

US008117644B2

(12) United States Patent Chaganti et al.

(54) METHOD AND SYSTEM FOR ONLINE DOCUMENT COLLABORATION

- (75) Inventors: Naren Chaganti, Town & Country, MO
 (US); Sitapathi Rao Chaganti, Nellore
 (IN); Damayanti Chaganti, Nellore (IN)
- (73) Assignee: **Pennar Software Corporation**, Alexandria, VA (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 12/799,945
- (22) Filed: May 5, 2010

(65) Prior Publication Data

US 2011/0004943 A1 Jan. 6, 2011

Related U.S. Application Data

- (63) Continuation-in-part of application No. 09/478,796, filed on Jan. 7, 2000, now Pat. No. 6,845,448.
- (51) Int. Cl.

DOCKE

RM

- *H04L 29/06* (2006.01)
- (52) U.S. Cl. 726/2; 726/3; 726/4; 713/182
- (58) **Field of Classification Search** None See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,956,769 A * 9/1990 Smith 70 5,144,557 A * 9/1992 Wang et al. 70 5,204,897 A 4/1993 Wyman 710 5,241,466 A * 8/1993 Perry et al. 70 5,267,314 A 11/1993 Stambler 70 5,276,901 A * 1/1994 Howell et al. 70 5,355,474 A 10/1994 Thuraisngham 395/	07/9 /200 05/1 07/9
5,355,474 A 10/1994 Thuraisngham 395/ 5,428,778 A 6/1995 Brookes	600

(10) Patent No.: US 8,117,644 B2 (45) Date of Patent: Feb. 14, 2012

5,524,073 A 5,555,303 A 5,621,727 A 5,644,711 A	6/1996 9/1996 * 4/1997 * 7/1997	Stambler Vaudreuil 370/60 Murphy 713/201				
5,646,998 A	7/1997	Stambler				
(Continued)						

OTHER PUBLICATIONS

Moozakis, Chuck "Internet Printing Takes Hold" dated Sep. 29, 1998, online article, Retrieved from the Internet on Aug. 10, 2000, URL:http://www.internetwrk.cominews0998/news092998-1.htm.*

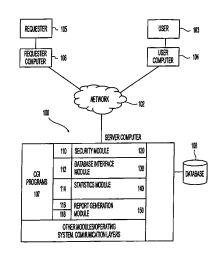
(Continued)

Primary Examiner - Benjamin Lanier

(57) ABSTRACT

A method and system for online document collaboration includes the steps of establishing on a server computer coupled to the Internet an account for each of a plurality of users; storing on the server computer a document created by a first user; associating a set of access restrictions with the document, said access restrictions including an ability to access the document for modification by one of a first group of users, said first group of users being users whose identities are known to the server computer; receiving, from a second user, a request to modify the document, wherein said request to modify accompanies the second user's identification information; verifying the identity of the second user; permitting the second user to modify the document based on a set of access rights granted to the second user; receiving approval or disapproval for the modifications from one or more users; and storing identifying information of the one or more users who approved or disapproved the modifications to the document. In alternative embodiments, the method further includes the step(s) of storing the modified document, storing the identity of the user who modified the document, notifying one or more members of a group if the document is modified or transmitting the modified document to one or more members of a group.

11 Claims, 8 Drawing Sheets



U.S. PATENT DOCUMENTS

	A *	1/1998	Beauregard et al 345/429
5,765,152	Α	6/1998	Erickson 1/1
5,767,853	A *	6/1998	Yoshida et al 345/839
5,793,302	Α	8/1998	Stambler
5,832,208	A *	11/1998	Chen et al 726/24
5,931,901	Α	8/1999	Wolfe 709/206
5,936,541	Α	8/1999	Stambler
5,974,148	Α	10/1999	Stambler
6,005,939	A *	12/1999	Fortenberry et al 705/76
6,042,519	Α	3/2000	Shea 482/57
6,073,106	A *	6/2000	Rozen et al 707/9 X
6,076,109	Α	6/2000	Kikinis 709/228
6,092,080	Α	7/2000	Gustman 707/103
6,148,342	A *	11/2000	Но 709/225
6,175,831	B1	1/2001	Weinreich 1/1
6,181,803	B1	1/2001	Davis
6,275,937	B1 *	8/2001	Hailpern et al 713/188
6,321,334	B1	11/2001	Jerger et al 713/200
6,367,012	B1	4/2002	Atkinson 713/176
6,405,195	B1 *	6/2002	Ahlberg 709/219
6,453,305	B1	9/2002	Glassman 705/59
6,477,580	B1 *	11/2002	Bowman-Amuah 709/231
6,505,160	B1	1/2003	Levy 704/270
6,507,865	B1 *	1/2003	Hanson et al 705/36 R
6,662,343	B1 *	12/2003	Gebauer 715/517
6,792,458	B1 *	9/2004	Muret et al 709/224
6,882,793	B1 *	4/2005	Fu et al 386/241
7,058,696	B1 *	6/2006	Phillips et al 709/217
7,155,737	B1 *	12/2006	Lim et al 726/2
7,167,904	B1 *	1/2007	Devarajan et al 709/218
7,243,079	B1 *	7/2007	Manolis et al 705/26.81
7,353,199	B1 *	4/2008	DiStefano, III 705/37
2001/0031066	A1	10/2001	Meyer
2002/0059402	A1	5/2002	Belanger 709/220
2002/0069272	A1*	6/2002	Kim et al 709/221
2004/0021686	A1 $*$	2/2004	Barberis 345/738

OTHER PUBLICATIONS

3Com, "ReachOut Remote Control Host User's Guide", Jun. 1996, 3Com, pp. 1-63.*

3Com, "ReachOut Remote Control Viewer User's Guide", May 1996, 3Com, pp. 1-57.*

PR Newswire, "STAC's New ReachOut 6.0 for Windows 95 Delivers Worldwide Web Browser Access to Your Desktop Files," Jun. 24, 1996, PR Newswire Association, Inc., p624LAM022.*

Mike Fratto, "Stec ReachOut 7.0 Adapts to New Paradigms," Mar. 1997, Networkcomputing.com, pp. 3-5.*

Rolf Blom, Mats Näslund, and Göran Selander, Object Security and Personal Information Management, Apr. 27, 2001.

Naren Chaganti, "Integrating Electronic Message Handling Systems with Databases: A Security Perspective," Masters Thesis, The University of Texas at Arlington, Texas, May 1992.

Naren Chaganti, "Integrating Electronic Message Handling Systems with Databases: A Security Perspective", Masters Thesis, May 1992, The University of Texas at Arlington, Arlington, TX.

Chuck Moozakis, "Internet Printing Takes Hold," dated Sep. 29, 1998, published in the Internet Week, available at http://www. internetwk.com/news0998/news092998-1.htm, provided by the Examiner in an office Action dated Aug. 10, 2000 of a parent application.

Kelso, "Final Report om the National Integration Resource Center Task Force-The Lisle Report," Apr. 19, 1999, retrieved on Sep. 14, 2000 from http://www.ojp.usdoj.gov/integratedjustice/lisle-fn.htm. Kendall, et al., "Privacy Impact Assessment for Justice Information Systems," Working Paper, Jul. 5, 2000, retrieved on Sep. 14, 2000 from http://www.ojp.usdoj.gov/integratedjustice/piajis.htm, pp. 30-31.

Gardner, "Office of Justice Programs, Integrated Justice Privacy Initiative," Apr. 12, 2000, retrieved on Sep. 14, 2000 from http://www. ojp.usdoj.gov/integratedjustice/bp3.htm.

Cavoukian, et al., "Privacy Design Principles for an Integrated Justice System," Working Paper, Apr. 5, 2000, retrieved on Sep. 14, 2000 from http://www.ojp.usdoj.gov/integratedjustice/pdpapril.htm.

J. Michael Murphy, "Privacy Protection-A New Beginning?" 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco. org.hk/conproceed.html.

Ann Cavoukian, "Privacy and Biometrics," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed. html

Lorrie Faith Cranor, "Agents of Choice: Tools That Facilitate Notice and Choice About Web Site Data Practices," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed. html.

Austin Hill, "The Privacy Risks of Public Key Infrastructures, 21st International Conference on Privacy and Personal Data Protection", Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco. org.hk/conproceed.html.

Armgard Von Reden, Data Protection Activities in the Private Sector, 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www. pco.org.hk/conproceed.html.

Nigel Waters, "Re-Thinking Information Privacy—A Third Way in Data Protection?", 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html. Hansjuergen Garstka, "The International Working Group on Data

Protection in Telecommunications: Common Positions Adopted on Selected Emerging Global Issues," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html.

Deborah Hurley, "A Whole World in One Glance: Privacy as a Key Enabler of Individual Participation in Democratic Governance", 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco. org.hk/conproceed.html.

Robert Gellman, "Public Registers and Privacy: Conflicts with Other Values and Interests," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html.

Blair Stewart, "Five Strategies for Addressing Public Register Privacy Problems," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html.

David Banisar, "Privacy and Data Protection Around the World," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco. org.hk/conproceed.html.

Alfred Bullesbach, "Data Protection and Privacy at a Global Enterprise," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http:// www.pco.org.hk/conproceed.html.

Anne Carblanc, "Activities of the OECD-1997-2000-Global Privacy Protection Builds Trust in Electronic Commerce Global Networks", 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http:// www.pco.org.hk/conproceed.html.

Philip E. Agre, "Imagining Surveillance: Notes on 1984 and Enemy of the State," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html. Roger Clarke, "Person-Location and Person-Tracking: Technolo-

gies, Risks and Policy Implications," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html

Simon Davies, "Big Brother at the Box Office-Electronic Visual Surveillance and the Big Screen," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html.

Paul F. Kendall, "Gathering, Analysis and Sharing of Criminal Jus-tice Information by Justice Agencies: The Need for Principles of Responsible Use," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html.

Souheil El Zein, "Reconciling Data Protection Regulations with the Requirements of Judicial and Police Co-operation," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/ conproceed.html.

Bart De Schutter, International Police Co-operation and Privacy Protection, 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http:// www.pco.org.hk/conproceed.html.

David H. Flaherty, "Balancing Open Government and Privacy Protection," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http:// www.pco.org.hk/conproceed.html.

Michel Gentot, "Access to Information and Protection of Personal Data," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http:// www.pco.org.hk/conproceed.html.

Bruno Baeriswyl and Peter Heinzmann, "Privacy Audits with External Experts—Cooperation or Attack?", 21st international Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed. html.

Stephen Wolley, "Data Security and Privacy Audits Adding Value to the Organisation," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html.

David Flaherty, "How to Do a Privacy and Freedom of Information Act Site Visit," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html. Jane Elizabeth Kirtley, "Privacy and the News Media—A Question of Trust, or of Control?," 21st Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http:// www.pco.org.hk/conproceed.html.

Raymond Wacks, "Privacy Reconceived: Personal Information and Free Speech," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html.

Pamela W.S. Chan, "Consumer Rights and Electronic Commerce," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www. pco.org.hk/conproceed.html.

Alan Westin, "Consumers, E-Commerce, and Privacy: US, UK and Germany," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/conproceed.html.

Jon Bing, "Data Protection, Jurisdiction and the Choice of Law," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco. org.hk/conproceed.html.

Graham Greenleaf, "'IP, Phone-Home' ECMS, ©-tech, and Protecting Privacy Against Surveillance Digital Works," 21st International Conference on Privacy and Personal Data Protection, Sep. 13-14, 1999, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/ conproceed.html.

Privacy Commissioner's Office—What's New, retrieved on Sep. 14, 2000 from http://www.pco.org.hk/old_press.html, pp. 1-3.

* cited by examiner

Α

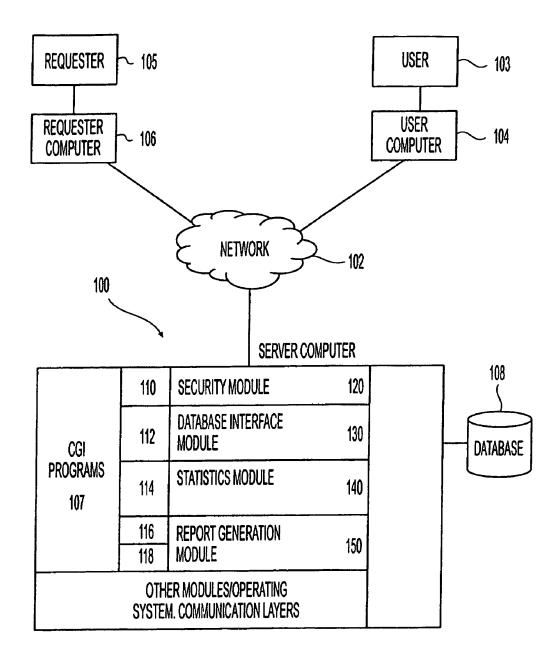


Fig. 1

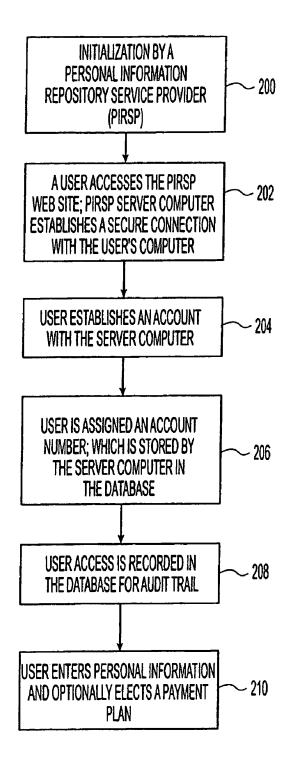
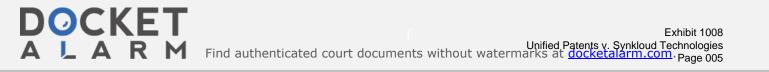


Fig. 2a



DOCKET A L A R M



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.