

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Bruce A. MacNaughton	12/09/1996
<b>RECEIVING PARTY DATA</b>	
Name:	America Online, Inc.
Street Address:	22000 AOL Way
City:	Dulles
State/Country:	VIRGINIA
Postal Code:	20166
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Application Number:	09135694
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(877)769-7945
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(202) 783-5070
Email:	apsi@fr.com
Correspondent Name:	Kevin E. Greene
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	06975-0001007
NAME OF SUBMITTER:	Regina A. Holmes
<b>Total Attachments: 9</b> source=06975-0659002 Assignment 2 of 2#page1.tif source=06975-0659002 Assignment 2 of 2#page2.tif source=06975-0659002 Assignment 2 of 2#page3.tif source=06975-0659002 Assignment 2 of 2#page4.tif	

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PATENT ASSIGNMENT

This assignment is made by CompuServe Incorporated, a corporation organized under the laws of the State of Ohio, having a place of business at 5000 Arlington Centre Boulevard, Columbus, Ohio 43220 ("ASSIGNOR"), to America Online, Inc., a corporation organized under the laws of the State of Delaware, having a place of business at 22000 AOL Way, Dulles, Virginia 20166 ("ASSIGNEE").

Any and all notices in connection with the subject matter of this Assignment are to be directed as follows:

For ASSIGNEE to:  
America Online, Inc.  
22000 AOL Way  
Dulles, Virginia 20166  
Attention: General Counsel

For ASSIGNOR to:  
Martina W. Knee, Esq.  
UUNET Technologies, Inc.  
3060 Williams Drive  
Fairfax, Virginia 22031

FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer to ASSIGNEE its entire right, title and interest, together with all rights of priority, in and to the patents and patent applications outlined in attached Exhibit "A." ASSIGNOR further does hereby sell, assign and transfer to ASSIGNEE its entire right, title and interest, together with all rights of priority, in and to ASSIGNOR'S inventions as described and/or claimed in any and all applications for patents based on the inventions to which such patent and patent applications relate, including divisionals, continuations, renewals, substitutes and reissues thereof, and all rights of priority resulting from any such patents and patent applications, as well as all foreign counterparts and extensions thereof, together with all patents issuing on any of said applications for the full terms of all of the patents which may be granted on such inventions.

ASSIGNOR hereby authorizes ASSIGNEE to make applications for, to prosecute such applications, and to receive patents for such inventions in the United States and any foreign countries, in ASSIGNEE'S name.

ASSIGNOR HEREBY AGREES to take all actions, and to execute and deliver all additional instruments and documents, as ASSIGNEE may reasonably request for the purpose of carrying out this assignment and the transactions contemplated herein including, but not limited to, all instruments and documents necessary to transfer the patents and the patent applications referred to herein in the United States and any foreign countries.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for the inventions, resulting from any of the aforesaid applications to the ASSIGNEE.

IN WITNESS WHEREOF, said ASSIGNOR has caused this Patent Assignment to be executed this 31st day of January, 1998.

COMPUSERVE INCORPORATED

By: Martina W. Knee  
Martina W. Knee, Secretary

WASHINGTON, D.C.

SS.

Before me personally appeared Martina W. Knee, to me known to be the same person described in and who executed the foregoing instrument as authorized on behalf of the Assignor, and acknowledged that she executed the same, of her own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence as of this 31st day of January, 1998.

Phyllis J. Ferguson  
Notary Public

PHYLLIS T. FERGUSON  
Notary Public, District of Columbia  
My Commission Expires February 28, 2002

# EXHIBIT "A"

U.S. PATENT

TITLE	U.S. PAT. NO. and ISSUE DATE	PCT APP. NO. and FILING DATE
<p>SYSTEM FOR PROVIDING CLOSED CAPTIONING TO AN ELECTRONIC DISCUSSION GROUP (System for providing transcription of dialog on a television program [closed captioning] and video clips from a media program to an electronic discussion group while the program is in progress.)</p>	<p>5,563,804  3/10/95</p>	<p>PCT/US96/03176  3/8/96</p>
<p>SYSTEM FOR PROVIDING CLOSED CAPTIONING TO AN ELECTRONIC DISCUSSION GROUP . (System for providing transcription of dialog on a television program [closed captioning] and video clips from a media program to an electronic discussion group while the program is in progress.)</p>	<p>5,615,131  3/25/97</p>	
<p>ROYALTY TRACKING METHOD (System and method for inserting tracking tags into an unused portion of an electronic file to track copying of a file for purposes of royalty payments.)</p>	<p>5,649,013  7/15/97</p>	
<p>IMPROVED SYSTEM FOR PARALLEL FOREIGN LANGUAGE COMMUNICATION OVER A COMPUTER NETWORK (System incorporating Machine Translation technology to support parallel electronic discussion groups such discussions in each group occur in a different language but involve identical content.)</p>	<p>5,715,466  2/3/98</p>	

**U.S. PATENT APPLICATIONS**

TITLE	U.S. PAT. SERIAL NO. and FILING DATE	PCT APP. NO.
LASER CD ICON FOR DISPLAY SCREEN (Design Patent)	29/028,935 9/26/94	
GLOBE ICON FOR DISPLAY SCREEN (Design Patent)	29/029,597 10/11/94	
SYSTEM FOR REAL TIME SHOPPING (System for accessing information regarding products and services through a computer network with optional real-time updates of information directly from a plurality of vendors computers.)	Serial No. Not yet received (FWC of U.S. Patent Application Serial No. 08/337,097 filed 11/10/94) 11/17/97	
SYSTEM FOR REAL TIME ACCESS TO REFERENCE INFORMATION (System for accessing reference information through a computer network with optional real-time updates of information directly from a plurality of vendors computers.)	Serial No. Not yet received (FWC of U.S. Patent Application Serial No. 08/337,099 filed 11/10/94) 11/26/97	
SYSTEM INTEGRATION OF INTERNET RESOURCES (System for seamlessly searching and accessing information available through the Internet and other information resources. A database of file objects available from numerous sources is maintained updated periodically to ensure accuracy and completeness.)	Serial No. Not yet received (FWC of U.S. Patent Application Serial No. 08/476,711 filed 6/7/95) 11/10/97	
AUTHENTICATION USING RANDOM CHALLENGES (System and for authenticating one or both of two parties [e.g., a user and a host computer] using a challenge-response technique with an extra value within a pre-determined range of values. A party receiving a response attempts to match the response by generating responses based on each of the possible values for the extra value.)	Serial No. Not yet received (FWC of U.S. Patent Application Serial No. 08/482,013 filed 6/7/95) 11/8/97	
SCALE ICON FOR DISPLAY SCREEN (Design Patent)	29/044,141 9/19/95	

TITLE	U.S. PAT. SERIAL NO. and FILING DATE	PCT APP. NO.
<p><b>INTEGRATED MULTILINGUAL BROWSER</b>            (System for translating HTML documents available through the World Wide Web into using machine translation software bundled in a browser. Alternatively, documents are retrieved as needed, translated, and stored on a Web server so user requests are serviced with a document that has been translated from a different language.)</p>	<p>08/555,916  1/13/95</p>	<p>PCT/US96/18102  11/13/96</p>
<p><b>SYSTEM FOR NAVIGATING AN INFORMATION SERVICE</b>            (System for navigating an online information system such that subscribers provide topic and action preferences to traverse to a customized content area in which related tasks may be completed. Customized content areas are reached after subscribers make three or fewer selections. Paths to customized content areas are similar for all combinations of topics and actions so subscribers learn quickly how to navigate to any area of the information service.)</p>	<p>08/590,929  1/24/96</p>	<p>PCT/US97/01082  1/24/97</p>
<p><b>ON-LINE INFORMATION SERVICE SYNCHRONIZATION SYSTEM</b>            (System for synchronizing information delivery systems that support two or more information services. The flow of information between information delivery systems is managed such that subscribers of one information service may access the information repository of other information services using presentation software with which they are familiar.)</p>	<p>08/596,774  2/5/96</p>	
<p><b>SYSTEM FOR DIRECT E-MAIL MARKETING</b>            (System and method for distributing unsolicited, electronic marketing messages to members of an online service. Marketers create marketing messages and specify selection criteria regarding the members to whom they would like to direct their messages. The online service then distributes the marketing messages to the members who indicate an interest through profile information.)</p>	<p>08/601,449  2/14/96</p>	



TITLE	U.S. PAT. SERIAL NO. and FILING DATE	PCT APP. NO.
<p><b>SYSTEM FOR INTEGRATING ACCESS TO PROPRIETARY AND INTERNET RESOURCES</b> (System for integrating through a single client application access to information resources from a proprietary online service and the Internet. Information is retrieved from the Internet using the Uniform Resource Locator (URL) addressing scheme and from the online service using extensions to the URL addressing scheme.)</p>	<p>08/614,395 3/12/96</p>	<p>PCT/US97/03834 3/12/97</p>
<p><b>SYSTEM FOR DEVELOPING USER INTERFACE THEMES</b> (System for tailoring a computer information service user interface to meet the needs and interests of a portion of the subscriber base. Display characteristics are defined in accordance with a theme and are embodied in a dynamic linked library so that a theme may be selected when a subscriber initiates a session with the information service.)</p>	<p>08/614,439 3/12/96</p>	<p>PCT/US97/03833 3/12/97</p>
<p><b>SYSTEM FOR REMOTE MICROCOMPUTER ACCESS AND MODIFICATION OF INFORMATION IN HOST COMPUTER</b> (System and method for managing communications between a microcomputer and a host computer. A protocol supports a plurality of applications that provide user-level functionality. The protocol uses PDU encapsulation of data to service user requests for information or services for each of the defined applications. Display and presentation of information is managed by the microcomputer.)</p>	<p>08/627,913 (FWC of U.S. Patent Application Serial No. 08/097,849 filed 7/27/93) 4/2/96</p>	
<p><b>SYSTEM FOR CUSTOMIZING COMPUTER DISPLAYS IN ACCORDANCE WITH USER PREFERENCES</b> (System for customizing content and presentation of content for computer users is disclosed. Displays are customized in accordance with the user's needs and preferences which are monitored and recorded as a user navigates an online service. In a preferred embodiment, an electronic marketing and shopping system accessible via the WWW is described.)</p>	<p>08/654,529 5/29/96</p>	

TITLE	U.S. PAT. SERIAL NO. and FILING DATE	PCT APP. NO.
<p>SYSTEM FOR PARALLEL FOREIGN LANGUAGE COMMUNICATION OVER A COMPUTER NETWORK (System incorporating Machine Translation technology to support parallel electronic discussion groups such discussions in each group occur in a different language but involve identical content.)</p>	<p>08/745,222 (FWC of U.S. Patent Application Serial No. 08/388,630 filed 2/14/95) 11/8/96</p>	<p>PCT/US96/01904 2/14/96</p>
<p>SYSTEM FOR INTEGRATING AN ON-LINE SERVICE COMMUNITY WITH A FOREIGN SERVICE (System and method for integrating an on-line service community with a foreign service such as the Internet World Wide Web. Subscribers access a membership module to complete a membership process in which they join communities which may be accessed through a toolbar and a viewer on a computer user's screen that work in conjunction with a browser.)</p>	<p>08/745,294 11/8/96</p>	
<p>COMPUTER TELEPHONY AND MESSAGING SYSTEM WITH MULTIPLE INTERFACES (System and method for cross-media messaging through a telephone or computer interface. Internet technology and telecommunications services are integrated to provide subscribers with access to personal, universal mailboxes that contain voice, fax, and e-mail messages as well as customized information.)</p>	<p>08/751,686 (Continuation-in-part of U.S. Patent App. Serial No. 08/665,564 filed 6/18/96) 11/18/96</p>	
<p>SYSTEM FOR PROVIDING CLOSED CAPTIONING TO AN ELECTRONIC DISCUSSION GROUP (System for providing transcription of dialog on a television program (closed captioning) and video clips from a media program to an electronic discussion group while the program is in progress.)</p>	<p>08/788,927 (Continuation of U.S. Patent App. Serial No. 08/667,444) 1/24/97</p>	
<p>MUSIC CONFERENCING SYSTEM (System for playing MIDI compositions to subscribers of an online information service. Subscribers who have computers equipped with sound cards capable of playing MIDI data may participate in an online session to hear the composition of another subscriber as it is being played.)</p>	<p>08/790,548 (Priority from Provisional Patent App. Serial No. 60/010,831) 1/30/97</p>	

TITLE	U.S. PAT. SERIAL NO. and FILING DATE	PCT APP. NO.
<p><b>SYSTEM FOR REAL TIME FINANCIAL MANAGEMENT</b> (System for accessing financial information through a computer network with optional real-time updates of information directly from a plurality of financial service providers' computers.)</p>	<p>Serial No. not yet received. (FWC of U.S. Patent Application Serial No. 08/318,365 filed 11/5/94)  5/27/97</p>	
<p><b>SYSTEM FOR REAL TIME ACCESS TO TRAVEL INFORMATION</b> (System for accessing travel information through a computer network with optional real-time updates of information directly from a plurality of travel service providers' computers.)</p>	<p>08/870,843 (FWC of U.S. Patent Application Serial No. 08/337,168 filed 11/10/94)  6/6/97</p>	
<p><b>DATA COMPRESSION USING SELECTIVE ENCODING</b> (Method for data compression that uses selective encoding. A block of data is compressed using a combination of the LZ77 and Huffman coding techniques.)</p>	<p>Serial No. not yet received (FWC of U.S. Patent Application Serial No. 08/477,232 filed 6/7/95)  8/22/97</p>	
<p><b>SYSTEM FOR AUTOMATED TRANSLATION OF SPEECH</b> (System and method that allows subscribers to an online information service to participate in real-time conferencing or chat sessions in which a message originating from a subscriber in accordance with a first language is translated to one or more languages before it is broadcast to the other conference areas.)</p>	<p>Serial No. not yet received  10/29/97</p>	

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