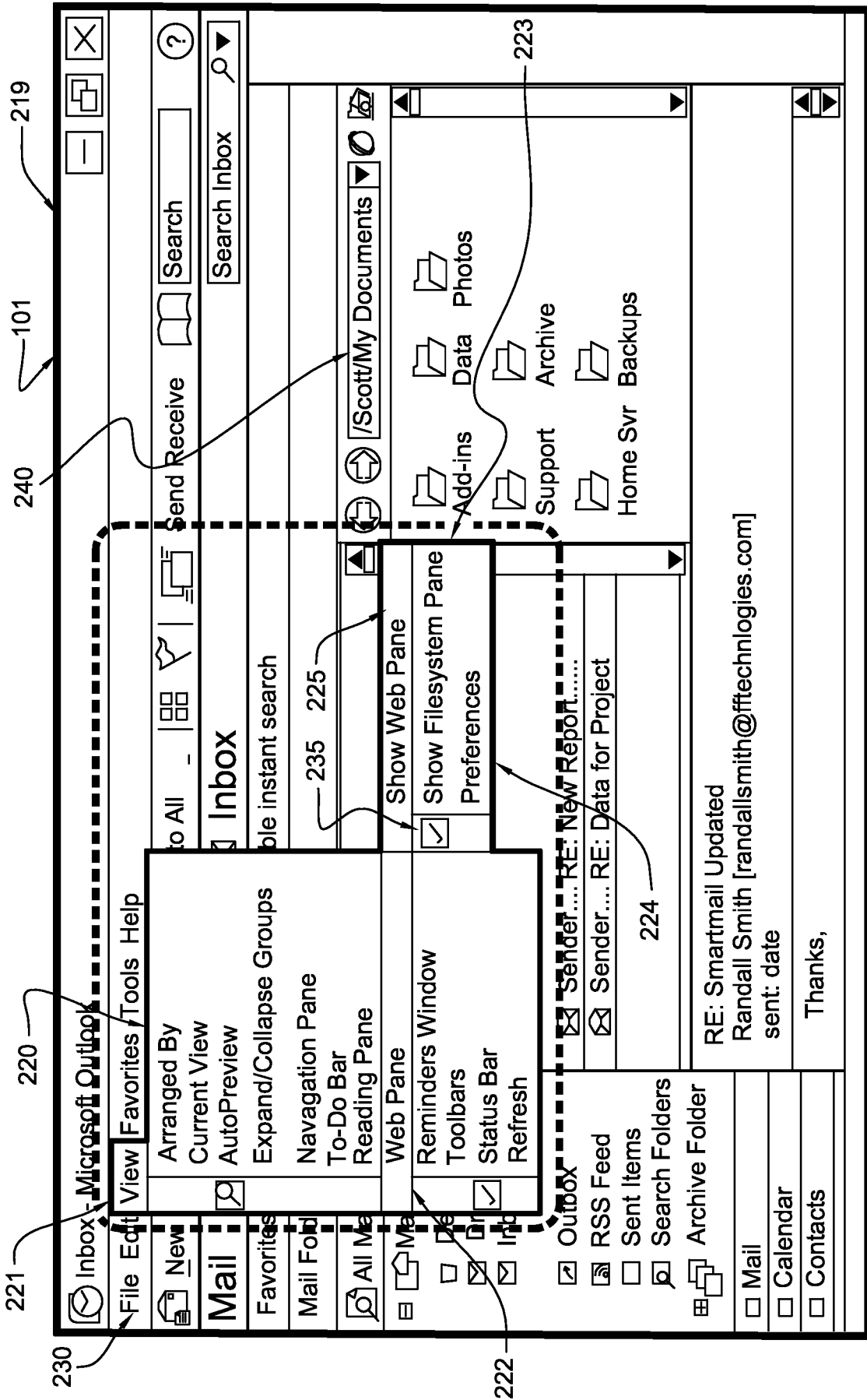


FIG. 16

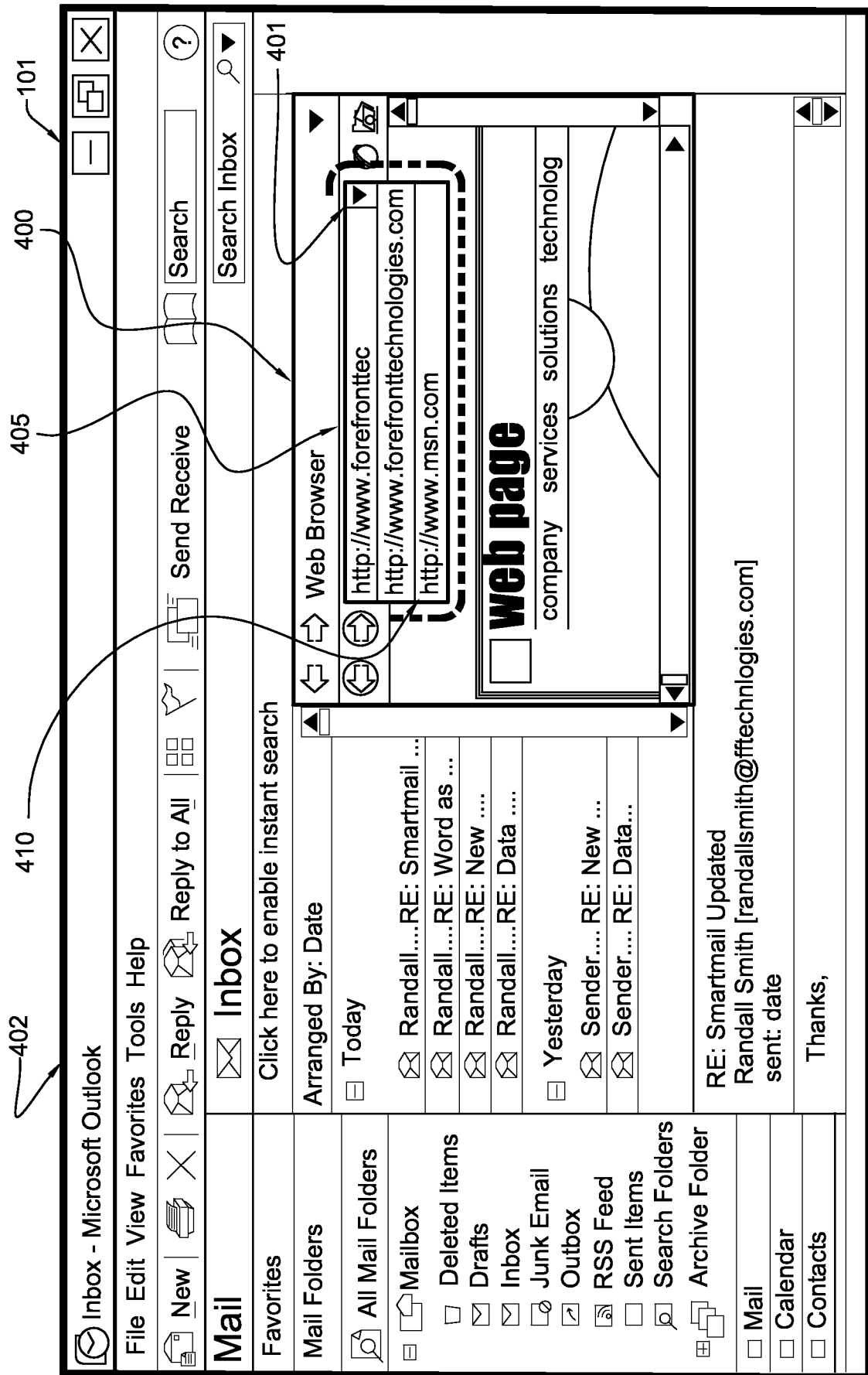


FIG. 17

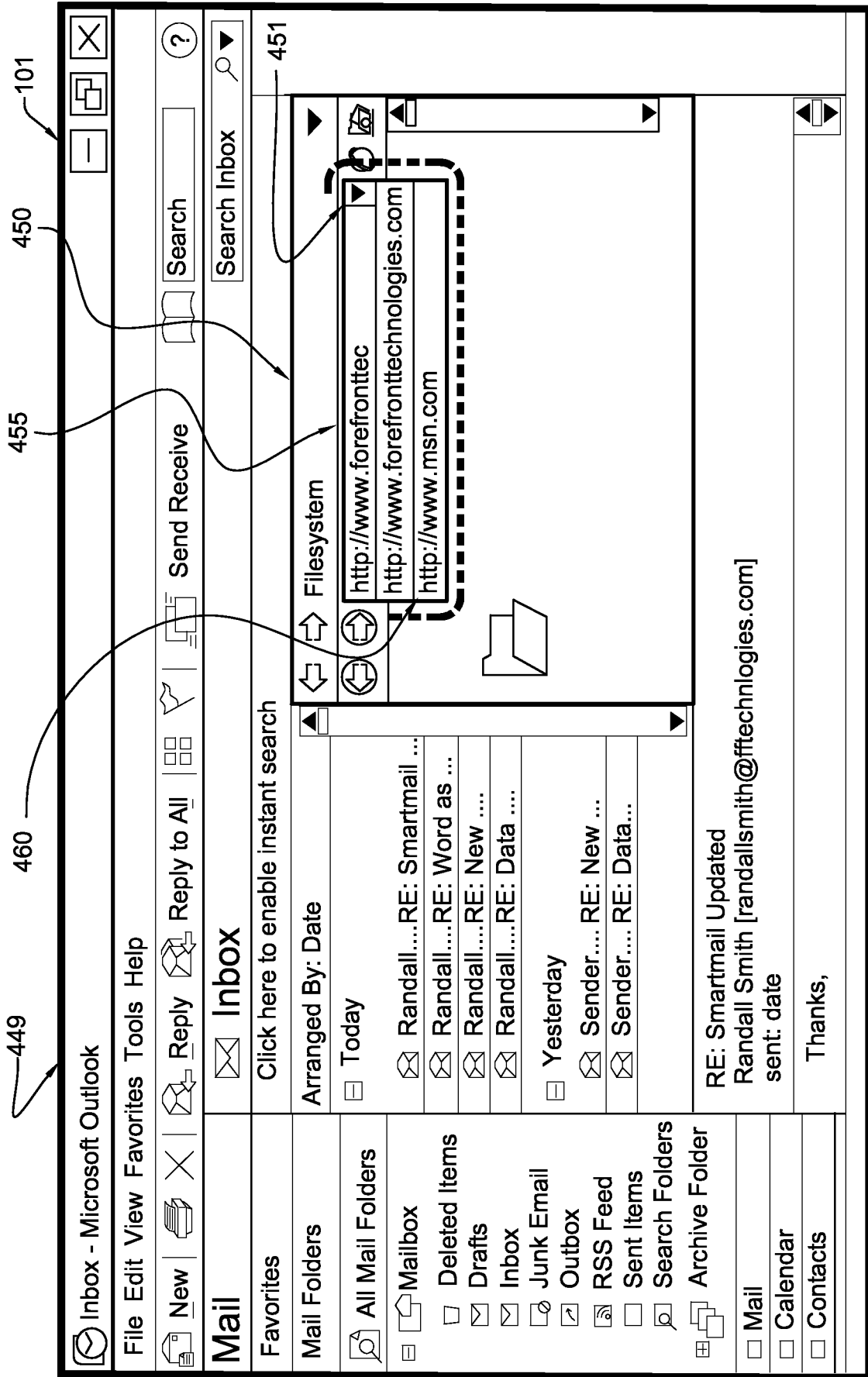


FIG. 18

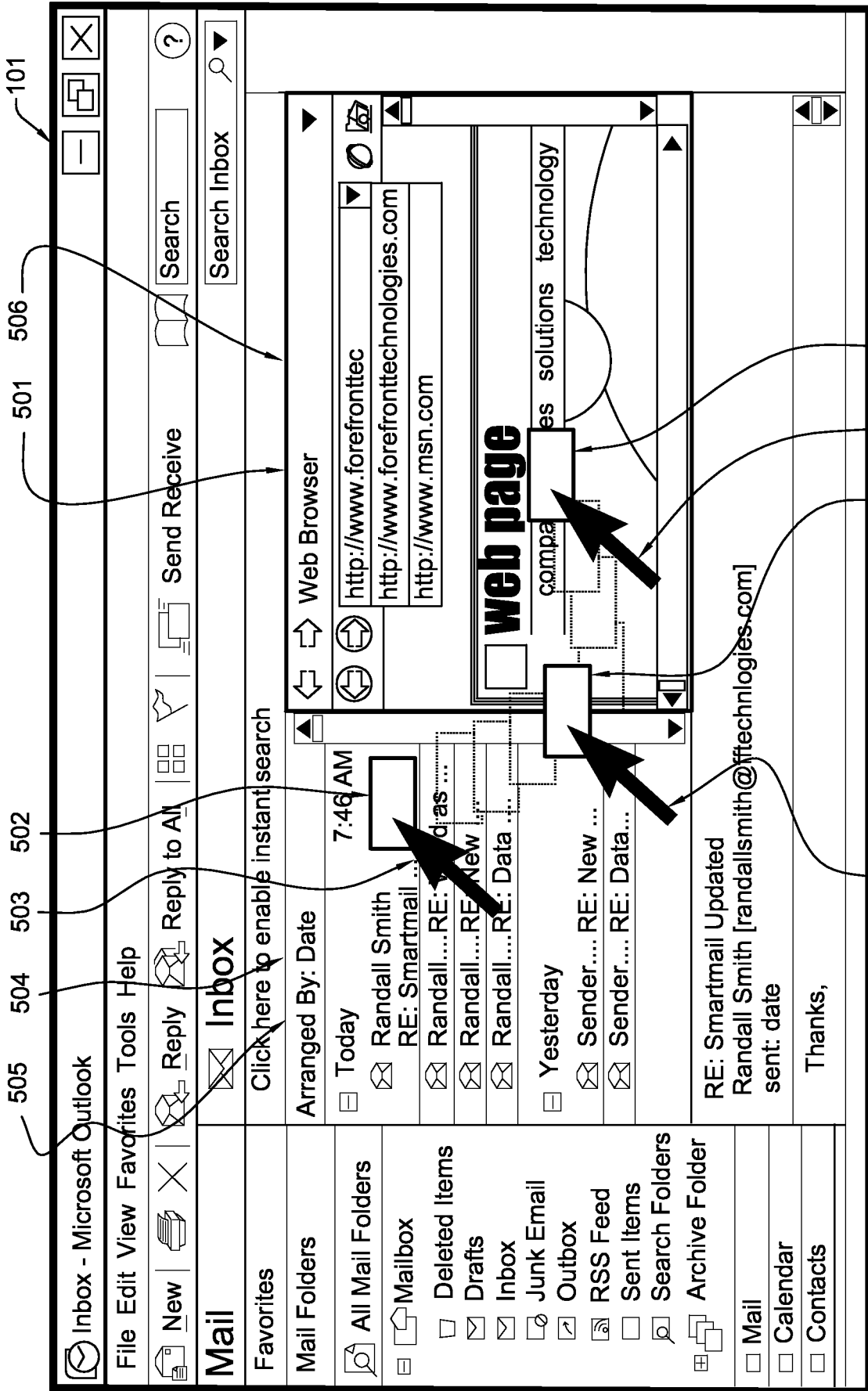


FIG. 19

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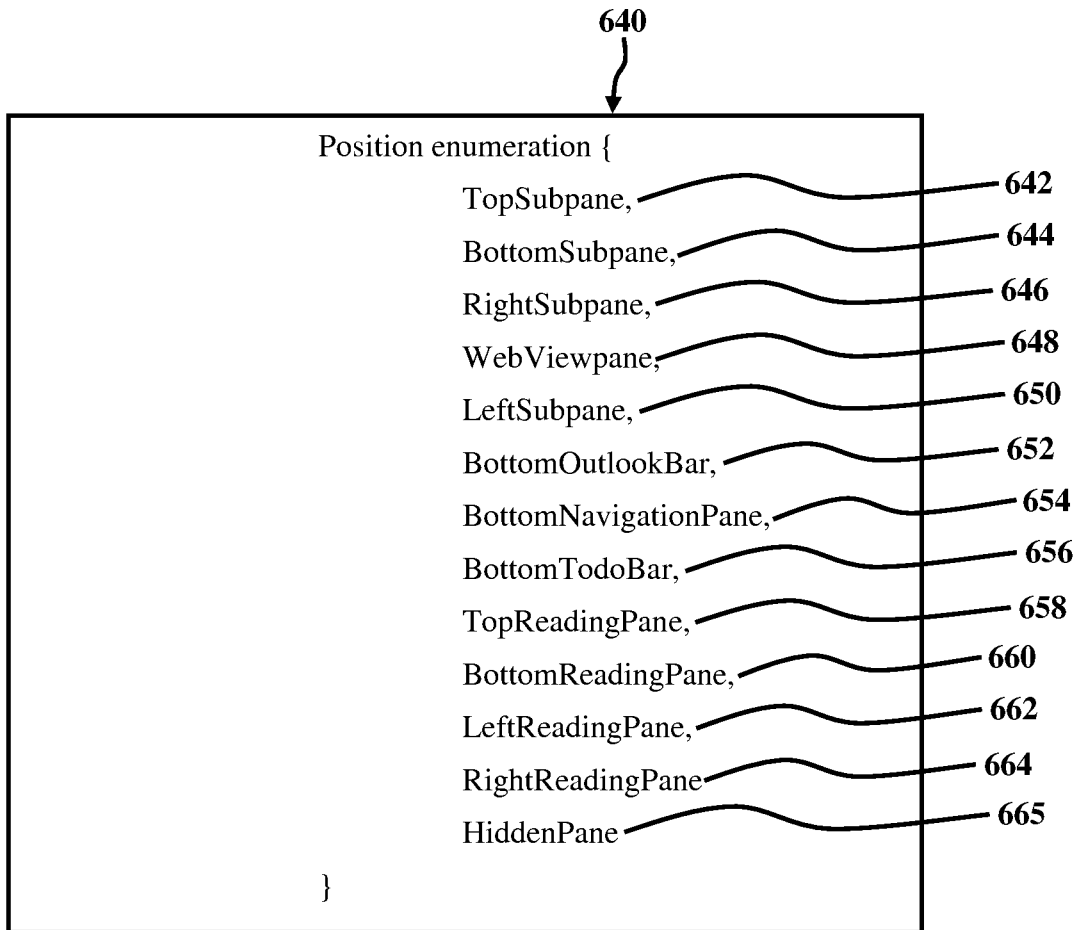


FIG. 20

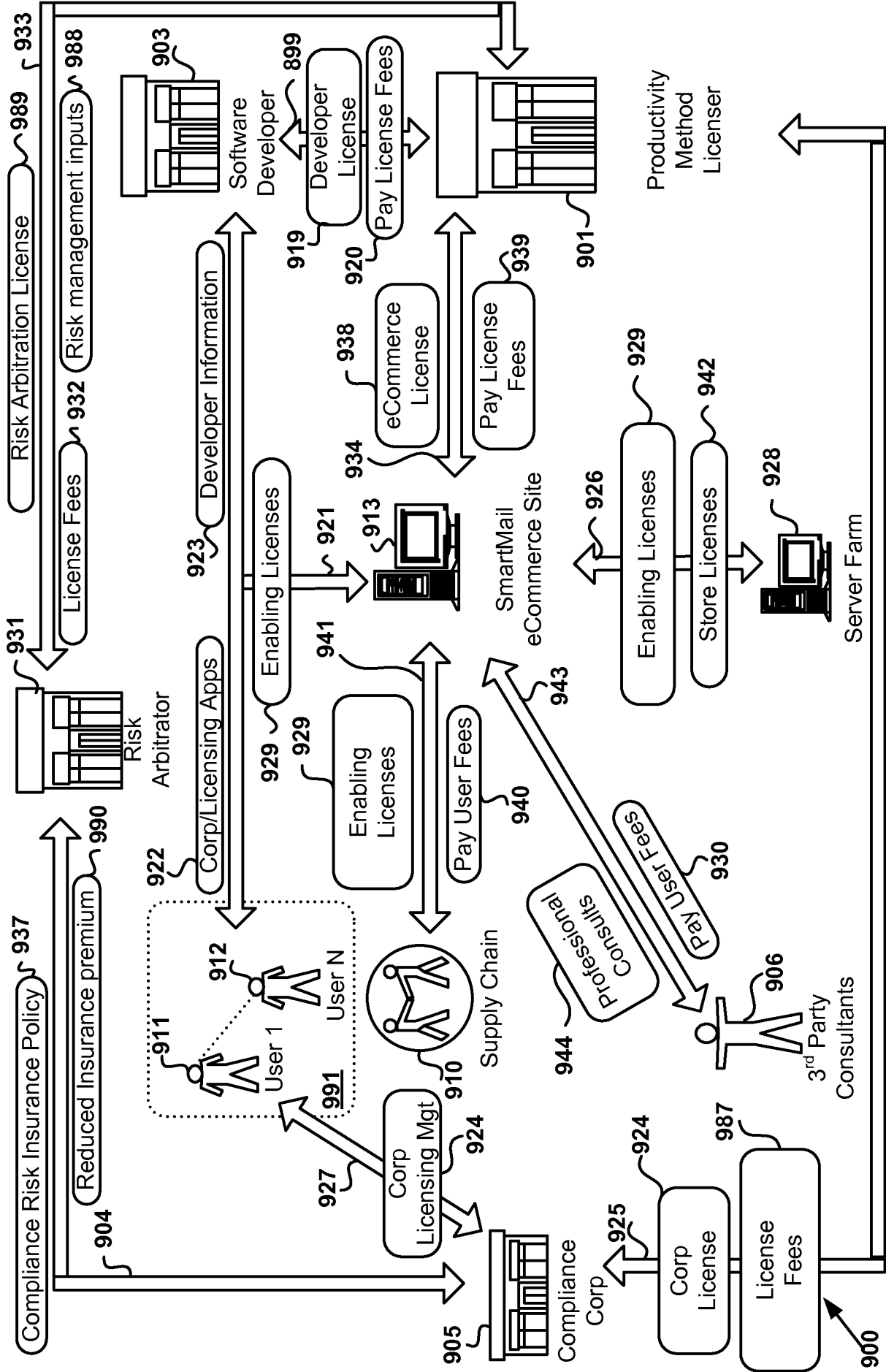


FIG. 22

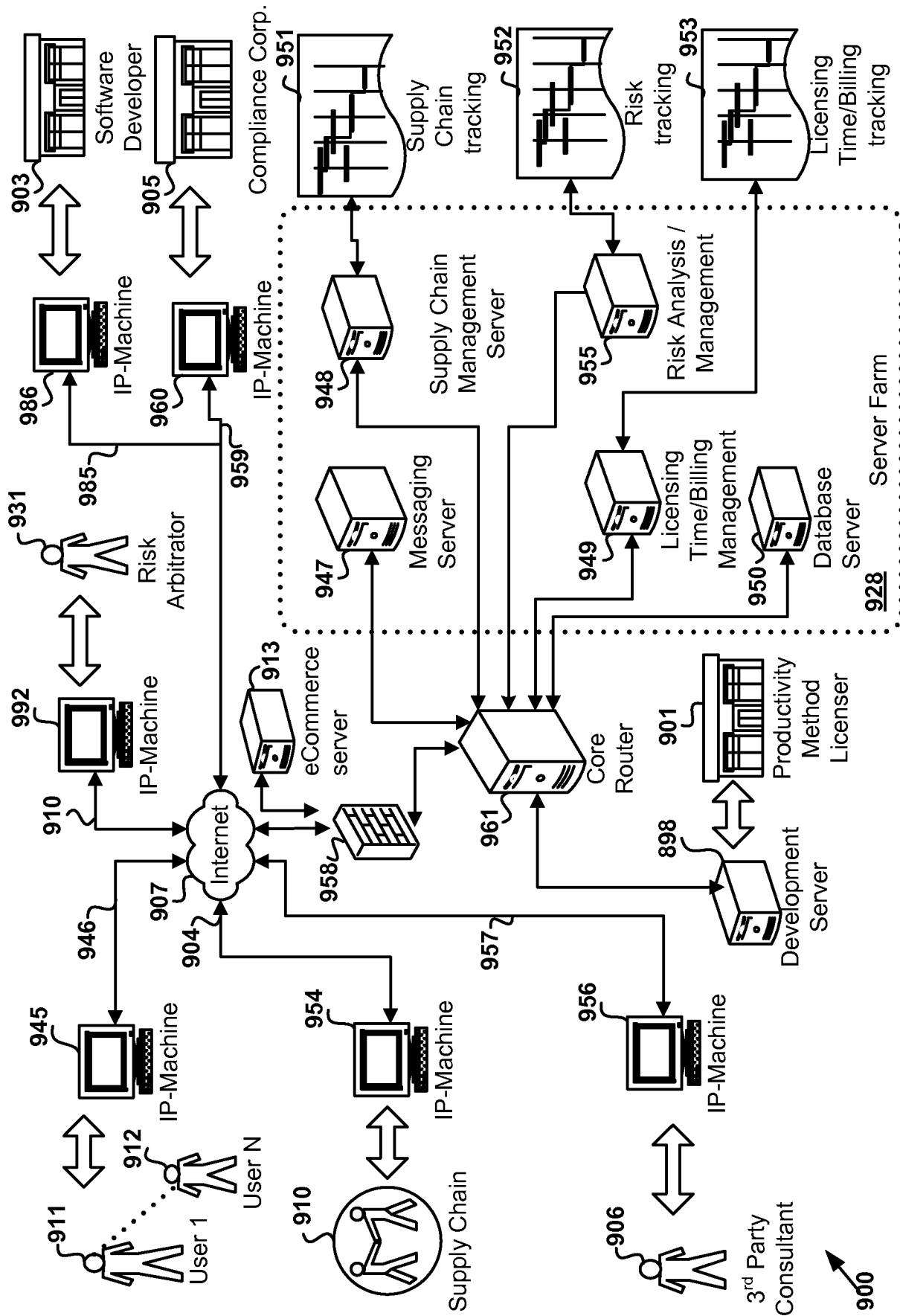


FIG. 23

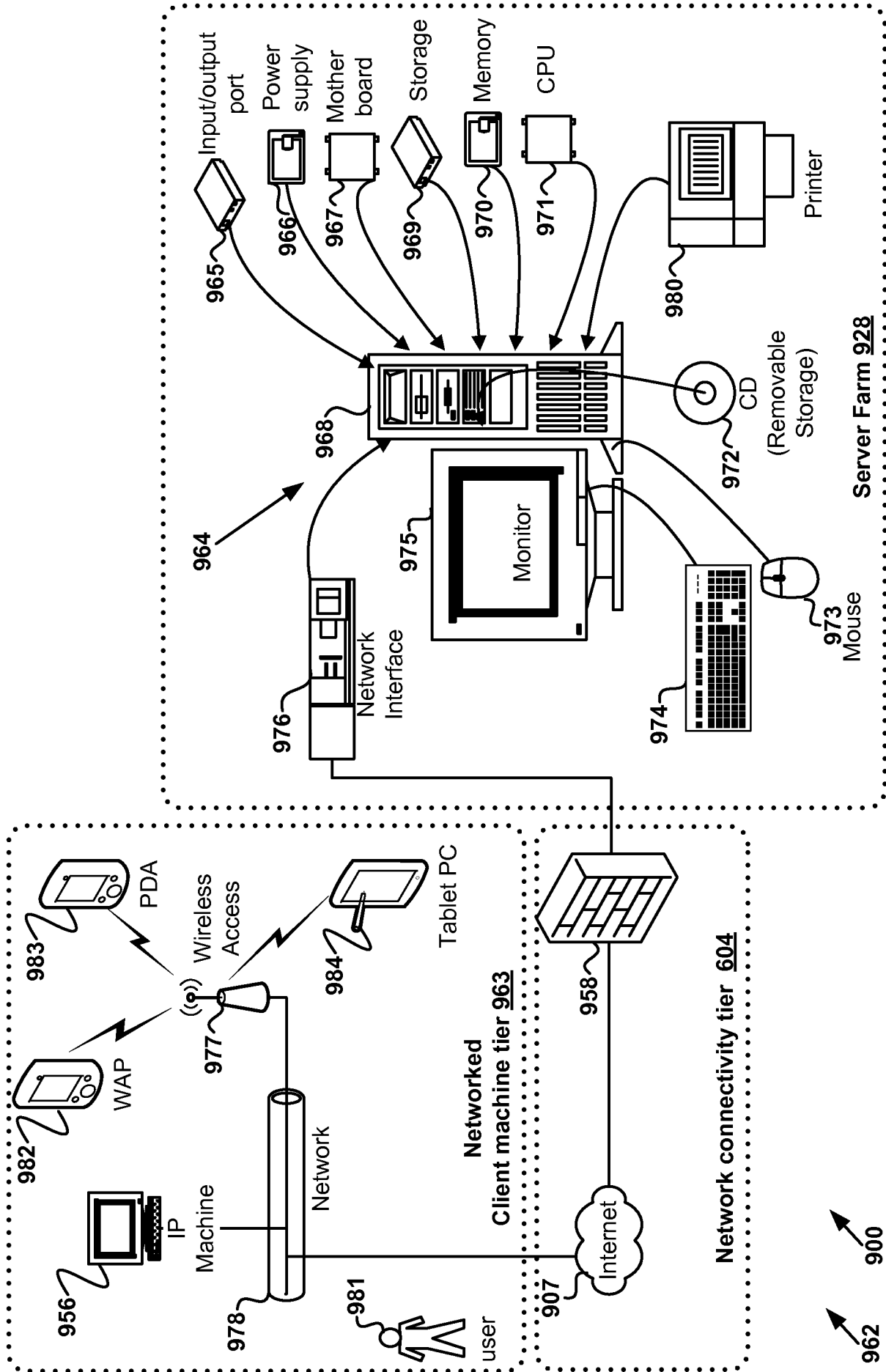


FIG. 24