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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/339,301	01/25/2006	Johann Tomas Sigurdsson	GP-770-00-US

CONFIRMATION NO. 7556

POA ACCEPTANCE LETTER

94724
Google LLC (prev PLW)
1600 Amphitheatre Parkway
Mountain View, CA 94043



Date Mailed: 10/07/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/01/2021.

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

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/mbeyene/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-0094001

26192
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

CONFIRMATION NO. 7556
POWER OF ATTORNEY NOTICE



Date Mailed: 10/07/2021

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/01/2021.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71.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

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/mbeyene/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P.O. Box 1540
Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OR ATTORNEY

Under 37 CFR §3.73(b) Google LLC, a Delaware limited liability company, certifies that the assignee of 100% of the right, title, and interest in the patent applications listed on the attached Appendix (Table 1) by virtue of assignments, including assignments from inventors of the patent applications. The assignments for these patent applications were recorded in the Patent and Trademark Office on the Reel and Frame numbers provided in the Appendix (Table 1).

The undersigned, acting on behalf of the assignee, is empowered to act on behalf of the assignee and hereby revokes all powers of attorney previously granted in the applications and appoints the practitioners associated with **PTO Customer Number 94724** to prosecute the application and to transact all business in the United States Patent and Trademark Office Connected therewith.

All correspondence regarding these applications should be sent to **PTO Customer Number 94724**.

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

Date: 10/1/2021

Respectfully submitted,

DocuSigned by:

Michael Lee

3EA0F750F3E74B3...

Name: Michael Lee

Title: Authorized Signatory of Google LLC

Table 1

Reference Number	Serial Number	Patent Number	Recordation Date Reel/Frame
GP-770-00-US	11339301	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/19/2006, R / FR 017509 / 0301 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-652-00-US	11344589	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/19/2006, R / FR 017509 / 0297 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-172-00-US	10702120	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/13/2006, R / FR 017184 / 0058 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-077-01-US	10675725	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/03/2005, R / FR 016188 / 0361 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-179-00-US	10750180	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/08/2004, R / FR 015114 / 0581 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-5587-02-US	13231642	None	FROM INVENTOR(S) TO WAVII, INC.: REC 12/14/2011, R / FR 027414 / 0328 FROM WAVII, INC. TO GOOGLE INC.: REC 06/07/2013, R / FR 030570 / 0974 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-5587-01-US	13231637	None	FROM INVENTORS TO WAVII, INC.: REC 12/14/2011, R / FR 027414 / 0268 FROM WAVII, INC. TO GOOGLE INC.: REC 06/07/2013, R / FR 030570 / 0974 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4042-00-US	12792704	None	FROM INVENTOR(S) TO LIKE.COM: REC 07/13/2010, R / FR 024675 / 0986 FROM LIKE.COM TO GOOGLE INC.: REC 08/28/2012, R / FR 028862 / 0105 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10256-00-US	13529563	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/04/2012, R / FR 028893 / 0349 FROM INVENTOR(S) TO GOOGLE INC.: REC 09/04/2012, R / FR 028904 / 0130 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10379-00-US	13531030	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/28/2012, R / FR 028458 / 0278 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-610-00-US-CO N	12818975	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 11/11/2015, R / FR 037014 / 0429 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-22788-00-US	14807801	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/25/2015, R / FR 036409 / 0338 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-20101-00-US	14597158	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/20/2015, R / FR 036377 / 0580 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10655-00-US	13596771	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/26/2015, R / FR 035263 / 0146 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-19252-00-US	14141231	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/01/2014, R / FR 033863 / 0069 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-18070-00-US	14139620	9692831	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/29/2014, R / FR 033838 / 0757 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-19995-01-US	14139666	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/12/2014, R / FR 032870 / 0518 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4487-00-US	14188894	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/01/2014, R / FR 032801 / 0669 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052

GP-11691-00-US-C ON	14262930	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/28/2014, R / FR 032771 / 0414 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-176-00-US-CO N	13617554	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/25/2014, R / FR 032762 / 0552 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10454-00-US-C ON	14182423	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/06/2014, R / FR 032365 / 0974 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-554-00-US-CO N	14163306	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/24/2014, R / FR 032040 / 0910 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-854-02-US-CO N	13915951	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/10/2013, R / FR 031754 / 0866 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13451-00-US	13840901	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 11/12/2013, R / FR 031586 / 0217 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-19261-00-US	14070388	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 11/01/2013, R / FR 031544 / 0874 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-17833-00-US	13843372	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 11/01/2013, R / FR 031529 / 0402 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14948-00-US	13833375	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/18/2013, R / FR 031438 / 0876 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-19098-00-US	14024147	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/16/2013, R / FR 031414 / 0459 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-19331-00-US	14047419	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/07/2013, R / FR 031356 / 0619 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-18835-00-US	14045533	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/03/2013, R / FR 031341 / 0794 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14212-00-US	13726951	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/16/2013, R / FR 031213 / 0735 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-17823-00-US	13926972	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/14/2013, R / FR 031207 / 0835 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-18836-00-US	14024184	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/11/2013, R / FR 031185 / 0926 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16616-00-US	14018101	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/04/2013, R / FR 031157 / 0134 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14370-00-US	13940466	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/13/2013, R / FR 030995 / 0069 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14861-00-US	13842656	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/02/2013, R / FR 030930 / 0849 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-18276-00-US	13933257	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/31/2013, R / FR 030915 / 0951 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-18274-00-US	13933209	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/30/2013, R / FR 030903 / 0525 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-18275-00-US	13933224	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/30/2013, R / FR 030903 / 0411 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-11438-00-US	13689459	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/12/2013, R / FR 030788 / 0288 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052

GP-3572-00-US-C ON	13932504	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/11/2013, R / FR 030780 / 0264 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2076-00-US-C ON	13890117	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/24/2013, R / FR 030674 / 0950 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-5283-00-US	13494561	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/11/2013, R / FR 030591 / 0235 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-17973-00-US	13803357	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/20/2013, R / FR 030445 / 0060 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16881-00-US	13796369	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/16/2013, R / FR 030428 / 0507 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-18138-00-US	13803367	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/14/2013, R / FR 030410 / 0277 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14626-00-US	13668424	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/09/2013, R / FR 030387 / 0140 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-588-06-US-CO N	13620193	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/09/2013, R / FR 030386 / 0324 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16580-00-US	13779000	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/08/2013, R / FR 030377 / 0737 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14560-00-US	13654984	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/08/2013, R / FR 030377 / 0479 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-17109-00-US	13800689	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/08/2013, R / FR 030370 / 0893 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-17109-00-US-C ON2	13801769	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/08/2013, R / FR 030370 / 0745 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10573-00-US	13796608	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/03/2013, R / FR 030348 / 0807 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16862-00-US	13800346	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/29/2013, R / FR 030304 / 0030 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-17609-00-US	13781528	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/26/2013, R / FR 030300 / 0994 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10495-00-US	13651688	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/25/2013, R / FR 030288 / 0860 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16613-00-US	13750354	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/24/2013, R / FR 030281 / 0118 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13360-00-US	13676230	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/24/2013, R / FR 030280 / 0964 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-15397-00-US	13728419	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/19/2013, R / FR 030251 / 0763 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16986-00-US	13830035	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/17/2013, R / FR 030235 / 0375 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-11885-00-US	13788773	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/16/2013, R / FR 030227 / 0831 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13440-00-US	13627443	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/16/2013, R / FR 030221 / 0767 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052

GP-15351-00-US	13797600	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/16/2013, R / FR 030220 / 0270 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4394-00-US	13830364	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/12/2013, R / FR 030202 / 0080 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13876-00-US	13765975	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/10/2013, R / FR 030184 / 0031 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10500-00-US	13759597	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/04/2013, R / FR 030154 / 0864 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2658-00-US-C ON	13617198	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/04/2013, R / FR 030150 / 0548 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4392-00-US	13729406	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/03/2013, R / FR 030146 / 0795 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4998-00-US-CI P	13223114	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/01/2013, R / FR 030127 / 0492 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-11300-00-US	13796936	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/28/2013, R / FR 030120 / 0304 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14864-00-US	13842415	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/27/2013, R / FR 030100 / 0343 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16989-00-US	13797270	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/12/2013, R / FR 029976 / 0961 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-11617-00-US	13792819	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/11/2013, R / FR 029965 / 0618 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13144-00-US	13788929	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/07/2013, R / FR 029945 / 0088 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16576-00-US	13786170	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/05/2013, R / FR 029929 / 0017 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-17281-00-US	13771918	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 02/20/2013, R / FR 029842 / 0868 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13715-00-US	13766554	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 02/14/2013, R / FR 029810 / 0774 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-15384-00-US	13663633	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 02/01/2013, R / FR 029739 / 0806 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10434-00-US	13665126	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 02/01/2013, R / FR 029736 / 0600 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13410-00-US	13723426	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/29/2013, R / FR 029715 / 0311 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13486-00-US	13725276	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/11/2013, R / FR 029612 / 0539 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10144-00-US	13604109	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/08/2013, R / FR 029585 / 0782 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-15595-00-US	13728554	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/27/2012, R / FR 029535 / 0301 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-16429-00-US	13720897	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/20/2012, R / FR 029507 / 0108 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052

GP-15433-00-US	13605409	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/06/2012, R / FR 029416 / 0572 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4997-00-US-C ON	13620484	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 11/09/2012, R / FR 029274 / 0786 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13726-00-US	13665780	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 11/02/2012, R / FR 029236 / 0568 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13988-00-US	13617260	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/02/2012, R / FR 029060 / 0923 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14514-00-US	13632654	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/01/2012, R / FR 029056 / 0162 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14044-00-US	13536598	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/28/2012, R / FR 029046 / 0709 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-3689-00-US	13187139	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/26/2012, R / FR 029031 / 0666 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-15167-00-US	13622232	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/24/2012, R / FR 029010 / 0430 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-15167-01-US	13622227	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/24/2012, R / FR 029010 / 0305 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13411-00-US	13619936	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/14/2012, R / FR 028993 / 0631 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4997-00-US	13593420	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/12/2012, R / FR 028943 / 0487 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-12427-00-US	13606425	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/07/2012, R / FR 028919 / 0637 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-15349-00-US	13593455	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/27/2012, R / FR 028855 / 0791 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-11190-00-US	13594457	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/27/2012, R / FR 028851 / 0006 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-652-00-US-CO N	13242707	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/20/2012, R / FR 028810 / 0157 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10494-00-US	13564882	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/16/2012, R / FR 028795 / 0851 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10516-00-US	13486036	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/01/2012, R / FR 028698 / 0769 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14128-00-US	13533880	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/31/2012, R / FR 028688 / 0946 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-15168-00-US	13560673	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/27/2012, R / FR 028661 / 0368 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10633-00-US	13545749	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/13/2012, R / FR 028548 / 0041 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13989-00-US	13495596	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/06/2012, R / FR 028509 / 0361 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-172-00-US-CO N	13529555	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/09/2012, R / FR 028509 / 0129 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052

GP-10003-00-US	13473868	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/06/2012, R / FR 028498 / 0455 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1646-00-US-DI V	13247667	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/22/2012, R / FR 028429 / 0342 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-970-00-US-CO N	13188422	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/21/2012, R / FR 028421 / 0283 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14294-00-US	13485731	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/19/2012, R / FR 028405 / 0586 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-743-00-US	13357475	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/08/2012, R / FR 028387 / 0250 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13727-00-US	13491547	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/08/2012, R / FR 028347 / 0513 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-14084-00-US	13464444	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/07/2012, R / FR 028335 / 0621 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-12422-00-US	13481619	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/25/2012, R / FR 028273 / 0837 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-12429-00-US	13480728	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/25/2012, R / FR 028270 / 0148 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13503-00-US	13410036	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/18/2012, R / FR 028236 / 0261 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-13546-00-US	13467463	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/09/2012, R / FR 028181 / 0814 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2284-00-US	13190359	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/04/2012, R / FR 028161 / 0804 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1687-00-US-C ON	13301125	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/20/2012, R / FR 028078 / 0996 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2285-00-US	13307600	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/10/2012, R / FR 028022 / 0772 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4879-00-US	13411097	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/05/2012, R / FR 027998 / 0604 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2342-00-US	12903667	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/29/2011, R / FR 027458 / 0128 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-3247-00-US	13299202	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/21/2011, R / FR 027427 / 0398 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-11855-00-US	13316940	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/12/2011 R / FR 027369 / 0347 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-5429-00-US	13312247	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/09/2011, R / FR 027358 / 0465 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4909-00-US	13301607	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 11/29/2011, R / FR 027293 / 0053 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2746-00-US	13228281	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/13/2011, R / FR 027055 / 0059 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-3264-00-US	13153370	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/26/2011, R / FR 026813 / 0827 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052

GP-515-10-US-CO N	13174300	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/16/2011, R / FR 026602 / 0871 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-3016-00-US	13170454	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/06/2011, R / FR 026549 / 0022 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4627-00-US	13075069	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/05/2011, R / FR 026545 / 0835 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4215-00-US	13102931	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/22/2011, R / FR 026486 / 0137 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2908-00-US	13097363	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/24/2011, R / FR 026329 / 0033 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-4050-00-US	13077596	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/18/2011, R / FR 026300 / 0762 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-5249-00-US	13105679	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/11/2011, R / FR 026263 / 0505 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-3505-00-US	13030019	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/07/2011, R / FR 025912 / 0661 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2363-00-US	13517241	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/04/2011, R / FR 025901 / 0945 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2435-00-US	12909809	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/03/2011, R / FR 025898 / 0925 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2893-00-US	12979500	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/13/2011, R / FR 025628 / 0722 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2491-00-US	12847017	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/30/2010, R / FR 024905 / 0133 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2410-00-US	12770602	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 08/12/2010, R / FR 024828 / 0735 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2481-00-US	12824428	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/23/2010, R / FR 024734 / 0351 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2098-00-US	12717475	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/19/2010, R / FR 024709 / 0047 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2486-00-US	12770859	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/24/2010, R / FR 024589 / 0411 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2149-01-US	12763489	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/03/2010, R / FR 024480 / 0646 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2352-00-US	12771839	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/19/2010, R / FR 024412 / 0283 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2076-00-US	12717064	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/07/2010, R / FR 024201 / 0920 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2667-00-US	12684708	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/22/2010, R / FR 024118 / 0323 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-2452-00-US	12710012	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 02/23/2010, R / FR 023974 / 0786 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1596-00-US	12988078	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/08/2010, R / FR 023754 / 0375 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052

GP-1971-00-US	12618538	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/04/2010, R / FR 023729 / 0841 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1643-00-US	12495013	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/18/2009, R / FR 023253 / 0644 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1925-00-US	12432586	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/15/2009, R / FR 023236 / 0603 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1635-00-US	12245436	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 06/29/2009, R / FR 022889 / 0243 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1644-00-US	12194489	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 04/09/2009, R / FR 022544 / 0539 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1953-00-US	12362464	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 02/02/2009, R / FR 022189 / 0654 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1647-00-US	12268222	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/03/2008, R / FR 021923 / 0141 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1801-00-US	12180721	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/28/2008, R / FR 021302 / 0400 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1322-00-US	12145461	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/14/2008, R / FR 021234 / 0965 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1331-00-US	11972856	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 02/11/2008, R / FR 020489 / 0522 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-436-00-US	11097773	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 07/20/2007, R / FR 019584 / 0397 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1048-00-US	11624117	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/19/2007, R / FR 019031 / 0355 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-1010-00-US	11562362	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/15/2007, R / FR 019014 / 0458 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-854-02-US	11618391	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 03/05/2007, R / FR 018958 / 0570 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-829-00-US	11427538	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 12/18/2006, R / FR 018648 / 0500 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-983-00-US	11537847	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/03/2006, R / FR 018336 / 0374 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-619-00-US	11394619	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 05/01/2006, R / FR 017557 / 0333 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-176-00-US	10750917	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 10/05/2004, R / FR 015854 / 0346 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-077-00-US	10675533	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/30/2004, R / FR 015840 / 0194 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-181-00-US	10729449	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 09/07/2004, R / FR 015109 / 0593 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/13/2021, R / FR 057652 / 0052
GP-10944-00-US	13632925	None	FROM INVENTOR(S) TO GOOGLE INC.: REC 01/31/2013, R / FR 029729 / 0534 FROM GOOGLE INC. TO GOOGLE LLC: REC 09/17/2021, R / FR 057611 / 0767

Electronic Acknowledgement Receipt

EFS ID:	43929234
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Steven Ke Gong/Anastasia Renard
Filer Authorized By:	Steven Ke Gong
Attorney Docket Number:	16113-0094001
Receipt Date:	01-OCT-2021
Filing Date:	25-JAN-2006
Time Stamp:	15:53:12
Application Type:	Utility under 35 USC 111(a)

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Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	GoogleLLCMassRevPOARound 2-signed.pdf	3821134 8139388bb79e7157b008f6766be4f20658fcba0d	no	9

Warnings:

Box & Dropbox Exhibit 1017

Information:	
Total Files Size (in bytes):	3821134
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/339,301

01/25/2006

INV001Johann Tomas Sigurdsson

16113-0094001

7556

26192 7590 03/25/2013

FISH & RICHARDSON P.C.

PO BOX 1022

MINNEAPOLIS, MN 55440-1022

EXAMINER

BURNS, RANDALL WHITMAN

ART UNIT

PAPER NUMBER

2157

NOTIFICATION DATE

DELIVERY MODE

03/25/2013

ELECTRONIC

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

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

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

PATDOCTC@fr.com

Notice of Abandonment	Application No.	Applicant(s)
	11/339,301	SIGURDSSON ET AL.
	Examiner	Art Unit
	R. Whitman Burns	2157

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

This application is abandoned in view of:

1. ☒ Applicant's failure to timely file a proper reply to the Office letter mailed on 08/16/2012.
 - (a) ☐ A reply was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply (including a total extension of time of _____ month(s)) which expired on _____.
 - (b) ☐ A proposed reply was received on _____, but it does not constitute a proper reply under 37 CFR 1.113 (a) to the final rejection. (A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114).
 - (c) ☐ A reply was received on _____ but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).
 - (d) ☒ No reply has been received.

2. ☐ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
 - (a) ☐ The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
 - (b) ☐ The submitted fee of \$_____ is insufficient. A balance of \$_____ is due.
The issue fee required by 37 CFR 1.18 is \$_____. The publication fee, if required by 37 CFR 1.18(d), is \$_____.
 - (c) ☐ The issue fee and publication fee, if applicable, has not been received.

3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
 - (a) ☐ Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
 - (b) ☐ No corrected drawings have been received.

4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.

5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application.

6. ☐ The decision by the Board of Patent Appeals and Interference rendered on _____ and because the period for seeking court review of the decision has expired and there are no allowed claims.

7. ☐ The reason(s) below:

/CHARLES KIM/
Supervisory Patent Examiner, Art Unit 2157

/R. Whitman Burns/
Examiner, Art Unit 2157

Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/339,301

01/25/2006

Johann Tomas Sigurdsson

16113-0094001

7556

26192 7590 08/16/2012

FISH & RICHARDSON P.C.

PO BOX 1022

MINNEAPOLIS, MN 55440-1022

EXAMINER

BURNS, RANDALL WHITMAN

ART UNIT

PAPER NUMBER

2157

NOTIFICATION DATE

DELIVERY MODE

08/16/2012

ELECTRONIC

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

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

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

PATDOCTC@fr.com

Office Action Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner R. Whitman Burns	Art Unit 2157	

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 12/21/2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-3,7-9,11,12,23,24 and 37-50 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-3,7-9,11,12,23,24 and 37-50 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

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

Priority under 35 U.S.C. § 119

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

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>04/11/2012, 06/11/2012</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Response to Amendment

Claims 1-3, 7-9, 11, 12, 23, 24 and 37-50 are pending and have been examined.

Claims 37-50 are new.

Claims 4-6, 10, 13-22 and 25-36 are canceled.

Information Disclosure Statement

The information disclosure statements submitted on 04/11/2012 and 06/11/2012 have been considered by the examiner.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/21/2011 has been entered.

Claim Rejections - 35 USC § 103

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

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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

Claims 1-3, 7-9, 11, 12, 23, 24 and 37-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 2006/0031198 to Newbold et al. in view of US 2007/0005707 A1 to Teodosiu et al.

With respect to claim 1, Newbold suggests a computer-implemented method comprising: storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*), the first index being an index of content from files stored on the first client based on information extracted from the content of each of the files ([0008], *index module may index the content data and metadata from the monitored documents*).

detecting, on the first client, an event indicating an action associated with a first file stored on the first client, wherein the action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*);

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

Newbold suggests data comprising both extracted content and metadata but does not appear to disclose the following limitations that are suggested by Teodosiu: determining a priority score for the first file based in part on one or more attributes of the first file (fig 8 and [0067-0068], note the synchronization of data is scheduled 806 based on a variety of characteristics; [0068], “the characteristics of the data items to be synchronized (block 810) are utilized, such as size, priority in relation to other data items, and so forth”);

selecting a device from a plurality of different devices to transmit the data to based at least in part on the priority score and available traffic bandwidth on the device (fig 8 and [0067-0068], note the synchronization of data is scheduled 806 based on a

variety of characteristics such as “hardware and/or software resources of the client (e.g., connection speed and amount of time needed by the client to receive the data), and so on”; [0068], “the characteristics of the data items to be synchronized (block 810) are utilized, such as size, priority in relation to other data items, and so forth”; fig 6 and [0057-0059], note the determination of the clients that are available by connecting with them via a peer-to-peer network 212; note that if a client is not available then the data may be stored in storage 116 in block 608); and

transmitting the data of the first file to the selected device (fig 6 and [0057-0059], note the transfer of the shared data to either the clients via the peer-to-peer network in block 606 or the transfer to storage in block 608).

Accordingly, in the same field of endeavor (data management / remote data access / data sharing via network) it would have been obvious to one of ordinary skill in the art at the time of the present invention to combine the teachings of the cited references, because the teachings of Teodosiu would allow for the Newbold invention to have the advantage of sharing data with other user devices.

Claims 23 and 24 recite similar limitations as claim 1 and are rejected under the same rationale.

With respect to claims 2, 37 and 44, Newbold suggests wherein the action is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file ([0008]-[0010], *The desktop integration module may*

monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module).

With respect to claims 3, 38 and 45, Newbold suggests data comprising both extracted content and metadata but does not appear to disclose the following limitations that are suggested by Teodosiu: receiving from a server an indication that the server is configured to transmit the data to a requesting peer client; and transmitting the data to the server if the peer client is not currently networked to the first client (fig 6 and [0057-0059], note the determination of the clients that are available by connecting with them via a peer-to-peer network 212; note that if a client is not available then the data may be stored in storage 116 in block 608; “when at least one previously unavailable client becomes available (block 610), the specified data is synchronized with the at least one client”).

Accordingly, in the same field of endeavor (data management / remote data access / data sharing via network) it would have been obvious to one of ordinary skill in the art at the time of the present invention to combine the teachings of the cited references, because the teachings of Teodosiu would allow for the Newbold invention to have the advantage of sharing data with other user devices.

With respect to claims 7, 39 and 46, Newbold suggests data comprising both extracted content and metadata but does not appear to disclose the following limitations

that are suggested by Teodosiu: wherein transmitting the data of the first file to the peer client includes transmitting the data to a server, the server being configured to transmit the data to the peer client (fig 6 and [0057-0059], note the determination of the clients that are available by connecting with them via a peer-to-peer network 212; note that if a client is not available then the data may be stored in storage 116 in block 608; “when at least one previously unavailable client becomes available (block 610), the specified data is synchronized with the at least one client”).

Accordingly, in the same field of endeavor (data management / remote data access / data sharing via network) it would have been obvious to one of ordinary skill in the art at the time of the present invention to combine the teachings of the cited references, because the teachings of Teodosiu would allow for the Newbold invention to have the advantage of sharing data with other user devices.

With respect to claims 8, 40 and 47, Newbold suggests data comprising both extracted content and metadata but does not appear to disclose the following limitations that are suggested by Teodosiu: wherein transmitting the data of the first file to the peer client includes transmitting the data to a second client, the second client being configured to transmit the data to the peer client (fig 3 and [0044], note the sharing of data from Adam to Bob to Charlene; [0020], note the peer-to-peer network).

Accordingly, in the same field of endeavor (data management / remote data access / data sharing via network) it would have been obvious to one of ordinary skill in the art at the time of the present invention to combine the teachings of the cited

references, because the teachings of Teodosiu would allow for the Newbold invention to have the advantage of sharing data with other user devices.

With respect to claims 9, 41, 48, Newbold suggests wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the extracted content through the first index ([0009], *The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module*).

With respect to claims 11, 42, 49, Newbold suggests wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text ([0046], *Application plugin module 302 may extract information from documents such as, for example, the document type, content as text, author, size, creation date, and/or other document information*).

With respect to claims 12, 43, 50, Newbold suggests wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting ([0008], *obtain content data [...] from the monitored documents*).

Response to Arguments

Applicant's arguments, see Remarks, filed 12/12/2011, with respect to the rejection(s) of claim(s) 1, 23 and 24 under Newbold, Kucala, Wolf and Mori have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

However, upon further consideration, a new ground(s) of rejection is made in view of Teodosiu.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 2003/0097477 A1 to Vossler, which explicitly suggests assigning files a priority score in para. 0018 and fig. 4.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to R. Whitman Burns whose telephone number is (571) 270-3996. The examiner can normally be reached on Mon-Fri 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Kim can be reached on (571) 272-7421. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free) if you have questions on access to the Private PAIR system. If you would like assistance from a USPTO

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Art Unit: 2157

Customer Service Representative or access to the automated information system, call
(800) 786-9199 (IN USA OR CANADA) or (571) 272-1000.

/R. Whitman Burns/
Examiner, Art Unit 2157

/CHARLES KIM/
Supervisory Patent Examiner, Art Unit 2157

Notice of References Cited	Application/Control No. 11/339,301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL.	
	Examiner R. Whitman Burns	Art Unit 2157	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2003/0097477 A1	05-2003	Vossler, Stephen P.	709/248
*	B	US-2007/0005707 A1	01-2007	Teodosiu et al.	709/206
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			


FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Randall Burns	Art Unit 2157

SEARCHED			
Class	Subclass	Date	Examiner
707	622, 999.100, 999.200, 999.01 text search	10/6/2010	JDE
709	232 text search	10/6/2010	JDE
707	all	8/8/2012	RB

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor and Co-Inventors Search and DBL PAT Search	11/29/2007	JDE
Searched Class 707/010 and class 707 in EAST with keywords	12/3/2007	JDE
Searched NPL	12/3/2007	JDE
Searched Google Patents with keywords	11/29/2007	JDE
Searched EAST history attached	6/30/2008	JDE
Searched class 707/200 and 709 and 715 with keywords	6/30/2008	JDE
Searched Google Scholar and Google	6/24/2008	JDE
Updated Search in EAST in all DBs	8/17/2009	JDE
Searched in Google Patents	8/17/2009	JDE
Updated Search in EAST, history attached	3/13/2010	JDE
Searched in Google Patents with keywords	3/13/2010	JDE
Updated Search in EAST in all DBs, history attached	10/7/2010	JDE
Searched in Google Patents with keywords	10/7/2010	JDE
Updated Search in EAST in all DBs, history attached	6/18/2011	JDE
Searched in Google Patents with keywords	6/18/2011	JDE
Updated Search in EAST in all DBs, history attached	8/8/2012	RB
Searched in Google Scholar with keywords	8/8/2012	RB

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/RANDALL BURNS/ Examiner.Art Unit 2157	
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 16113-0094001	Application No. 11/339,301
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sigurdsson et al.	
		Filing Date January 25, 2006	Group Art Unit 2157

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1	-					

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	2	-						

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	3	Office Action from related Chinese Patent Application No. 200780010357.6 dated March 12, 2012, 13 pages.

Examiner Signature /Randall Burns/	Date Considered 08/07/2012
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	54	"6243705" "20060015539" "20060101151"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:22
L2	6	"6243705".pn. "20060015539".pn. "20060101151".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:22
L3	4	(US-20060031198-\$ or US-20060015539-\$ or US-20060101151-\$).did. or (US-6243705-\$).did.	US-PGPUB; USPAT	OR	ON	2012/08/08 10:22
L4	0	l3 and load adj balanc\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:23
L5	0	l3 and priority near3 score	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:24
L6	18	file near3 priority near3 score	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:29
L8	21391	(priorities) near3 (size type age)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:34
L9	163	(priorities priority) near3 (size type age) and priority near3 score	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:34
L10	76	(priorities priority) near3 (size type age) and priority adj score	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:34
L11	977	(priorities priority) near3 (size type age) and file near3 priority	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:35

L12	3	(priorities priority) near3 (size type age) and file near3 priority adj score	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:35
L13	55679	load adj balanc\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:42
L14	5956	l13 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:42
L15	90	l14 and file near3 routing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:42
L16	14943	load adj balanc\$3 and (client near3 client peer near3 peer client-to-client peer-to-peer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:45
L17	11433	load adj balanc\$3 and (client near3 client peer near3 peer client-to-client peer-to-peer) and (client near3 server client/server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:46
L18	3309	load adj balanc\$3 and (peer-to-peer) and (client near3 server client/server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:46
L19	570	l18 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:46
L20	1317	load adj balanc\$3 and (peer-to-peer) with (client near3 server client/server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:47
L21	245	l20 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:47
L22	1092	load adj balancing and (peer-to-peer) with (client near3 server client/server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:48
L23	201	l22 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:48

L24	1	load adj balancing with (peer-to-peer) with (client near3 server client/server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:55
L25	2	"6128279".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:55
L26	3220	(server peer-to-peer) near3 based near3 (load traffic bandwidth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:58
L27	66	(peer-to-peer) near3 based near3 (load traffic bandwidth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 10:58
L28	934	(hybrid mixed) near5 (P2P peer-to-peer) near5 (client/server client-server client adj server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:01
L29	907	(hybrid mixed) near3 (P2P peer-to-peer) near3 (client/server client-server client adj server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:01
L30	221	l29 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:01
L31	145	l28 and load adj balancing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:02
L32	154	l28 and load near balanc\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:03
L33	41	l32 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:03
L34	113	l32 not l33	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:04
L35	158	peer-to-peer and dedicated adj server and load adj balancing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:06

L36	0	peer-to-peer same dedicated adj server same load adj balancing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:06
L37	5	peer-to-peer same3 dedicated adj server same3 load adj balancing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:06
L38	15	peer-to-peer with dedicated adj server and load adj balancing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:07
L39	822	synchronizing adj content	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:23
L40	1	l39 and direct near3 clients!	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:24
L41	717	client-to-client	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:27
L42	96	l41 and load adj balancing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:28
L43	15	l42 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:28
L44	0	client near3 offline with temporarily near3 server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:29
L45	1	client near3 offline with temporar\$3 near3 server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:29
L46	36	client near3 offline same temporar\$3 near3 server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:29
L47	31	client near3 (down offline available) same temporar\$3 near3 stor\$3 near3 server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:32

L48	30	l47 not l46	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:32
L49	719	client near3 load adj balancing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:44
L50	110	l49 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:44
L51	54	l50 and synchronization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:44
L52	38	l50 and file near3 synchronization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:44
L53	0	(upload\$3 download\$3 transmit\$4 send\$3) near3 (file data content) near3 server near3 if near3 (peer client)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:48
L54	3	(upload\$3 download\$3 transmit\$4 send\$3) near3 (file data content) near3 server near3 if	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:49
L55	0	server near3 (storage store storing share sharing) near3 if near3 (client peer peer-to-peer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:53
L56	15709	server near3 (storage store storing share sharing) near3 (client peer peer-to-peer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:53
L57	2	server near3 (storage store storing share sharing) near3 (client peer peer-to-peer) near3 (unavailable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:53
L58	1797	(peer client peer-to-peer p2p) near3 unavailable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:53
L59	280	l58 and (content data file) near3 (synchroniz\$3 synchronization)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:54

L60	759	(peer client peer-to-peer p2p) adj3 unavailable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:55
L61	89	l60 and l59	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 11:56
L62	2	"20050190273"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/08 13:00
S1	3	"11339301"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/07 14:14
S2	3	"20060031198"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/07 15:37
S3	33	file near3 priority near3 (upload\$3 download\$3 transmit\$4 transfer\$4) and load adj balanc\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/08/07 16:13

EAST Search History (I nterference)

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8/ 8/ 2012 2:09:45 PM
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 16113-0094001	Application No. 11/339,301
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sigurdsson et al.	
		Filing Date January 25, 2006	Group Art Unit 2157

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1	-					

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	2	-						


Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	3	Office Action from related Japanese Patent Application No. 2008-552567 dated February 14, 2012, 6 pages.

Examiner Signature /Randall Burns/	Date Considered 08/07/2012
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<i>Index of Claims</i> 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Randall Burns	Art Unit 2157

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant											<input type="checkbox"/> CPA											<input type="checkbox"/> T.D.											<input type="checkbox"/> R.1.47										
CLAIM		DATE																																									
Final	Original	12/06/2007	06/21/2008	04/10/2009	08/15/2009	03/13/2010	10/06/2010	06/18/2011	08/08/2012																																		
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	3	✓	✓	÷	✓	✓	✓	✓	✓																																		
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	36							✓	-																																		

<i>Index of Claims</i> 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Randall Burns	Art Unit 2157

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	12/06/2007	06/21/2008	04/10/2009	08/15/2009	03/13/2010	10/06/2010	06/18/2011	08/08/2012	
	37								✓	
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	44								✓	
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	46								✓	
	47								✓	
	48								✓	
	49								✓	
	50								✓	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 16113-0094001	Application No. 11/339,301
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sigurdsson et al.	
		Filing Date January 25, 2006	Group Art Unit 2157

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1	-					

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	2	-						

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	3	Office Action from related Chinese Patent Application No. 200780010357.6 dated March 12, 2012, 13 pages.

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Electronic Acknowledgement Receipt

EFS ID:	12985753
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Siraj Husain/Linda Quintana
Filer Authorized By:	Siraj Husain
Attorney Docket Number:	16113-0094001
Receipt Date:	11-JUN-2012
Filing Date:	25-JAN-2006
Time Stamp:	18:12:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	IDS.pdf	61050 296cf1cd42530c918d44d7abbb8fc787a3244559	no	1

Warnings:

Information:

Box & Dropbox Exhibit 1017

2	Information Disclosure Statement (IDS) Form (SB08)	1449.pdf	82524 8cfb23e932f281c742d45b6422aad6640cdd 0feb	no	1
Warnings:					
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This is not an USPTO supplied IDS fillable form					
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Warnings:					
Information:					
Total Files Size (in bytes):			1020608		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al. Art Unit : 2157
Serial No. : 11/339,301 Examiner : Jeremy D. Engelskirchen
Filed : January 25, 2006 Conf. No. : 7556
Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Please consider the non-patent literature reference listed on the enclosed PTO-1449 form. The reference is a copy of a communication from a foreign patent office in a related application. The art cited within the non-patent literature reference was cited in a prior information disclosure statement.

This statement is being filed after a request for continued examination and before the mailing of a first Office Action. Please apply any necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: June 11, 2012

/Siraj Husain/
Siraj Husain
Reg. No. 69,111

Customer Number 26192
Fish & Richardson P.C.
Telephone: (650) 839-5070
Facsimile: (877) 769-7945

50850899.doc

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 16113-0094001	Application No. 11/339,301
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sigurdsson et al.	
		Filing Date January 25, 2006	Group Art Unit 2157

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1	-					

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	2	-						

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	3	Office Action from related Japanese Patent Application No. 2008-552567 dated February 14, 2012, 6 pages.

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Electronic Acknowledgement Receipt

EFS ID:	12522548
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Siraj Husain/Linda Quintana
Filer Authorized By:	Siraj Husain
Attorney Docket Number:	16113-0094001
Receipt Date:	11-APR-2012
Filing Date:	25-JAN-2006
Time Stamp:	21:13:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	IDS.pdf	59728 ff2ad0622f63f3b013e5262b98916f316643b7fc	no	1

Warnings:

Information:

Box & Dropbox Exhibit 1017

2	Information Disclosure Statement (IDS) Form (SB08)	1449.pdf	82468 8a4b99a2926f12bebf564101d452357d4e0b200	no	1
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Non Patent Literature	JP_OA_02_14_2012.pdf	299983 3f76f2dc7944a79c88116db456986b74fd446058	no	6
Warnings:					
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Total Files Size (in bytes):			442179		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Sigurdsson et al.	Art Unit	: 2157
Serial No.	: 11/339,301	Examiner	: Jeremy D. Engelskirchen
Filed	: January 25, 2006	Conf. No.	: 7556
Title	: MULTIPLE CLIENT SEARCH METHOD AND SYSTEM		

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Please consider the reference listed on the enclosed PTO-1449 form. The reference is a copy of a communication from a foreign patent office in a related application.

This statement is being filed before the receipt of a first Office Action on the merits.
Please apply any necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: April 11, 2012

/Siraj Husain/
Siraj Husain
Reg. No. 69,111

Customer Number 26192
Fish & Richardson P.C.
Telephone: (650) 839-5070
Facsimile: (877) 769-7945

**Request
For
Continued Examination (RCE)
Transmittal**

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

<i>Application Number</i>	11/339,301
<i>Filing Date</i>	January 25, 2006
<i>First Named Inventor</i>	Johann Tomas Sigurdsson
<i>Group Art Unit</i>	2157
<i>Conf No.</i>	7556
<i>Examiner Name</i>	Jeremy D. Engelskirchen
<i>Attorney Docket Number</i>	16113-0094001

This is a Request for Continued Examination (RCE) under 37 C.F.R. §1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 C.F.R. §1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s)
 - a. ☐ Previously submitted. If a final Office action is outstanding, any amendment filed after the final Office action may be considered as a submission even if this box is not checked.
 - i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
 - ii. ☐ Other _____
 - b. ☒ Enclosed
 - i. ☒ Amendment/Reply
 - ii. ☐ Affidavit(s)/Declaration(s)
 - iii. ☐ Information Disclosure Statement (IDS)
 - iv. ☐ Other _____
2. **Miscellaneous**
 - a. ☐ Suspension of action on the above-identified application is requested under 37 C.F.R. §1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 C.F.R. §1.17(i) required)
 - b. ☐ Other _____
3. **Fee** The RCE fee under 37 C.F.R. §1.17(e) is required by 37 C.F.R. §1.114 when the RCE is filed.
 - a. ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. 06-1050.
 - i. ☒ RCE fee required under 37 CFR 1.17(e)
 - ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17) **(3M EOT)**
 - iii. ☒ Other Any deficiencies
 - b. ☐ Check in the amount of \$_____ enclosed
 - c. ☐ Payment by credit card (Form PTO-2038 enclosed)

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT REQUIRED

<i>Name (Print/Type)</i>	Daniel J. Burns	<i>Registration No. (Attorney/Agent)</i>	50,222
<i>Signature</i>	/Daniel J. Burns/	<i>Date</i>	December 21, 2011

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Sigurdsson et al.	Art Unit	: 2157
Serial No.	: 11/339,301	Examiner	: Jeremy D. Engelskirchen
Filed	: January 25, 2006	Conf. No.	: 7556

Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

MAIL STOP RCE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT IN REPLY TO ACTION OF JUNE 23, 2011 AND FILED WITH A
REQUEST FOR CONTINUED EXAMINATION

Please amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-implemented method, comprising:

storing a first index on a first client, the first index ~~indexing being an index of content from files stored on the first client and content from files stored on a peer client of the first client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;~~

detecting, on the first client, an event indicating ~~that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client,~~ wherein the action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index ~~stored on the first client,~~ the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;

determining a priority score for the first file based in part on one or more attributes of the first file;

selecting a device from a plurality of different devices to transmit the extracted content and metadata to based at least in part on the priority score and available traffic bandwidth on the device; and

transmitting the extracted content and the metadata of the first file to the selected device

~~transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client;~~

~~transmitting, using the first client a request for missing content in a time range;~~

~~_____receiving an update for the first index, the update including metadata for a second file at the peer client, the second file associated with the time range;~~
~~_____in response to receiving the metadata of the second file, updating the first index stored on the first client using the metadata of the second file; and~~
~~_____obtaining extracted content of the second file associated with the time range in which the second file is stored on the peer client and not on the first client, the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a combination of a size, a timestamp, and a type of the extracted content of the second file.~~

2. (Currently Amended) The method of claim 1, wherein the action ~~that is unrelated to transmitting a file~~ is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of ~~the contents of the~~ first file.

3. (Currently Amended) The method of claim 1, further comprising:
~~_____receiving from a server an indication that the server is configured to transmit the~~
~~extracted content to a requesting peer client; and~~
~~_____transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.~~

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Currently Amended) The method of claim 1, wherein transmitting the extracted content and metadata of the first file to the ~~peer client~~selected device includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the ~~peer client~~selected device.

8. (Currently Amended) The method of claim 1, wherein transmitting the extracted content

and metadata of the first file to the selected device~~peer client~~ includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content to the selected device~~peer client~~.

9. (Currently Amended) The method of claim 1, wherein generating the metadata ~~for indexing~~ comprises formatting one or more symbols included in the extracted content as keys operable to identify the extracted content ~~through~~ using the first index.

10. (Canceled)

11. (Original) The method of claim 1, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

12. (Original) The method of claim 1, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

13. (Canceled)

14. (Canceled)

15. (Canceled)

16.-22. (Canceled)

23. (Currently Amended) A ~~first computer~~system comprising:

a first index, the first index being an index of content from files stored on the system
based on information extracted from the content of each of the files; and

one or more computers programmed to perform operations comprising:

~~a first index stored on the first computer, the first index indexing content from files stored on the first client and content from files stored on a peer computer of the first computer based on information extracted from the content of each of the files, the first computer and the peer computer being associated with a common user and configured to communicate with each other through a network, the peer computer storing a peer index, and all of the indexed content of the~~

~~peer index being synchronized with all of the indexed content of the first index;~~

~~———— one or more processors; and~~

~~———— memory coupled to the one or more processors and operable for storing instructions, which, when executed by the one or more processors, cause the one or more processors to perform operations, comprising:~~

~~detecting an event indicating that an action associated with a first file stored on the system first computer and not on the peer computer has been performed by a user at the first computer, wherein the action is unrelated to transmitting the first file to another computer;~~

~~in response to the detected event, extracting content from the first file and generating metadata for the first index ~~stored on the first computer~~, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first computer;~~

~~determining a priority score for the first file based in part on one or more attributes of the first file;~~

~~selecting a device from a plurality of different devices to transmit the extracted content and metadata to based at least in part on the priority score and available traffic bandwidth on the device; and~~

~~transmitting the extracted content and the metadata of the first file to the selected device~~
~~transmitting the extracted content and the metadata of the first file from the first computer to the peer computer for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer computer;~~

~~———— transmitting, using the first computer a request for missing content in a time range;~~

~~———— receiving an update for the first index, the update including metadata for a second file at the peer computer, the second file associated with the time range;~~

~~———— in response to receiving the metadata of the second file, updating the first index stored on the first computer using the metadata of the second file; and~~

~~———— obtaining extracted content of the second file associated with the time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer computer and not on the first computer, the~~

~~extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a combination of a size, a timestamp, and a type of the extracted content of the second file.~~

24. (Currently Amended) A computer program product ~~tangibly embodied in a tangible,~~ machine-readable storage device, the computer program product including storing instructions that, when executed by one or more computers, perform operations comprising:

storing a first index of files on a first client, the first index ~~indexing being an index of~~ content from files stored on the first client ~~and content from files stored on the peer client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;~~

detecting, on the first client, an event indicating ~~that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client,~~ wherein the action is unrelated to transmitting the first file to another client;

using the first client in response to the event, extracting content from the first file and generating metadata for the first index ~~stored on the first client~~, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;

determining a priority score for the first file based in part on one or more attributes of the first file;

selecting a device from a plurality of different devices to transmit the extracted content and metadata to based at least in part on the priority score and available traffic bandwidth on the device; and

transmitting the extracted content and the metadata of the first file to the selected device ~~transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client;~~

—transmitting, using the first client a request for missing content in a time range;

~~—receiving an update for the first index, the update including metadata for a second file at the peer client, the second file associated with the time range;~~
~~—in response to receiving the metadata of the second file, updating the first index stored on the first client using the metadata of the second file; and~~
~~—obtaining extracted content of the second file associated with the time range in which the second file is stored on the peer client and not on the first client, the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a combination of a size, a timestamp, and a type of the extracted content of the second file.~~

25-36. (Canceled)

37. (New) The system of claim 23, wherein the action is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of content of the first file.

38. (New) The system of claim 23, further comprising:

receiving from a server an indication that the server is configured to transmit the extracted content to a requesting peer client; and

transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.

39. (New) The system of claim 23, wherein transmitting the extracted content and metadata of the first file to the selected device includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the selected device.

40. (New) The system of claim 23, wherein transmitting the extracted content and metadata of the first file to the selected device includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content to the selected device.

41. (New) The system of claim 23, wherein generating the metadata comprises formatting one or more symbols included in the extracted content as keys operable to identify the extracted content using the first index.

42. (New) The system of claim 23, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

43. (New) The system of claim 23, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

44. (New) The computer program product of claim 24, wherein the action is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of content of the first file.

45. (New) The computer program product of claim 24, further comprising:
receiving from a server an indication that the server is configured to transmit the extracted content to a requesting peer client; and
transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.

46. (New) The computer program product of claim 24, wherein transmitting the extracted content and metadata of the first file to the selected device includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the selected device.

47. (New) The computer program product of claim 24, wherein transmitting the extracted content and metadata of the first file to the selected device includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content to the selected device.

48. (New) The computer program product of claim 24, wherein generating the metadata comprises formatting one or more symbols included in the extracted content as keys operable to identify the extracted content using the first index.

49. (New) The computer program product of claim 24, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

50. (New) The computer program product of claim 24, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

REMARKS

Interview Summary

The undersigned representative thanks Examiner Engelskirchen for the courtesy of the telephonic interview held on September 20, 2011. The substance of the interview included a discussion of the 35 U.S.C. §103 rejection of claims 1, 23-24 and 30-31.

Section 103 Rejections

Claims 1-2, 9-12, 15, 23-24 and 30-36 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over U.S. Patent Application Publication No. 2006/0031198 ("Newbold ") in view of U.S. Patent No. 6,243,705 ("Kucala") in view of U.S. Patent Application Publication No.2006/0015539 ("Wolf") and further in view of U.S. Patent Application Publication No. 2006/0101151 ("Mori"). Claims 3-5 and 7-8 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Newbold in view of Kucala, Wolf and Mori and further in view of U.S. Patent Application Publication No. 2005/0190273 ("Toyama"). Claim 14 is rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Newbold in view of Kucala, Wolf and Mori and further in view of U.S. Patent No. 5,978,791 ("Farber"). Claim 13 is rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Newbold in view of Kucala, Wolf and Mori and further in view of U.S. Patent Application Publication No. 2004/0122741 ("Sidman").

Claim 1 now recites:

1. A computer-implemented method, comprising:
 - storing a first index on a first client, the first index being an index of content from files stored on the first client based on information extracted from the content of each of the files;
 - detecting, on the first client, an event indicating an action associated with a first file stored on the first client, wherein the action is unrelated to transmitting the first file to another client;
 - using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;
 - determining a priority score for the first file based in part on one or more

attributes of the first file;

selecting a device from a plurality of different devices to transmit the extracted content and metadata to based at least in part on the priority score and available traffic bandwidth on the device; and

transmitting the extracted content and the metadata of the first file to the selected device.

In regard to claim 1, the Office Action stated that Wolf discloses “the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a time stamp ([0042]-[0043]).” (Office Action at page 6.) Additionally, the Office Action stated that Mori discloses “extracted content is obtained according to a priority algorithm that specifies and order for obtaining content based on a combination of a size and a type of the extracted content of the second file ([0034]).” (Id. at page 7.)

However, the relied upon portions of Wolf and Mori do not describe “determining a priority score for the first file based in part on one or more attributes of the first file; selecting a device from a plurality of different devices to transmit the extracted content and metadata to based at least in part on the priority score and available traffic bandwidth on the device; and transmitting the extracted content and the metadata of the first file to the selected device,” as recited by claim 1.

The relied upon portions of Newbold, Kucala, Toyama, Farber, and Sidman are not seen to remedy the deficiencies of Wolf and Mori.

Accordingly, claim 1 is in condition for allowance. Claims 23 and 24 are in condition for allowance for at least the same reasons.

Conclusion

All of the dependent claims are patentable for at least the same reasons as those for the claims on which they depend are patentable. For the foregoing reasons, the applicant submits that all the claims are in condition for allowance.

By responding in the foregoing remarks only to particular positions taken by the examiner, the applicant does not acquiesce with other positions that have not been explicitly addressed. In addition, the applicant's selecting some particular arguments for the patentability of a claim should not be understood as implying that no other reasons for the patentability of that claim exist. Finally, the applicant's decision to amend or cancel any claim should not be understood as implying that the applicant agrees with any positions taken by the examiner with respect to that claim or other claims.

The RCE fee and three (3) month extension of time fees are being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply any other credits or charges to Deposit Account No. 06-1050.

Respectfully submitted,

Date: December 21, 2011

/Daniel J. Burns/
Daniel J. Burns
Reg. No. 50,222

Customer Number 26192
Fish & Richardson P.C.
Telephone: (650) 839-5070
Facsimile: (877) 769-7945

50819454.doc

Electronic Patent Application Fee Transmittal

Application Number:	11339301			
Filing Date:	25-Jan-2006			
Title of Invention:	Multiple client search method and system			
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson			
Filer:	Daniel J. Burns/Linda Quintana			
Attorney Docket Number:	16113-0094001			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	1253	1	Box & Dropbox Exhibit 1017	1270

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for continued examination	1801	1	930	930
Total in USD (\$)				2200

Electronic Acknowledgement Receipt

EFS ID:	11680066
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Daniel J. Burns/Linda Quintana
Filer Authorized By:	Daniel J. Burns
Attorney Docket Number:	16113-0094001
Receipt Date:	21-DEC-2011
Filing Date:	25-JAN-2006
Time Stamp:	16:29:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$2200
RAM confirmation Number	4060
Deposit Account	061050
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Msg & Digest	Multi Part/zip	Pages (if appl.)
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1	Request for Continued Examination (RCE)	RCETransmittal.pdf	106388 9c28105bc8c0435de46d59d289d9105f5a1a4fc3	no	1
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2		Amendment.pdf	90463 4cdab464daa3b7697e635624e58c29e48850b8d6	yes	12
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	9	
	Applicant Arguments/Remarks Made in an Amendment		10	12	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	31857 e74221a72964c0efda38fa67c4290e713db5b0ca	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			228708		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

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OCT 31 2011

FISH & RICHARDSON P.C.

SUBSTITUTE PTOL-413A (OS-OS)
 DOCKET NUMBER: 16113-0094001

Applicant Initiated Interview Request Form

Application No. : 11/339,301

First Named Applicant: Sigurdsson et al

Examiner: Jeremy D. Engelskirchen Art unit: 2157

Status of Application: Published

Tentative Participants:

(1) Examiner Jeremy D. Engelskirchen(2) David E. A. Jordan (In person)(3) Siraj Husain (By phone)

(4) _____

Proposed Date of Interview: Monday, October 31, 2011Proposed Time: 2:00 EST (PM)

Type of Interview Requested:

(1) ☒ Telephonic (2) ☒ Personal (3) ☐ Video ConferenceExhibit To Be Shown or Demonstrated: ☐ YES ☒ NO

If yes, provide brief description: _____

Issues To Be Discussed

Issues Rej., Obj., etc.)	Claims/ Fig. s	Cited Art	Discussed	Agreed	Not Agreed
(1) 103	1	Newbold, Kucala, Wolf, Mori	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Continuation Sheet Attached

Brief Description of Arguments to be Presented:

Discuss 103 rejections and proposed amendments

An interview was conducted on the above-identified application on ____.

NOTE: This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01).

This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

/David E. A. Jordan/

(Applicant/Applicant's Representative Signature)

(Examiner/SPE Signature)_____
David E. A. Jordan

Typed/Printed Name of Applicant or Representative

50,325

Registration Number, if applicable

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OCT 31 2011

Applicant : Sigurdsson et al.

Art Unit : 2157

Serial No. : 11/339,301

Examiner : Jeremy D. Engelskirchen

Filed : January 25, 2006

Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

PROPOSED AMENDMENTS

1. A computer-implemented method, comprising:

storing a first index on a first client, the first index indexing content from files stored on the first client and content from files stored on a peer client of the first client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored on the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;

transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client;

transmitting, using the first client a request for missing content in a time range;

receiving an update for the first index, the update including metadata for a second file at the peer client, the second file associated with the time range;

in response to receiving the metadata of the second file, updating the first index stored on the first client using the metadata of the second file; and

obtaining extracted content of the second file associated with the time range in which the second file is stored on the peer client and not on the first client, the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a priority score assigned to the extracted content, the priority score being based in part on a size of the extracted content, an age of the extracted

Applicant : Sigurdsson et al.

Art Unit : 2157

Serial No. : 11/339,301

Examiner : Jeremy D. Engelskirchen

Filed : January 25, 2006

Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

~~content, and a file type for the second file on a combination of a size, a timestamp, and a type of the extracted content of the second file.~~

1. A computer-implemented method, comprising:

storing a first index on a first client, the first index indexing content from files stored on the first client and content from files stored on a peer client of the first client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored on the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;

determining a priority score for the first file;

determining, based on the priority score, whether to transmit the extracted content (i) to a synchronization server with a request for the synchronization server to replicate the extracted content to the peer client, or (ii) directly to the peer client;

in response to determining to transmit the extracted directly to the peer client,

transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client, and transmitting the metadata only to the synchronization server;

~~transmitting, using the first client a request for missing content in a time range;~~
~~receiving an update for the first index, the update including metadata for a second file at~~
~~the peer client, the second file associated with the time range;~~
~~in response to receiving the metadata of the second file, updating the first index stored on~~
~~the first client using the metadata of the second file; and~~
~~obtaining extracted content of the second file associated with the time range in which the~~
~~second file is stored on the peer client and not on the first client, the extracted content obtained~~
~~according to a priority algorithm that specifies an order for obtaining content including the~~
~~extracted content of the second file based on a combination of a size, a timestamp, and a type of~~
~~the extracted content of the second file.~~

Attorney Docket No.: 16113-0094001

OFFICIAL COMMUNICATION FACSIMILE:

OFFICIAL FAX NO: (571) 273-8300

Number of pages including this page 5

Applicant : Sigurdsson et al.
Serial No. : 11/339,301
Filed : January 25, 2006

Art Unit : 2157
Examiner : Jeremy D. Engelskirchen

Title : Multiple Client Search Method and System

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

An Applied Initiated Interview Request Form and Proposed Amendments are attached.

Date: October 30, 2011

Fish & Richardson P.C.
500 Arguello Street, Suite 500
Redwood City, California 94063
Telephone: (650) 839-5070
Fax: (650) 839-5071

50811738.doc

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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-0094001	7556

26192 7590 06/23/2011
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER

ENGELSKIRCHEN, JEREMY D

ART UNIT	PAPER NUMBER
----------	--------------

2157

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

06/23/2011

ELECTRONIC

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

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

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

PATDOCTC@fr.com

Office Action Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner JEREMY ENGELSKIRCHEN	Art Unit 2157	

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 14 April 2011.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5,7-15,23,24 and 30-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5,7-15,23,24 and 30-36 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

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

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

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

DETAILED ACTION

1. This Office Action is in response to applicant's communications filed April 14, 2011. The Applicant's remarks and amendments to the claims were considered with the results that follow.

Response to Amendment

2. Claims 1, 23, 24, 30, and 31 are amended. Claims 32-36 are newly added. Thus, claims 1-5, 7-15, 23-24, and 30-36 are pending.

Claim Rejections - 35 USC § 103

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

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

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

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5. **Claims 1, 2, 9-12, 15, 23-24, and 30-36 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold et al. (Pub. No. US 2006/0031198), hereinafter Newbold, in view of Kucala (Pat. No. US 6,243,705), in view of Wolf et al. (Pub. No. US 2006/0015539), hereinafter Wolf, and further in view of Mori et al. (Pub. No. US 2006/0101151), hereinafter Mori.**

6. With respect to claim 1, Newbold discloses a computer-implemented method comprising: storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*), the first index indexing content from files stored on the first client based on information extracted from the content of each of the files ([0008], *index module may index the content data and metadata from the monitored documents*).

the first client and the peer client being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*);

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*);

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored at the first client, the metadata for

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indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses indexing content from files stored on a peer client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), the peer client storing a peer index (Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*) and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization. And see Col. 5, lines 17-31*)); transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the

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peer index entered at the peer client (see Col. 5, lines 17-31); receiving from the peer client extracted content of a second file stored on the peer client and not on the first client (see Col. 5, lines 17-31); and in response to receiving the extracted content of the second file, updating the first index stored on the first client using the received content and metadata of the second file (see Col. 5, lines 17-31).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the invention of Newbold to include synchronizing local and remote data, as taught by Kucala, in order to reconcile two changeable databases without any user interaction (Kucala, Col. 2, lines 1-3). The motivation/suggestion to combine would be to allow access to similar data from a handheld computing device and a personal computer.

The combination of Newbold and Kucala does not disclose transmitting, using the first client a request for missing content in a time range; receiving an update for the first index, the update including metadata for a second file at the peer client, the second file associated with the time range; in response to receiving the metadata of the second file, updating the first index stored on the first client using the metadata of the second file; and obtaining extracted content of the second file associated with the time range, in which the second file is stored on the peer client and not on the first client, the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a combination of a size, a timestamp, and a type of the extracted content of the second file.

However, Wolf discloses transmitting, using the first client a request for missing content in a time range; receiving an update for the first index, the update including metadata for a

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second file at the peer client, the second file associated with the time range; in response to receiving the metadata of the second file, updating the first index stored on the first client using the metadata of the second file; obtaining extracted content of the second file associated with the time range, in which the second file is stored on the peer client and not on the first client, the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a timestamp ([0042]-[0043],

FIG. 10 illustrates a method 1000 according to another embodiment of the present invention.

This embodiment permits an operator to limit a synchronization operation to data records that match a data range identifier entered by the operator. In the embodiment, the method 1000 begins upon receipt of a synchronization command that includes a date range identifier (box 1010). The method 1000 identifies records from each client data set that are candidates for synchronization (box 1020). This initial identification process may occur according to conventional processes. Prior to synchronizing individual data records, the method may compare a time stamp of the record to a data range identified as part of the synchronization command (box 1030). If the time stamp falls within the specified date range, the record is synchronized, again, according to conventional processes (boxes 1040, 1050)).

Newbold, Kucala, and Wolf are analogous art because they are in the same field of endeavor, content management systems. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the invention of Newbold, as modified by Kucala, to include a time range for content extraction, as taught by Wolf, in order to permit the operator to customize operation of the synchronization agent along parameters that are critical to the operators' use of the data (Wolf, [0003]). The motivation/suggestion to combine

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would be to allow the user to restrict the transfer of content to records that meet a predetermined date restriction (Wolf, [0005]).

The combination of Newbold, Kucala, and Wolf does not disclose that the extracted content is obtained according to a priority algorithm that specifies and order for obtaining content based on a combination of a size and a type of the extracted content of the second file. However, Mori discloses extracted content is obtained according to a priority algorithm that specifies and order for obtaining content based on a combination of a size and a type of the extracted content of the second file ([0034], *If a transmission request is received in operation 310, then the system may proceed to determine whether the transmission file is larger than a predetermined size in operation 320. If the transmission file is not larger than the predetermined size in operation 320, then the entire file may be transmitted in operation 330. On the other hand, if the transmission file is larger than the predetermined size in operation 320, then the file may be divided (or broken down) into a number of smaller files (or blocks) in operation 340. The smaller file may be transmitted in operation 350*).

Hence the prior art includes each element claimed, although not necessarily in a single prior art reference, with the only difference between the claimed invention and the prior art being the lack of actual combination of the elements in a single prior art reference. In combination, Newbold, as modified by Kucala and Wolf performs the same function as it does separately of storing indexes on clients, extracting content and updating the indexes. Mori performs the same function as it does separately of associating a priority algorithm with content to be transferred based on size. Therefore one of ordinary skill in the art could have combined the elements as claimed by known methods, and that in combination, each element merely performs the same

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function as it does separately. The results of the combination would have been predictable and resulted in modifying the invention of Newbold, Kucala and Wolf to include determining whether the transmission file is larger than a predetermined size and transmitting the smaller files, as disclosed by Mori, in order to provide a fast and reliable transmission of files. Therefore, the claimed subject matter would have been obvious to a person having ordinary skill in the art at the time the invention was made.

7. Claims 23-24, 30-31 recite similar limitations as claim 1 and are rejected under similar rationale.

8. With respect to claim 2, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 1. Newbold discloses wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file ([0008]-[0010], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module*).

9. With respect to claim 9, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 1. Newbold discloses wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the extracted content through the first index ([0009], *The desktop integration module may obtain content data, such as*

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keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module).

10. With respect to claim 10, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 1. Newbold discloses extracting content from a third file independent of an event occurrence, indexing the extracted content from the third file, and transmitting the indexed content to the peer client ([0022]).

11. With respect to claim 11, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 1. Newbold discloses wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text ([0046], *Application plugin module 302 may extract information from documents such as, for example, the document type, content as text, author, size, creation date, and/or other document information*).

12. With respect to claim 12, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 1. Newbold discloses wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting ([0008], *obtain content data [...] from the monitored documents*).

13. With respect to claim 15, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 1. Kucala further discloses transmitting a request to delete the extracted content from the

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peer client if the first file is deleted from the first client (Col. 2, lines 25-28 and Fig. 4).

14. With respect to claim 32, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 1. Mori further discloses wherein a priority for the extracted content is a function of the timestamp, the size, and the type, such that: the sooner the elapsed time from the timestamp, the higher the priority (Wolf, [0042]-[0043], *Prior to synchronizing individual data records, the method may compare a time stamp of the record to a data range identified as part of the synchronization command (box 1030). If the time stamp falls within the specified date range, the record is synchronized, again, according to conventional processes; the smaller the size of the extracted content, the higher the priority (Mori, [0034], If a transmission request is received in operation 310, then the system may proceed to determine whether the transmission file is larger than a predetermined size in operation 320. If the transmission file is not larger than the predetermined size in operation 320, then the entire file may be transmitted in operation 330. On the other hand, if the transmission file is larger than the predetermined size in operation 320, then the file may be divided (or broken down) into a number of smaller files (or blocks) in operation 340. The smaller file may be transmitted in operation 350*); and the more preferred the type, the higher the priority.

15. With respect to claim 33, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 32. Mori further discloses wherein the priority is based on a non-linear function of size ([0034], *If a transmission request is received in operation 310, then the system may proceed to determine whether the transmission file is larger than a predetermined size in operation 320. If*

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the transmission file is not larger than the predetermined size in operation 320, then the entire file may be transmitted in operation 330. On the other hand, if the transmission file is larger than the predetermined size in operation 320, then the file may be divided (or broken down) into a number of smaller files (or blocks) in operation 340. The smaller file may be transmitted in operation 350)..

16. With respect to claim 34, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 32. Mori further discloses wherein the priority is determined by adjusting a base priority, C, according to the following equation such that the lower the base priority, the higher determined priority, wherein s is the size, B_{type} is a boost factor based on the type of the extracted content, and t/K is a scaled elapsed time based on the timestamp: $C * \log(s) \sqrt{(t/K)/B_{type}}$ ([0034], *If a transmission request is received in operation 310, then the system may proceed to determine whether the transmission file is larger than a predetermined size in operation 320. If the transmission file is not larger than the predetermined size in operation 320, then the entire file may be transmitted in operation 330. On the other hand, if the transmission file is larger than the predetermined size in operation 320, then the file may be divided (or broken down) into a number of smaller files (or blocks) in operation 340. The smaller file may be transmitted in operation 350).*

17. With respect to claim 35, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 33. Kucala further discloses determining from a plurality of sources a source that has the extracted content of the second file, based on the received metadata of the second file; and

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wherein the obtaining the extracted content of the second file comprises obtaining the extracted content of the second file from the determined source (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization.* And see Col. 5, lines 17-31).

18. With respect to claim 36, the combination of Newbold, Kucala, Wolf, and Mori discloses claim 33. Kucala further discloses wherein the plurality sources comprise a server, the peer client, and a third client where the determining the source from which to obtain the extracted content of the second file comprises: determining that the peer client is unavailable over the network, and determining the source to be the third client other than the peer client storing the extracted content (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization.* And see Col. 5, lines 17-31).

18. **Claims 3-5 and 7-8 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala Wolf, and Mori, as applied to claim 1, and further in view of Toyama (Pub. No. US 2005/0190273).**

19. With respect to claim 3, the combination of Newbold, Kucala, Wolf, and Mori does not disclose receiving from a server an indication that the server is configured to transmit the extracted content to a requesting peer client; and transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.

However, Toyama discloses ([0019] and [0020], lines 10-14; *If the central server is configured with an image database containing all users images...it can also transfer images directly from its database to the requesting client*); and transmitting the content and the metadata to the server if the peer client is not currently networked to the first client ([0019]; *The server sends the content and metadata to an online cache which corresponds to transmitting the content and the metadata to the server. The cache allows for transfer of images between peers even when both clients are not present on the Internet or other network at the same time*).

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala Wolf, and Mori, to include a server to act as an intermediary between the clients, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

20. With respect to claim 4, the combination of Newbold, Kucala, Wolf, Mori, and Toyama discloses claim 3. Toyama further discloses receiving requirements from the server, locating the metadata that meets the requirements, and selecting content associated with the metadata for transmission to the peer client ([0104]).

21. With respect to claim 5, the combination of Newbold, Kucala, Wolf, Mori, and Toyama discloses claim 4. Toyama further discloses wherein the requirements include time stamp values or data bit values ([0099]).

22. With respect to claim 7, the combination of Newbold, Kucala, Wolf, and Mori does not disclose wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the peer client.

However, Toyama discloses wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the peer client ([0019]). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala Wolf, and Mori, to include a server to act as an intermediary between the clients, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

23. With respect to claim 8, the combination of Newbold, Kucala, Wolf, and Mori does not disclose wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content to the peer client.

However, Toyama discloses wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content to the peer client ([0019]). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala Wolf, and Mori, to

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include a second client able to transmit to a server, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

24. Claim 14 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala, Wolf, and Mori, as applied to claim 1, and further in view of Farber et al. (Pat. No. US 5,978,791), hereinafter Farber.

25. With respect to claim 14, the combination of Newbold, Kucala, Wolf, and Mori does not disclose disclosing associating an expiration date with the extracted content before it is transmitted to the peer client. However, Farber discloses associating an expiration date with the extracted content before it is transmitted to the peer client (Col. 30, lines 32-35). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala, Wolf, and Mori, to include associating expiration dates with content, as taught by Farber, to prevent content from being stored longer than desired.

26. Claim 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala, Wolf, and Mori, as applied to claim 1, and further in view of Sidman (Pub. No. US 2004/0122741). Sidman is disclosed in applicant's IDS dated March 4, 2008.

27. With respect to claim 13, the combination of Newbold, Kucala, Wolf, and Mori does not disclose a throughput threshold for bandwidth. However, Sidman discloses increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the

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first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value ([0152]).

It would have been obvious to to one of ordinary skill in the art at the time of invention to modify the system expressly disclosed by Newbold, as modified by Kucala and Wolf, with the peer-to-peer content distribution and metadata generation system specifics disclosed by Sidman in order to improve efficiency of the peer-to-peer network topology, inter alia, by selecting host peers, storage requirements, and communicative techniques based on the particulars of each peer (client/server) node (Sidman, para [0152]).

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Applicant argues the amended portion of the independent claims which has been rejected under new grounds using Mori et al.

Conclusion

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMY ENGELSKIRCHEN whose telephone number is (571)270-1903. The examiner can normally be reached on Mon.-Thurs. 10:00 am-7:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Kim can be reached on (571) 272-7421. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

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/Jeremy D Engelskirchen/

Examiner, Art Unit 2157

/CHARLES KIM/

Supervisory Patent Examiner, Art Unit 2157

Notice of References Cited	Application/Control No. 11/339,301		Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL.	
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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0069132	06-2002	Perkes et al.	705/26
*	B	US-2004/0054800	03-2004	Shah et al.	709/231
*	C	US-2004/0204085	10-2004	Vargas et al.	455/557
*	D	US-2006/0101151	05-2006	Mori et al.	709/230
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			


FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS


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

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

<i>Index of Claims</i> 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47				
CLAIM		DATE								
Final	Original	12/06/2007	06/21/2008	04/10/2009	08/15/2009	03/13/2010	10/06/2010	06/18/2011		
	1	✓	✓	÷	✓	✓	✓	✓		
	2	✓	✓	÷	✓	✓	✓	✓		
	3	✓	✓	÷	✓	✓	✓	✓		
	4	✓	✓	÷	✓	✓	✓	✓		
	5	✓	✓	÷	✓	✓	✓	✓		
	6	✓	-	-	-	-	-	-		
	7	✓	✓	÷	✓	✓	✓	✓		
	8	✓	✓	÷	✓	✓	✓	✓		
	9	✓	✓	÷	✓	✓	✓	✓		
	10	✓	✓	÷	✓	✓	✓	✓		
	11	✓	✓	÷	✓	✓	✓	✓		
	12	✓	✓	÷	✓	✓	✓	✓		
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	14	✓	✓	÷	✓	✓	✓	✓		
	15	✓	✓	÷	✓	✓	✓	✓		
	16	✓	✓	÷	N	-	-	-		
	17	✓	✓	÷	N	-	-	-		
	18	✓	✓	÷	N	-	-	-		
	19	✓	✓	÷	N	-	-	-		
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	26		✓	÷	✓	-	-	-		
	27		✓	÷	✓	-	-	-		
	28		✓	÷	✓	-	-	-		
	29		✓	÷	✓	-	-	-		
	30					✓	✓	✓		
	31					✓	✓	✓		
	32							✓		
	33							✓		
	34							✓		
	35							✓		
	36							✓		

Search Notes 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Jeremy D Engelskirchen	Art Unit 2157

SEARCHED			
Class	Subclass	Date	Examiner
707	622, 999.100, 999.200, 999.01 text search	10/6/2010	JDE
709	232 text search	10/6/2010	JDE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor and Co-Inventors Search and DBL PAT Search	11/29/2007	JDE
Searched Class 707/010 and class 707 in EAST with keywords	12/3/2007	JDE
Searched NPL	12/3/2007	JDE
Searched Google Patents with keywords	11/29/2007	JDE
Searched EAST history attached	6/30/2008	JDE
Searched class 707/200 and 709 and 715 with keywords	6/30/2008	JDE
Searched Google Scholar and Google	6/24/2008	JDE
Updated Search in EAST in all DBs	8/17/2009	JDE
Searched in Google Patents	8/17/2009	JDE
Updated Search in EAST, history attached	3/13/2010	JDE
Searched in Google Patents with keywords	3/13/2010	JDE
Updated Search in EAST in all DBs, history attached	10/7/2010	JDE
Searched in Google Patents with keywords	10/7/2010	JDE
Updated Search in EAST in all DBs, history attached	6/18/2011	JDE
Searched in Google Patents with keywords	6/18/2011	JDE

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/Jeremy D Engelskirchen/ Examiner.Art Unit 2157	
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L21	1	"20040054800" .pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	WITH	ON	2011/06/18 23:15
L20	14	priority algorithm\$1 download\$3 content	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	WITH	ON	2011/06/18 22:59
L19	4	17 and 707/999.01.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:58
L18	7	17 and timestamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/06/18 22:57
L17	108	transfer\$3 with small\$2 with file\$1 with first	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/06/18 22:56
L16	66	transfer\$3 with small with file\$1 with first	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/06/18 22:56
L14	5	8 and 707/999.01.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:53
L9	38	8 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:52

L8	378	(size with (time\$1stamp \$1 or time)) with priorit \$3 same (extract\$3 or download\$3 or updat\$3 or transfer\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:52
L7	5	schedul\$3 with missing with content with (deliver\$3 or download \$3 or transfer\$4 or synchroniz\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:40
L6	13	5 and updat\$3 with index\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:39
L5	408	request\$3 with missing with content	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:39
L4	894	request\$3 with miss\$3 with content	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:39
L3	4	("6154817" "20050033757" "20030046270" "20030225801").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	AND	ON	2011/06/18 22:36
L2	8	("6154817" "20050033757" "20030046270" "20030225801").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/06/18 22:36
L1	4	("20040204085" "20070201502").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/06/18 22:26

EAST Search History (Interference)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Sigurdsson, et al.	Art Unit	: 2157
Serial No.	: 11/339,301	Examiner	: Jeremy D. Engelskirchen
Filed	: January 25, 2006	Conf. No.	: 7556
Title	: MULTIPLE CLIENT SEARCH METHOD AND SYSTEM		

MAIL STOP AF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY TO ACTION OF OCTOBER 14, 2010

This paper is filed in response to the Office Action mailed October 14, 2010. Please consider the remarks below, and please amend the above-identified application as indicated:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 14 of this paper.

Applicant : Sigurdsson, et al.
Serial No. : 11/339,301
Filed : January 25, 2006
Page : 2 of 16

Attorney Docket No.: 16113-0094001

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently Amended) A computer-implemented method, comprising:

storing a first index on a first client, the first index indexing content from files stored on the first client and content from files stored on a peer client of the first client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored on the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;

transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client;

transmitting, using the first client a request for missing content in a time range;

receiving an update for the first index, the update including metadata for a second file at the peer client, the second file associated with the time range;

in response to receiving the metadata of the second file, updating the first index stored on the first client using the metadata of the second file; and

receiving from the peer client obtaining extracted content of [[a]]the second file associated with [[a]]the time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client, the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a combination of a size, a timestamp, and a type of the extracted content of the second file[; and]]

~~in response to receiving the extracted content of the second file, updating the first index stored on the first client using the received content of the second file.~~

2. (Original) The method of claim 1, wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file.

3. (Previously Presented) The method of claim 1, further comprising receiving from a server an indication that the server is configured to transmit the extracted content to a requesting peer client; and transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.

4. (Previously Presented) The method of claim 3, further comprising receiving requirements from the server, locating the metadata that meets the requirements, and selecting content associated with the metadata for transmission to the peer client.

5. (Original) The method of claim 4, wherein the requirements include time stamp values or data bit values.

6. (Canceled)

7. (Previously Presented) The method of claim 1, wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the peer client.

8. (Previously Presented) The method of claim 1, wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content to the peer client.

9. (Previously Presented) The method of claim 1, wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the extracted content through the first index.
10. (Previously Presented) The method of claim 1, further comprising extracting content from a third file independent of an event occurrence, indexing the extracted content from the third file, and transmitting the indexed content to the peer client.
11. (Original) The method of claim 1, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.
12. (Original) The method of claim 1, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.
13. (Original) The method of claim 1, further comprising increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.
14. (Previously Presented) The method of claim 1, further comprising associating an expiration date with the extracted content before it is transmitted to the peer client.
15. (Previously Presented) The method of claim 1, further comprising transmitting a request to delete the extracted content from the peer client if the first file is deleted from the first client.
- 16.-22. (Canceled)

23. (Currently Amended) A first computer, comprising:

a first index stored on the first computer, the first index indexing content from files stored on the first client and content from files stored on a peer computer of the first computer based on information extracted from the content of each of the files, the first computer and the peer computer being associated with a common user and configured to communicate with each other through a network, the peer computer storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

one or more processors; and

memory coupled to the one or more processors and operable for storing instructions, which, when executed by the one or more processors, cause the one or more processors to perform operations, comprising:

detecting an event indicating that an action associated with a first file stored on the first computer and not on the peer computer has been performed by a user at the first computer, wherein the action is unrelated to transmitting the first file to another computer;

in response to the detected event, extracting content from the first file and generating metadata for the first index stored on the first computer, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first computer;

transmitting the extracted content and the metadata of the first file from the first computer to the peer computer for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer computer;

transmitting, using the first computer a request for missing content in a time range;

receiving an update for the first index, the update including metadata for a second file at the peer computer, the second file associated with the time range;

in response to receiving the metadata of the second file, updating the first index stored on the first computer using the metadata of the second file; and

receiving from the peer computer ~~obtaining~~ extracted content of ~~[[a]]the~~ second file associated with ~~[[a]]the~~ time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the

peer computer and not on the first computer, the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a combination of a size, a timestamp, and a type of the extracted content of the second file

[[; and]]

~~in response to receiving the extracted content, updating the first index stored on the first computer using the received content and metadata of the second file.~~

24. (Currently Amended) A computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations comprising:

storing a first index of files on a first client, the first index indexing content from files stored on the first client and content from files stored on the peer client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client;

using the first client in response to the event, extracting content from the first file and generating metadata for the first index stored on the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;

transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client;

transmitting, using the first client a request for missing content in a time range;

receiving an update for the first index, the update including metadata for a second file at the peer client, the second file associated with the time range;

in response to receiving the metadata of the second file, updating the first index stored on the first client using the metadata of the second file; and

receiving from the peer client obtaining extracted content of [[a]]the second file associated with [[a]]the time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client, the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a combination of a size, a timestamp, and a type of the extracted content of

Applicant : Sigurdsson, et al.
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Filed : January 25, 2006
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Attorney Docket No.: 16113-0094001

the second file; and

~~———— in response to receiving the extracted content of the second file, updating the first index stored on the first client using the received content of the second file.~~

25.-29. (Canceled)

30. (Currently Amended) A computer-implemented method, comprising:

storing a first index on a first client and a peer index on a peer client of the first client, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index;

detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index;

updating the first index on the first client using the extracted content and metadata of the first file;

transmitting the extracted content and metadata of the first file to the peer client, the transmitting according to a priority algorithm that specifies an order for transmitting based on a combination of a size, a timestamp, and a type of the extracted content of the first file;

receiving the extracted content and metadata of the first file at the peer client;

updating the peer index stored on the peer client using the extracted content and metadata of the first file;

detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second user at the peer client, wherein the action is unrelated to transmitting the second file to another client;

using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in the peer index;

updating the peer index on the peer client using the extracted content and metadata of the second file;

transmitting the extracted content and metadata of the second file to the first client in

which the second file is associated with a time range for needed content in which the time frame for needed content was previously transmitted to the peer client, the transmitting according to the priority algorithm, the priority algorithm specifying the order for transmitting based on a combination of a size, a timestamp, and a type of the extracted content of the second file;

receiving the extracted content and metadata of the second file at the first client; and
updating the first index stored on the first client using the extracted content and metadata of the second file.

31. (Currently Amended) A computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations comprising:

storing a first index on a first client and a peer index on a peer client of the first client, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index;

detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index;

updating the first index on the first client using the extracted content and metadata of the first file;

transmitting the extracted content and metadata of the first file to the peer client, the transmitting according to a priority algorithm that specifies an order for transmitting based on a combination of a size, a timestamp, and a type of the extracted content of the first file;

receiving the extracted content and metadata of the first file at the peer client;

updating the peer index stored on the peer client using the extracted content and metadata of the first file;

detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second user at the peer client, wherein the action is unrelated to transmitting the second file to another client;

using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in the peer index;

updating the peer index on the peer client using the extracted content and metadata of the second file;

transmitting the extracted content and metadata of the second file to the first client in which the second file is associated with a time range for needed content in which the time frame for needed content was previously transmitted to the peer client, the transmitting according to the priority algorithm, the priority algorithm specifying the order for transmitting content based on a combination of a size, a timestamp, and a type of the extracted content of the second file;

receiving the extracted content and metadata of the second file at the first client; and

updating the first index stored on the first client using the extracted content and metadata of the second file.

32. (New) The method of claim 1,

wherein a priority for the extracted content is a function of the timestamp, the size, and the type, such that:

the sooner the elapsed time from the timestamp, the higher the priority;

the smaller the size of the extracted content, the higher the priority; and

the more preferred the type, the higher the priority.

33. (New) The method of claim 32, wherein the priority is based on a non-linear function of size.

34. (New) The method of claim 32, wherein the priority is determined by adjusting a base priority, C , according to the following equation such that the lower the base priority, the higher determined priority, wherein s is the size, B_{type} is a boost factor based on the type of the extracted content, and t/K is a scaled elapsed time based on the timestamp:

$$C * \log_n(s) \sqrt{t/K} / B_{\text{type}}.$$

35. (New) The method of claim 32, further comprising:

determining from a plurality of sources a source that has the extracted content of the second file, based on the received metadata of the second file; and

wherein the obtaining the extracted content of the second file comprises obtaining the extracted content of the second file from the determined source.

36. (New) The method of claim 33,

wherein the plurality sources comprise a server, the peer client, and a third client

where the determining the source from which to obtain the extracted content of the second file comprises:

determining that the peer client is unavailable over the network, and

determining the source to be the third client other than the peer client storing the extracted content.

REMARKS

Claims 1-5, 7-15, 23, 24, 30, and 31 are pending, with claims 1, 23, 24, 30, and 31 being independent. Claims 1, 23, 24, 30, and 31 have been amended. Claims 32-36 have been added. No new matter has been added. (*See e.g.* ¶ [0059], and Figures 6-9) Reconsideration and allowance of the above-referenced application are respectfully requested.

Examiner Interview

Examiner Engelskirchen and Examiner Padmanabhan are thanked for taking the time to interview this case with Joseph Benson on January 12, 2011. Mr. Benson discussed the subject matter of proposed amendments to claim 1, in particular, that the cited references alone or in combination do not teach separately receiving metadata from a server regarding a second file to update the first index using the metadata, and obtaining the extracted content of the second file according to a priority determined by a priority algorithm. Examiner Engelskirchen indicated that subject matter from paragraph [0059] regarding details of the priority algorithm, if included in the independent claim, would overcome the references of record.

Claim Rejections under – 35 U.S.C. § 103

Claims 1, 2, 9-12, 15, 23-24, and 30-31 stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Newbold et al. (2006/0031198), in view of Kucala (6,243,705), and further in view of Wolf et al. (2006/0015539). This rejection is respectfully traversed.

Amended independent claim 1 recites in part: “the extracted content obtained according to a priority algorithm that specifies an order for obtaining content including the extracted content of the second file based on a combination of a size, a timestamp, and a type of the extracted content of the second file.” Claim 1 was amended with subject matter from paragraph [0059] of the specification according to the examiner’s recommendation that such subject matter would overcome the references of record. Newbold et al. (2006/0031198), Kucala (6,243,705), and Wolf et al. (2006/0015539), alone or in combination do not teach this subject matter. Newbold and Kucala are silent regarding the subject matter. Wolf recites:

“Table 1 illustrates an exemplary synchronization rule set with four rules. In this embodiment, two rules are conditioned on company name. The third and fourth rules are based on a field called "category." Different synchronization policies are defined therein. Any data records that matches the condition(s) specified in a rule will be synchronized as defined in the corresponding synchronization policy. Data records that miss conditions of all rules may be synchronized according to a default rule. In an embodiment, data records that match conditions of multiple rules may be flagged to a system operator for resolution. Alternatively, the rules may include a priority indicator that specifies which rules take precedence over other rules.”

See e.g., Wolf at ¶ [0026] (emphasis added). According to Wolf synchronization rules determine which data records will be synchronized. The priority mentioned in Wolf is directed to prioritization of which rules will be applied, not a prioritization that specifies the order in which content is to be obtained. Accordingly, claim 1 is allowable over the combination of Newbold, Kucala, and Wolf. Independent claims 1, 23, 24, 30, and 31 include subject matter similar to claim 1 and are allowable for at least similar reasons as claim 1. Claims 2, 9-12, 15, and 32-36 depend from claim 1 and are allowable based on claim 1 and on the additional recitations they contain.

Claims 3-5 and 7-8 stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Newbold, in view of Kucala and Wolf, as applied to claim 1, and further in view of Toyama (2005/0190273). The applied portions of Toyama fail to remedy the deficiencies in Kucala, Newbold, and Wolf addressed above. Accordingly, claims 3-5, 7, and 8 are in condition for allowance.

Claim 14 stands rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Newbold, in view of Kucala and Wolf, as applied to claim 1, and further in view of Farber et al. (5,978,791). The applied portions of Farber fail to remedy the deficiencies in Kucala, Newbold, and Wolf addressed above. Accordingly, claim 14 is in condition for allowance.

Claim 13 stands rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Newbold, in view of Kucala and Wolf, as applied to claim 1, and further in view of Sidman

(2004/0122741). The applied portions of Sidman fail to remedy the deficiencies in Kucala, Newbold, and Wolf addressed above. Accordingly, claim 13 is in condition for allowance.

CONCLUSION

The foregoing comments made with respect to the positions taken by the Examiner are not to be construed as acquiescence with other positions of the Examiner that have not been explicitly contested. Accordingly, the above arguments for patentability of a claim should not be construed as implying that there are not other valid reasons for patentability of that claim or other claims.

In view of the amendments and remarks herein, claims 1, 2, 9-12, 15, 23-24, and 30-36 should be in condition for allowance. A formal notice of allowance is respectfully requested.

Please apply any excess claims fees and any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: April 14, 2011

/Joseph P. Benson, Reg. No. 61,794/
Joseph P. Benson
Reg. No.61,794

Fish & Richardson P.C.
PTO Customer No.: 21876

Telephone: (858) 678-5070
Facsimile: (877) 769-7945

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Electronic Patent Application Fee Transmittal

Application Number:	11339301			
Filing Date:	25-Jan-2006			
Title of Invention:	Multiple client search method and system			
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson			
Filer:	Joseph P. Benson/angelica zepeda			
Attorney Docket Number:	16113-0094001			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	1253	1	Box & Dropbox Exhibit 1017 ¹¹¹⁰	1110

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				1110

Electronic Acknowledgement Receipt

EFS ID:	9882262
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Joseph P. Benson/angelica zepeda
Filer Authorized By:	Joseph P. Benson
Attorney Docket Number:	16113-0094001
Receipt Date:	14-APR-2011
Filing Date:	25-JAN-2006
Time Stamp:	15:55:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1110
RAM confirmation Number	2371
Deposit Account	061050
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Msg & Digest	Multi Part/zip	Pages (if appl.)
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1		16113-0094001_Reply.PDF	153255 c11877015fb67fc223cd18a1b3093ad967a3522a	yes	16				
	Multipart Description/PDF files in .zip description								
	Document Description		Start	End					
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1					
	Claims		2	13					
	Applicant Arguments/Remarks Made in an Amendment		14	16					
Warnings:									
Information:									
2	Fee Worksheet (PTO-875)	fee-info.pdf	29711 750cea68941ad9ad0311187395c484e62d23ba59	no	2				
Warnings:									
Information:									
Total Files Size (in bytes):			182966						
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>									

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APPLICATION AS FILED – PART I																
(Column 1)			(Column 2)			SMALL ENTITY <input type="checkbox"/>		OR		OTHER THAN SMALL ENTITY						
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)								
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A										
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A										
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A										
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =		*		X \$ =				OR						
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =				OR						
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).														
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))																
* If the difference in column 1 is less than zero, enter "0" in column 2.																
APPLICATION AS AMENDED – PART II																
(Column 1)			(Column 2)			(Column 3)			SMALL ENTITY		OR		OTHER THAN SMALL ENTITY			
AMENDMENT	04/14/2011		CLAIMS REMAINING AFTER AMENDMENT				HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))		* 23		Minus		** 28		= 0		X \$ =		OR			
	Independent (37 CFR 1.16(h))		* 5		Minus		*** 6		= 0		X \$ =		OR			
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))															
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))															
												TOTAL ADD'L FEE		OR		TOTAL ADD'L FEE
(Column 1)			(Column 2)			(Column 3)			SMALL ENTITY		OR		OTHER THAN SMALL ENTITY			
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT				HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))		*		Minus		**		=		X \$ =		OR			
	Independent (37 CFR 1.16(h))		*		Minus		***		=		X \$ =		OR			
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))															
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))															
												TOTAL ADD'L FEE		OR		TOTAL ADD'L FEE
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.																
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".																
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".																
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.																

Legal Instrument Examiner:
/NICOLE LOVE-HENSLEY/

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

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



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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-0094001	7556

26192 7590 01/19/2011
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER

ENGELSKIRCHEN, JEREMY D

ART UNIT	PAPER NUMBER
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2157

NOTIFICATION DATE	DELIVERY MODE
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01/19/2011

ELECTRONIC

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

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

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

PATDOCTC@fr.com

Interview Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner Jeremy D. Engelskirchen	Art Unit 2157	

All participants (applicant, applicant's representative, PTO personnel):

(1) Jeremy D. Engelskirchen. (3) Joseph Benson (Reg. No. 61,794).

(2) Kavita Padmanabhan. (4) ____.

Date of Interview: 12 January 2011.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: ____.

Claim(s) discussed: 1.

Identification of prior art discussed: Wolf et al.

Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant's representative gave a brief background of the invention. We discussed the content of the proposed limitations focusing on the content described in figure 6 of the application. The Examiner explained that the limitations describing the priority algorithms of the proposed dependent claims is not believed to be in the applied prior art, however the Examiner suggested that the Applicant's specification at para. [0059] discloses the feature of boosting priority scores based on the type of data which could be incorporated into the claims to potentially overcome the rejection.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

/Jeremy D Engelskirchen/ Examiner, Art Unit 2157	/CHARLES KIM/ Supervisory Patent Examiner, Art Unit 2157
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Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-0094001	7556

26192 7590 10/14/2010
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER

ENGELSKIRCHEN, JEREMY D

ART UNIT	PAPER NUMBER
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2157

NOTIFICATION DATE	DELIVERY MODE
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10/14/2010

ELECTRONIC

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

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

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

PATDOCTC@fr.com

Office Action Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner Jeremy D. Engelskirchen	Art Unit 2157	

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 20 September 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5, 7-15, 23, 24, 30 and 31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-15, 23, 24, 30 and 31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

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

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 20, 2010 has been entered.

Response to Amendment

2. Claims 1, 8, 23, 24, 30, and 31 are amended. Claims 1-5, 7-15, 23-24, and 30-31 are pending.

Claim Objections

3. Claim 23 objected to because of the following informalities: In line 24, "peer client" should be changed to "peer computer". Appropriate correction is required.

4. Claims 30 and 31 objected to because of the following informalities: In line 29 of claim 30 and line 31 of claim 31, "time frame" should be changed to "time range". Appropriate correction is required.

Claim Rejections - 35 USC § 103

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

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

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

6. **Claims 1, 2, 9-12, 15, 23-24, and 30-31 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold et al. (Pub. No. US 2006/0031198), hereinafter Newbold, in view of Kucala (Pat. No. US 6,243,705), and further in view of Wolf et al. (Pub. No. US 2006/0015539), hereinafter Wolf.**

7. With respect to claim 1, Newbold discloses a computer-implemented method comprising: storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*), the first index indexing content from files stored on the first client based on information extracted from the content of each of the files ([0008], *index module may index the content data and metadata from the monitored documents*).

the first client and the peer client being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the*

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workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.);

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*);

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored at the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

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However, Kucala discloses indexing content from files stored on a peer client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), the peer client storing a peer index (Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*) and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client (see Col. 5, lines 17-31); receiving from the peer client extracted content of a second file stored on the peer client and not on the first client (see Col. 5, lines 17-31); and in response to receiving the extracted content of the second file, updating the first index stored on the first client using the received content and metadata of the second file (see Col. 5, lines 17-31).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the invention of Newbold to include synchronizing local and remote data, as taught by Kucala, in order to reconcile two changeable databases without any user interaction (Kucala, Col. 2, lines 1-3). The motivation/suggestion to combine would be to allow access to similar data from a handheld computing device and a personal computer.

The combination of Newbold and Kucala does not disclose receiving from the peer client extracted content of a second file associated with a time range for needed content in which the

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time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client.

However, Wolf discloses receiving from the peer client extracted content of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client ([0042]-[0043], *FIG. 10 illustrates a method 1000 according to another embodiment of the present invention. This embodiment permits an operator to limit a synchronization operation to data records that match a data range identifier entered by the operator. In the embodiment, the method 1000 begins upon receipt of a synchronization command that includes a date range identifier (box 1010). The method 1000 identifies records from each client data set that are candidates for synchronization (box 1020). This initial identification process may occur according to conventional processes. Prior to synchronizing individual data records, the method may compare a time stamp of the record to a data range identified as part of the synchronization command (box 1030). If the time stamp falls within the specified date range, the record is synchronized, again, according to conventional processes (boxes 1040, 1050).*

Newbold, Kucala, and Wolf are analogous art because they are in the same field of endeavor, content management systems. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the invention of Newbold, as modified by Kucala, to include a time range for content extraction, as taught by Wolf, in order to permit the operator to customize operation of the synchronization agent along parameters that are critical to the operators' use of the data (Wolf, [0003]). The motivation/suggestion to combine

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would be to allow the user to restrict the transfer of content to records that meet a predetermined date restriction (Wolf, [0005]).

8. With respect to claim 2, the combination of Newbold, Kucala, and Wolf discloses claim

1. Newbold discloses wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file ([0008]-[0010], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module*).

9. With respect to claim 9, the combination of Newbold, Kucala, and Wolf discloses claim

1. Newbold discloses wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the extracted content through the first index ([0009], *The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module*).

10. With respect to claim 10, the combination of Newbold, Kucala, and Wolf discloses claim

1. Newbold discloses extracting content from a third file independent of an event occurrence,

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indexing the extracted content from the third file, and transmitting the indexed content to the peer client ([0022]).

11. With respect to claim 11, the combination of Newbold, Kucala, and Wolf discloses claim

1. Newbold discloses wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text ([0046], *Application plugin module 302 may extract information from documents such as, for example, the document type, content as text, author, size, creation date, and/or other document information*).

12. With respect to claim 12, the combination of Newbold, Kucala, and Wolf discloses claim

1. Newbold discloses wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting ([0008], *obtain content data [...] from the monitored documents*).

13. With respect to claim 15, the combination of Newbold, Kucala, and Wolf discloses claim

1. Kucala further discloses transmitting a request to delete the extracted content from the peer client if the first file is deleted from the first client (Col. 2, lines 25-28 and Fig. 4).

14. With respect to claim 23, Newbold discloses a first computer, comprising: a first index

stored on the first computer, the first index indexing content from files stored on the first client ([0008], *index module may index the content data and metadata from the monitored documents*);

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the first computer and the peer computer being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*);

one or more processors; and memory coupled to the one or more processors and operable for storing instructions, which, when executed by the one or more processors, cause the one or more processors to perform operations, comprising: detecting an event indicating that an action associated with a first file stored on the first computer and not on the peer computer has been performed by a user at the first computer, wherein the action is unrelated to transmitting the first file to another computer ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*);

in response to the detected event, extracting content from the first file and generating metadata for the first index stored on the first computer, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first computer ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

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Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses indexing content from files stored on a peer computer of the first computer based on information extracted from the content of each of the files (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), the peer computer storing a peer index (Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting the extracted content and the metadata of the first file from the first computer to the peer computer for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer computer (see Col. 5, lines 17-31); receiving from the peer computer extracted content of a second file stored on the peer computer and not on the first computer (see Col. 5, lines 17-31); and in response to receiving the extracted content of the second file, updating the first index stored on the first computer using the received content and metadata of the second file (see Col. 5, lines 17-31).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the invention of Newbold to include synchronizing local and remote data, as taught by Kucala, in order to reconcile two changeable databases without any user interaction (Kucala,

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Col. 2, lines 1-3). The motivation/suggestion to combine would be to allow access to similar data from a handheld computing device and a personal computer.

The combination of Newbold and Kucala does not disclose receiving from the peer client extracted content of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client.

However, Wolf discloses receiving from the peer client extracted content of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client ([0042]-[0043], *FIG. 10 illustrates a method 1000 according to another embodiment of the present invention. This embodiment permits an operator to limit a synchronization operation to data records that match a data range identifier entered by the operator. In the embodiment, the method 1000 begins upon receipt of a synchronization command that includes a date range identifier (box 1010). The method 1000 identifies records from each client data set that are candidates for synchronization (box 1020). This initial identification process may occur according to conventional processes. Prior to synchronizing individual data records, the method may compare a time stamp of the record to a data range identified as part of the synchronization command (box 1030). If the time stamp falls within the specified date range, the record is synchronized, again, according to conventional processes (boxes 1040, 1050).*

Newbold, Kucala, and Wolf are analogous art because they are in the same field of endeavor, content management systems. Therefore, it would have been obvious to one of

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ordinary skill in the art at the time of invention to combine the invention of Newbold, as modified by Kucala, to include a time range for content extraction, as taught by Wolf, in order to permit the operator to customize operation of the synchronization agent along parameters that are critical to the operators' use of the data (Wolf, [0003]). The motivation/suggestion to combine would be to allow the user to restrict the transfer of content to records that meet a predetermined date restriction (Wolf, [0005]).

15. With respect to claim 24, Newbold discloses a computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations comprising ([0022], *regarding downloading the software*):

storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*), the first index indexing content from files stored on the first client based on information extracted from the content of each of the files ([0008], *index module may index the content data and metadata from the monitored documents*).

the first client and the peer client being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*);

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client,

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wherein the action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*);

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored at the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses indexing content from files stored on a peer client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), the peer client storing a peer index (Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*) and all of the indexed content of the peer index being synchronized with all of the

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indexed content of the first index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client (see Col. 5, lines 17-31); receiving from the peer client extracted content of a second file stored on the peer client and not on the first client (see Col. 5, lines 17-31); and in response to receiving the extracted content of the second file, updating the first index stored on the first client using the received content of the second file (see Col. 5, lines 17-31).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the invention of Newbold to include synchronizing local and remote data, as taught by Kucala, in order to reconcile two changeable databases without any user interaction (Kucala, Col. 2, lines 1-3). The motivation/suggestion to combine would be to allow access to similar data from a handheld computing device and a personal computer.

The combination of Newbold and Kucala does not disclose receiving from the peer client extracted content of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client.

However, Wolf discloses receiving from the peer client extracted content of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client ([0042]-[0043], *FIG. 10 illustrates a method 1000 according to another*

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embodiment of the present invention. This embodiment permits an operator to limit a synchronization operation to data records that match a data range identifier entered by the operator. In the embodiment, the method 1000 begins upon receipt of a synchronization command that includes a date range identifier (box 1010). The method 1000 identifies records from each client data set that are candidates for synchronization (box 1020). This initial identification process may occur according to conventional processes. Prior to synchronizing individual data records, the method may compare a time stamp of the record to a data range identified as part of the synchronization command (box 1030). If the time stamp falls within the specified date range, the record is synchronized, again, according to conventional processes (boxes 1040, 1050)).

Newbold, Kucala, and Wolf are analogous art because they are in the same field of endeavor, content management systems. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the invention of Newbold, as modified by Kucala, to include a time range for content extraction, as taught by Wolf, in order to permit the operator to customize operation of the synchronization agent along parameters that are critical to the operators' use of the data (Wolf, [0003]). The motivation/suggestion to combine would be to allow the user to restrict the transfer of content to records that meet a predetermined date restriction (Wolf, [0005]).

16. With respect to claim 30, Newbold discloses a computer-implemented method, comprising: storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*); the first client and the peer client being

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associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*); detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*); using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index; updating the first index on the first client using the extracted content and metadata of the first file ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses a peer index on a peer client of the first client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting the extracted content and metadata of the first file to the peer client (see Col. 5, lines 17-31); receiving the extracted content and metadata of the first file at the peer client (see Col. 5, lines 17-31); updating the peer index stored on the peer client using the extracted content and metadata of the first file; detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second user at the peer client, wherein the action is unrelated to transmitting the second file to another client (see Col. 5, lines 17-31); using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in the peer index (see Col. 5, lines 17-31); updating the peer index on the peer client using the extracted content and metadata of the second file (see Col. 5, lines 17-31); transmitting the extracted content and metadata of the second file to the first client (see Col. 5, lines 17-31); receiving the extracted content and metadata of the second file at the first client; and updating the first index stored on the first client using the extracted content and metadata of the second file (see Col. 5, lines 17-31).

The combination of Newbold and Kucala does not disclose the second file is associated with a time range for needed content in which the time frame for needed content was previously transmitted to the peer client.

However, Wolf discloses the second file is associated with a time range for needed content in which the time frame for needed content was previously transmitted to the peer client. ([0042]-[0043], FIG. 10 illustrates a method 1000 according to another embodiment of the present invention. This embodiment permits an operator to limit a synchronization operation to data records that match a data range identifier entered by the operator. In the embodiment, the method 1000 begins upon receipt of a synchronization command that includes a date range identifier (box 1010). The method 1000 identifies records from each client data set that are candidates for synchronization (box 1020). This initial identification process may occur according to conventional processes. Prior to synchronizing individual data records, the method may compare a time stamp of the record to a data range identified as part of the synchronization command (box 1030). If the time stamp falls within the specified date range, the record is synchronized, again, according to conventional processes (boxes 1040, 1050)).

Newbold, Kucala, and Wolf are analogous art because they are in the same field of endeavor, content management systems. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the invention of Newbold, as modified by Kucala, to include a time range for content extraction, as taught by Wolf, in order to permit the operator to customize operation of the synchronization agent along parameters that are critical to the operators' use of the data (Wolf, [0003]). The motivation/suggestion to combine

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would be to allow the user to restrict the transfer of content to records that meet a predetermined date restriction (Wolf, [0005]).

17. With respect to claim 31, Newbold discloses a computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations ([0022], *regarding downloading the software*); comprising: storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*); the first client and the peer client being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*); detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*); using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index; updating the first index on the first client using the extracted content and metadata of the first file ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined.*

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The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses a peer index on a peer client of the first client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting the extracted content and metadata of the first file to the peer client (see Col. 5, lines 17-31); receiving the extracted content and metadata of the first file at the peer client (see Col. 5, lines 17-31); updating the peer index stored on the peer client using the extracted content and metadata of the first file; detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second user at the peer client, wherein the action is unrelated to transmitting the second file to another

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client (see Col. 5, lines 17-31); using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in the peer index (see Col. 5, lines 17-31); updating the peer index on the peer client using the extracted content and metadata of the second file (see Col. 5, lines 17-31); transmitting the extracted content and metadata of the second file to the first client (see Col. 5, lines 17-31); receiving the extracted content and metadata of the second file at the first client; and updating the first index stored on the first client using the extracted content and metadata of the second file (see Col. 5, lines 17-31).

The combination of Newbold and Kucala does not disclose the second file is associated with a time range for needed content in which the time frame for needed content was previously transmitted to the peer client.

However, Wolf discloses the second file is associated with a time range for needed content in which the time frame for needed content was previously transmitted to the peer client. ([0042]-[0043], *FIG. 10 illustrates a method 1000 according to another embodiment of the present invention. This embodiment permits an operator to limit a synchronization operation to data records that match a data range identifier entered by the operator. In the embodiment, the method 1000 begins upon receipt of a synchronization command that includes a date range identifier (box 1010). The method 1000 identifies records from each client data set that are candidates for synchronization (box 1020). This initial identification process may occur according to conventional processes. Prior to synchronizing individual data records, the method may compare a time stamp of the record to a data range identified as part of the synchronization*

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command (box 1030). If the time stamp falls within the specified date range, the record is synchronized, again, according to conventional processes (boxes 1040, 1050)).

Newbold, Kucala, and Wolf are analogous art because they are in the same field of endeavor, content management systems. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the invention of Newbold, as modified by Kucala, to include a time range for content extraction, as taught by Wolf, in order to permit the operator to customize operation of the synchronization agent along parameters that are critical to the operators' use of the data (Wolf, [0003]). The motivation/suggestion to combine would be to allow the user to restrict the transfer of content to records that meet a predetermined date restriction (Wolf, [0005]).

18. Claims 3-5 and 7-8 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala and Wolf, as applied to claim 1, and further in view of Toyama (Pub. No. US 2005/0190273).

19. With respect to claim 3, the combination of Newbold, Kucala, and Wolf does not disclose receiving from a server an indication that the server is configured to transmit the extracted content to a requesting peer client; and transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.

However, Toyama discloses ([0019] and [0020], lines 10-14; *If the central server is configured with an image database containing all users images...it can also transfer images directly from its database to the requesting client*); and transmitting the content and the metadata to the server if the peer client is not currently networked to the first client ([0019]; *The server*

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sends the content and metadata to an online cache which corresponds to transmitting the content and the metadata to the server. The cache allows for transfer of images between peers even when both clients are not present on the Internet of other network at the same time).

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala and Wolf, to include a server to act as an intermediary between the clients, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

20. With respect to claim 4, the combination of Newbold, Kucala, Wolf and Toyama discloses claim 3. Toyama further discloses receiving requirements from the server, locating the metadata that meets the requirements, and selecting content associated with the metadata for transmission to the peer client ([0104]).

21. With respect to claim 5, the combination of Newbold, Kucala, Wolf and Toyama discloses claim 4. Toyama further discloses wherein the requirements include time stamp values or data bit values ([0099]).

22. With respect to claim 7, the combination of Newbold, Kucala, and Wolf does not disclose wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the peer client.

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However, Toyama discloses wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the peer client ([0019]). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala and Wolf, to include a server to act as an intermediary between the clients, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

23. With respect to claim 8, the combination of Newbold, Kucala, and Wolf does not disclose wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content to the peer client.

However, Toyama discloses wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content to the peer client ([0019]). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala and Wolf, to include a second client able to transmit to a server, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

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24. Claim 14 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala and Wolf, as applied to claim 1, and further in view of Farber et al. (Pat. No. US 5,978,791), hereinafter Farber.

25. With respect to claim 14, the combination of Newbold, Kucala, and Wolf does not disclose disclosing associating an expiration date with the extracted content before it is transmitted to the peer client. However, Farber discloses associating an expiration date with the extracted content before it is transmitted to the peer client (Col. 30, lines 32-35). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala and Wolf, to include associating expiration dates with content, as taught by Farber, to prevent content from being stored longer than desired.

26. Claim 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala and Wolf, as applied to claim 1, and further in view of Sidman (Pub. No. US 2004/0122741). Sidman is disclosed in applicant's IDS dated March 4, 2008.

27. With respect to claim 13, the combination of Newbold, Kucala, and Wolf does not disclose a throughput threshold for bandwidth. However, Sidman discloses increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value ([0152]).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the system expressly disclosed by Newbold, as modified by Kucala and Wolf, with the

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peer-to-peer content distribution and metadata generation system specifics disclosed by Sidman in order to improve efficiency of the peer-to-peer network topology, inter alia, by selecting host peers, storage requirements, and communicative techniques based on the particulars of each peer (client/server) node (Sidman, para [0152]).

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Applicant argues the amended limitation "receiving from the peer client extracted content of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client," as recited in claim 1. This limitation has been rejected under new grounds using Wolf et al.

Conclusion

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy D. Engelskirchen whose telephone number is (571) 270-1903. The examiner can normally be reached on Mon.-Thurs. 10:00 am-7:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Kim can be reached on (571) 272-7421. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/Jeremy D Engelskirchen/
Examiner, Art Unit 2157
October 5, 2010

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157

Notice of References Cited	Application/Control No. 11/339,301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL.	
	Examiner Jeremy D. Engelskirchen	Art Unit 2157	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2006/0015539	01-2006	Wolf et al.	707/201
*	B	US-2003/0093547	05-2003	Scheessele, Evan	709/231
*	C	US-7,565,447	07-2009	Gellens et al.	709/240
*	D	US-2006/0173975	08-2006	Nose et al.	709/219
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			


FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS


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

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

<i>Index of Claims</i> 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47			
CLAIM		DATE							
Final	Original	12/06/2007	06/21/2008	04/10/2009	08/15/2009	03/13/2010	10/06/2010		
	1	✓	✓	÷	✓	✓	✓		
	2	✓	✓	÷	✓	✓	✓		
	3	✓	✓	÷	✓	✓	✓		
	4	✓	✓	÷	✓	✓	✓		
	5	✓	✓	÷	✓	✓	✓		
	6	✓	-	-	-	-	-		
	7	✓	✓	÷	✓	✓	✓		
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	9	✓	✓	÷	✓	✓	✓		
	10	✓	✓	÷	✓	✓	✓		
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	15	✓	✓	÷	✓	✓	✓		
	16	✓	✓	÷	N	-	-		
	17	✓	✓	÷	N	-	-		
	18	✓	✓	÷	N	-	-		
	19	✓	✓	÷	N	-	-		
	20	✓	✓	÷	N	-	-		
	21	✓	✓	÷	N	-	-		
	22	✓	✓	÷	N	-	-		
	23	✓	✓	÷	✓	✓	✓		
	24	✓	✓	÷	✓	✓	✓		
	25		✓	÷	✓	-	-		
	26		✓	÷	✓	-	-		
	27		✓	÷	✓	-	-		
	28		✓	÷	✓	-	-		
	29		✓	÷	✓	-	-		
	30					✓	✓		
	31					✓	✓		

Search Notes 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Jeremy D Engelskirchen	Art Unit 2157

SEARCHED			
Class	Subclass	Date	Examiner
707	622, 999.100, 999.200, 999.01 text search	10/6/2010	JDE
709	232 text search	10/6/2010	JDE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor and Co-Inventors Search and DBL PAT Search	11/29/2007	JDE
Searched Class 707/010 and class 707 in EAST with keywords	12/3/2007	JDE
Searched NPL	12/3/2007	JDE
Searched Google Patents with keywords	11/29/2007	JDE
Searched EAST history attached	6/30/2008	JDE
Searched class 707/200 and 709 and 715 with keywords	6/30/2008	JDE
Searched Google Scholar and Google	6/24/2008	JDE
Updated Search in EAST in all DBs	8/17/2009	JDE
Searched in Google Patents	8/17/2009	JDE
Updated Search in EAST, history attached	3/13/2010	JDE
Searched in Google Patents with keywords	3/13/2010	JDE
Updated Search in EAST in all DBs, history attached	10/7/2010	JDE
Searched in Google Patents with keywords	10/7/2010	JDE

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/Jeremy D Engelskirchen/ Examiner.Art Unit 2157	
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S208	3	S205 and predetermin\$3 with range	US-PGPUB; USPAT; USOCR	AND	OFF	2010/10/06 13:12
S207	16	S205 and "707".clas.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/10/06 13:11
S206	15	S205 and "709".clas.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/10/06 13:11
S205	49	S203 and (updat\$3 or synchroniz\$3) with (time near2 stamp)	US-PGPUB; USPAT; USOCR	AND	OFF	2010/10/06 13:11
S204	46	S203 and "709".clas.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/10/06 13:09
S203	134	synchronizing with client (time near2 stamp) file content	US-PGPUB; USPAT; USOCR	AND	OFF	2010/10/06 13:09
S202	7	S201 and time with (range or stamp)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/06 13:06
S201	18	("20010042124" "20020069218" "20040068524" "20040122741" "20040122958" "20040177319" "20040236801" "20040255048" "20050015466" "20050114431" "20050190273" "20060031198" "5978791" "6243705" "6625623" "6636854" "6662198" "7330997"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/06 13:05
S200	8	S199 and time with (range or stamp)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/06 13:03

S199	29	("20020069192" "20040122870" "20040243644" "20050177617" "20050203962" "20050216524" "20050256907" "20060015539" "20060031264" "20060041596" "20060106879" "20060136511" "6324544" "6430576" "6438563" "6526434" "6757696" "6842768" "6993522" "7024429" "7024430" "7124151" "7155465" "7203708" "7240091" "7293049" "7315978").PN. OR ("7529780").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/06 12:59
S198	1	S197 and time with range	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 12:02
S197	1	11/339301	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 12:02
S196	3	S195 and p2p	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 12:00
S195	134	S187 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 12:00
S194	0	S187 and 707/999.200. ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 12:00

S193	0	S187 and 707/999.100.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:59
S192	0	S187 and 707/999.10.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:59
S191	0	S187 and 707/999.010.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:59
S190	0	S187 and 707/622.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:59
S189	9	S187 and 709/232.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:58
S188	4	synchroniz\$4 with (time with (range\$2 or frame \$2)) with associated with file	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:57
S187	13385	synchroniz\$4 with (time with (range\$2 or frame \$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:57
S186	10	S185 and time with stamp \$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:54

S185	20	S184 and "709".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:53
S184	186	transmit\$4 with (time with (range\$2 or frame\$2)) with set\$4 with (transfer\$3 or download\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:53
S183	12	schedul\$3 with (download \$3 or transfer\$3) with file \$2 with time with (range\$1 or frame\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:51
S182	46	schedul\$3 with (download \$3 or transfer\$3) with file \$2 same metadata	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:51
S181	26	schedul\$3 with (download \$3 or transfer\$3) with file \$2 with metadata	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:47
S180	2069	schedul\$3 with (download \$3 or transfer\$3) with file \$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:47
S179	59	S178 and "709".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:39
S178	257	S177 and time with server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:39

S177	582	p2p and (time with range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:38
S176	2	"20050190273".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/06 11:36
S175	27	S172 and "709".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 18:00
S172	387	S168 and (receiv\$3 with time with (frame\$2 or range\$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 18:00
S171	15	("20020040326" "20020104011" "20020172212" "20030023745" "20030093520" "20050108754" "5793973" "5914945" "6430161" "6690918" "6957269" "7010578" "7054293" "7055111" "7249176").PN. OR ("7565447").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/04 17:56
S170	3	("2003/0093547").URPN.	USPAT	OR	OFF	2010/10/04 17:55
S169	8	S168 and 709/232.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:47
S168	1680	set with (time with (range \$2 or frame\$2)) with (transfer\$3 or download \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:47

S167	1	S166 and 709/232.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:46
S166	186	transmit\$4 with (time with (range\$2 or frame\$2)) with set\$4 with (transfer\$3 or download\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:46
S165	41	S162 and 709/232.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:37
S164	0	S162 and 707/622.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:36
S163	0	S162 and 707/999.010. ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:35
S162	7226	time with (range or frame) with (download\$3 or transfer\$3) with (data or content)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:34
S161	2	"20050190273".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/10/04 17:30

EAST Search History (I nterference)

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10/ 7/ 2010 5:02:45 PM**C:\ Documents and Settings\ jengelskirchen\ My Documents\ EAST\ Workspaces\ 11339301.wsp**

Request For Continued Examination (RCE) Transmittal Address to: Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	<i>Application Number</i>	11/339,301
	<i>Filing Date</i>	January 25, 2006
	<i>First Named Inventor</i>	Sigurdsson, et al.
	<i>Group Art Unit</i>	2168
	<i>Conf No.</i>	7556
	<i>Examiner Name</i>	Jeremy D. Engelskirchen
	<i>Attorney Docket Number</i>	16113-0094001

This is a Request for Continued Examination (RCE) under 37 C.F.R. §1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

- Submission required under 37 C.F.R. §1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s)

 - ☐ Previously submitted. If a final Office action is outstanding, any amendment filed after the final Office action may be considered as a submission even if this box is not checked.
 - ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
 - ☐ Other _____
 - ☒ Enclosed
 - ☒ Amendment/Reply
 - ☐ Affidavit(s)/Declaration(s)
 - ☐ Information Disclosure Statement (IDS)
 - ☐ Other _____
- Miscellaneous**

 - ☐ Suspension of action on the above-identified application is requested under 37 C.F.R. §1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 C.F.R. §1.17(i) required)
 - ☐ Other _____
- Fee** The RCE fee under 37 C.F.R. §1.17(e) is required by 37 C.F.R. §1.114 when the RCE is filed.

 - ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. 06-1050
 - ☒ RCE fee required under 37 CFR 1.17(e)
 - ☒ Extension of time fee (37 CFR 1.136 and 1.17)
 - ☒ Other Any deficiencies
 - ☐ Check in the amount of \$_____ enclosed
 - ☐ Payment by credit card (Form PTO-2038 enclosed)

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT REQUIRED

<i>Name (Print/Type)</i>	Daniel J. Burns	<i>Registration No. (Attorney/Agent)</i>	50,222
<i>Signature</i>	/Daniel J. Burns/	<i>Date</i>	September 20, 2010

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Sigurdsson, et al.	Art Unit	: 2168
Serial No.	: 11/339,301	Examiner	: Jeremy D. Engelskirchen
Filed	: January 25, 2006	Conf. No.	: 7556
Title	: MULTIPLE CLIENT SEARCH METHOD AND SYSTEM		

MAIL STOP RCE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY TO FINAL OFFICE ACTION OF MARCH 19, 2010

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-implemented method, comprising:

storing a first index on a first client, the first index indexing content from files stored on the first client and content from files stored on a peer client of the first client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored on the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;

transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client;

receiving from the peer client extracted content and metadata of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client, the metadata specifying a source of the extracted content from the second file; and

in response to receiving the extracted content and the metadata of the second file, updating the first index stored on the first client using the received content and metadata of the second file.

2. (Original) The method of claim 1, wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file.
3. (Previously Presented) The method of claim 1, further comprising receiving from a server an indication that the server is configured to transmit the extracted content to a requesting peer client; and transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.
4. (Previously Presented) The method of claim 3, further comprising receiving requirements from the server, locating the metadata that meets the requirements, and selecting content associated with the metadata for transmission to the peer client.
5. (Original) The method of claim 4, wherein the requirements include time stamp values or data bit values.
6. (Canceled)
7. (Previously Presented) The method of claim 1, wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the peer client.
8. (Currently Amended) The method of claim 1, wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content and the metadata to the peer client.
9. (Previously Presented) The method of claim 1, wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the extracted content through the first index.

10. (Previously Presented) The method of claim 1, further comprising extracting content from a third file independent of an event occurrence, indexing the extracted content from the third file, and transmitting the indexed content to the peer client.

11. (Original) The method of claim 1, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

12. (Original) The method of claim 1, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

13. (Original) The method of claim 1, further comprising increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.

14. (Previously Presented) The method of claim 1, further comprising associating an expiration date with the extracted content before it is transmitted to the peer client.

15. (Previously Presented) The method of claim 1, further comprising transmitting a request to delete the extracted content from the peer client if the first file is deleted from the first client.

16.-22. (Canceled)

23. (Currently Amended) A first computer, comprising:

a first index stored on the first computer, the first index indexing content from files stored on the first client and content from files stored on a peer computer of the first computer based on information extracted from the content of each of the files, the first computer and the peer computer being associated with a common user and configured to communicate with each other through a network, the peer computer storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

one or more processors; and

memory coupled to the one or more processors and operable for storing instructions, which, when executed by the one or more processors, cause the one or more processors to perform operations, comprising:

detecting an event indicating that an action associated with a first file stored on the first computer and not on the peer computer has been performed by a user at the first computer, wherein the action is unrelated to transmitting the first file to another computer;

in response to the detected event, extracting content from the first file and generating metadata for the first index stored on the first computer, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first computer;

transmitting the extracted content and the metadata of the first file from the first computer to the peer computer for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer computer;

receiving from the peer computer extracted content and metadata of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer computer and not on the first computer, the metadata specifying a source of the extracted content from the second file; and

in response to receiving the extracted content and metadata of the second file, updating the first index stored on the first computer using the received content and metadata of the second file.

24. (Currently Amended) A computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations comprising:

storing a first index of files on a first client, the first index indexing content from files stored on the first client and content from files stored on the peer client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client;

using the first client in response to the event, extracting content from the first file and generating metadata for the first index stored on the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client;

transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client;

receiving from the peer client extracted content ~~and metadata~~ of a second file associated with a time range for needed content in which the time range for needed content was previously transmitted to the peer client, in which the second file is stored on the peer client and not on the first client, ~~the metadata specifying a source of the extracted content from the second file;~~ and

in response to receiving the extracted content ~~and the metadata~~ of the second file, updating the first index stored on the first client using the received content ~~and metadata~~ of the second file.

25.-29. (Canceled)

30. (Currently Amended) A computer-implemented method, comprising:

storing a first index on a first client and a peer index on a peer client of the first client, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index;

detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index;

updating the first index on the first client using the extracted content and metadata of the first file;

transmitting the extracted content and metadata of the first file to the peer client;

receiving the extracted content and metadata of the first file at the peer client;

updating the peer index stored on the peer client using the extracted content and metadata of the first file;

detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second user at the peer client, wherein the action is unrelated to transmitting the second file to another client;

using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in the peer index;

updating the peer index on the peer client using the extracted content and metadata of the second file;

transmitting the extracted content and metadata of the second file to the first client in which the second file is associated with a time range for needed content in which the time frame for needed content was previously transmitted to the peer client;

receiving the extracted content and metadata of the second file at the first client; and
updating the first index stored on the first client using the extracted content and metadata
of the second file.

31. (Currently Amended) A computer program product tangibly embodied in a tangible,
machine-readable storage device, the computer program product including instructions that,
when executed, perform operations comprising:

storing a first index on a first client and a peer index on a peer client of the first client, the
first client and the peer client being associated with a common user and configured to
communicate with each other through a network, each of the first index and the peer index
indexing content from files located on the first client and content from files located on the peer
client based on information extracted from the content of each of the files, and all of the indexed
content of the first index being synchronized with all of the indexed content of the peer index;

detecting, on the first client, a first event indicating that a first action associated with a
first file stored on the first client and not on the peer client has been performed by a first user at
the first client, wherein the first action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected first event, extracting content from
the first file and generating metadata for indexing the extracted content from the first file in the
first index;

updating the first index on the first client using the extracted content and metadata of the
first file;

transmitting the extracted content and metadata of the first file to the peer client;

receiving the extracted content and metadata of the first file at the peer client;

updating the peer index stored on the peer client using the extracted content and metadata
of the first file;

detecting a second event indicating that a second action associated with a second file
stored on the peer client and not on the first client has been performed by a second user at the
peer client, wherein the action is unrelated to transmitting the second file to another client;

using the peer client and in response to the detected second event, extracting content from
the second file and generating metadata for indexing the extracted content from the second file in

the peer index;

updating the peer index on the peer client using the extracted content and metadata of the second file;

transmitting the extracted content and metadata of the second file to the first client in which the second file is associated with a time range for needed content in which the time frame for needed content was previously transmitted to the peer client;

receiving the extracted content and metadata of the second file at the first client; and

updating the first index stored on the first client using the extracted content and metadata of the second file.

REMARKS

In response to the Office Action dated March 19, 2010, Applicant submits the following remarks.

Section 103 Rejections

Claims 1, 2, 9-12, 15, 23, 24, 30, and 31 are rejected under 35 U.S.C. §103(a) for allegedly being unpatentable over Newbold et al. (U.S. Patent Publication No. 2006/0031198, hereinafter "Newbold") in view of Kucala (U.S. Patent No. 6,243,705, hereinafter "Kucala").

The system disclosed in Newbold allows a user to search for documents that the user has previously viewed on its local machine. (See Abstract.) The system includes three main components: the desktop integration module, the index module, and the graphical user interface module. (See id.) The desktop integration module is an application which monitors documents with which the user interacts for predetermined events, and obtains content data and metadata from the monitored documents. (See id.) The index module indexes the content data and metadata received from the desktop integration module. (See id.) The graphical user interface module then permits a user to utilize the desktop integration module and index module by allowing a user to search for a document. (See id.)

The examiner noted that Newbold did not describe transmitting and receiving to a peer client and proffered Kucala as disclosing such.

Kucala described a method and apparatus for automatically reconciling records in corresponding files on palmtop (e.g., a personal data assistant) and a personal computer (PC) by comparing the records in the palmtop and PC files with the records in a backup file in a backup directory from the previous synchronization. (See 1:65 – 2:9.) When a user is ready to synchronize information on the two computer systems, the palmtop is connected to the PC. (See 2:10 – 2:27.) The system then compares each record of a file on the palmtop with the records in the backup file in the backup directory to determine whether each record on the palmtop file is new, updated or if it has been deleted from the palmtop file. (See id.)

However, Kucala did not describe "receiving from the peer client extracted content of a second file associated with a time range for needed content in which the time range for needed

content was previously transmitted to the peer client,” as recited in claim 1. The synchronization process in Kucala is based on a comparison between the contents of the corresponding file on the PC and the backup file in the backup directory to determine whether each record on the PC is new, updated or if it has been deleted from the PC file. (See *id.*) Kucala is silent regarding time ranges for needed content. Indeed, in the preferred embodiment of the Kucala, key contents of a record to be synchronized are identified irrespective of any time ranges associated with those records: “[m]atching key contents indicate that two records are the same.” (See 5:32-38.) It follows that Kucala also did not describe “a time range for needed content in which the time range for needed content was previously transmitted to the peer client.”

Accordingly, Kucala and Newbold did not describe, nor would their combination have made obvious, the above features of claim 1. Independent claims 23-24 and 30-31 are in condition for allowance for at least the reasons given in connection with claim 1.

Claims 3-5, 7, and 8 are rejected under 35 U.S.C. §103(a) for allegedly being unpatentable over Newbold, in view of Kucala, as applied to claim 1, and further in view of Toyama (U.S. Patent Publication No. 2005/0190273, hereinafter “Toyama”).

The applied portions of Toyama fail to remedy the deficiencies in Kucala and Newbold, addressed above. Accordingly, claims 3-5, 7, and 8 are in condition for allowance.

Claim 14 is rejected under 35 U.S.C. §103(a) for allegedly being unpatentable over Newbold, in view of Kucala, as applied to claim 1, and further in view of Farber et al. (U.S. Patent No. 5,978,791, hereinafter “Farber”).

The applied portions of Farber fail to remedy the deficiencies in Kucala and Newbold, addressed above. Accordingly, claim 14 is in condition for allowance.

Claim 13 is rejected under 35 U.S.C. §103(a) for allegedly being unpatentable over Newbold, in view of Kucala, as applied to claim 1, and further in view of Sidman (U.S. Patent Publication No. 2004/0122741, hereinafter “Sidman”).

The applied portions of Toyama fail to remedy the deficiencies in Kucala and Newbold, addressed above. Accordingly, claim 13 is in condition for allowance.

Conclusion

All of the dependent claims are patentable for at least similar reasons as those for the claims on which they depend are patentable. Canceled claims, if any, have been canceled without prejudice or disclaimer.

By responding in the foregoing remarks only to particular positions taken by the Examiner, Applicant does not acquiesce with other positions that have not been explicitly addressed. In addition, Applicant's arguments for the patentability of a claim should not be understood as implying that no other reasons for the patentability of that claim exist. Finally, Applicant's decision to amend or cancel any claim should not be understood as implying that Applicant agrees with any positions taken by the Examiner with respect to that claim or other claims.

The required RCE fee and the fee for a petition for a three-month extension of time are being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: September 20, 2010_____

/Daniel J. Burns/_____
Daniel J. Burns
Reg. No. 50,222

Customer Number 26192
Fish & Richardson P.C.
Telephone: (650) 839-5070
Facsimile: (877) 769-7945

50711041.doc

Electronic Patent Application Fee Transmittal

Application Number:	11339301			
Filing Date:	25-Jan-2006			
Title of Invention:	Multiple client search method and system			
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson			
Filer:	Daniel J. Burns/Melissa Alexander			
Attorney Docket Number:	16113-0094001			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	1253	1	Box & Dropbox Exhibit 101 ¹¹¹⁰	1 ¹¹¹⁰

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for continued examination	1801	1	810	810
Total in USD (\$)				1920

Electronic Acknowledgement Receipt

EFS ID:	8458024
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Daniel J. Burns/Melissa Alexander
Filer Authorized By:	Daniel J. Burns
Attorney Docket Number:	16113-0094001
Receipt Date:	20-SEP-2010
Filing Date:	25-JAN-2006
Time Stamp:	19:44:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 1920
RAM confirmation Number	6024
Deposit Account	061050
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Msg & Digest	Multi Part/zip	Pages (if appl.)
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1		rce.pdf	582375 2a93157eeb3f4deb8f63425060c17ca15967741d	yes	13				
	Multipart Description/PDF files in .zip description								
	Document Description		Start	End					
	Request for Continued Examination (RCE)		1	1					
	Amendment Submitted/Entered with Filing of CPA/RCE		2	2					
	Claims		3	10					
	Applicant Arguments/Remarks Made in an Amendment		11	13					
Warnings:									
Information:									
2	Fee Worksheet (PTO-875)	fee-info.pdf	31927 310ec5a5abb95e0733c7cd3e780c2dd283547747	no	2				
Warnings:									
Information:									
Total Files Size (in bytes):			614302						
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>									

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/339,301		Filing Date 01/25/2006		<input type="checkbox"/> To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY <input type="checkbox"/>		OR		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)				
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A		N/A					
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A		N/A					
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=	OR	X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT	09/20/2010	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	* 18	Minus	** 28	= 0	X \$ =	OR	X \$52=	0	
	Independent (37 CFR 1.16(h))	* 5	Minus	***6	= 0	X \$ =	OR	X \$220=	0	
<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR			
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0	
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =	OR	X \$ =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =	OR	X \$ =		
<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR			
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE		
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>										

Legal Instrument Examiner:
/FREDERICK E. BRISCOE/

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-0094001	7556
26192	7590	03/19/2010		
FISH & RICHARDSON P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022			EXAMINER ENGELSKIRCHEN, JEREMY D	
			ART UNIT 2168	PAPER NUMBER
			NOTIFICATION DATE 03/19/2010	DELIVERY MODE ELECTRONIC

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

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

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

PATDOCTC@fr.com

Office Action Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner JEREMY D. ENGELSKIRCHEN	Art Unit 2168	

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 20 November 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5, 7-15, 23, 24, 30 and 31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-15, 23, 24, 30 and 31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

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

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>11/20/2009</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is in response to applicant's communications filed November 20, 2009. The Applicant's remarks and amendments to the claims were considered with the results that follow.

Response to Amendment

2. Claims 1, 3-4, 7-10, 14-15, and 23-24 are amended. Claims 1-5, 7-15, 23, 24, 30 and 31 are pending.

Claim Rejections - 35 USC § 103

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

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

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

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5. **Claims 1, 2, 9-12, 15, 23-24, and 30-31 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold et al. (Pub. No. US 2006/0031198), hereinafter Newbold, in view of Kucala (Pat. No. US 6,243,705).**

6. With respect to claim 1, Newbold discloses a computer-implemented method comprising: storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*), the first index indexing content from files stored on the first client based on information extracted from the content of each of the files ([0008], *index module may index the content data and metadata from the monitored documents*).

the first client and the peer client being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*);

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*);

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored at the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client ([0008]-[0010], *For example, the desktop integration*

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module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses indexing content from files stored on a peer client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), the peer client storing a peer index (Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*) and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client (see Col. 5, lines 17-31); receiving from the peer client extracted content and metadata of a second file stored on the peer client and not on the first client, the metadata

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specifying a source of the extracted content from the second file (see Col. 5, lines 17-31); and in response to receiving the extracted content and the metadata of the second file, updating the first index stored on the first client using the received content and metadata of the second file (see Col. 5, lines 17-31).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the invention of Newbold to include synchronizing local and remote data, as taught by Kucala, in order to reconcile two changeable databases without any user interaction (Kucala, Col. 2, lines 1-3). The motivation/suggestion to combine would be to allow access to similar data from a handheld computing device and a personal computer.

7. With respect to claim 2, the combination of Newbold and Kucala discloses claim 1. Newbold discloses wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file ([0008]-[0010], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module*).

8. With respect to claim 9, the combination of Newbold and Kucala discloses claim 1. Newbold discloses wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the extracted content through the

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first index ([0009], *The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module*).

9. With respect to claim 10, the combination of Newbold and Kucala discloses claim 1. Newbold discloses extracting content from a third file independent of an event occurrence, indexing the extracted content from the third file, and transmitting the indexed content to the peer client ([0022]).

10. With respect to claim 11, the combination of Newbold and Kucala discloses claim 1. Newbold discloses wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text ([0046], *Application plugin module 302 may extract information from documents such as, for example, the document type, content as text, author, size, creation date, and/or other document information*).

11. With respect to claim 12, the combination of Newbold and Kucala discloses claim 1. Newbold discloses wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting ([0008], *obtain content data [...] from the monitored documents*).

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12. With respect to claim 15, the combination of Newbold and Kucala discloses claim 1.

Kucala further discloses transmitting a request to delete the extracted content from the peer client if the first file is deleted from the first client (Col. 2, lines 25-28 and Fig. 4).

13. With respect to claim 23, Newbold discloses a first computer, comprising: a first index stored on the first computer, the first index indexing content from files stored on the first client ([0008], *index module may index the content data and metadata from the monitored documents*);

the first computer and the peer computer being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*);

one or more processors; and memory coupled to the one or more processors and operable for storing instructions, which, when executed by the one or more processors, cause the one or more processors to perform operations, comprising: detecting an event indicating that an action associated with a first file stored on the first computer and not on the peer computer has been performed by a user at the first computer, wherein the action is unrelated to transmitting the first file to another computer ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*);

in response to the detected event, extracting content from the first file and generating metadata for the first index stored on the first computer, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index

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entered at the first computer ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses indexing content from files stored on a peer computer of the first computer based on information extracted from the content of each of the files (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), the peer computer storing a peer index (Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*);

transmitting the extracted content and the metadata of the first file from the first computer to the peer computer for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer computer (see Col. 5, lines 17-31); receiving from the

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peer computer extracted content and metadata of a second file stored on the peer computer and not on the first computer, the metadata specifying a source of the extracted content from the second file (see Col. 5, lines 17-31); and in response to receiving the extracted content and metadata of the second file, updating the first index stored on the first computer using the received content and metadata of the second file (see Col. 5, lines 17-31).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the invention of Newbold to include synchronizing local and remote data, as taught by Kucala, in order to reconcile two changeable databases without any user interaction (Kucala, Col. 2, lines 1-3). The motivation/suggestion to combine would be to allow access to similar data from a handheld computing device and a personal computer.

14. With respect to claim 24, Newbold discloses a computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations comprising ([0022], *regarding downloading the software*):

storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*), the first index indexing content from files stored on the first client based on information extracted from the content of each of the files ([0008], *index module may index the content data and metadata from the monitored documents*).

the first client and the peer client being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the*

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workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.);

detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user at the first client, wherein the action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*);

using the first client and in response to the detected event, extracting content from the first file and generating metadata for the first index stored at the first client, the metadata for indexing the extracted content so that the extracted content is identifiable in response to a search of the first index entered at the first client ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

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However, Kucala discloses indexing content from files stored on a peer client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), the peer client storing a peer index (Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*) and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata for use in updating the peer index used to identify content in response to a search of the peer index entered at the peer client (see Col. 5, lines 17-31); receiving from the peer client extracted content and metadata of a second file stored on the peer client and not on the first client, the metadata specifying a source of the extracted content from the second file (see Col. 5, lines 17-31); and in response to receiving the extracted content and the metadata of the second file, updating the first index stored on the first client using the received content and metadata of the second file (see Col. 5, lines 17-31).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the invention of Newbold to include synchronizing local and remote data, as taught by Kucala, in order to reconcile two changeable databases without any user interaction (Kucala, Col. 2, lines 1-3). The motivation/suggestion to combine would be to allow access to similar data from a handheld computing device and a personal computer.

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15. With respect to claim 30, Newbold discloses a computer-implemented method, comprising: storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*); the first client and the peer client being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*); detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*); using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index; updating the first index on the first client using the extracted content and metadata of the first file ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents*).

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Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses a peer index on a peer client of the first client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting the extracted content and metadata of the first file to the peer client (see Col. 5, lines 17-31); receiving the extracted content and metadata of the first file at the peer client (see Col. 5, lines 17-31); updating the peer index stored on the peer client using the extracted content and metadata of the first file; detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second user at the peer client, wherein the action is unrelated to transmitting the second file to another client (see Col. 5, lines 17-31); using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in the peer index (see Col. 5, lines 17-31); updating the peer index on the peer client using the extracted content and metadata of the second file (see Col. 5, lines 17-31); transmitting the extracted content and metadata of the second file to the first client (see

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Col. 5, lines 17-31); receiving the extracted content and metadata of the second file at the first client; and updating the first index stored on the first client using the extracted content and metadata of the second file (see Col. 5, lines 17-31).

16. With respect to claim 31, Newbold discloses a computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations ([0022], *regarding downloading the software*): comprising: storing a first index on a first client ([0008], *index module may index the content data and metadata from the monitored documents*); the first client and the peer client being associated with a common user and configured to communicate with each other through a network ([0072] and [0074]-[0075], *enabling a user to search a local workstation from a remote portal location [...] local workstation may refer to the workstation that is assigned to a particular user. The remote portal location corresponds to a peer client associated with a common user.*); detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client ([0009], *The desktop integration module may monitor documents that the user views, edits, creates, or otherwise accesses for predetermined events*); using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index; updating the first index on the first client using the extracted content and metadata of the first file ([0008]-[0010], *For example, the desktop integration module may track each time a user opens a document and each time the*

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user closes the same document, enabling the duration of document interaction to be determined. The desktop integration module may obtain content data, such as keywords, title of the document, author of the document, and/or other control data and metadata determined from the predetermined events for the monitored documents, and transfer the content data and metadata to the index module. The index module may index parameters that enable the user to search and filter the monitored documents).

Newbold does not disclose indexing content from files stored on a peer client, all of the indexed content of the peer index being synchronized with all of the indexed content of the first index; transmitting to the peer client, and receiving from the peer client.

However, Kucala discloses a peer index on a peer client of the first client (Figs 1-2 and Col. 2, lines 10-27 and 55-57, *the palmtop corresponds to the peer client which contains a file including a plurality of records*), each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index (Figs. 1-2 and Col. 2, lines 10-27, *when the user is ready to synchronize information on the two computer systems [...] all three files (indexes) are identical after the synchronization*); transmitting the extracted content and metadata of the first file to the peer client (see Col. 5, lines 17-31); receiving the extracted content and metadata of the first file at the peer client (see Col. 5, lines 17-31); updating the peer index stored on the peer client using the extracted content and metadata of the first file; detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second

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user at the peer client, wherein the action is unrelated to transmitting the second file to another client (see Col. 5, lines 17-31); using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in the peer index (see Col. 5, lines 17-31); updating the peer index on the peer client using the extracted content and metadata of the second file (see Col. 5, lines 17-31); transmitting the extracted content and metadata of the second file to the first client (see Col. 5, lines 17-31); receiving the extracted content and metadata of the second file at the first client; and updating the first index stored on the first client using the extracted content and metadata of the second file (see Col. 5, lines 17-31).

17. Claims 3-5 and 7-8 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala, as applied to claim 1, and further in view of Toyama (Pub. No. US 2005/0190273).

18. With respect to claim 3, the combination of Newbold and Kucala does not disclose receiving from a server an indication that the server is configured to transmit the extracted content to a requesting peer client; and transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.

However, Toyama discloses ([0019] and [0020], lines 10-14; *If the central server is configured with an image database containing all users images...it can also transfer images directly from its database to the requesting client*); and transmitting the content and the metadata to the server if the peer client is not currently networked to the first client ([0019]; *The server sends the content and metadata to an online cache which corresponds to transmitting the content*

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and the metadata to the server. The cache allows for transfer of images between peers even when both clients are not present on the Internet or other network at the same time).

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala, to include a server to act as an intermediary between the clients, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

18. With respect to claim 4, the combination of Newbold, Kucala, and Toyama discloses claim 3. Toyama further discloses receiving requirements from the server, locating the metadata that meets the requirements, and selecting content associated with the metadata for transmission to the peer client ([0104]).

19. With respect to claim 5, the combination of Newbold, Kucala, and Toyama discloses claim 4. Toyama further discloses wherein the requirements include time stamp values or data bit values ([0099]).

20. With respect to claim 7, the combination of Newbold and Kucala does not disclose wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the peer client.

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However, Toyama discloses wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a server, the server being configured to transmit the extracted content and the metadata to the peer client ([0019]). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala, to include a server to act as an intermediary between the clients, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

21. With respect to claim 8, the combination of Newbold and Kucala does not disclose wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content and the metadata to the peer client.

However, Toyama discloses wherein transmitting the extracted content and metadata of the first file to the peer client includes transmitting the extracted content and the metadata to a second client, the second client being configured to transmit the extracted content and the metadata to the peer client ([0019]). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala, to include a second client able to transmit to a server, as taught by Toyama, in order to store the user's data in case one of the user's devices is offline. This would allow the user to be able to load data to a server in a case when the user cannot access the peer client.

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22. Claim 14 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala, as applied to claim 1, and further in view of Farber et al. (Pat. No. US 5,978,791), hereinafter Farber.

23. With respect to claim 14, the combination of Newbold and Kucala does not disclose discloses associating an expiration date with the extracted content before it is transmitted to the peer client. However, Farber discloses associating an expiration date with the extracted content before it is transmitted to the peer client (Col. 30, lines 32-35). It would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Newbold, as modified by Kucala, to include associating expiration dates with content, as taught by Farber, to prevent content from being stored longer than desired.

24. Claim 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Newbold, in view of Kucala, as applied to claim 1, and further in view of Sidman (Pub. No. US 2004/0122741). Sidman is disclosed in applicant's IDS dated March 4, 2008.

25. With respect to claim 13, the combination of Newbold and Kucala does not disclose a throughput threshold for bandwidth. However, Sidman discloses increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value ([0152]).

It would have been obvious to to one of ordinary skill in the art at the time of invention to modify the system expressly disclosed by Newbold, as modified by Kucala, with the peer-to-peer content distribution and metadata generation system specifics disclosed by Sidman in order to

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improve efficiency of the peer-to-peer network topology, inter alia, by selecting host peers, storage requirements, and communicative techniques based on the particulars of each peer (client/server) node (Sidman, para [0152]).

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMY D. ENGELSKIRCHEN whose telephone number is (571) 270-1903. The examiner can normally be reached on Mon.-Thurs. 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/Jeremy D Engelskirchen/
Examiner, Art Unit 2168
3/12/2010

/Tim T. Vo/
Supervisory Patent Examiner, Art Unit
2168

Notice of References Cited	Application/Control No. 11/339,301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL.	
	Examiner JEREMY D. ENGELSKIRCHEN	Art Unit 2168	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,243,705	06-2001	Kucala, Gregory R.	1/1
*	B	US-2006/0031198	02-2006	Newbold et al.	707/003
*	C	US-5,978,791	11-1999	Farber et al.	1/1
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			


FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS


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

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

Index of Claims 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner JEREMY D ENGELSKIRCHEN	Art Unit 2168

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47			
CLAIM		DATE							
Final	Original	12/06/2007	06/21/2008	04/10/2009	08/15/2009	03/13/2010			
	1	✓	✓	÷	✓	✓			
	2	✓	✓	÷	✓	✓			
	3	✓	✓	÷	✓	✓			
	4	✓	✓	÷	✓	✓			
	5	✓	✓	÷	✓	✓			
	6	✓	-	-	-	-			
	7	✓	✓	÷	✓	✓			
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	29		✓	÷	✓	-			
	30					✓			
	31					✓			

Search Notes 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Jeremy D Engelskirchen	Art Unit 2168

SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor and Co-Inventors Search and DBL PAT Search	11/29/2007	JDE
Searched Class 707/010 and class 707 in EAST with keywords	12/3/2007	JDE
Searched NPL	12/3/2007	JDE
Searched Google Patents with keywords	11/29/2007	JDE
Searched EAST history attached	6/30/2008	JDE
Searched class 707/200 and 709 and 715 with keywords	6/30/2008	JDE
Searched Google Scholar and Google	6/24/2008	JDE
Updated Search in EAST in all DBs	8/17/2009	JDE
Searched in Google Patents	8/17/2009	JDE
Updated Search in EAST, history attached	3/13/2010	JDE
Searched in Google Patents with keywords	3/13/2010	JDE

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L10	159	"5978791"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/13 21:56
L8	63	("4432057" "4807182" "4866611" "4875159" "4956809" "5001628" "5065360" "5142619" "5187787" "5210868" "5237678" "5251291" "5261045" "5261094" "5272628" "5283887" "5301313" "5315709" "5327555" "5333252" "5339392" "5339434" "5355476" "5379057" "5392390" "5432994" "5463772" "5475833" "5519606" "5537592" "5544356" "5574859" "5592669" "5598536" "5630081" "5666530" "5684990" "5696702" "5701423" "5729452"). PN. OR ("6243705"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/13 19:37
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S155	0	("2006/0031198").URPN.	USPAT	OR	OFF	2010/03/08 11:56
S154	2	"20060031198".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/08 11:55
S153	6	"7493303".pn. "6757530".pn. "5727202".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/08 11:53
S152	0	11/156955	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/04 14:19
S151	1	11/339301	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/04 13:45
S150	2	"20050190273".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:15
S149	1	S148 and desktop same laptop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04
S148	24	S147 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04
S147	113	synchronization with (user near2 identifier\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04

S146	294	synchronization with (user with identifier\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04
S145	891	synchronization with (user identifier\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04
S144	16	synchronization with (user identifier\$2) same peer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:03
S143	194	synchronization with (user identifier\$2) and peer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:03
S142	6812	synchronization and (user identifier\$2) and peer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:03
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S140	2	"6625623".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 05:59

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 16113-0094001	Application No. 11/339,301
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sigurdsson et al.	
		Filing Date January 25, 2006	Group Art Unit 2168

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1						
	2						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	12							
	13							
	14							
	15							
	16							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/JE/	17	International Search Report and Written Opinion for PCT Application No. PCT/US2007/61018, dated February 27, 2008, 10 pages.
	18	
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Examiner Signature /Jeremy Engelskirchen/	Date Considered 03/03/2010
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Sigurdsson et al.	Art Unit	: 2168
Serial No.	: 11/339,301	Examiner	: Jeremy D. Engelskirchen
Filed	: January 25, 2006	Conf. No.	: 7556
Title	: MULTIPLE CLIENT SEARCH METHOD AND SYSTEM		

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT IN REPLY TO ACTION OF AUGUST 20, 2009

Please amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-implemented method, comprising:

storing a first index on a first client, the first index indexing content from files stored on the first client and content from files stored on a peer client of the first client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

receiving-detecting, on the first client, an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user using-a at the first client, wherein the action is unrelated to transmitting the first file to another client;

extracting, using the first client and in response to the detected event, extracting content from the first file-in response to the event and generating metadata for the a-first index stored on at the first client, the metadata for indexing the extracted content first file-so that the extracted content first file-is identifiable in response to a search of the first index entered at the first client;

identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated with the same user identifier; and

transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata data-for use in updating the a-peer index used to identify content files-in response to a search of the peer index entered at the peer client;

receiving from the peer client extracted content and metadata of a second file stored on the peer client and not on the first client, the metadata specifying a source of the extracted content from the second file; and

in response to receiving the extracted content and the metadata of the second file,

updating the first index stored on the first client using the received content and metadata of the second file.

2. (Original) The method of claim 1, wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file.

3. (Currently Amended) The method of claim 1, further comprising receiving from a server an indication that the server is configured to transmit the extracted content to a requesting peer client; and transmitting the extracted content and the metadata of the first file to the server if the peer client is not currently networked to the first client.

4. (Currently Amended) The method of claim 3, further comprising receiving requirements from the a-server, locating the metadata that meets the requirements, and selecting ~~the~~ content associated with the metadata for transmission to the peer client.

5. (Original) The method of claim 4, wherein the requirements include time stamp values or data bit values.

6. (Cancelled)

7. (Currently Amended) The method of claim 1, wherein transmitting the extracted content and metadata of the first file to the a-peer client includes transmitting the extracted content and the metadata to a server, ~~the first client receiving an indication from the server being that the server~~ is configured to transmit the extracted content and the metadata to the peer client.

8. (Currently Amended) The method of claim 1, wherein transmitting the extracted content and metadata of the first file to the a-peer client includes transmitting the extracted content and the metadata to a second client, ~~the first client receiving an indication from the second client that the~~ second client being is configured to transmit the extracted content and the metadata to the peer client.

9. (Currently Amended) The method of claim 1, wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the extracted content through the first index.

10. (Currently Amended) The method of claim 1, further comprising extracting content from a third ~~second~~-file independent of an event occurrence, indexing the extracted content from the third ~~second~~-file, and transmitting the indexed content to the peer client.

11. (Original) The method of claim 1, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

12. (Original) The method of claim 1, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

13. (Original) The method of claim 1, further comprising increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.

14. (Currently Amended) The method of claim 1, further comprising associating an expiration date with the extracted content before it is transmitted to the peer client.

15. (Currently Amended) The method of claim 1, further comprising transmitting a request to delete the extracted content from the peer client if the first file content is deleted from the first client.

16-22. (Cancelled)

23. (Currently Amended) A first computer, system for sharing data across multiple clients comprising:

a first index stored on the first computer, the first index indexing content from files stored on the first client and content from files stored on a peer computer of the first computer based on

information extracted from the content of each of the files, the first computer and the peer computer being associated with a common user and configured to communicate with each other through a network, the peer computer storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

one or more processors; and

memory coupled to the one or more processors and operable for storing instructions, which, when executed by the one or more processors, cause the one or more processors to perform operations, comprising:

an event listener at a first client computer to detecting an event indicating that an action associated with a first file stored on the first computer and not on the peer computer has been performed by receive from a user at of the first client computer an action associated with a file, wherein the action is unrelated to transmitting the first file to another client computer;

an extractor at the first client computer to in response to the detected event, extracting content from the first file in response to the event and to generate generating metadata for the a first index stored at on the first client computer, the metadata for indexing the extracted content so that the extracted content is identifiable searchable in response to a search of the first index entered at the first client computer; and

means for identifying a second client computer that is used by the same user of the first client computer based on a determination that both the second client computer and the first client computer are associated with the same user identifier and transmitting the extracted content and the metadata of the first file from the a first client computer to the second client peer computer for use in updating the peer a second client index used to identify content in response to a search of the peer second client index entered at the second client peer computer;

receiving from the peer computer extracted content and metadata of a second file stored on the peer computer and not on the first computer, the metadata specifying a source of the extracted content from the second file; and

in response to receiving the extracted content and metadata of the second file,

updating the first index stored on the first computer using the received content and metadata of the second file.

24. (Currently Amended) A computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations ~~a method~~ comprising:

storing a first index of files on a first client, the first index indexing content from files stored on the first client and content from files stored on the peer client based on information extracted from the content of each of the files, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, the peer client storing a peer index, and all of the indexed content of the peer index being synchronized with all of the indexed content of the first index;

receiving ~~detecting, on the first client,~~ an event indicating that an action associated with a first file stored on the first client and not on the peer client has been performed by a user ~~using a~~ at the first client, wherein the action is unrelated to transmitting the first file to another client;

~~extracting,~~ using the first client in response to the event, extracting content from the first file ~~in response to the event~~ and generating metadata for ~~the a~~ a first index stored on ~~at~~ the first client, the metadata for indexing the extracted content ~~first file~~ so that the extracted content ~~first file~~ is identifiable in response to a search of the first index entered at the first client;

~~identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated with the same user identifier; and~~

transmitting, using the first client, the extracted content and the metadata of the first file to the peer client, the extracted content and metadata ~~data~~ for use in updating ~~the a~~ peer index used to identify content ~~files~~ in response to a search of the peer index entered at the peer client;

receiving from the peer client extracted content and metadata of a second file stored on the peer client and not on the first client, the metadata specifying a source of the extracted content from the second file; and

in response to receiving the extracted content and the metadata of the second file,

updating the first index stored on the first client using the received content and metadata of the second file.

25-29. (Cancelled)

30. (New) A computer-implemented method, comprising:

storing a first index on a first client and a peer index on a peer client of the first client, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index;

detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index;

updating the first index on the first client using the extracted content and metadata of the first file;

transmitting the extracted content and metadata of the first file to the peer client;

receiving the extracted content and metadata of the first file at the peer client;

updating the peer index stored on the peer client using the extracted content and metadata of the first file;

detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second user at the peer client, wherein the action is unrelated to transmitting the second file to another client;

using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in

the peer index;

updating the peer index on the peer client using the extracted content and metadata of the second file;

transmitting the extracted content and metadata of the second file to the first client;

receiving the extracted content and metadata of the second file at the first client; and

updating the first index stored on the first client using the extracted content and metadata of the second file.

31. (New) A computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform operations comprising:

storing a first index on a first client and a peer index on a peer client of the first client, the first client and the peer client being associated with a common user and configured to communicate with each other through a network, each of the first index and the peer index indexing content from files located on the first client and content from files located on the peer client based on information extracted from the content of each of the files, and all of the indexed content of the first index being synchronized with all of the indexed content of the peer index;

detecting, on the first client, a first event indicating that a first action associated with a first file stored on the first client and not on the peer client has been performed by a first user at the first client, wherein the first action is unrelated to transmitting the first file to another client;

using the first client and in response to the detected first event, extracting content from the first file and generating metadata for indexing the extracted content from the first file in the first index;

updating the first index on the first client using the extracted content and metadata of the first file;

transmitting the extracted content and metadata of the first file to the peer client;

receiving the extracted content and metadata of the first file at the peer client;

updating the peer index stored on the peer client using the extracted content and metadata of the first file;

detecting a second event indicating that a second action associated with a second file stored on the peer client and not on the first client has been performed by a second user at the peer client, wherein the action is unrelated to transmitting the second file to another client;

using the peer client and in response to the detected second event, extracting content from the second file and generating metadata for indexing the extracted content from the second file in the peer index;

updating the peer index on the peer client using the extracted content and metadata of the second file;

transmitting the extracted content and metadata of the second file to the first client;

receiving the extracted content and metadata of the second file at the first client; and

updating the first index stored on the first client using the extracted content and metadata of the second file.

REMARKS

In response to the Office Action of August 20, 2009, the applicant submits the following amendments and remarks.

Claims 1-5 and 7-29 were pending and claims 16-22 were withdrawn from consideration as of the action. Claims 1, 3-4, 7-10, 14-15, and 23-24 are being amended. Claims 16-22 and 25-29 are being cancelled without prejudice. Claims 30-31 are new. Claims 1, 23, 24, 30, and 31 are independent. Support for the amendments and new claims can be found, for example, in paragraphs [0026], [0033], [0042-44], [0047], [0050], and [0054] of the specification as filed. Reconsideration of the action and allowance of the claims are respectfully requested in light of the foregoing amendments and the following remarks.

Section 103 Rejections

Claims 1-5, 7-12, 14-15 and 23-29 were rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Pub. No. US 2005/0190273 ("Toyama") in view of Pub. No. US 2005/0114431 ("Singh").

As to claims 25-29, without agreeing with the Examiner's position and in the interest of expediting prosecution, the applicant has cancelled claims 25-29, rendering the rejection of claims 25-29 moot.

As to claim 1, Toyama discloses a "peer-to-peer photo sharing environment" that includes a central server and one or more clients. "Each client has a local image index (a list of the images on their computer) and an image database." (Paragraphs [0061-0062], Toyama). The central server hosts "a master index of photos" and "responds to client queries of the index." The central server is responsible for coordinating transfer of photographs from a client having a requested photograph (or the server photo database in the embodiment where the photo database resides on the server) to an online cache or [a] requesting client." (Paragraphs [0062-0063], Toyama).

In Toyama, the "local image index" stored on each client only lists images stored locally on that client, and there is no synchronization of the locally stored images on the clients (See

paragraph [0061-63], Toyama). Although Toyama discloses a central server that stores a master index listing both images stored in a server cache and images stored on the clients, Toyama fails to disclose or suggest a “peer” for the central server that has an index that indexes the same content indexed in the central server’s master index. (Paragraphs [0061-63], Toyama).

Therefore, Toyama does not disclose or suggest “a first client” storing “a first index” and “a peer client” storing “a peer index,” where “all of the indexed content of the peer index [is] synchronized with all of the indexed content of the first index” as recited in claim 1.

Furthermore, Toyama fails to disclose or suggest a “first client” that perform both (i) “transmitting . . . the extracted content and metadata of the first file to the peer client ... for use in updating the peer index” and (ii) “receiving from the peer client extracted content and metadata of a second file stored on the peer client and not on the first client” and “updating the first index stored on the first client using the received content and metadata of the second file”, both of which features are recited in claim 1.

First, the description of clients (e.g., Client #1 and Client #2 in FIG. 2) in Toyama fails to disclose or suggest “the first client” as recited in claim 1. In Toyama, each client maintains its own local database of images and a local index, and only the central server indexes files that the central server does not store locally. (Paragraph [0072], Toyama). Therefore, in Toyama, Client #1 would never perform the “receiving extracted content and metadata of a . . . file stored on [Client #2] and not on [Client #1]” and “updating the [local] index stored on [Client #1] using the received content and metadata of the ... file”, recited in claim 1. Similarly, Client 2 would never perform the “receiving extracted content and metadata of a ... file stored on [Client #1] and not on [Client #2]” and “updating the [local] index stored on [Client #2] using the received content and metadata of the ... file” recited in claim 1.

Second, even though the central server disclosed in Toyama synchronizes its master index with each client’s local index periodically, the central server does not perform both the “transmitting” and the “receiving” and “updating” as recited for “the first client” in claim 1.

For example, in Toyama, the central server only interacts with a user “via the client,” in response to, for example, submission of a search query, an annotation, or a request for an image.

(Paragraphs [0030-33], Toyama). Therefore, the central server disclosed in Toyama never “detect[s], on the [central server], an event indicating that an action associated with a first file stored on the [central server] and not on [Client #1] has been performed by a user at the [central server],” and therefore, the central server does not “extract content from the first file and generate metadata for the [master index]” “in response to the detected event” and does not subsequently “transmit[] ... the extracted content and metadata of the first file to [Client #1],” as recited in claim 1.

In addition, because Client #1 does not index files that it does not store locally, the central server would never “transmit[s] ... the extracted content and the metadata of the first file” “stored on the [central server] and not on [Client #1]” “for use in updating the [local] index of [Client #1]” as recited in claim 1.

For similar reasons, Client #1 as disclosed in Toyama also does not perform both the “transmitting” and the “receiving” and “updating” as recited for “the first client” in claim 1. Since Client #1 does not index files that it does not store locally, Client #1 would never “receive[e] from the [central server] extracted content and metadata of a ... file stored on the [central server] and not on [Client #1]” and “updat[e] the [local] index stored on [Client #1] using the received content and metadata of the second file,” as recited in claim 1.

Therefore, Toyama does not disclose or suggest “a first client” storing “a first index” and “a peer client” storing “a peer index,” where “all of the indexed content of the peer index [is] synchronized with all of the indexed content of the first index,” as recited in claim 1. And Toyama fails to disclose or suggest a client that perform both (i) “transmitting ... the extracted content and metadata of the first file to the peer client ... for use in updating the peer index” and (ii) “receiving from the peer client extracted content and metadata of a second file stored on the peer client and not on the first client” and “updating the first index stored on the first client using the received content and metadata of the second file,” as recited in claim 1.

Singh discloses “a generic mobile synchronization framework [that] facilitates synchronization of data objects between platforms by comparing these data objects from one platform with a replica of data objects on the other platform. Generic messages identifying the

differences in the data objects are converted into an adaptive message suitable for use by the underlying synchronization hardware and sent to the platform needing synchronization. That platform converts the adapted messages then to the original generic message, and executes it, synchronizing the data objects in that platform with the original platform.” (Abstract, Singh).

Singh does not remedy the deficiencies of Toyama set forth above, because Singh only discloses how generic “data objects” and replicas of the “data objects” on multiple devices are synchronized. Singh does not disclose or suggest the “data object” being an “index” that indexes “content from files ... based on information extracted from the content of each of the files” as recited in claim 1. Therefore, Singh does not disclose or suggest “a first client” storing “a first index” and “a peer client” storing “a peer index,” where “all of the indexed content of the peer index [is] synchronized with all of the indexed content of the first index” as recited in claim 1.

Even if the “data object” in Singh were an index of content. Singh still fails to disclose or suggest the process for updating the index of content recited in claim 1.

In Singh, “a delta processor determines the differences between data objects in the platforms, and thus identify that changes have occurred that need synchronization.” (Paragraph [0038], Singh). Even if the “data objects” could be “indices of content,” Singh would only disclose synchronizing the “indices” by comparing and determining the differences between the “indices” themselves, generating messages identifying the differences between the “indices,” sending/receiving the messages between the platforms, and using the information in the messages for synchronizing the “indices” on the different platforms. (See paragraph [0038] and Abstract, Singh). Since the “messages” describing the “differences” between the “indices” is not “extracted content and metadata” of a file “stored on [one platform] and not [on another platform]” as recited in claim 1, Singh still fails to disclose or suggest “the first client” that performs both (i) “transmitting ... the extracted content and metadata of the first file to the peer client ... for use in updating the peer index” and (ii) “receiving from the peer client extracted content and metadata of a second file stored on the peer client and not on the first client” and “updating the first index stored on the first client using the received content and metadata of the second file” as recited in claim 1.

For at least the reasons set forth above, the applicant respectfully submits that Toyama and Singh, either alone or in combination, do not disclose or suggest all of the claim limitations of claim 1, and requests withdrawal of the rejection of claim 1.

Claims 2-5, 7-12, and 14-15 depend from claim 1. Claims 2-5, 7-12, and 14-15 are allowable for at least the reasons set forth with respect to claim 1 and for the independent subject matter recited in them. Withdrawal of the rejection of claims 2-5, 7-12, and 14-15 is respectfully requested.

Claim 23 is directed to a computer and recites limitations corresponding to those of claim 1. Claim 23 is allowable for at least the reasons set forth with respect to claim 1. Withdrawal of the rejection of claim 23 is respectfully requested.

Claim 24 is directed to a computer program product and recites limitations corresponding to those of claim 1. Claim 24 is allowable for at least the reasons set forth with respect to claim 1. Withdrawal of the rejection of claim 24 is respectfully requested.

New claim 30 is directed to a method reciting operations performed at a first client and a peer client. Claim 30 recites limitations similar to those recited in claim 1. Claim 30 is allowable for at least the reasons set forth with respect to claim 1.

New claim 31 is directed to a computer program product. Claim 30 recites limitations that correspond to those recited in claim 30. Claim 30 is allowable for at least the reasons set forth with respect to claim 31.

Claim 13 was rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Toyama in view of Singh, as applied to claim 1, and further in view of Pub. No. US 2004/0122741 ("Sidman").

As set forth above with respect to claim 1, Toyama and Singh do not disclose all of the limitations of claim 1, either alone or in combination. The cited portions of Sidman do not cure the deficiencies of Toyama and Singh set forth with respect to claim 1. Therefore, the combination of Toyama, Singh, and Sidman do not render claim 13 obvious. Withdrawal of the rejection of claim 13 is respectfully requested.

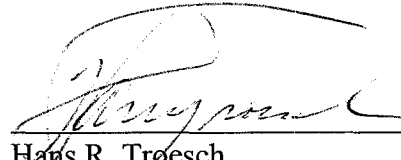
Conclusion

By responding in the foregoing remarks only to particular positions taken by the Examiner, applicant does not acquiesce with other positions that have not been explicitly addressed. In addition, applicant's arguments for the patentability of a claim should not be understood as implying that no other reasons for the patentability of that claim exist. Finally, applicant's decision to amend or cancel any claim should not be understood as implying that applicant agrees with any positions taken by the Examiner with respect to that claim or other claims.

Please apply any charges or any credits to deposit account 06-1050.

Respectfully submitted,

Date: 19 Nov 09



Hans R. Troesch
Reg. No. 36,950

Customer No. 26192
Fish & Richardson P.C.
Telephone: (650) 839-5070
Facsimile: (650) 839-5071

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al. Art Unit : 2168
Serial No. : 11/339,301 Examiner : Jeremy D. Engelskirchen
Filed : January 25, 2006 Conf. No. : 7556
Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

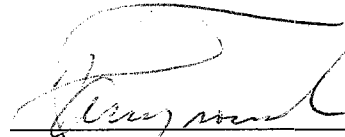
INFORMATION DISCLOSURE STATEMENT

Please consider the references listed on the enclosed PTO-1449 form. Non-patent literature is enclosed.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. The fees in the amount of \$180.00 is being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 19 Nov 99



Hans R. Troesch
Reg. No. 36,950

Customer No. 26192
Fish & Richardson P.C.
Telephone: (650) 839-5070
Facsimile: (877) 769-7945

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 16113-0094001	Application No. 11/339,301
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sigurdsson et al.	
		Filing Date January 25, 2006	Group Art Unit 2168

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1						
	2						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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	12							
	13							
	14							
	15							
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	17	International Search Report and Written Opinion for PCT Application No. PCT/US2007/61018, dated February 27, 2008, 10 pages.
	18	
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Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Electronic Patent Application Fee Transmittal

Application Number:	11339301			
Filing Date:	25-Jan-2006			
Title of Invention:	Multiple client search method and system			
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson			
Filer:	Hans R. Troesch/Lori Cox			
Attorney Docket Number:	16113-0094001			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt

EFS ID:	6495487
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Hans R. Troesch/Lori Cox
Filer Authorized By:	Hans R. Troesch
Attorney Docket Number:	16113-0094001
Receipt Date:	20-NOV-2009
Filing Date:	25-JAN-2006
Time Stamp:	13:45:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	37
Deposit Account	061050
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Msg & Digest	Multi Part/zip	Pages (if appl.)
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	Applicant Arguments/Remarks Made in an Amendment		10	15	
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Information:					
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Warnings:					
Information:					
4	Fee Worksheet (PTO-875)	fee-info.pdf	29990	no	2
			e3cea750dc78f7843ea82d931f001e4d3ed0c99f		
Warnings:					
Information:					
Total Files Size (in bytes):			1369695		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/339,301		Filing Date 01/25/2006		<input type="checkbox"/> To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY <input type="checkbox"/>		OR		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A		N/A		N/A		N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A		N/A		N/A		N/A	
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A		N/A		N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=	OR	X \$	=	X \$	=	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=	OR	X \$	=	X \$	=	
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT	11/20/2009	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 18	Minus	** 28	= 0	X \$	=	OR	X \$52=	0
	Independent (37 CFR 1.16(h))	* 5	Minus	***6	= 0	X \$	=	OR	X \$220=	0
<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$	=	OR	X \$	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$	=	OR	X \$	=
<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/MARQUETTA MCGEE/

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US	7556

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PO BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER

ENGELSKIRCHEN, JEREMY D

ART UNIT	PAPER NUMBER
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2168

NOTIFICATION DATE	DELIVERY MODE
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08/20/2009

ELECTRONIC

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

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

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

PATDOCTC@fr.com

Office Action Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner JEREMY D. ENGELSKIRCHEN	Art Unit 2168	

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 28 April 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-29 is/are pending in the application.
- 4a) Of the above claim(s) 16-22 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-15, and 23-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

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

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

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

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 3, 2008 has been entered.

Election/Restrictions

2. Claims 16-22 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on April 28, 2009. Claims 1-5, 7-15, and 23-29 are now pending in this application.

Claim Rejections - 35 USC § 103

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

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

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. **Claims 1-5, 7-12, 14-15 and 23-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toyama et al. (Pub. No. US 2005/0190273), hereinafter Toyama, in view of Singh et al. (Pub. No. US 2005/0114431), hereinafter Singh. Toyama is disclosed in applicant's IDS dated March 4, 2008.**

6. With respect to claim 1, Toyama discloses receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client ([0022], lines 1-3 and 11-12 and [0026], lines 5-10);

extracting, using the first client in response to the event, content from the first file in response to the event ([0023], lines 6-9; *extracts various parameters of associated with the image, as available*) and

generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search of the first index entered at the first client ([0023], lines 6-14 and [0022]; *manual and automatic photo annotation at the user or client. These annotations are commonly referred to as metadata. This annotation data, or metadata, allows the user to effectively search and control access to the photo index or photo database*);

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and transmitting, using the first client, the extracted content and the metadata to the peer client, the metadata for use in updating a peer index used to identify files in response to a search query entered at the peer client ([0030] and [0032]-[0033]; *the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...Once a search is complete, the user can give feedback on the search, indicating which images they thought closes matched their search criteria. If the user wants to get a particular image or photograph from the query result, he requests it from the central server... If both clients are online at the same time, the transfer can be done P2P, without going through the central server*).

Toyama does not explicitly disclose identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated with the same user identifier. However, Singh discloses that a single user with one user identifier may synchronize multiple devices ([0054]). Toyama and Singh are in the same field of electronic data management, therefore it would have been obvious to combine the teachings of Toyama with the teachings of Singh, to include synchronizing multiple devices used by the same user, as taught by Singh, in order to allow the user to have access to the same data, regardless of which computing device they are using (Singh, [0002]). This would allow the user to have their own data on all of their devices as well as being able to share data with other users.

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7. With respect to claim 2, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses wherein the action that is unrelated to transmitting a file is a file access or a file save ([0026], lines 3-10), and the extracted content from the first file is a copy of the file or a copy of the contents of the file ([0027], lines 4-9).

8. With respect to claim 3, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses receiving from a server an indication that the server is configured to transmit the content to a requesting peer client ([0019] and [0020], lines 10-14; *If the central server is configured with an image database containing all users images...it can also transfer images directly from its database to the requesting client*); and transmitting the content and the metadata to the server if the peer client is not currently networked to the first client ([0019]; The server sends the content and metadata to an online cache which corresponds to transmitting the content and the metadata to the server. *The cache allows for transfer of images between peers even when both clients are not present on the Internet or other network at the same time*).

9. With respect to claim 4, the combination of Toyama and Singh discloses claim 3.

Toyama further discloses receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client ([0104]).

10. With respect to claim 5, the combination of Toyama and Singh discloses claim 4.

Toyama further discloses wherein the requirements include time stamp values or data bit values

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([0099]).

11. With respect to claim 7, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a server ([0019]), the first client receiving an indication from the server that the server is configured to transmit the content and the metadata to the peer client ([0019]).

11. With respect to claim 8, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a second client, the first client receiving an indication from the second client that the second client is configured to transmit the content and the metadata to the peer client ([0019]).

12. With respect to claim 9, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the content ([0019]).

13. With respect to claim 10, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses extracting content from a second file independent of an event occurrence, indexing the content from the second file, and transmitting the indexed content to the peer client ([0108]).

14. With respect to claim 11, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text ([0102]).

15. With respect to claim 12, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting ([0104], lines 1-6).

16. With respect to claim 14, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses associating an expiration date with the content before it is transmitted to the peer client ([0027]).

17. With respect to claim 15, the combination of Toyama and Singh discloses claim 1.

Toyama further discloses transmitting a request to delete the content from the peer client if the content is deleted from the first client ([0114], lines 1-4).

18. With respect to claim 23, Toyama discloses a system for sharing data across multiple clients (Abstract, lines 1-2) comprising: an event listener at a first client computer to receive from a user of the first client computer an action associated with a file, wherein the action is unrelated to transmitting the file to a second client computer ([0022], lines 1-3 and 11-12 and [0026], lines 5-10); an extractor at the first client computer to extract content from the file in

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response to the event ([0023], lines 6-9; *extracts various parameters of associated with the image, as available*) and to generate metadata for a first index stored at the first client computer, the metadata for indexing the extracted content so that the extracted content is searchable in response to a search of the first index entered at the first client computer ([0023], lines 6-14 and [0022]; *manual and automatic photo annotation at the user or client. These annotations are commonly referred to as metadata. This annotation data, or metadata, allows the user to effectively search and control access to the photo index or photo database*); and transmitting the extracted content and the metadata from a first client computer to a second client computer for use in updating a second client index used to identify content in response to a search query entered at the second client computer ([0030] and [0032]-[0033]; *the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...Once a search is complete, the user can give feedback on the search, indicating which images they thought closes matched their search criteria. If the user wants to get a particular image or photograph from the query result, he requests it from the central server... If both clients are online at the same time, the transfer can be done P2P, without going through the central server*).

Toyama does not explicitly disclose a means for identifying a second client computer that is used by the same user of the first client computer based on a determination that both the second client computer and the first client computer are associated with the same user identifier. However, Singh discloses that a single user with one user identifier may synchronize multiple

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devices ([0054]). Toyama and Singh are in the same field of electronic data management, therefore it would have been obvious to combine the teachings of Toyama with the teachings of Singh, to include synchronizing multiple devices used by the same user, as taught by Singh, in order to allow the user to have access to the same data, regardless of which computing device they are using (Singh, [0002]). This would allow the user to have their own data on all of their devices as well as being able to share data with other users.

19. With respect to claim 24, Toyama discloses a computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform a method ([0052]; *computer readable media*) comprising: receiving an event indicating that an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client ([0022], lines 1-3 and 11-12 and [0026], lines 5-10); extracting, using the first client in response to the event, content from the first file in response to the event ([0023], lines 6-9; *extracts various parameters of associated with the image, as available*) and generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search of the first index entered at the first client ([0023], lines 6-14 and [0022]; *manual and automatic photo annotation at the user or client. These annotations are commonly referred to as metadata. This annotation data, or metadata, allows the user to effectively search and control access to the photo index or photo database*); and transmitting, using the first client, the extracted content and the metadata to the peer client, the metadata for use in updating a peer index used to identify files in response to a search of the

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peer index entered at the peer client ([0030] and [0032]-[0033]; *the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...If the user wants to get a particular image or photograph from the query result, he requests it from the central serve...If both clients are online at the same time, the transfer can be done P2P, without going through the central server*).

Toyama does not explicitly disclose identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated with the same user identifier. However, Singh discloses that a single user with one user identifier may synchronize multiple devices ([0054]). Toyama and Singh are in the same field of electronic data management, therefore it would have been obvious to combine the teachings of Toyama with the teachings of Singh, to include synchronizing multiple devices used by the same user, as taught by Singh, in order to allow the user to have access to the same data, regardless of which computing device they are using (Singh, [0002]). This would allow the user to have their own data on all of their devices as well as being able to share data with other users.

20. With respect to claim 25, Toyama discloses a method comprising: receiving an event indicating a file access or a file save associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client ([0022], lines 1-3 and 11-12 and [0026], lines 5-10) ([0026], lines 3-10), extracting, using the first client in response to the event, content from the first file in response to the event ([0027],

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lines 4-9)([0023], lines 6-9; *extracts various parameters of associated with the image, as available*), generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search of the first index entered at the first client ([0023], lines 6-14 and [0022]; *manual and automatic photo annotation at the user or client. These annotations are commonly referred to as metadata. This annotation data, or metadata, allows the user to effectively search and control access to the photo index or photo database*); transmitting, using the first client, the extracted content and the metadata to a peer client, the metadata for use in updating a peer index used to identify files in response to a search of the peer index entered at the peer client ([0030] and [0032]-[0033]; *the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...Once a search is complete, the user can give feedback on the search, indicating which images they thought closes matched their search criteria. If the user wants to get a particular image or photograph from the query result, he requests it from the central server... If both clients are online at the same time, the transfer can be done P2P, without going through the central server*);

receiving from a server an indication that the server is configured to transmit the content to a requesting client ([0019] and [0020], lines 10-14; *If the central server is configured with an image database containing all users images...it can also transfer images directly from its database to the requesting client*) and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server

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([0019]; The server sends the content and metadata to an online cache which corresponds to transmitting the content and the metadata to the server. *The cache allows for transfer of images between peers even when both clients are not present on the Internet of other network at the same time*);

receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client ([0104]), wherein the requirements include time stamp values or data bit values ([0099]);

and extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first client and transmitting the additional content to the peer client based on one or more priority algorithms that specify an order in which the additional content is to be transmitted (see para [0103]).

Toyama does not explicitly disclose identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated with the same user identifier. However, Singh discloses that a single user with one user identifier may synchronize multiple devices ([0054]). Toyama and Singh are in the same field of electronic data management, therefore it would have been obvious to combine the teachings of Toyama with the teachings of Singh, to include synchronizing multiple devices used by the same user, as taught by Singh, in order to allow the user to have access to the same data, regardless of which computing device they are using (Singh, [0002]). This would allow the user to have their own data on all of their devices as well as being able to share data with other users.

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21. With respect to claim 26, Toyama discloses a computer-implemented method comprising: maintaining on a first client computer an index of files ([0015], lines 5-8; *master index of client photographs or images on a central server or a photo database that is resident on the central server*) and cached copies of content from at least a portion of the files that are for display in response to of the index entered at the first client computer ([0019], lines 5-8; *The central server responds to client queries of the master index or database. The central server can store requested images to an on-line photo/image cache. This on-line cache is live on the Internet or other network. Typically, the central server sends images extracted from its master photo database or another client to the photo cache so that a requesting client can download these images*); detecting an event that occurs to a file at the first client computer and updating the index to reflect information associated with the event ([0026]-[0027]); and transmitting at least a portion of the updated index to a peer client computer that is a peer of the first client computer for updating a peer index that is stored at the peer client computer and that is for use in displaying search results in response to a search of the peer index entered at the peer client computer (see para. [0019]-[0020] and [0027]-[0030]).

Toyama does not explicitly disclose wherein both the first client computer and the peer client computer are associated with a same user identifier indicating a common user. However, Singh discloses that a single user with one user identifier may synchronize multiple devices ([0054]). Toyama and Singh are in the same field of electronic data management, therefore it would have been obvious to combine the teachings of Toyama with the teachings of Singh, to include synchronizing multiple devices used by the same user, as taught by Singh, in order to allow the user to have access to the same data, regardless of which computing device they are

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using (Singh, [0002]). This would allow the user to have their own data on all of their devices as well as being able to share data with other users.

22. With respect to claim 27, Toyama discloses generating a cached copy of content from the file that is associated with the detected event and linking the cached copy with an entry for the file in the updated index (see para [0092]).

23. With respect to claim 28, Toyama discloses transmitting the cached copy to the peer client computer for association with an entry in the updated peer index for the file ([0026], lines 3-10 and [0108]).

24. With respect to claim 29, Toyama discloses wherein the first client computer and the peer client computer are associated with the same user ([0108]).

25. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Toyama in view of Singh, as applied to claim 1 above, and further in view of Sidman (Pub. No. US 2004/0122741). Sidman is disclosed in applicant's IDS dated March 4, 2008.

26. Toyama modified by Singh discloses the invention substantially as claimed as detailed prior, however, the combination does not expressly disclose increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the

Art Unit: 2168

peer client has a bandwidth that exceeds a predetermined bandwidth value, a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a deletion of at least a portion of the content from [a] data table when the quota is exceeded, or a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period, and the throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold.

In the same art of peer-to-peer content sharing and metadata generation of content, Sidman discloses myriad methodologies drawn toward controlling, regulating, and monitoring peer-to-peer content transfer and methods for the generation and use of content metadata, including indexing and querying. See, inter alia, Para [0113]-[0142].

It would have been obvious to modify the peer-to-peer content distribution and metadata generation system expressly disclosed by Toyama, as modified by Singh, with the peer-to-peer content distribution and metadata generation system specifics disclosed by Sidman in order to improve efficiency of the peer-to-peer network topology, inter alia, by selecting host peers, storage requirements, and communicative techniques based on the particulars of each peer (client/server) node (Toyama, para [0007], and Sidman, para [0152]).

27. With respect to claim 13, Sidman discloses increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value ([0152]).

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments relate to the new limitations and have been rejected under new grounds above.

Conclusion

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMY D. ENGELSKIRCHEN whose telephone number is (571) 270-1903. The examiner can normally be reached on Mon.-Thurs. 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2168

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/Jeremy D Engelskirchen/
Examiner, Art Unit 2168
August 15, 2009

/Kavita Padmanabhan/
Primary Examiner, Art Unit 2161

Notice of References Cited	Application/Control No. 11/339,301		Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL.	
	Examiner JEREMY D. ENGELSKIRCHEN		Art Unit 2168	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0114431	05-2005	Singh et al.	709/201
*	B	US-7,330,997	02-2008	Odom, Gary	714/6
*	C	US-6,625,623	09-2003	Midgley et al.	707/204
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6625623".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 05:59
L2	2	"7330997".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:00
L3	6812	synchronization and (user identifier\$2) and peer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:03
L4	194	synchronization with (user identifier\$2) and peer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:03
L5	16	synchronization with (user identifier\$2) same peer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:03
L6	891	synchronization with (user identifier\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04
L7	294	synchronization with (user with identifier\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04

L8	113	synchronization with (user near2 identifier \$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04
L9	24	8 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04
L10	1	9 and desktop same laptop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:04
L11	2	"20050190273".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/08/17 06:15


8/ 17/ 2009 6:27:12 AM

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wsp

<i>Index of Claims</i> 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner JEREMY D ENGELSKIRCHEN	Art Unit 2168

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47			
CLAIM		DATE							
Final	Original	12/06/2007	06/21/2008	04/10/2009	08/15/2009				
	1	✓	✓	÷	✓				
	2	✓	✓	÷	✓				
	3	✓	✓	÷	✓				
	4	✓	✓	÷	✓				
	5	✓	✓	÷	✓				
	6	✓	-	-	-				
	7	✓	✓	÷	✓				
	8	✓	✓	÷	✓				
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	25		✓	÷	✓				
	26		✓	÷	✓				
	27		✓	÷	✓				
	28		✓	÷	✓				
	29		✓	÷	✓				

Search Notes 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Jeremy D Engelskirchen	Art Unit 2168

SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor and Co-Inventors Search and DBL PAT Search	11/29/2007	JDE
Searched Class 707/010 and class 707 in EAST with keywords	12/3/2007	JDE
Searched NPL	12/3/2007	JDE
Searched Google Patents with keywords	11/29/2007	JDE
Searched EAST history attached	6/30/2008	JDE
Searched class 707/200 and 709 and 715 with keywords	6/30/2008	JDE
Searched Google Scholar and Google	6/24/2008	JDE
Updated Search in EAST in all DBs	8/17/2009	JDE
Searched in Google Patents	8/17/2009	JDE

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al. Art Unit : 2168
Serial No. : 11/339,301 Examiner : Jeremy D. Engelskirchen
Filed : January 25, 2006 Conf. No. : 7556
Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

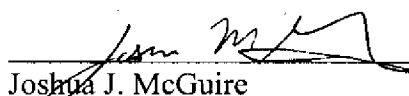
RESPONSE TO RESTRICTION REQUIREMENT MAILED APRIL 15, 2009

In response to the restriction requirement made in the action mailed April 15, 2009, the applicant elects Group I for examination, which encompasses claims 1-5, 7-15, and 23-29. The election is made without traverse.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: April 28, 2009


Joshua J. McGuire
Reg. No. 58,599

Fish & Richardson P.C.
3200 RBC Plaza
60 South Sixth Street
Minneapolis, Minnesota 55402
Telephone: (612) 335-5070
Facsimile: (877) 769-7945

60569920.doc

CERTIFICATE OF TRANSMISSION BY EFS-WEB

I hereby certify that this paper was filed with the United States Patent and Trademark Office using the EFS-WEB system on this date: April 28, 2009

Box & Dropbox Exhibit 1017

Page 247

Electronic Acknowledgement Receipt

EFS ID:	5234550
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Joshua J. McGuire/Theresa Russek
Filer Authorized By:	Joshua J. McGuire
Attorney Docket Number:	16113-094001/GP-770-00-US
Receipt Date:	28-APR-2009
Filing Date:	25-JAN-2006
Time Stamp:	15:33:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response to Election / Restriction Filed	resprestrequirement.pdf	18375 3fd962cd52e1ec23e55f8def432894b88a4fc5e	no	1

Warnings:

Information:

Box & Dropbox Exhibit 1017

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US	7556

26192 7590 04/15/2009
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER

ENGELSKIRCHEN, JEREMY D

ART UNIT	PAPER NUMBER
----------	--------------

2168

NOTIFICATION DATE	DELIVERY MODE
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04/15/2009

ELECTRONIC

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

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

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

PATDOCTC@fr.com

Office Action Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner JEREMY D. ENGELSKIRCHEN	Art Unit 2168	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 26 January 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-5 and 7-29 are subject to restriction and/or election requirement.

Application Papers

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

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

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

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-5, 7-15, and 23-29, drawn to transmitting extracted content and metadata from a client to peer, classified in class 707, subclass 10.
- II. Claim 16-22, drawn to a system for establishing multiple groups of clients authorized to share content, classified in class 707, subclass 9.

The inventions are distinct, each from the other because of the following reasons:

1. Inventions I and II are directed to related processes. The related inventions are distinct if:
(1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants.
See MPEP § 806.05(j). In the instant case, the inventions as claimed in Group I and Group II are directed to two different species. In particular Group I is directed to the transmission of content, while Group II is directed to establishing multiple groups of clients. These two methods are clearly different because there is a significant difference between transmitting content and establishing groups of clients. Moreover, the scope of the claims of Groups I and II does not overlap, because even though some parts of the claimed subject matter are similar, they are mutually exclusive, as shown above. Lastly, those two groups are not obvious variants because transmitting extracted content and metadata from a client to peer and establishing multiple groups of clients are very different operations.

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2. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to

Art Unit: 2168

petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

6. A shorten statutory period for response to this action is set to expire thirty days from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

8. A telephone call was made to Joshua McGuire on April 10, 2009 where the information on the restriction was relayed by the examiner. Mr. McGuire stated that he would have to consult with his client before electing and requested a written restriction requirement.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMY D. ENGELSKIRCHEN whose telephone number is (571) 270-1903. The examiner can normally be reached on Mon.-Thurs. 8:30am-5:00pm.


Art Unit: 2168

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/Jeremy D Engelskirchen/
Examiner, Art Unit 2168
April 10, 2009

/Tim T. Vo/
Supervisory Patent Examiner, Art Unit
2168

<i>Index of Claims</i> 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner JEREMY D ENGELSKIRCHEN	Art Unit 2168

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47			
CLAIM		DATE							
Final	Original	12/06/2007	06/21/2008	04/10/2009					
	1	✓	✓	÷					
	2	✓	✓	÷					
	3	✓	✓	÷					
	4	✓	✓	÷					
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	27		✓	÷					
	28		✓	÷					
	29		✓	÷					

1611IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Sigurdsson et al.	Art Unit	: 2168
Serial No.	: 11/339,301	Examiner	: Jeremy D. Engelskirchen
Filed	: January 25, 2006	Conf. No.	: 7556
Title	: MULTIPLE CLIENT SEARCH METHOD AND SYSTEM		

MAIL STOP AF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL AMENDMENT IN REPLY TO ACTION OF JULY 3, 2008

Please amend the above-identified application as follows:

CERTIFICATE OF MAILING BY EFS-WEB FILING

I hereby certify that this paper was filed with the Patent and Trademark Office using the EFS-WEB system on this date: January 26, 2009

Box & Dropbox Exhibit 1017

Page 258

Amendments to the Specification:

Please replace paragraphs [0058] and [0059] on pages 14 and 15 with the following amended paragraphs:

[0058] The system 400 can use several algorithms or rules to optimize the use of resources needed to synchronize the content among the various peer clients. Since bandwidth on the Server 106 and on the Clients 102 and 104 may be limited, and user actions can transmit or request large amounts of data at one time, content sharing can fall behind demand. For example, a user can store a very large document (e.g., a maintenance manual) on the Client A 102, and at a short time later, the same user empties a digital camera on the Client B 104. The same day, the user may go to work and update a small office memo on the Client C 406. Although the Server 106 can receive content for all three data items in the order that the user accessed them, the Server 106 can also deal with the data items by assigning it priorities. The Server 106 can handle the higher priority data items first, and save the lower priority data items for later. In one implementation, the priorities are based on attributes such as their size, type or age, which are each associated with a score. A lower combined score can be assigned a higher priority. For example, a small document (e.g., an office memo) would receive lower score based on size, thus a higher priority. Similarly, a large document (e.g., a maintenance manual) and digital photos would receive a higher score (and a lower priority). A data item's age would also affect its priority, with a higher priority being assigned to a newer data item. A data item's type can also be used to calculate its priority, since, for example, an office environment can place a higher priority on work-related data items, such as documents generated by ~~Microsoft~~ MICROSOFT Word^{[[™]]}. In some implementations, the priority algorithm is used by each of the clients to determine when to transmit content from that client to the server or another client.

[0059] The priority formula of one implementation can be stated as $1000 * \log_N(s) \sqrt{t/K} / B_{\{type\}}$, which is explained as follows: a data item would be assigned a base priority of 1000. The base priority is multiplied by the square root of the scaled time at which it was generated. This serves to significantly raise the priority of a very new data item. The priority is multiplied

by $\log_N(s)$ (the logarithm with the base N of s), where N is a constant and s is the size of the file in kilobytes. That way, small files would get priority over large files, yet large files do not get pushed too far to the back of the priority list since the factor is not linear. Finally, a constant “boost factor” B can be applied based on the type of the data item. The boost factor is 1 by default, but can be different for different types of data items (e.g., $B_{\{ms-office\}} = 2$), where ms-office signifies a Microsoft MICROSOFT Office^{[[TM]]} document.

Also please replace paragraph [0079] on page 19 with the following amended paragraph:

[0079] In another ~~alternate~~ alternative embodiment of step 620, both the first and second clients can be offline at the time of the third client's request for missing content. In this case, the third client can obtain the missing content from the server. For example, the Client C 406 requests the Client X Content 410 from the Server 106. Additionally, the Client C 406 can request the content from the Server even if the one or more other clients are online. For instance, the Client C may request the content from the Server if the other clients have less available bandwidth relative to the Server.

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:
receiving an event indicating that an action associated with a first file has been performed by a user using [[at]] a first client ~~used by a user specified by a user identifier~~, wherein the action is unrelated to transmitting the first file to another client;
extracting, using the first client in response to the event, content from the first file in response to the event and generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search of the first index entered at the first client;
identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated ~~is registered~~ with the same user identifier; and
transmitting, using the first client, the extracted content and the metadata to the peer client, the metadata data for use in updating a peer index used to identify files in response to a search of the peer index entered at the peer client.
2. (Original) The method of claim 1, wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file.
3. (Previously Presented) The method of claim 1, further comprising receiving from a server an indication that the server is configured to transmit the content to a requesting peer client; and transmitting the content and the metadata to the server if the peer client is not currently networked to the first client.

4. (Original) The method of claim 3, further comprising receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client.

5. (Original) The method of claim 4, wherein the requirements include time stamp values or data bit values.

6. (Cancelled)

7. (Original) The method of claim 1, wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a server, the first client receiving an indication from the server that the server is configured to transmit the content and the metadata to the peer client.

8. (Original) The method of claim 1, wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a second client, the first client receiving an indication from the second client that the second client is configured to transmit the content and the metadata to the peer client.

9. (Previously Presented) The method of claim 1, wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the content.

10. (Original) The method of claim 1, further comprising extracting content from a second file independent of an event occurrence, indexing the content from the second file, and transmitting the indexed content to the peer client.

11. (Original) The method of claim 1, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

12. (Original) The method of claim 1, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

13. (Original) The method of claim 1, further comprising increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.

14. (Original) The method of claim 1, further comprising associating an expiration date with the content before it is transmitted to the peer client.

15. (Original) The method of claim 1, further comprising transmitting a request to delete the content from the peer client if the content is deleted from the first client.

16. (Currently Amended) A computer system comprising:

one or more servers having

an authentication manager installed on the one or more servers and operable

to establish multiple groups of clients, wherein each group comprises clients that are used by ~~registered to~~ a same user, and wherein a client of the group is authorized to share information with another client of the group but is not authorized to share the information with a client that is not in the group and

to identify a particular group from the multiple groups based on a received user identifier that specifies a user of clients within the particular group;

a table manager module installed on the one or more servers and operable to receive an indication from a first client of the identified group that the user has performed an action on a file that is unrelated to a transfer of the file, the indication including content extracted from the file and a metadata value assigned to the content;

a data table that ~~to~~ stores the content extracted from the file on the first client and the metadata value;

an interface operable to receive from a second client a request for content that is associated with one or more metadata values within a specified metadata value range; and

a selection module installed on the one or more servers and operable to initiate transmission of the content to the second client if the second client is included in the identified

group and the metadata value associated with the content is within the specified metadata value range.

17. (Original) The system of claim 16, wherein the metadata value includes a time stamp that indicates when the action performed on the file occurred, and the metadata value range includes a sequential range of time stamp values that indicate a period of time.

18. (Original) The system of claim 16, further comprising an active client list that includes identifiers for clients from which requests for content have been received by the interface within a predetermined period of time, the active client list being used by the table manager module to determine if the content has been transmitted to all listed active clients before the table manager module issues a delete command to remove the content from the data table.

19. (Original) The system of claim 16, further comprising a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a deletion of at least a portion of the content from the data table when the quota is exceeded.

20. (Original) The system of claim 16, further comprising a list of source identifiers, one of which specifies the first client from which the content was received, the list of source identifiers being used to initiate a request for the content from the first client if the content has been deleted from the data table before the content is transmitted to the second client.

21. (Original) The system of claim 16, further comprising an authentication manager to transmit client identifiers for the first and second clients and a user identifier associated with the first and second clients to an external server for use in reconstructing the content if the content stored in the data table becomes inaccessible.

22. (Original) The system of claim 16, further comprising a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period, the throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold.

23. (Currently Amended) A system for sharing data across multiple clients comprising:

an event listener at a first client computer to receive from a user of the first client computer ~~specified by a user identifier~~ an action associated with a file, wherein the action is unrelated to transmitting the file to another client computer;

an extractor at the first client computer to extract content from the file in response to the event and to generate metadata for a first index stored at the first client computer, the metadata for indexing the extracted content so that the extracted content is searchable in response to a search of the first index entered at the first client computer; and

means for identifying a second client computer that is used by the same user of the first client computer based on a determination that both the second client computer and the first client computer are associated ~~is registered~~ with the same user identifier and transmitting the extracted content and the metadata from a first client computer to the second client computer for use in updating a second client index used to identify content in response to a search of the second client index entered at the second client computer.

24. (Currently amended) A computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform a method comprising:

receiving an event indicating that an action associated with a first file has been performed by a user using [[at]] a first client ~~used by a user specified by a user identifier~~, wherein the action is unrelated to transmitting the first file to another client;

extracting, using the first client in response to the event, content from the first file in response to the event and generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search of the first index entered at the first client;

identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated ~~is registered~~ with the same user identifier; and

transmitting, using the first client, the extracted content and the metadata to the peer

client, the metadata data for use in updating a peer index used to identify files in response to a search of the peer index entered at the peer client.

25. (Currently Amended) A computer-implemented method comprising:

receiving an event indicating a file access or a file save associated with a first file has been performed by a user using ~~[[at]] a first client used by a user specified by a user identifier~~, wherein the action is unrelated to transmitting the first file to another client;

extracting, using the first client in response to the event, content from the first file in response to the event and generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search of the first index entered at the first client;

identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated ~~is registered~~ with the same user identifier;

transmitting, using the first client, the extracted content and the metadata to a peer client, the metadata data for use in updating a peer index used to identify files in response to a search of the peer index entered at the peer client;

receiving from a server an indication that the server is configured to transmit the content to a requesting client and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server;

receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client, wherein the requirements include time stamp values or data bit values; and

extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first client and transmitting the additional content to the peer client based on one or more priority algorithms that specify an order in which the additional content is to be transmitted.

26. (Currently Amended) A computer-implemented method comprising:
- maintaining on a first client computer an index of files and cached copies of content from at least a portion of the files that are for display in response to a search of the index entered at the first client computer;
 - detecting an event that occurs to a file at the first client computer and updating the index to reflect information associated with the event; and
 - transmitting at least a portion of the updated index to a peer client computer that is a peer of the first client computer for updating a peer index that is stored at the peer client computer and that is for use in displaying search results in response to a search of the peer index entered at the peer client computer, wherein both the first client computer and the peer client computer are ~~registered to~~ associated with a same user identifier indicating a common user.
27. (Previously Presented) The method of claim 26, further comprising generating a cached copy of content from the file that is associated with the detected event and linking the cached copy with an entry for the file in the updated index.
28. (Previously Presented) The method of claim 27, further comprising transmitting the cached copy to the peer client computer for association with an entry in the updated peer index for the file.
29. (Previously Presented) The method of claim 26, wherein the first client computer and the peer client computer are associated with the same user.

REMARKS

This is a supplemental response to the earlier response filed December 3, 2008. Claims 1-5 and 7-29 are pending. The Applicants have amended independent claims 1, 16, 23, 24, 25, and 26. No new matter has been added. Reexamination and reconsideration of the action are requested in light of the forgoing amendments and the following remarks herein and in the earlier response.

The Applicants thank the Examiner for the telephone call with the Examiner on January 2, 2009. In the telephone call, the Applicants' representative informed the Examiner that he wished to file a supplemental response, and the Examiner agreed to review the supplemental response as well as the previous response. The substance of the claims or the prior art was not discussed.

Amended claims 1, 16, 23, 24, 25 and 26

Independent Claims 1, 16, 23, 24, 25, and 26

The Applicants have amended the independent claims to further clarify the claimed subject matter. For example, the amended language of claim 1 includes the following:

identifying a peer client that is used by the same user of the first client based on a determination that both the peer client and the first client are associated is ~~registered~~ with the same user identifier;

For example, in some implementations, a system may identify two clients that are used by the same user by determining whether both clients are associated with the same user identifier (e.g., a user's home computer and office computer both will be associated with the same user identifier).

Similarly, the Applicants also have amended the remaining independent claims to clarify their claimed subject matter.

These amendments do not change the substance of the remarks previously presented in the earlier response, and the Applicants request that the Examiner allow the claims in light of those remarks.

Conclusion

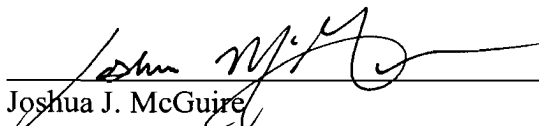
Applicants submit that claims 1-5 and 7-29 are in condition for allowance, and request that the Examiner issue a notice of allowance.

It is believed that all of the pending claims have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment.

The Applicants believe that no fees are due; however, please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: 1/26/09


Joshua J. McGuire
Reg. No. 58,599

Fish & Richardson P.C.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (877) 769-7945

Electronic Acknowledgement Receipt

EFS ID:	4676465
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Joshua J. McGuire/Theresa Russek
Filer Authorized By:	Joshua J. McGuire
Attorney Docket Number:	16113-094001/GP-770-00-US
Receipt Date:	26-JAN-2009
Filing Date:	25-JAN-2006
Time Stamp:	16:24:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		supplementalamendment.pdf	110215 8212c83dc4d4d47d425430ba3545c6a9dc66c0d2	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Amendment After Final	1	1
	Specification	2	3
	Claims	4	10
	Applicant Arguments/Remarks Made in an Amendment	11	12

Warnings:

Information:

Total Files Size (in bytes):	110215
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/339,301		Filing Date 01/25/2006		<input type="checkbox"/> To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)			SMALL ENTITY <input type="checkbox"/> OR		OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)		RATE (\$)	FEE (\$)			
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =		OR	X \$ =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =			X \$ =				
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	01/26/2009	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 28	Minus	** 28	= 0	X \$ =		OR	X \$52=	0
	Independent (37 CFR 1.16(h))	* 6	Minus	***6	= 0	X \$ =		OR	X \$220=	0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =		OR	X \$ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =		OR	X \$ =	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>										

Legal Instrument Examiner:
/KELLY D. HARRIS/

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

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

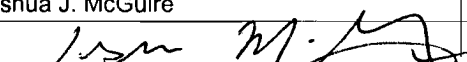
Request For Continued Examination (RCE) Transmittal Address to: Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	<i>Application Number</i>	11/339,301
	<i>Filing Date</i>	January 25, 2006
	<i>First Named Inventor</i>	Sigurdsson et al.
	<i>Group Art Unit</i>	2168
	<i>Conf No.</i>	7556
	<i>Examiner Name</i>	Jeremy D. Engelskirchen
	<i>Attorney Docket Number</i>	16113-0094001

This is a Request for Continued Examination (RCE) under 37 C.F.R. §1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 C.F.R. §1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s)
- a. ☐ Previously submitted. If a final Office action is outstanding, any amendment filed after the final Office action may be considered as a submission even if this box is not checked.
- i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ii. ☐ Other _____
- b. ☒ Enclosed
- i. ☒ Amendment/Reply
- ii. ☐ Affidavit(s)/Declaration(s)
- iii. ☐ Information Disclosure Statement (IDS)
- iv. ☐ Other _____
2. **Miscellaneous**
- a. ☐ Suspension of action on the above-identified application is requested under 37 C.F.R. §1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 C.F.R. §1.17(i) required)
- b. ☐ Other _____
3. **Fee** The RCE fee under 37 C.F.R. §1.17(e) is required by 37 C.F.R. §1.114 when the RCE is filed.
- a. ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. 06-1050
- i. ☒ RCE fee required under 37 CFR 1.17(e)
- ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17)
- iii. ☒ Other Any deficiencies
- b. ☐ Check in the amount of \$ _____ enclosed
- c. ☐ Payment by credit card (Form PTO-2038 enclosed)

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT REQUIRED

<i>Name (Print/Type)</i>	Joshua J. McGuire	<i>Registration No. (Attorney/Agent)</i>	58,599
<i>Signature</i>		<i>Date</i>	December 3, 2008

CERTIFICATE OF TRANSMISSION BY EFS-WEB

I hereby certify that this paper was filed with the United States Patent and Trademark Office using the EFS -WEB system on this date: December 3, 2008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Sigurdsson et al.	Art Unit	: 2168
Serial No.	: 11/339,301	Examiner	: Jeremy D. Engelskirchen
Filed	: January 25, 2006	Conf. No.	: 7556
Title	: MULTIPLE CLIENT SEARCH METHOD AND SYSTEM		

MAIL STOP AF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT IN REPLY TO ACTION OF JULY 3, 2008

Please amend the above-identified application as follows:

CERTIFICATE OF MAILING BY EFS-WEB FILING

I hereby certify that this paper was filed with the Patent and Trademark Office using the EFS-WEB system on this date: December 3, 2008

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Page 274

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:
receiving an event indicating that an action associated with a first file has been performed ~~by a user using~~ at a first client used by a user specified by a user identifier, wherein the action is unrelated to transmitting the first file to another client;
extracting, using the first client in response to the event, content ~~configured to be presented by~~ from the first file in response to the event and generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search query of the first index entered at the first client; ~~and~~
identifying a peer client that is used by the same user of the first client based on a determination that the peer client is registered with the same user identifier; and
transmitting, using the first client, the extracted content and the metadata to the a peer client, the metadata data for use in updating a peer index used to identify files in response to a search query of the peer index entered at the peer client.
2. (Original) The method of claim 1, wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file.
3. (Previously Presented) The method of claim 1, further comprising receiving from a server an indication that the server is configured to transmit the content to a requesting peer client; and transmitting the content and the metadata to the server if the peer client is not currently networked to the first client.

4. (Original) The method of claim 3, further comprising receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client.

5. (Original) The method of claim 4, wherein the requirements include time stamp values or data bit values.

6. (Cancelled)

7. (Original) The method of claim 1, wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a server, the first client receiving an indication from the server that the server is configured to transmit the content and the metadata to the peer client.

8. (Original) The method of claim 1, wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a second client, the first client receiving an indication from the second client that the second client is configured to transmit the content and the metadata to the peer client.

9. (Previously Presented) The method of claim 1, wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the content.

10. (Original) The method of claim 1, further comprising extracting content from a second file independent of an event occurrence, indexing the content from the second file, and transmitting the indexed content to the peer client.

11. (Original) The method of claim 1, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

12. (Original) The method of claim 1, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

13. (Original) The method of claim 1, further comprising increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.

14. (Original) The method of claim 1, further comprising associating an expiration date with the content before it is transmitted to the peer client.

15. (Original) The method of claim 1, further comprising transmitting a request to delete the content from the peer client if the content is deleted from the first client.

16. (Currently Amended) A computer system comprising:
one or more servers having

an authentication manager

to establish multiple groups of clients, wherein each group comprises clients that are registered to a same user ~~associated with a same user identifier~~, and wherein a client of the group is authorized to share information with another client of the group but is not authorized to share the information with a client that is not in the group and

to identify a particular group from the multiple groups based on a received user identifier that specifies a user of clients within the particular group;

a table manager module to receive an indication from a first client of the identified group that the a user has performed an action on a file that is unrelated to a transfer of the file, the indication including content extracted from the file and a metadata value assigned to the content;

a data table to store the content extracted from the file on the first client and the metadata value;

an interface to receive from a second client a request for content that is associated with one or more metadata values within a specified metadata value range; and

a selection module to initiate transmission of the content to the second client if the second client is included in the identified group and the metadata value associated with the content is within the specified metadata value range.

17. (Original) The system of claim 16, wherein the metadata value includes a time stamp that indicates when the action performed on the file occurred, and the metadata value range includes a sequential range of time stamp values that indicate a period of time.

18. (Original) The system of claim 16, further comprising an active client list that includes identifiers for clients from which requests for content have been received by the interface within a predetermined period of time, the active client list being used by the table manager module to determine if the content has been transmitted to all listed active clients before the table manager module issues a delete command to remove the content from the data table.

19. (Original) The system of claim 16, further comprising a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a deletion of at least a portion of the content from the data table when the quota is exceeded.

20. (Original) The system of claim 16, further comprising a list of source identifiers, one of which specifies the first client from which the content was received, the list of source identifiers being used to initiate a request for the content from the first client if the content has been deleted from the data table before the content is transmitted to the second client.

21. (Original) The system of claim 16, further comprising an authentication manager to transmit client identifiers for the first and second clients and a user identifier associated with the first and second clients to an external server for use in reconstructing the content if the content stored in the data table becomes inaccessible.

22. (Original) The system of claim 16, further comprising a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period, the throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold.

23. (Currently Amended) A system for sharing data across multiple clients comprising:
an event listener at a first client computer to receive from a user specified by a user identifier ~~an a-user-initiated~~ action associated with a file, wherein the action is unrelated to

transmitting the file to another ~~a second~~ client computer;

an extractor at the first client computer to extract content ~~from configured to be presented~~ by the file in response to the event and to generate metadata for a first index stored at the first client computer, the metadata for indexing that is associated with the extracted content so that the extracted content is searchable in response to a search query of the first index entered at the first client computer; and

means for identifying a second client computer that is used by the same user of the first client computer based on a determination that the second client computer is registered with the same user identifier and transmitting the extracted content and the metadata from a first client computer to a the second client computer for use in updating a second client index used to identify content in response to a search of the second client index ~~query~~ entered at the second client computer.

24. (Currently amended) A computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform a method comprising:

receiving an event indicating that an action associated with a first file has been performed ~~by a user using~~ at a first client used by a user specified by a user identifier, wherein the action is unrelated to transmitting the first file to another client;

extracting, using the first client in response to the event, content ~~configured to be presented by from~~ the first file in response to the event and generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search query of the first index entered at the first client; and

identifying a peer client that is used by the same user of the first client based on a determination that the peer client is registered with the same user identifier; and

transmitting, using the first client, the extracted content and the metadata to the a peer client, the metadata data for use in updating a peer index used to identify files in response to a search query of the peer index entered at the peer client.

25. (Currently Amended) A computer-implemented method comprising:

receiving an event indicating a file access or a file save ~~an action~~ associated with a first file has been performed ~~by a user using~~ at a first client used by a user specified by a user identifier, wherein the action is unrelated to transmitting the first file to another client, ~~and wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file;~~

extracting, using the first client in response to the event, content ~~configured to be presented by~~ from the first file in response to the event and generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search ~~query~~ of the first index entered at the first client; ~~and~~

identifying a peer client that is used by the same user of the first client based on a determination that the peer client is registered with the same user identifier;

transmitting, using the first client, the extracted content and the metadata to a peer client, the metadata data for use in updating a peer index used to identify files in response to a search ~~query~~ of the peer index entered at the peer client;

receiving from a server an indication that the server is configured to transmit the content to a requesting client and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server;

receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client, wherein the requirements include time stamp values or data bit values; and

extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first client and transmitting the additional content to the peer client based on one or more priority algorithms that specify an order in which the additional content is to be transmitted.

26. (Currently Amended) A computer-implemented method comprising:

maintaining on a first client computer an index of files and cached copies of content from at least a portion of the files that are for display in response to a search ~~query~~ query of the index entered at the first client computer;

detecting an event that occurs to a file at the first client computer and updating the index to reflect information associated with the event; and

transmitting at least a portion of the updated index to a peer client computer that is a peer of the first client computer for updating a peer index that is stored at the peer client computer and that is for use in displaying search results in response to a search ~~query~~ query of the peer index entered at the peer client computer, wherein the first client computer and the peer client computer are registered to a same user identifier indicating a common user.

27. (Previously Presented) The method of claim 26, further comprising generating a cached copy of content from the file that is associated with the detected event and linking the cached copy with an entry for the file in the updated index.

28. (Previously Presented) The method of claim 27, further comprising transmitting the cached copy to the peer client computer for association with an entry in the updated peer index for the file.

29. (Previously Presented) The method of claim 26, wherein the first client computer and the peer client computer are associated with the same user.

REMARKS

Claims 1-5 and 7-29 are pending. The Applicants have amended independent claims 1, 16, 23, 24, 25, and 26. No new matter has been added. Reexamination and reconsideration of the action are requested in light of the forgoing amendments and the following remarks

Claim Rejections – 35 USC §102 (e)

Independent Claims 1, 23, 24, 25, and 26

The Examiner rejected independent claims 1, 23, 24, 25, and 26 under 35 U.S.C. §102(e) as being anticipated by Toyama et al. (Pub. No. US 2005/0190273), hereinafter Toyama.

Toyama teaches an image sharing system that allows users to share their images with small groups of different users, large groups, or the whole world. Toyama, [0014]. Each of Toyama's users use their clients to transmit images or indexing information for the images to a master index stored on a central server. Toyama, [0019]. Different users can then query the master index at the central server to find images to download. Toyama, Abstract. Alternatively, users can query other users' computers on their "buddy list" to find images. Toyama, [0030].

Independent claim 1 recites in part

receiving an event indicating that an action associated with a first file has been performed at a first client used by a user specified by a user identifier ...

extracting ... content from the first file in response to the event and generating metadata for a first index stored at the first client, the metadata for indexing the first file so that the first file is identifiable in response to a search of the first index entered at the first client;

identifying a peer client that is used by the same user of the first client based on a determination that the peer client is registered with the same user identifier; and

transmitting ... the extracted content and the metadata to the peer client, the metadata data for use in updating a peer index used to identify files in response to a search of the peer index entered at the peer client. (*Emphasis added*)

Toyama is not the same as the recited method of amended claim 1. For example, claim 1 is directed to transmitting extracted content and metadata from a first client to a peer client,

where both the peer client and the first client are “used by the same user.” In some implementations, this may advantageously permit a user to access her content on a first computer (e.g., her computer at home) when the content was originally stored at a second computer (e.g., her computer at the office). See Applicants’ specification, [0026]. In contrast, Toyama teaches that the transfer of images is between clients used by different users. In fact, that is the entire point of the Toyama system – to share images with groups of different people up to and including sharing images with the entire world.

Moreover, claim 1 is directed to entering searches at a client, where the searches are performed on local indexes stored at the client. Specifically, claim 1 recites “indexing the first file so that the first file is identifiable in response to a search of the first index entered at the first client” and “updating a peer index used to identify files in response to a search of the peer index entered at the peer client.” This may permit, for example, a user to enter a search at her home computer and search the local index stored on her home computer. Because the index at her home computer may have been updated based on content and metadata from her office computer, she may be able to identify content that originated from her office computer through her search of the local index stored on her home computer. See Applicants’ specification, [0029] and [0030].

This is not the same as the Toyama system, which only discloses searching a *remote* master index at a central server and *remote* computers of other users that are on a buddy list. Furthermore, Toyama’s searching is of computers associated with different users (i.e., users on a buddy list or the central server). This is not the same as the claimed subject matter, where both the first client and the peer client are “used by the same user” as identified based on a determination that the first and peer clients are registered with the same user identifier.

Support for the amendments can be found throughout the specification (e.g., FIG. 3 and associated text, and FIG. 7 and [0088]).

For at least these reasons, the Applicants request that the Examiner withdraw the rejection from claim 1. Claims 23, 24, 25, and 26 include similar language as discussed above and should be allowed for at least the same reasons. Similarly, the claims which depend from these independent claims should be allowed for at least the same reasons as given for the independent claims.

Independent Claim 16

Amended claim 16 recites in part

an authentication manager to establish multiple groups of clients, wherein each group comprises clients that are registered to a same user ... and to identify a particular group from the multiple groups based on a received user identifier that specifies a user of clients within the particular group ...
a selection module to initiate transmission of [] content to the second client if the second client is included in the identified group . (*Emphasis added*)

For example, as previously discussed, the same user may use multiple computers such as a home computer and an office computer. In some implementations, this group of computers may be associated with the user via a user identifier. See Applicants' Specification, FIG. 7, [0088], and [0089]. The particular group of clients used by the user can be identified based on the user identifier. Transmission of content to a client can then be limited based on whether client is included in the identified group of clients used by the user who is specified by the user identifier.

In contrast, Toyama does not describe "multiple groups of clients, wherein each group comprises clients that are registered to a same user." Instead, Toyama describes buddy lists that identify other users that are "buddies" of a user. Moreover, Toyama does not describe identifying "a particular group ... based on a received user identifier that specifies a user of clients within the particular group." The Toyama system does not have groups of clients registered to the same user so there is no need for a user identifier that specifies a user of multiple clients. Furthermore, Toyama does not disclose initiating a transmission of content to a client if the client is included in the group that is identified based on the user identifier. Toyama, having no concept of the user identifier for specifying a user of multiple clients, cannot use it in a determination of whether to initiate a transmission to a particular client as recited in claim 16.

For at least these reasons, the Applicants request that the Examiner withdraw the rejection of claim 16 and all claims which depend from claim 16.

Claim Rejections – 35 USC 103

The Examiner rejected claims 13, 19, and 22 as being unpatentable over Toyama in view of Sidman (Pub. No. US 2004/0122741). Specifically, the Examiner relies on Toyama for teaching the elements in the independent claims 1 or 16 and Sidman as teaching various elements included in the dependent claims 13, 19, and 22.

To establish *prima facie* obviousness of a claimed invention, all the claim limitations must be taught or suggested by the prior art. *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974). "All words in a claim must be considered in judging the patentability of that claim against the prior art." *In re Wilson*, 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970). If an independent claim is nonobvious under 35 U.S.C. 103, then any claim depending therefrom is nonobvious. *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988).

For at least the reasons previously discussed Toyama does not teach or suggest all of the claim limitations of either claim 1 or 16, and Sidman does not cure these deficiencies. Thus, even if it were proper to combine Toyama and Sidman - which the Applicants do not concede – the combination would not disclose all of the claim limitations as required to establish a *prima facie* case of obviousness. Consequently, the Applicants respectfully request that the Examiner withdraw the rejection and allow claims 13, 19, and 22.

Conclusion

Applicants submit that claims 1-5 and 7-29 are in condition for allowance, and request that the Examiner issue a notice of allowance.

It is believed that all of the pending claims have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment.

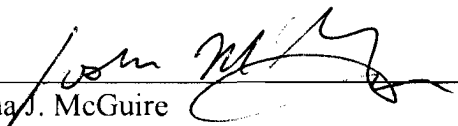
Applicant : Sigurdsson et al.
Serial No. : 11/339,301
Filed : January 25, 2006
Page : 13 of 13

Attorney's Docket No.: 16113-0094001 /GP-770-00-US

Examiner is authorized to charge Deposit Account No. 06-1050 \$810 for the RCE fee and \$490 for the Petition for Extension of Time fee. Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: 12/3/08



Joshua J. McGuire
Reg. No. 58,599

Fish & Richardson P.C.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (877) 769-7945

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al. Art Unit : 2168
Serial No. : 11/339,301 Examiner : Jeremy D. Engelskirchen
Filed : January 25, 2006 Conf. No. : 7556
Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450


PETITION FOR TWO-MONTH EXTENSION OF TIME UNDER 37 C.F.R. §1.136

Please extend the period for response to the action dated July 3, 2008, for two months to and including December 3, 2008.

Examiner is authorized to charge Deposit Account No. 06-1050 \$490 to cover the required fee. Apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: Dec 3, 2008


Joshua J. McGuire
Reg. No. 58,599

Fish & Richardson P.C.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (877) 769-7945

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CERTIFICATE OF TRANSMISSION BY EFS-WEB

I hereby certify that this paper was filed with the United States Patent and Trademark Office using the EFS -WEB system on this date: December 3, 2008

Box & Dropbox Exhibit 1017

Page 287

Electronic Patent Application Fee Transmittal

Application Number:	11339301			
Filing Date:	25-Jan-2006			
Title of Invention:	Multiple client search method and system			
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson			
Filer:	Joshua J. McGuire/Theresa Russek			
Attorney Docket Number:	16113-094001/GP-770-00-US			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with \$0 paid	1252	1	490	490

Box & Dropbox Exhibit 1017

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for continued examination	1801	1	810	810
Total in USD (\$)				1300

Electronic Acknowledgement Receipt

EFS ID:	4391398
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Joshua J. McGuire/Stacey Kelm
Filer Authorized By:	Joshua J. McGuire
Attorney Docket Number:	16113-094001/GP-770-00-US
Receipt Date:	03-DEC-2008
Filing Date:	25-JAN-2006
Time Stamp:	18:03:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1300
RAM confirmation Number	3680
Deposit Account	061050
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Msg & Digest	Multi Part/zip	Pages (if appl.)
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1	Request for Continued Examination (RCE)	rce.pdf	20586	no	1
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Warnings:					
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Information:					
2		amendment.pdf	140712	yes	13
			2fbcc1ea725f617b3c1bdcf3e9459abf172dc093		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment After Final		1	1	
	Claims		2	8	
	Applicant Arguments/Remarks Made in an Amendment		9	13	
Warnings:					
Information:					
3	Extension of Time	petexttime.pdf	14203	no	1
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Warnings:					
Information:					
4	Fee Worksheet (PTO-06)	fee-info.pdf	31783	no	2
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Total Files Size (in bytes):			207284		

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/339,301		Filing Date 01/25/2006		<input type="checkbox"/> To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY <input type="checkbox"/> OR		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=		X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY	
AMENDMENT	12/03/2008	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 28	Minus	** 28	= 0	X \$	=		X \$52=	0
	Independent (37 CFR 1.16(h))	* 6	Minus	***6	= 0	X \$	=		X \$220=	0
<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	0
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$	=		X \$	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$	=		X \$	=
<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>										

Legal Instrument Examiner:
/KIM WATSON SAUNDERS/

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/339,301

01/25/2006

Johann Tomas Sigurdsson

16113-094001/GP-770-00-US

7556

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FISH & RICHARDSON P.C.
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MINNEAPOLIS, MN 55440-1022

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ENGELSKIRCHEN, JEREMY D

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PAPER

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

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

Office Action Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner JEREMY D. ENGELSKIRCHEN	Art Unit 2169	

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 4/10/2008 and 5/23/2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 January 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>3/4/2008</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-5 and 7-29 are pending in this application. Claims 1, 3, 9, 16, 23, 24, and 25 have been amended. Claim 6 has been cancelled. Claims 26-29 are newly added claims.

Response to Amendment

2. This Office Action is in response to applicant's communications filed April 10, 2008 and May 23, 2008 in response to PTO Office Action mailed December 10, 2007. The Applicant's remarks and amendments to the claims were considered with the results that follow.

3. The rejections to claims 16-24 under 35 USC § 101 have been withdrawn due to the amendment filed on April 10, 2008.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

5. **Claim 1-5, 7-12, 14-18, 20-21, and 23-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Toyama et al. (Pub. No. US 2005/0190273), hereinafter Toyama. Toyama is disclosed in applicant's IDS dated March 4, 2008.**

6. With respect to claim 1, Toyama discloses receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client ([0022], lines 1-3 and 11-12 and [0026], lines 5-10);

extracting, using the first client in response to the event, content configured to be presented by the first file in response to the event ([0023], lines 6-9; *extracts various parameters of associated with the image, as available*) and generating metadata for indexing the first file so that the first file is identifiable in response to a search query entered at the first client ([0023], lines 6-14 and [0022]; *manual and automatic photo annotation at the user or client. These annotations are commonly referred to as metadata. This annotation data, or metadata, allows the user to effectively search and control access to the photo index or photo database*);

and transmitting, using the first client, the extracted content and the metadata to a peer client for use in updating a peer index used to identify files in response to a search query entered at the peer client ([0030] and [0032]-[0033]; *the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...Once a search is complete, the user can give feedback on the search, indicating which images they thought closes matched their search criteria. If the user wants to get a particular image or photograph from the query result, he requests it from the central server... If both clients are online at the same time, the transfer can be done P2P, without going through the central server*).

7. With respect to claim 2, Toyama discloses wherein the action that is unrelated to transmitting a file is a file access or a file save ([0026], lines 3-10), and the extracted content from the first file is a copy of the file or a copy of the contents of the file ([0027], lines 4-9).

8. With respect to claim 3, Toyama discloses receiving from a server an indication that the server is configured to transmit the content to a requesting peer client ([0019] and [0020], lines 10-14; *If the central server is configured with an image database containing all users images...it can also transfer images directly from its database to the requesting client*); and transmitting the content and the metadata to the server if the peer client is not currently networked to the first client ([0019]; The server sends the content and metadata to an online cache which corresponds to transmitting the content and the metadata to the server. *The cache allows for transfer of images between peers even when both clients are not present on the Internet or other network at the same time*).

9. With respect to claim 4, Toyama discloses receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client ([0104]).

10. With respect to claim 5, Toyama discloses wherein the requirements include time stamp values or data bit values ([0099]).

11. With respect to claim 7, Toyama discloses wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a server ([0019]), the first client receiving an indication from the server that the server is configured to transmit the content and the metadata to the peer client ([0019]).

12. With respect to claim 8, Toyama discloses wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a second client, the first client receiving an indication from the second client that the second client is configured to transmit the content and the metadata to the peer client ([0019]).

13. With respect to claim 9, Toyama discloses wherein generating metadata for indexing comprises formatting one or more symbols included in the content as keys operable to identify the content ([0019]).

14. With respect to claim 10, Toyama discloses extracting content from a second file independent of an event occurrence, indexing the content from the second file, and transmitting the indexed content to the peer client ([0108]).

15. With respect to claim 11, Toyama discloses wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text ([0102]).

16. With respect to claim 12, Toyama discloses wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting ([0104], lines 1-6).

17. With respect to claim 14, Toyama discloses associating an expiration date with the content before it is transmitted to the peer client ([0027]).

18. With respect to claim 15, Toyama discloses transmitting a request to delete the content from the peer client if the content is deleted from the first client ([0114], lines 1-4).

19. With respect to claim 16, Toyama discloses a computer system comprising: one or more servers having an authentication manager to establish multiple groups of clients ([0078], lines 17-20), wherein each group comprises clients that are associated with a same user identifier, and wherein a client of the group is authorized to share information with another client of the group but is not authorized to share the information with a client that is not in the group and to identify a particular group from the multiple groups based on a received user identifier ([0020]; buddy list or circle of friends feature); a table manager module to receive an indication from a first client of the identified group that a user has performed an action on a file that is unrelated to a transfer of the file ([0022], lines 1-3 and 11-12 and [0026], lines 5-10), the indication including content extracted from the file and a metadata value assigned to the content ([0023] and [0026]-[0027]); a data table to store the content extracted from the file on the first client and the metadata value ([0027]); an interface to receive from a second client a request for content that is

associated with one or more metadata values within a specified metadata value range ([0029]); and a selection module to initiate transmission of the content to the second client if the second client is included in the identified group and the metadata value associated with the content is within the specified metadata value range ([0030] and [0032]-[0033]; *the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...Once a search is complete, the user can give feedback on the search, indicating which images they thought closes matched their search criteria. If the user wants to get a particular image or photograph from the query result, he requests it from the central server... If both clients are online at the same time, the transfer can be done P2P, without going through the central server).*

20. With respect to claim 17, Toyama discloses wherein the metadata value includes a time stamp that indicates when the action performed on the file occurred ([0022], lines 6-10), and the metadata value range includes a sequential range of time stamp values that indicate a period of time ([0074]).

21. With respect to claim 18, Toyama discloses an active client list that includes identifiers for clients from which requests for content have been received by the interface within a predetermined period of time ([0108]), the active client list being used by the table manager module to determine if the content has been transmitted to all listed active clients before the table

manager module issues a delete command to remove the content from the data table ([0108]).

22. With respect to claim 20, Toyama discloses a list of source identifiers, one of which specifies the first client from which the content was received ([0033] and [0104]), the list of source identifiers being used to initiate a request for the content from the first client if the content has been deleted from the data table before the content is transmitted to the second client ([0033] and [0104]).

23. With respect to claim 21, Toyama discloses an authentication manager to transmit client identifiers for the first and second clients and a user identifier associated with the first and second clients to an external server for use in reconstructing the content if the content stored in the data table becomes inaccessible ([0033] and [0104]).

24. With respect to claim 23, Toyama discloses a system for sharing data across multiple clients (Abstract, lines 1-2) comprising: an event listener at a first client computer to receive a user-initiated action associated with a file, wherein the action is unrelated to transmitting the file to a second client computer ([0022], lines 1-3 and 11-12 and [0026], lines 5-10); an extractor at the first client computer to extract content configured to be presented by the file in response to the event ([0023], lines 6-9; *extracts various parameters of associated with the image, as available*) and to generate metadata that is associated with the extracted content so that the extracted content is searchable in response to a search query entered at the first client computer ([0023], lines 6-14 and [0022]; *manual and automatic photo annotation at the user or client*).

These annotations are commonly referred to as metadata. This annotation data, or metadata, allows the user to effectively search and control access to the photo index or photo database); and means for transmitting the extracted content and the metadata from a first client computer to a second client computer for use in updating a second client index used to identify content in response to a search query entered at the second client computer ([0030] and [0032]-[0033]; the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...Once a search is complete, the user can give feedback on the search, indicating which images they thought closes matched their search criteria. If the user wants to get a particular image or photograph from the query result, he requests it from the central server... If both clients are online at the same time, the transfer can be done P2P, without going through the central server).

25. With respect to claim 24, Toyama discloses a computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform a method ([0052]; *computer readable media*) comprising: receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client ([0022], lines 1-3 and 11-12 and [0026], lines 5-10); extracting, using the first client in response to the event, content from configured to be presented by the first file in response to the event ([0023], lines 6-9; *extracts various parameters of associated with the*

image, as available) and generating metadata for indexing the first file so that the first file is identifiable in response to a search query entered at the first client ([0023], lines 6-14 and [0022]; *manual and automatic photo annotation at the user or client. These annotations are commonly referred to as metadata. This annotation data, or metadata, allows the user to effectively search and control access to the photo index or photo database*); and transmitting, using the first client, the extracted content and the metadata to a peer client for use in updating a peer index used to identify files in response to a search query entered at the peer client ([0030] and [0032]-[0033]; *the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...If the user wants to get a particular image or photograph from the query result, he requests it from the central serve...If both clients are online at the same time, the transfer can be done P2P, without going through the central server*).

26. With respect to claim 25, Toyama discloses a method comprising: receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client ([0022], lines 1-3 and 11-12 and [0026], lines 5-10), and wherein the action that is unrelated to transmitting a file is a file access or a file save ([0026], lines 3-10), and the extracted content from the first file is a copy of the file or a copy of the contents of the file ([0027], lines 4-9); extracting, using the first client in response to the event ([0023], lines 6-9; *extracts various parameters of associated with the image, as available*), content from configured to be presented by the first file in response to

the event and generating metadata for indexing the first file so that the first file is identifiable in response to a search query entered at the first client ([0023], lines 6-14 and [0022]; *manual and automatic photo annotation at the user or client. These annotations are commonly referred to as metadata. This annotation data, or metadata, allows the user to effectively search and control access to the photo index or photo database*); and transmitting, using the first client, the extracted content and the metadata to a peer client for use in updating a peer index used to identify files in response to a search query entered at the peer client ([0030] and [0032]-[0033]; *the user creates a query of the central server's master index or master database...This query is sent to the central server. The central server sends the search results to the client. Each search can return, but is not limited to, in any combination, 1) the metadata of the photo; 2) a thumbnail of the photo; 3) relevancy to the current query...Once a search is complete, the user can give feedback on the search, indicating which images they thought closes matched their search criteria. If the user wants to get a particular image or photograph from the query result, he requests it from the central server... If both clients are online at the same time, the transfer can be done P2P, without going through the central server*);

receiving from a server an indication that the server is configured to transmit the content to a requesting client ([0019] and [0020], lines 10-14; *If the central server is configured with an image database containing all users images...it can also transfer images directly from its database to the requesting client*) and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server ([0019]; *The server sends the content and metadata to an online cache which corresponds to transmitting the content and the metadata to the server. The cache allows for transfer of images*

between peers even when both clients are not present on the Internet of other network at the same time);

receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client ([0104]), wherein the requirements include time stamp values or data bit values ([0099]);

and extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first client and transmitting the additional content to the peer client based on one or more priority algorithms that specify an order in which the additional content is to be transmitted (see para [0103]).

27. With respect to claim 26, Toyama discloses a computer-implemented method comprising: maintaining on a first client computer an index of files ([0015], lines 5-8; *master index of client photographs or images on a central server or a photo database that is resident on the central server*) and cached copies of content from at least a portion of the files that are for display in response to a search query entered at the first client computer ([0019], lines 5-8; *The central server responds to client queries of the master index or database. The central server can store requested images to an on-line photo/image cache. This on-line cache is live on the Internet or other network. Typically, the central server sends images extracted from its master photo database or another client to the photo cache so that a requesting client can download these images*); detecting an event that occurs to a file at the first client computer and updating the index to reflect information associated with the event ([0026]-[0027]); And transmitting at least a portion of the updated index to a peer client computer that is a peer of the first client computer

for updating a peer index that is stored at the peer client computer and that is for use in displaying search results in response to a search query entered at the peer client computer (see para. [0019]-[0020] and [0027]-[0030]).

28. With respect to claim 27, Toyama discloses generating a cached copy of content from the file that is associated with the detected event and linking the cached copy with an entry for the file in the updated index (see para [0092]).

29. With respect to claim 28, Toyama discloses transmitting the cached copy to the peer client computer for association with an entry in the updated peer index for the file ([0026], lines 3-10 and [0108]).

30. With respect to claim 29, Toyama discloses wherein the first client computer and the peer client computer are associated with the same user ([0108]).

Claim Rejections - 35 USC § 103

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

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

32. Claims 13, 19, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toyama as applied to claims 1 and 16 above, and further in view of Sidman (Pub. No. US 2004/0122741). Sidman is disclosed in applicant's IDS dated March 4, 2008.

33. Toyama discloses the invention substantially as claimed as detailed prior, however, Toyama does not expressly disclose increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value, a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a deletion of at least a portion of the content from [a] data table when the quota is exceeded, or a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period, and the throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold.

In the same art of peer-to-peer content sharing and metadata generation of content, Sidman discloses myriad methodologies drawn toward controlling, regulating, and monitoring peer-to-peer content transfer and methods for the generation and use of content metadata, including indexing and querying. See, inter alia, Para [0113]-[0142].

It would have been obvious to modify the peer-to-peer content distribution and metadata generation system expressly disclosed by Toyama with the peer-to-peer content distribution and metadata generation system specifics disclosed by Sidman in order to improve efficiency of the peer-to-peer network topology, inter alia, by selecting host peers, storage requirements, and

communicative techniques based on the particulars of each peer (client/server) node (Toyama, para [0007], and Sidman, para [0152]).

34. With respect to claim 13, Sidman discloses increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value ([0152]).

35. With respect to claim 19, Sidman discloses a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a deletion of at least a portion of the content from the data table when the quota is exceeded ([0152]).

36. With respect to claim 22, Sidman discloses a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period ([0152]), the throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold ([0152]).

Response to Arguments

37. Applicant's arguments with respect to the claims filed on 4/10/2008 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

38. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Horn (Pub. No. US 2004/0177319)
- b. Borden at al. (Pub. No. US 2004/0236801)
- c. Wardrop (Pub. No. US 2004/0122958)

39. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

40. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMY D. ENGELSKIRCHEN whose telephone number is (571) 270-1903. The examiner can normally be reached on Mon.-Thurs. 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trujillo can be reached on (571) 272-3677. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

JDE 6/30/2008

/James K. Trujillo/
Supervisory Patent Examiner, Art Unit
2169

Notice of References Cited	Application/Control No. 11/339,301		Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL.	
	Examiner JEREMY D. ENGELSKIRCHEN		Art Unit 2169	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2004/0177319	09-2004	Horn, Bruce L.	715/501.1
*	B	US-2004/0236801	11-2004	Borden et al.	707/204
*	C	US-2004/0122958	06-2004	Wardrop, Patrick Ryan	709/229
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			


FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS


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

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

<i>Index of Claims</i> 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner JEREMY D ENGELSKIRCHEN	Art Unit 4152

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant				<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
CLAIM		DATE							
Final	Original	12/06/2007	06/21/2008						
	1	✓	✓						
	2	✓	✓						
	3	✓	✓						
	4	✓	✓						
	5	✓	✓						
	6	✓	-						
	7	✓	✓						
	8	✓	✓						
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	27		✓						
	28		✓						
	29		✓						

Search Notes 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Jeremy D Engelskirchen	Art Unit 2169

SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor and Co-Inventors Search and DBL PAT Search	11/29/2007	JDE
Searched Class 707/010 and class 707 in EAST with keywords	12/3/2007	JDE
Searched NPL	12/3/2007	JDE
Searched Google Patents with keywords	11/29/2007	JDE
Searched EAST history attached	6/30/2008	JDE
Searched class 707/200 and 709 and 715 with keywords	6/30/2008	JDE
Searched Google Scholar and Google	6/24/2008	JDE

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	6169	content transfer\$4 metadata generation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/06/30 14:52
L5	2159	4 and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/06/30 14:52
L6	97	5 and 707/200.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:53
L7	331	5 and "709".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:53
L8	79	6 and client\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:54
L9	37	8 and (metadata with generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:54
L10	3	9 and (content with transfer\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:54

L11	63	7 and (content with transfer\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:55
L12	130	7 and (metadata with generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:55
L13	26	11 and (metadata with generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:55
L14	117	5 and (desktop with search \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:56
L15	11	14 and "707".clas. and "709".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:56
L16	6	14 and "707".clas. and "715".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:56
L17	8	("2004/0177319").URPN.	USPAT	OR	OFF	2008/06/30 15:00

6/30/2008 3:07:55 PM

C:\Documents and Settings\jengelskirchen\My Documents\EAST\Workspaces\11339301.wsp

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16113-0094001	Application No. 11/339,301
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sigurdsson et al.	
		Filing Date January 25, 2006	Group Art Unit 2161

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
/JE/	AA	US2002/0069218	6/6/2002	Sull et al.			
/JE/	AB	US2004/0122741	6/24/2004	Sidman			
/JE/	AC	US2005/0190273	09/01/2005	Toyama et al.			
	AD						
	AE						
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	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature /Jeremy Engelskirchen/	Date Considered 06/30/2008
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant :	Sigurdsson et al.	Art Unit :	2169
Serial No. :	11/339,301	Examiner :	Jeremy D. Engelskirchen
Filed :	January 25, 2006	Conf. No. :	7556
Title :	MULTIPLE CLIENT SEARCH METHOD AND SYSTEM		

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

SUPPLEMENTAL REPLY TO ACTION OF DECEMBER 10, 2007

Please amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:
receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client;
~~automatically extracting, using the first client in response to the event, content from~~
configured to be presented by the first file in response to the event using the first client and
generating metadata for indexing the first file so that the first file is identifiable in response to a
search query entered at the first client to associate with the content; and
transmitting, using the first client, the extracted content and the metadata to a peer client
for use in updating a peer index used to identify files in response to a search query entered at the
peer client if the peer client and the first client are currently operating and visible to each other
on a network, wherein the timing of the transmission is determined automatically after the event
is received.
2. (Original) The method of claim 1, wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file.
3. (Currently Amended) The method of claim 1, further comprising receiving from a server an indication that the server is configured to transmit the content to a requesting peer client; and
transmitting the content and the metadata to the server having received the indication and if the

peer client is not currently networked to the first client, ~~transmitting the content and the metadata to the server.~~

4. (Original) The method of claim 3, further comprising receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client.

5. (Original) The method of claim 4, wherein the requirements include time stamp values or data bit values.

6. (Cancelled)

7. (Original) The method of claim 1, wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a server, the first client receiving an indication from the server that the server is configured to transmit the content and the metadata to the peer client.

8. (Original) The method of claim 1, wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a second client, the first client receiving an indication from the second client that the second client is configured to transmit the content and the metadata to the peer client.

9. (Currently Amended) The method of claim 1, wherein generating metadata for indexing comprises formatting ~~further comprising indexing the content before it is transmitted to the peer client so that~~ one or more symbols included in the content ~~are formatted~~ as keys operable to identify the content.

10. (Original) The method of claim 1, further comprising extracting content from a second file independent of an event occurrence, indexing the content from the second file, and transmitting the indexed content to the peer client.

11. (Original) The method of claim 1, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

12. (Original) The method of claim 1, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

13. (Original) The method of claim 1, further comprising increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.

14. (Original) The method of claim 1, further comprising associating an expiration date with the content before it is transmitted to the peer client.

15. (Original) The method of claim 1, further comprising transmitting a request to delete the content from the peer client if the content is deleted from the first client.

16. (Previously Presented) A computer system comprising:
one or more servers having

an authentication manager

to establish multiple groups of clients, wherein each group comprises clients that are associated with a same user identifier, and wherein a client of the group is authorized to share information with another client of the group but is not authorized to share the information with a client that is not in the group and

to identify a particular group from the multiple groups based on a received user identifier;

a table manager module to receive an indication from a first client of the identified group that a user has performed an action on a file that is unrelated to a transfer of the file, the indication including content extracted from the file and a metadata value assigned to the content;

a data table to store the content extracted from the file on the first client and the metadata

value;

an interface to receive from a second client a request for content that is associated with one or more metadata values within a specified metadata value range; and

a selection module to initiate transmission of the content to the second client if the second client is included in the identified group and the metadata value associated with the content is within the specified metadata value range.

17. (Original) The system of claim 16, wherein the metadata value includes a time stamp that indicates when the action performed on the file occurred, and the metadata value range includes a sequential range of time stamp values that indicate a period of time.

18. (Original) The system of claim 16, further comprising an active client list that includes identifiers for clients from which requests for content have been received by the interface within a predetermined period of time, the active client list being used by the table manager module to determine if the content has been transmitted to all listed active clients before the table manager module issues a delete command to remove the content from the data table.

19. (Original) The system of claim 16, further comprising a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a deletion of at least a portion of the content from the data table when the quota is exceeded.

20. (Original) The system of claim 16, further comprising a list of source identifiers, one of which specifies the first client from which the content was received, the list of source identifiers being used to initiate a request for the content from the first client if the content has been deleted from the data table before the content is transmitted to the second client.

21. (Original) The system of claim 16, further comprising an authentication manager to transmit client identifiers for the first and second clients and a user identifier associated with the first and second clients to an external server for use in reconstructing the content if the content stored in the data table becomes inaccessible.

22. (Original) The system of claim 16, further comprising a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period, the throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold.

23. (Currently Amended) A system for sharing data across multiple clients comprising:

an event listener at a first client computer to receive a user-initiated action associated with a file, wherein the action is unrelated to transmitting the file to a second client computer;

an extractor at the first client computer to extract content configured to be presented by ~~from~~ the file in response to the event and to generate metadata that is associated with the extracted content context so that the extracted content is searchable in response to a search query entered at the first client computer; and

means for transmitting the extracted content and the metadata from a first client computer to a second client computer for use in updating a second client index used to identify content in response to a search query entered at the second client computer.

24. (Currently Amended) A computer program product tangibly embodied in a tangible, machine-readable storage device, the computer program product including instructions that, when executed, perform a method comprising:

receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client;

automatically extracting, using the first client in response to the event, content from configured to be presented by the first file in response to the event using the first client and generating metadata for indexing the first file so that the first file is identifiable in response to a search query entered at the first client to associate with the content; and

transmitting, using the first client, the extracted content and the metadata to a peer client for use in updating a peer index used to identify files in response to a search query entered at the peer client if the peer client and the first client are currently operating and visible to each other

~~on a network, wherein the timing of the transmission is determined automatically after the event is received.~~

25. (Currently Amended) A method comprising:

receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client, and wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file;

automatically extracting, using the first client in response to the event, content from configured to be presented by the first file in response to the event using the first client and generating metadata for indexing the first file so that the first file is identifiable in response to a search query entered at the first client to associate with the content; and

transmitting, using the first client, the extracted content and the metadata to a peer client for use in updating a peer index used to identify files in response to a search query entered at the peer client if the peer client and the first client are currently operating and visible to each other on a network, wherein the timing of the transmission is determined automatically after the event is received;

receiving from a server an indication that the server is configured to transmit the content to a requesting client and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server;

receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client, wherein the requirements include time stamp values or data bit values; and

extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first client and transmitting the additional content to the peer

client based on one or more priority algorithms that specify an order in which the additional content is to be transmitted.

26. (New) A computer-implemented method comprising:

maintaining on a first client computer an index of files and cached copies of content from at least a portion of the files that are for display in response to a search query entered at the first client computer;

detecting an event that occurs to a file at the first client computer and updating the index to reflect information associated with the event; and

transmitting at least a portion of the updated index to a peer client computer that is a peer of the first client computer for updating a peer index that is stored at the peer client computer and that is for use in displaying search results in response to a search query entered at the peer client computer.

27. (New) The method of claim 26, further comprising generating a cached copy of content from the file that is associated with the detected event and linking the cached copy with an entry for the file in the updated index.

28. (New) The method of claim 27, further comprising transmitting the cached copy to the peer client computer for association with an entry in the updated peer index for the file.

29. (New) The method of claim 26, wherein the first client computer and the peer client computer are associated with the same user.

REMARKS

This response is a supplemental response to the office action mailed on December 10, 2007. The Applicants previously filed a response to that office action on April 10, 2008. Claims 1-5, and 7-25 were pending as of the Applicants previous response dated April 10, 2008. Currently, claims 1, 16, 23, 24, 25, and 26 are in independent form. Claims 1, 3, 9, 23, 24, and 25 are currently being amended and new claims 26-29 are added. No new matter has been added. Support for the amendments is discussed below.

Thus, claims 1-5 and 7-29 are now currently pending. Reexamination and reconsideration of the action are requested in light of the forgoing amendments and the following remarks.

Interview Summary

The Applicants would like to thank the Examiner for the interview of April 22, 2008 in which claims 1 and 25 and the Aboulhossn reference were discussed. The Applicants also discussed the differences between amended claim 16 and the prior art.

The Examiner and the Examiner's supervisor requested that the claim language for claim 1 be amended to better clarify the claimed subject matter. Specifically, the Examiner requested that the term "extracted" be added to the term "content," that the meaning of the term "metadata" be clarified, and that the Applicants clarify the claim language to better specify which client performs which actions. Claims 1 and 25 have been amended based on the Examiner's suggestions. Various dependent claims have been amended for consistency with the amendments made in the independent claims. Support for the amended claims can be found throughout the specification (e.g., see [0026] and FIG. 6 and associated text).

New Claims 26-29

The Applicants have added new claims 26-29 to highlight the index and search query aspects also discussed in the interview of April 22, 2008. Support for the new claims can be found throughout the specification (e.g., see [0026] and FIG. 6 and associated text).

Conclusion


In light of the amendments based on the Examiner's suggestions made in the interview of April 22, 2008, the Applicants request that the Examiner allow all pending claims.

By responding in the foregoing remarks only to particular positions taken by the examiner, the applicant does not acquiesce with other positions that have not been explicitly addressed. In addition, the applicant's selecting some particular arguments for the patentability of a claim should not be understood as implying that no other reasons for the patentability of that claim exist. Finally, the applicant's decision to amend, cancel, or add any claim should not be understood as implying that the applicant agrees with any positions taken by the examiner with respect to that claim or other claims.

Examiner is authorized to charge Deposit Account No. 06-1050 \$360 for excess claim fees. Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: 5/23/08


Joshua J. McGuire
Reg. No. 58,599

Fish & Richardson P.C.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

60500578.doc

Electronic Patent Application Fee Transmittal

Application Number:	11339301			
Filing Date:	25-Jan-2006			
Title of Invention:	Multiple client search method and system			
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson			
Filer:	Joshua J. McGuire/Theresa Russek			
Attorney Docket Number:	16113-094001/GP-770-00-US			
Filed as Large Entity				
Utility Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	1202	3	50	150
Independent claims in excess of 3	1201	1	210	210
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				360

Electronic Acknowledgement Receipt

EFS ID:	3351856
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Joshua J. McGuire/Theresa Russek
Filer Authorized By:	Joshua J. McGuire
Attorney Docket Number:	16113-094001/GP-770-00-US
Receipt Date:	23-MAY-2008
Filing Date:	25-JAN-2006
Time Stamp:	15:19:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$360
RAM confirmation Number	548
Deposit Account	061050
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) Message Digest	Multi-Part (if appl.)	Pages (if appl.)
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1		supplementalresponse.pdf	404815 4d11479c34a46aaeea6351f66234c433d4dca186	yes	10				
	Multipart Description/PDF files in .zip description								
	Document Description		Start	End					
	Amendment - After Non-Final Rejection		1	1					
	Claims		2	8					
	Applicant Arguments/Remarks Made in an Amendment		9	10					
Warnings:									
Information:									
2	Fee Worksheet (PTO-06)	fee-info.pdf	8299 9c0dec751c0699a320ad7ae6a4f8dc82ef770675	no	2				
Warnings:									
Information:									
Total Files Size (in bytes):			413114						
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>									

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/339,301		Filing Date 01/25/2006		<input type="checkbox"/> To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY <input type="checkbox"/> OR		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
<input checked="" type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300			
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	24 minus 20 =	* 4	X \$ =		OR	X \$50 =	200			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	* 1	X \$ =			X \$200 =	200			
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	700			
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY	
AMENDMENT	05/23/2008	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 24	Minus	** 24	= 0	X \$ =		OR	X \$50=	0
	Independent (37 CFR 1.16(h))	* 6	Minus	***5	= 1	X \$ =		OR	X \$210=	210
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	210
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =		OR	X \$ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =		OR	X \$ =	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>										

Legal Instrument Examiner:
/GWENDOLYN MYERS/

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US	7556

26192 7590 04/30/2008
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER

ENGELSKIRCHEN, JEREMY D

ART UNIT	PAPER NUMBER
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2169

MAIL DATE	DELIVERY MODE
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04/30/2008

PAPER

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

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

Interview Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL.	
	Examiner JEREMY D. ENGELSKIRCHEN	Art Unit 2169	

All participants (applicant, applicant's representative, PTO personnel):

(1) JEREMY D. ENGELSKIRCHEN.

(3) Joshua McGuire (Reg. No. 58599).

(2) Uyen Le.

(4) ____.

Date of Interview: 22 April 2008.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.

If Yes, brief description: ____.

Claim(s) discussed: 1, 16 and 25.

Identification of prior art discussed: Aboulhosn et al.

Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☒ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

/James K. Trujillo/
SPE, AU 2169

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Interview began with general discussion of Google's Desktop Search and a general discussion of the Aboulhosen art of record. Examiners suggested clarification on operations performed by the first client or other client; for example, the automatic extraction of content, the generation of metadata, the transmission of extracted content and metadata. Examiner also suggested to distinguish metadata from the extracted content. Applicant agreed to amend claim 1 to clarify how metadata is distinct from the extracted content. With regards to claim 25, examiner suggested that the applicant clarify the claimed priority algorithm to distinguish over the queuing priority of Aboulhosen. Applicant stated he would amend claim 25. With regards to claim 16, applicant explained the new limitation of the authentication manager and agreed to the examiner's interpretation of the claim.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant :	Sigurdsson et al.	Art Unit :	2161
Serial No. :	11/339,301	Examiner :	Jeffrey A. Gaffin
Filed :	January 25, 2006	Conf. No. :	7556
Title :	MULTIPLE CLIENT SEARCH METHOD AND SYSTEM		

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

AMENDMENT IN REPLY TO ACTION OF DECEMBER 10, 2007

Please amend the above-identified application as follows:

CERTIFICATE OF MAILING BY EFS-WEB FILING

I hereby certify that this paper was filed with the Patent and Trademark Office using the EFS-WEB system on this date: April 10, 2008

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Original) A method comprising:

receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client;

automatically extracting content from the first file in response to the event using the first client and generating metadata to associate with the content; and

transmitting, using the first client, the content and the metadata to a peer client if the peer client and the first client are currently operating and visible to each other on a network, wherein the timing of the transmission is determined automatically after the event is received.

2. (Original) The method of claim 1, wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file.

3. (Original) The method of claim 1, further comprising receiving from a server an indication that the server is configured to transmit the content to a requesting client; and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server.

4. (Original) The method of claim 3, further comprising receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client.

5. (Original) The method of claim 4, wherein the requirements include time stamp values or data bit values.

6. (Cancelled)

7. (Original) The method of claim 1, wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a server, the first client receiving an indication from the server that the server is configured to transmit the content and the metadata to the peer client.

8. (Original) The method of claim 1, wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a second client, the first client receiving an indication from the second client that the second client is configured to transmit the content and the metadata to the peer client.

9. (Original) The method of claim 1, further comprising indexing the content before it is transmitted to the peer client so that one or more symbols included in the content are formatted as keys operable to identify the content.

10. (Original) The method of claim 1, further comprising extracting content from a second file independent of an event occurrence, indexing the content from the second file, and transmitting the indexed content to the peer client.

11. (Original) The method of claim 1, wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text.

12. (Original) The method of claim 1, wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting.

13. (Original) The method of claim 1, further comprising increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.

14. (Original) The method of claim 1, further comprising associating an expiration date with the content before it is transmitted to the peer client.

15. (Original) The method of claim 1, further comprising transmitting a request to delete the content from the peer client if the content is deleted from the first client.

16. (Currently Amended) A computer system ~~having~~ comprising:

one or more servers ~~having comprising~~:

an authentication manager

to establish multiple groups of clients, wherein each group comprises clients that are associated with a same user identifier, and wherein a client of the group is authorized to share information with another client of the group but is not authorized to share the information with a client that is not in the group and

to identify a particular group from the multiple groups based on a received user identifier;

a table manager module to receive an indication from a first client of the identified group that a user has performed an action on a file that is unrelated to a transfer of the file, the indication including content extracted from the file and a metadata value assigned to the content;

a data table to store the content extracted from the file on the first client and the metadata value;

an interface to receive from a second client a request for content that is associated with one or more metadata values within a specified metadata value range; and

a selection module to initiate transmission of the content to the second client if the second client is included in the identified group and the metadata value associated with the content is within the specified metadata value range.

17. (Original) The system of claim 16, wherein the metadata value includes a time stamp that indicates when the action performed on the file occurred, and the metadata value range includes a sequential range of time stamp values that indicate a period of time.

18. (Original) The system of claim 16, further comprising an active client list that includes identifiers for clients from which requests for content have been received by the interface within a predetermined period of time, the active client list being used by the table manager module to determine if the content has been transmitted to all listed active clients before the table manager module issues a delete command to remove the content from the data table.

19. (Original) The system of claim 16, further comprising a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a deletion of at least a portion of the content from the data table when the quota is exceeded.

20. (Original) The system of claim 16, further comprising a list of source identifiers, one of which specifies the first client from which the content was received, the list of source identifiers being used to initiate a request for the content from the first client if the content has been deleted from the data table before the content is transmitted to the second client.

21. (Original) The system of claim 16, further comprising an authentication manager to transmit client identifiers for the first and second clients and a user identifier associated with the first and second clients to an external server for use in reconstructing the content if the content stored in the data table becomes inaccessible.

22. (Original) The system of claim 16, further comprising a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period, the throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold.

23. (Currently Amended) A system for sharing data across multiple clients comprising:

an event listener at a first client computer to receive a user-initiated action associated with a file, wherein the action is unrelated to transmitting the file to a second client computer;

an extractor at the first client computer to extract content from the file in response to the event and to generate metadata that is associated with the context; and

means for transmitting the content and the metadata from a first client computer to a second client computer.

24. (Currently Amended) A computer program product tangibly embodied in a tangible, machine-readable storage device ~~information carrier~~, the computer program product including instructions that, when executed, perform a method comprising:

receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client;

automatically extracting content from the first file in response to the event using the first client and generating metadata to associate with the content; and

transmitting, using the first client, the content and the metadata to a peer client if the peer client and the first client are currently operating and visible to each other on a network, wherein the timing of the transmission is determined automatically after the event is received.

25. (New) A method comprising:

receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client, and wherein the action that is unrelated to transmitting a file is a file access or a file save, and the extracted content from the first file is a copy of the file or a copy of the contents of the file;

automatically extracting content from the first file in response to the event using the first client and generating metadata to associate with the content;

transmitting, using the first client, the content and the metadata to a peer client if the peer client and the first client are currently operating and visible to each other on a network, wherein the timing of the transmission is determined automatically after the event is received;

receiving from a server an indication that the server is configured to transmit the content to a requesting client and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server;

receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client, wherein the requirements include time stamp values or data bit values; and

extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first client and transmitting the additional content to the peer client based on one or more priority algorithms that specify an order in which the additional content is to be transmitted.

REMARKS

Claims 1-24 were pending as of the action mailed on December 10, 2007. Claims 1, 16, 23, 24 and 25 are in independent form. Dependent claim 6 has been canceled and rewritten in independent form as new claim 25. Claims 16, 23, and 24 are being amended. No new matter has been added. Support for the amendments is discussed below.

Thus, claims 1-5 and 7-25 are now currently pending. Reexamination and reconsideration of the action are requested in light of the forgoing amendments and the following remarks.

Section 101 Rejections

The examiner has rejected claims 16-24 under 35 U.S.C. § 101 as allegedly directed to non-statutory subject matter. To expedite prosecution, and without prejudice, independent claims 16, 23, and 24 have been amended. Claims 17-22 depend from claim 16.

More specifically, claim 16 has been amended to recite “A computer system comprising: ~~having~~ one or more servers having comprising.” Support for this amendment is found throughout the specification (e.g., FIGs. 3, 7 and associated text, and paragraphs [0110] and [0114]).

The Applicants have amended claim 23 to recite “a first client computer” and “a second client computer.” Support for this amendment is also found through the specification including at paragraphs [0110] and [0114].

Additionally, the Applicants have amended claim 24 to recite “A computer program product tangibly embodied in a tangible, machine-readable ~~information carrier~~ storage device.” Support for this amendment is also found in the specification, for example, in paragraph [0110].

Withdrawal of the rejections under 35 U.S.C. § 101 is therefore respectfully requested.

Section 102 Rejections

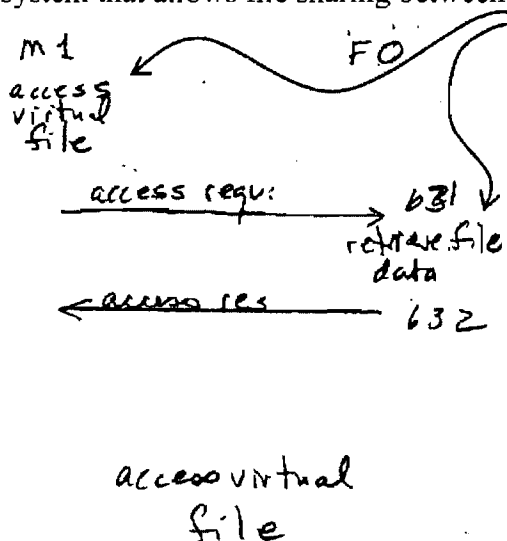
Claims 1-5, 7-10, 12, and 15

Claims 1-10, 12, 14, and 23-24 are rejected under 35 U.S.C. § 102(b) as allegedly anticipated by Aboulhosn et al., Pub. No. US 2004/0068524 (“Aboulhosn”). The Applicants

respectful traverse the rejection because Aboulhosn fails to disclose all the elements set forth in the rejected claims.

Unlike claim 1, the Aboulhosn reference fails to disclose “receiving an event indicating an *action associated with a first file has been performed by a user using a first client* ... automatically *extracting content from the first file ... using the first client* and generating metadata to associate with the content; and *transmitting, using the first client, the content and the metadata to a peer client*”

Aboulhosn discloses a file sharing system that allows file sharing between users for files that are associated with a group folder. Each member of the group has a group folder that can contain actual files stored at that member and “virtual files” that identify an actual file stored at another member. When a *first member accesses a virtual file*, the file sharing system detects the access and *requests a copy of the file from a second member that stores the actual file*. (See Aboulhosn Abstract, Examiner-cited paragraph [0013], and FIG. 6C above).



Contrary to Applicants' method of claim 1, Aboulhosn discloses retrieving file data from a *different* file than is accessed by the first member (M1). Aboulhosn employs this because the “virtual file” accessed by M1 does not have the content of the actual file, but instead requests it from another member.

Having a first member access a virtual file to request a copy of an actual file from a second member that stores the actual file is not the same as automatically extracting content from the first file using the first client, where the first file is associated with an action performed by a user on the first client.

Moreover, while Aboulhosn discloses sending metadata for an updated file from a file owner when a shared file is modified, the reference does not disclose “transmitting, using the first client, the content and the metadata.” Instead Aboulhosn appears to only disclose sending a copy of an actual file when a virtual file is accessed by a different member.

Accordingly, for at least the reasons given above, Aboulhosen fails to disclose all the elements of claim 1 and the rejections based on Aboulhosen should be withdrawn. Applicants respectfully submit that independent claim 1 is patentable over the prior art references cited in the record. Furthermore, dependent claims 2-5, 7-10, 12, and 15 are patentable for at least the same reasons as independent claim 1 and for the additional inventive features described therein.

The Examiner also rejected independent claims 23 and 24 based on Aboulhosen for the same reasons given in the rejection of claim 1. These claims, however, are also patentable over Aboulhosen for at least the same reasons the Applicants have stated for claim 1. Prompt allowance of claims 1-5, 7-10, 12, 15, 23, and 24 is respectfully requested.

Dependent Claim 6 and New Claim 25

Currently cancelled claim 6 recites “extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first client and transmitting the additional content to the peer client based on one or more **priority algorithms that specify an order in which the additional content is to be transmitted**” and depended on claim 5, which depends from claim 4, which depends from claim 3, which depends from claim 2.

The Examiner rejected claim 6 asserting that Aboulhosen disclosed the recited method of claim 6 at paragraph [0030], lines 4-6, which states “Once authenticated, the member is online and sends its queued messages into the recipient computer systems that are currently online.” This cited text does not disclose “transmitting the additional content ... based on **one or more priority algorithms that specify an order in which the addition content is to be transmitted.**” Particularly, there is no mention of any priority algorithms or the specification of an order in which the additional content is transmitted.

Furthermore, nothing in paragraph [0030] or elsewhere in Aboulhosen appears to disclose or indicate that additional content is transmitted based on one or more priority algorithms that specify an order in which the additional content is transmitted.

For clarity, dependent claim 6 has been cancelled and rewritten in an independent form that incorporates all the limitations of the claims from which it depends. The Applicants have

added the rewritten claim as new claim 25 and note that the rewritten claim has the same scope as previously pending claim 6. For at least the reasons given for claim 1 and claim 6, new independent claim 25 should be allowed.

Subsequent Office Action Cannot be Made “Final”

The Applicants would like to remind the Examiner that under MPEP § 706.07(a), the next Office Action cannot be “final” if the Examiner presents a new ground for rejection of claim 1 or claim 25¹, each of which was not amended. Applicants must be provided due process to address any new rejections offered by the Examiner.

Claims 16-22

Claims 16-22 are rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by Lev Ran et al., Pub. No. US 2004/0255048 (“Lev”). The Applicants respectfully submit that Lev fails to disclose all the elements in amended claim 16 and respectfully requests that the Examiner withdraw the rejection and allow amended claim 16 and its dependent claims.

Amended claim 16 recites:

A computer system ~~having~~ comprising:

one or more servers ~~having~~ comprising:

an authentication manager

to establish multiple groups of clients, wherein each group comprises clients that are associated with a same user identifier, and wherein a client of the group is authorized to share information with another client of the group but is not authorized to share the information with a client that is not in the group and

to identify a particular group from the multiple groups based on a received user identifier;

a table manager module to receive an indication from a first client of the identified group that a user has performed an action on a file that is unrelated to a transfer of the file, the indication including content extracted from the file and a metadata value assigned to the content;

a data table to store the content extracted from the file on the first client and the metadata value;

an interface to receive from a second client a request for content that is associated with one or

¹ As mentioned previously, new claim 25 is claim 6 rewritten in independent form without any amendment to change the scope.

more metadata values within a specified metadata value range; and
a selection module to initiate transmission of the content to the second client if the second client is included in the identified group and the metadata value associated with the content is within the specified metadata value range.

The Applicants respectfully submit that the elements of amended claim 16 are not disclosed by Lev. For example, amended claim 16 recites “an authentication manager to establish multiple groups of clients, *wherein each group comprises clients that are associated with a same user identifier.*” Lev does not appear to disclose or indicate that a group comprises clients that are associated with *a same user identifier*. For at least this reason, the Applicants respectfully request that the Examiner withdraw the rejection of claim 16 and its dependent claims 17-22 and allow the claims.

Section 103 Rejections

Claims 11, 13, and 14 are rejected under 35 U.S.C. § 103(a) as allegedly unpatentable over the combined teachings of Aboulhosn as applied to claim 1 and Lev. As previously discussed, Aboulhosn does not disclose the recited elements of claim 1. Consequently, even if Aboulhosn were combined with Lev, the combination would at least lack the previously discussed elements recited in claim 1 from which the claims 11, 13, and 14 depend.

Thus, for at least the reasons given above, the Applicants respectfully request that the Examiner withdraw the rejection under 35 U.S.C. § 103(a) and allow the dependent claims 11, 13, and 14.

Conclusion

By responding in the foregoing remarks only to particular positions taken by the examiner, the applicant does not acquiesce with other positions that have not been explicitly addressed. In addition, the applicant's selecting some particular arguments for the patentability of a claim should not be understood as implying that no other reasons for the patentability of that claim exist. Finally, the applicant's decision to amend, cancel, or add any claim should not be understood as implying that the applicant agrees with any positions taken by the examiner with respect to that claim or other claims.


Applicant : Sigurdsson et al.
Serial No. : 11/339,301
Filed : January 25, 2006
Page : 13 of 13

Attorney's Docket No.: 16113-0094001 / GP-770-00-US

The fee in the amount of \$120.00 for a one month extension of time is being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: 4/10/08



Joshua J. McGuire
Reg. No. 58,599

Customer No. 26192
Fish & Richardson P.C.
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

60471756.doc

Electronic Patent Application Fee Transmittal

Application Number:	11339301			
Filing Date:	25-Jan-2006			
Title of Invention:	Multiple client search method and system			
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson			
Filer:	Joshua J. McGuire/Tammera Shinn			
Attorney Docket Number:	16113-094001/GP-770-00-US			
Filed as Large Entity				
Utility Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Independent claims in excess of 3	1201	1	210	210
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Box & Dropbox Exhibit 1017

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	1251	1	120	120
Miscellaneous:				
Total in USD (\$)				330

Electronic Acknowledgement Receipt

EFS ID:	3136227
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Joshua J. McGuire/Tammera Shinn
Filer Authorized By:	Joshua J. McGuire
Attorney Docket Number:	16113-094001/GP-770-00-US
Receipt Date:	10-APR-2008
Filing Date:	25-JAN-2006
Time Stamp:	17:59:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$330
RAM confirmation Number	2925
Deposit Account	061050
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) Message Digest	Multi-Part/zip	Pages (if appl.)
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1	Extension of Time	petext.pdf	37740 2971108a7454fe29258da8396b0ca5ad5c932553	no	1
Warnings:					
Information:					
2		amendment.pdf	644888 ded631a7632880718c61e6d990cb83ee21a4bd83	yes	13
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment - After Non-Final Rejection		1	1	
	Claims		2	7	
	Applicant Arguments/Remarks Made in an Amendment		8	13	
Warnings:					
Information:					
3	Fee Worksheet (PTO-06)	fee-info.pdf	8336 9faae243aea9de52bc06c4808823d98005546b64	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			690964		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al. Art Unit : 2161
Serial No. : 11/339,301 Examiner : Jeffrey A. Gaffin
Filed : January 25, 2006 Conf. No. : 7556
Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

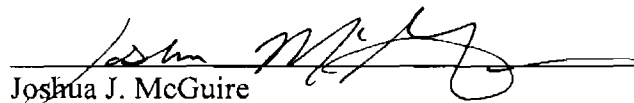
PETITION FOR ONE-MONTH EXTENSION OF TIME

Pursuant to 37 CFR §1.136, applicant hereby petitions that the period for response to the action dated December 10, 2007, be extended for one month to and including April 10, 2008.

Please charge Deposit Account No. 06-1050 in the amount of \$120 for the required fee.
Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 4/10/08


Joshua J. McGuire
Reg. No. 58,599

Fish & Richardson P.C.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 11/339,301		Filing Date 01/25/2006		<input type="checkbox"/> To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY <input type="checkbox"/> OR		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=		X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	04/10/2008	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 24	Minus	** 24	= 0	X \$	=		X \$50=	0
	Independent (37 CFR 1.16(h))	* 5	Minus	***4	= 1	X \$	=		X \$210=	210
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			OR	TOTAL ADD'L FEE
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$	=		X \$	=
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			OR	TOTAL ADD'L FEE
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>										

Legal Instrument Examiner:
/CRYSTAL QUEEN/

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al. Art Unit : 2161
Serial No. : 11/339,301 Examiner : Jeffrey A. Gaffin
Filed : January 25, 2006 Conf. No. : 7556
Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

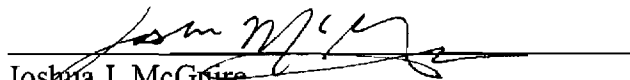
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. I, the undersigned, hereby certify that each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application, the communication being dated February 27, 2008, which is not more than three months prior to the filing of this statement. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 3/4/08


Joshua J. McGuire
Reg. No. 58,599

Fish & Richardson P.C.
60 South Sixth Street, Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

60487211.doc

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16113-0094001	Application No. 11/339,301
	Applicant Sigurdsson et al.		
	Filing Date January 25, 2006	Group Art Unit 2161	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	US2002/0069218	6/6/2002	Sull et al.			
	AB	US2004/0122741	6/24/2004	Sidman			
	AC	US2005/0190273	09/01/2005	Toyama et al.			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

Box & Dropbox Exhibit 1017

Page 357

Electronic Acknowledgement Receipt

EFS ID:	2948691
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Joshua J. McGuire
Filer Authorized By:	
Attorney Docket Number:	16113-094001/GP-770-00-US
Receipt Date:	04-MAR-2008
Filing Date:	25-JAN-2006
Time Stamp:	17:15:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed	IDS1449.pdf	87550 7bab3106b85f4c2d1bc1adefba8dc74886b5526eb	no	2

Warnings:

Information:

Box & Dropbox Exhibit 1017

This is not an USPTO supplied IDS fillable form					
2	NPL Documents	SearchReport.pdf	615967	no	10
			ca8ee5dbd11da33ae48e50bb1c089cd b37dee9b5		
Warnings:					
Information:					
Total Files Size (in bytes):				703517	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/339,301

01/25/2006

Johann Tomas Sigurdsson

16113-094001/GP-770-00-US

7556

26192 7590 12/10/2007
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER

ENGELSKIRCHEN, JEREMY D

ART UNIT

PAPER NUMBER

4152

MAIL DATE

DELIVERY MODE

12/10/2007

PAPER

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

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

Office Action Summary	Application No. 11/339,301	Applicant(s) SIGURDSSON ET AL	
	Examiner Jeremy D. Engelskirchen	Art Unit 4152	

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 25 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 January 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>3/24/2006</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-24 are pending in this application.

Claim Rejections - 35 USC § 101

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

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

2. **Claims 16-24 are rejected under 35 USC § 101 because the claimed invention is directed to non-statutory subject matter.**

3. With respect to claim 16, a "system" is being recited; however, it appears that the system would be reasonably interpreted by one of ordinary skill in the art as software. The "table manager module", "data table", "interface", and "selection module" further define the claimed "system" as software as it appears that such an interface and modules would be reasonably interpreted as software, which implements the actions of the "system".

4. Claims 17-22 fail to resolve the deficiencies of claim 16 since it appears that the system would be reasonably interpreted as software.

5. With respect to claim 23, a "system" is being recited; however, it appears that the system would be reasonably interpreted by one of ordinary skill in the art as software. The "event listener", "extractor", and "means for transmitting" further define the claimed "system" as

software as it appears that such would be reasonably interpreted as software, which implements the actions of the "system" for sharing data.

6. With respect to claim 24, a "computer program" is being recited; however, it appears that the program would be reasonably interpreted by one of ordinary skill in the art as software. A program embodied in a "machine-readable information carrier" that claims "receiving an event", "automatically extracting", and "transmitting" further defines the program to be interpreted as software.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. **Claims 1-10, 12, 15, and 23-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Aboulhosen et al. (Pub. No. US 2004/0068524), hereinafter Aboulhosen.**

9. With respect to claim 1, Aboulhosen discloses "A method comprising: receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client ([0013], lines 24-26); automatically extracting content from the first file in response to the event using the first client and generating metadata to associate with the content ([0013], lines 27-29); and transmitting, using the first client, the content and the metadata to a peer client if the peer client and the first

client are currently operating and visible to each other on a network ([0015], lines 10-14), wherein the timing of the transmission is determined automatically after the event is received” ([0015], lines 23-26).

10. With respect to claim 2, Aboulhosn discloses "wherein the action that is unrelated to transmitting a file is a file access or a file save ([0013], lines 24-26), and the extracted content from the first file is a copy of the file or a copy of the contents of the file” ([0013], lines 24-26).

11. With respect to claim 3, Aboulhosn discloses “receiving from a server an indication that the server is configured to transmit the content to a requesting client ([0015], lines 16-18); and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server” ([0015], lines 4-6; [0017], lines 8-10).

12. With respect to claim 4, Aboulhosn discloses “receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client” ([0015], lines 21-23 and 30-33).

13. With respect to claim 5, Aboulhosn discloses “wherein the requirements include time stamp values or data bit values” ([0014], lines 5-7).

14. With respect to claim 6, Aboulhosn discloses “extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first

client and transmitting the additional content to the peer client based on one or more priority algorithms that specify an order in which the additional content is to be transmitted” ([0030], lines 4-6).

15. With respect to claim 7, Aboulhosn discloses “wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a server, the first client receiving an indication from the server that the server is configured to transmit the content and the metadata to the peer client” ([0015], lines 23-26).

16. With respect to claim 8, Aboulhosn discloses “wherein transmitting the content and metadata to a peer client includes transmitting the content and the metadata to a second client, the first client receiving an indication from the second client that the second client is configured to transmit the content and the metadata to the peer client” ([0027], lines 50-53).

17. With respect to claim 9, Aboulhosn discloses “indexing the content before it is transmitted to the peer client so that one or more symbols included in the content are formatted as keys operable to identify the content” ([0013], lines 11-12 and 17-18; [0021], lines 8-9).

18. With respect to claim 10, Aboulhosn discloses “extracting content from a second file independent of an event occurrence, indexing the content from the second file, and transmitting the indexed content to the peer client” ([0013], lines 24-29).

19. With respect to claim 12, Aboulhosn discloses “wherein extracting the content of the first file includes generating a copy of the first file that retains the first file's original file formatting” ([0014], lines 24-27).

20. With respect to claim 15, Aboulhosn discloses “transmitting a request to delete the content from the peer client if the content is deleted from the first client” ([0028], lines 3-6).

21. With respect to claim 23, Aboulhosn discloses “A system for sharing data across multiple clients comprising: an event listener at a first client to receive a user-initiated action associated with a file, wherein the action is unrelated to transmitting the file to a second client ([0013], lines 24-26); an extractor at the first client to extract content from the file in response to the event and to generate metadata that is associated with the context ([0013], lines 27-29); and means for transmitting the content and the metadata from a first client to a second client” ([0013], lines 24-27).

22. With respect to claim 24, Aboulhosn discloses “A computer program product tangibly embodied in a tangible, machine-readable information carrier, the computer program product including instructions that, when executed, perform a method comprising: receiving an event indicating an action associated with a first file has been performed by a user using a first client, wherein the action is unrelated to transmitting the first file to another client ([0013], lines 24-26); automatically extracting content from the first file in response to the event using the first client

and generating metadata to associate with the content ([0013], lines 27-29); and transmitting, using the first client, the content and the metadata to a peer client if the peer client and the first client are currently operating and visible to each other on a network ([0015], lines 10-14), wherein the timing of the transmission is determined automatically after the event is received” ([0015], lines 23-26).

23. Claims 16- 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Lev Ran et al. (Pub. No. US 2004/0255048), hereinafter Lev.

24. With respect to claim 16, Lev discloses “A computer system having one or more servers comprising: a table manager module to receive an indication from a first client that a user has performed an action on a file that is unrelated to a transfer of the file, the indication including content extracted from the file and a metadata value assigned to the content ([0025], lines 6-11); a data table to store the content extracted from the file on the first client and the metadata value ([0025], lines 5-6); an interface to receive from a second client a request for content that is associated with one or more metadata values within a specified metadata value range ([0025], lines 6-8); and a selection module to initiate transmission of the content to the second client if the metadata value associated with the content is within the specified metadata value range” ([0025], lines 9-10).

25. With respect to claim 17, Lev discloses “wherein the metadata value includes a time stamp that indicates when the action performed on the file occurred, and the metadata value

range includes a sequential range of time stamp values that indicate a period of time” ([0026], lines 1-4).

26. With respect to claim 18, Lev discloses “an active client list that includes identifiers for clients from which requests for content have been received by the interface within a predetermined period of time ([0388], lines 1-2; [0389]), the active client list being used by the table manager module to determine if the content has been transmitted to all listed active clients before the table manager module issues a delete command to remove the content from the data table” ([0260], line 1-4).

27. With respect to claim 19, Lev discloses “a space quota that includes a limit on an amount of storage space for received content ([253]), the space quota being used to trigger a deletion of at least a portion of the content from the data table when the quota is exceeded” ([0260], lines 1-4).

28. With respect to claim 20, Lev discloses “a list of source identifiers, one of which specifies the first client from which the content was received ([0221]; [0222]), the list of source identifiers being used to initiate a request for the content from the first client if the content has been deleted from the data table before the content is transmitted to the second client” ([0055], lines 1-6).

29. With respect to claim 21, Lev discloses “an authentication manager to transmit client identifiers for the first and second clients and a user identifier associated with the first and second clients to an external server for use in reconstructing the content if the content stored in the data table becomes inaccessible” ([0055], lines 1-6).

30. With respect to claim 22, Lev discloses “a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period, the throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold” ([216], lines 14-17).

Claim Rejections - 35 USC § 103

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

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

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

33. Claims 11, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aboulhoshn as applied to claim 1 above, and further in view of Lev Ran et al. (Pub. No. US 2004/0255048), hereinafter Lev.

34. With respect to claim 11, Aboulhoshn does not disclose “wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text”. However, Lev discloses “wherein extracting the content from the first file includes converting the content of the first file into hypertext markup language (HTML) or text” ([0036], lines 1-3).

35. It would have been obvious to a person having ordinary skill in the art at the time of invention to modify the invention of Aboulhoshn to convert the contents into markup language as taught by Lev to in order to convey the data resource (Lev, [0036], lines 3-8).

36. With respect to claim 13, Aboulhoshn does not disclose “increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.” However, Lev discloses “increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value” (Lev [216], lines 14-17).

37. It would have been obvious to a person having ordinary skill in the art at the time of invention to modify the invention of Aboulhosn to limit the amount of content passed between clients as taught by Lev to in order to reduce bandwidth consumption and quickly serve resources (Lev, [0024], lines 10-11).

38. With respect to claim 14, Aboulhosn does not disclose “associating an expiration date with the content before it is transmitted to the peer client”. However, Lev discloses “associating an expiration date with the content before it is transmitted to the peer client” (Lev [0066], lines 12-13).

39. It would have been obvious to a person having ordinary skill in the art at the time of invention to modify the invention of Aboulhosn to associate an expiration date with the transmitted content as taught by Lev in an effort to allow permission to perform specified operations during a specified length of time (Lev, [0028], lines 5-7).

Conclusion

40. The prior art made record and not relied upon is considered pertinent to applicant’s disclosure:

- a. Barron (Pub. No. US 2001/0042124)
- b. Satyanarayanan et al. (Patent No. US 6,662,198)
- c. Tripp et al. (Pub. No. US 2005/0015466)
- d. Dutta et al. (Patent No. US 6,636,854)

41. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMY D. ENGELSKIRCHEN whose telephone number is (571)270-1903. The examiner can normally be reached on M-F 7:30am-5:00pm.

42. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nabil El-Hady can be reached on (571) 272-3963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

JDE 12/06/2007

/Nabil El-Hady/
Supervisory Patent Examiner, Art Unit 4152

Notice of References Cited	Application/Control No. 11/339,301		Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL	
	Examiner Jeremy D. Engelskirchen		Art Unit 4152	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
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*	B	US-2004/0255048	12-2004	Lev Ran et al.	709/249
*	C	US-2001/0042124	11-2001	Barron, Robert H.	709/227
*	D	US-6,662,198	12-2003	Satyanarayanan et al.	707/204
*	E	US-2005/0015466	01-2005	Tripp, Gary W.	709/219
*	F	US-6,636,854	10-2003	Dutta et al.	707/10
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	H	US-			
	I	US-			
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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Search Notes 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner Jeremy D Engelskirchen	Art Unit 4152

SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor and Co-Inventors Search	11/29/2007	JDE
Searched Class 707/010 and class 707 in EAST with keywords	12/3/2007	JDE
Searched NPL	12/3/2007	JDE
Searched Google Patents with keywords	11/29/2007	JDE

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

<i>Index of Claims</i> 	Application/Control No. 11339301	Applicant(s)/Patent Under Reexamination SIGURDSSON ET AL
	Examiner JEREMY D ENGELSKIRCHEN	Art Unit 4152

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

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BIB DATA SHEET

CONFIRMATION NO. 7556

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/339,301	01/25/2006	707	4152 161	13-094001/GP-770-00-US
APPLICANTS Johann Tomas Sigurdsson, Montreal, CANADA; Stephen Lawrence, Palo Alto, CA; Xiyuan Xia, Sunnyvale, CA; Sergey Yudin, Fremont, CA;				
** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 03/14/2006				
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input type="checkbox"/> No Verified and /JEREMY D ENGELSKIRCHEN/ Acknowledged Examiner's Signature	<input type="checkbox"/> Met after Allowance Initials	STATE OR COUNTRY CANADA	SHEETS DRAWINGS 9	TOTAL CLAIMS 24
INDEPENDENT CLAIMS 4				
ADDRESS FISH & RICHARDSON P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022 UNITED STATES				
TITLE Multiple client search method and system				
FILING FEE RECEIVED 1530	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al.

Art Unit : Unknown

Serial No. : 11/339,301

Examiner : Unknown

Filed : January 25, 2006

Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL

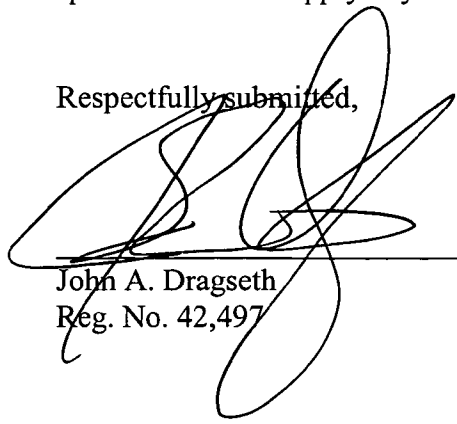
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John A. Dragseth
Reg. No. 42,497

Fish & Richardson P.C., P.A.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
(612) 335-5070 telephone
(612) 288-9696 facsimile

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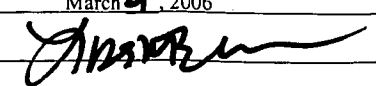
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Page 377



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al.
Serial No. : 11/339,301
Filed : January 25, 2006
Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Art Unit : Unknown
Examiner : Unknown

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
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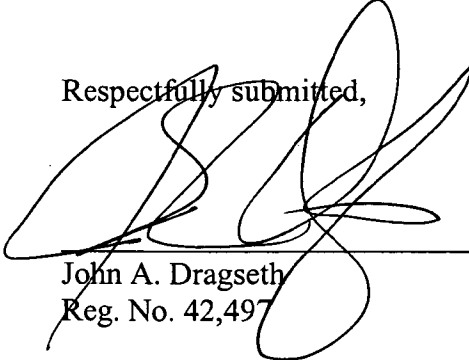
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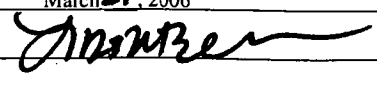

John A. Dragseth
Reg. No. 42,497

Fish & Richardson P.C., P.A.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

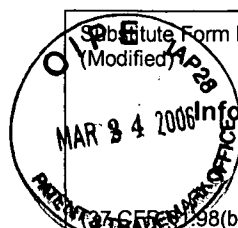
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U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AB							

Other Documents (include Author, Title, Date, and Place of Publication)

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	AL	'Yahoo Launches Desktop Seach' [online] [retrieved on 2006-2-10]. Retrieved from the Internet: URL:http://searchenginewatch.com/searchday/article.php/3457011 .
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Examiner Signature
Jeremy Engelskirchen/ (11/29/2007)

Date Considered
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EAST Search History

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S7	5	((SERGEY) near2 (YUDIN)).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2007/11/29 10:36
S8	1	((XIYUAN) near2 (XIA)). INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/11/29 10:36
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S67	32	S63 and copy and file	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 14:56
S68	16	S67 and metadata	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 14:56
S69	954	peer\$to\$peer and priority and sharing and downloading	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:00
S70	393	S69 and metadata	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:01
S71	145	S70 and schedule	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:01
S72	0	S71 and trasnmit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:01
S73	118	S71 and transmit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:01
S74	44	S73 and ((file adj access) or (file adj save))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:02

S75	44	S74 and client	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:02
S76	38	S75 and timing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:02
S77	32	S76 and peer adj client	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:02
S78	32	S77 and requirements	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:03
S79	32	S78 and ((time adj stamp) or (bit))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:03
S80	32	S79 and algorithm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:03
S81	32	S80 and html	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:04
S82	32	S81 and copy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:04

S83	32	S82 and (threshold or bandwidth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:04
S84	0	S83 and space adj quota	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:04
S85	0	S83 and quota	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:05
S86	32	S83 and limit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:05
S87	32	S86 and trigger	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:05
S88	32	S87 and deletion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:05
S89	0	S88 and authentication adj manager	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:05
S90	0	S88 and (authentication adj manager)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:06

S91	32	S88 and (authentication or identifier)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:06
S92	32	S91 and listener	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:06
S93	0	S92 and event adj listener	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 15:06
S94	2	"20050015466".did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 16:23
S95	2	"5748954".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 17:11
S96	2	"5897639".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 17:11
S97	20871	peer\$to\$peer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:04
S98	1473	S97 and time\$stamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:04

S99	814	S98 and priority	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:05
S100	366	S99 and threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:05
S101	234	S100 and copy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:05
S102	5	S101 and peer adj client	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:05
S103	2	"6938042".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:11
S104	2	"6636854".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:11
S105	2	"20040068524".did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/03 18:13
S106	2	"6662198".did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/05 09:24

S107	2	"7016942".did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/05 10:16
S108	2	"6996584".did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/05 10:17
S109	2	"7170999 ".did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/05 10:22
S110	2	"20030108205 ".did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/05 10:24
S111	2	"20010042124 ".did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/12/05 10:24

12/ 7/ 2007 10:52:14 AM

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APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US

CONFIRMATION NO. 7556

26192
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN55440-1022

Title: Multiple client search method and system

Publication No. US-2007-0174246-A1

Publication Date: 07/26/2007

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Pre-Grant Publication Division, 703-605-4283



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US

CONFIRMATION NO. 7556

26192
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN55440-1022

Date Mailed. 03/15/2007

NOTICE OF NEW OR REVISED PROJECTED PUBLICATION DATE

The above-identified application has a new or revised projected publication date. The current projected publication date for this application is 07/26/2007. If this is a new projected publication date (there was no previous projected publication date), the application has been cleared by Licensing & Review or a secrecy order has been rescinded and the application is now in the publication queue.

If this is a revised projected publication date (one that is different from a previously communicated projected publication date), the publication date has been revised due to processing delays in the USPTO or the abandonment and subsequent revival of an application. The application is anticipated to be published on a date that is more than six weeks different from the originally-projected publication date.

More detailed publication information is available through the private side of Patent Application Information Retrieval (PAIR) System. The direct link to access PAIR is currently <http://pair.uspto.gov>. Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at (703) 305-3028.

Questions relating to this Notice should be directed to the Office of Patent Publication at (571) 272-4200.

PART 1 - ATTORNEY/APPLICANT COPY



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US CONFIRMATION NO. 7556

26192
FISH & RICHARDSON P.C.
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

Date Mailed: 03/08/2007

Communication Regarding Rescission Of Nonpublication Request and/or Notice of Foreign Filing

Applicant's rescission of the previously-filed nonpublication request and/or notice of foreign filing is acknowledged. The paper has been reflected in the Patent and Trademark Office's (USPTO's) computer records so that the earliest possible projected publication date can be assigned.

The projected publication date is 07/26/2007.

If applicant rescinded the nonpublication request before or on the date of "foreign filing,"¹ then no notice of foreign filing is required.

If applicant foreign filed the application after filing the above application and before filing the rescission, and the rescission did not also include a notice of foreign filing, then a notice of foreign filing (not merely a rescission) is required to be filed within 45 days of the date of foreign filing. See 35 U.S.C. § 122(b)(2)(B)(iii), and Clarification of the United States Patent and Trademark Office's Interpretation of the Provisions of 35 U.S.C. § 122(b)(2)(B)(ii)-(iv), 1272 Off. Gaz. Pat. Office 22 (July 1, 2003).

If a notice of foreign filing is required and is not filed within 45 days of the date of foreign filing, then the application becomes abandoned pursuant to 35 U.S.C. § 122(b)(2)(B)(iii). In this situation, applicant should either file a petition to revive or notify the Office that the application is abandoned. See 37 CFR 1.137(f). Any such petition to revive will be forwarded to the Office of Petitions for a decision. Note that the filing of the petition will not operate to stay any period of reply that may be running against the application.

Questions regarding petitions to revive should be directed to the Office of Petitions at (571) 272-3282. Questions regarding publications of patent applications should be directed to the patent application publication hotline at (703) 605-4283 or by e-mail pgpub@uspto.gov.

¹ Note, for purpose of this notice, that "foreign filing" means "filing an application directed to the same invention in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing".

RESCISSION OF PREVIOUS NONPUBLICATION REQUEST

(35 U.S.C. 122(b)(2)(B)(ii))
AND, IF APPLICABLE,
NOTICE OF FOREIGN FILING
 (35 U.S.C. 122(b)(2)(B)(iii))

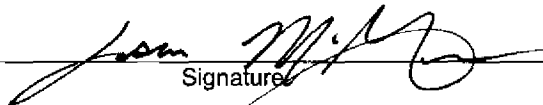
Send completed form to:
Mail Stop PG Pub
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450
 FAX: (571) 273-8300

Application Number	11/339,301
Filing Date	January 25, 2006
First Named Inventor	Sigurdsson et al.
Title	Multiple Client Search Method and System
Atty Docket Number	16113-094001
Art Unit	2161
Examiner	

A request that the above-identified application not be published under 35 U.S.C. 122(b) (nonpublication request) was included with the above-identified application on filing pursuant to 35 U.S.C. 122(b)(2)(B)(i). I hereby **rescind** the previous nonpublication request.

If a notice of foreign or international filing is or will be required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c), I hereby provide such notice. This notice is being provided no later than forty-five (45) days after the date of such foreign or international filing.

If a notice of subsequent foreign or international filing required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c) was not filed within forty-five (45) days after the date of filing of the foreign or international application, the application is ABANDONED, and a petition to revive under 37 CFR 1.137(b) is required. See 37 CFR 1.137(f).


 Signature

Joshua J. McGuire

3/5/07
 Date

58,599

Typed or printed name

Registration Number, if applicable

(612) 337-5070

Telephone Number

This request must be signed in compliance with 37 CFR 1.33(b).

If information or assistance is needed in completing this form, please contact the Pre-Grant Publication Division at (703) 605-4283 or by e-mail at PGPub@USPTO.gov.

Electronic Acknowledgement Receipt

EFS ID:	1563562
Application Number:	11339301
International Application Number:	
Confirmation Number:	7556
Title of Invention:	Multiple client search method and system
First Named Inventor/Applicant Name:	Johann Tomas Sigurdsson
Customer Number:	26192
Filer:	Joshua J. McGuire/Tammera Shinn
Filer Authorized By:	Joshua J. McGuire
Attorney Docket Number:	16113-094001/GP-770-00-US
Receipt Date:	05-MAR-2007
Filing Date:	25-JAN-2006
Time Stamp:	13:42:09
Application Type:	Utility

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
1	Rescind Nonpublication Request for Pre Grant Pub	16113094001Rescissionrqt.pdf	15062	no	1

Warnings:

Information:	
Total Files Size (in bytes):	15062
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US

CONFIRMATION NO. 7556

FORMALITIES
LETTER

26192

FISH & RICHARDSON P.C.

PO BOX 1022

MINNEAPOLIS, MN 55440-1022

04/05/2006 CNEGA1 00000015 11339301

01 FC:1011

300.00 OF

02 FC:1051

130.00 OF

03 FC:1111

300.00 OF

04 FC:1311

200.00 OF

05 FC:1201

200.00 OF

06 FC:1202

200.00 OF

Date Mailed: 03/16/2006

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$ 300 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).
- The oath or declaration is missing. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of \$400 as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

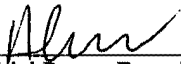
SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$1530 for a Large Entity

- \$300 Statutory basic filing fee.
- \$130 Surcharge.
- The application search fee has not been paid. Applicant must submit \$500 to complete the search fee.
- The application examination fee has not been paid. Applicant must submit \$200 to complete the examination fee for a large entity
- Total additional claim fee(s) for this application is \$400
 - \$200 for 1 independent claims over 3.
 - \$200 for 4 total claims over 20.

Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*


Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382
PART 2 - COPY TO BE RETURNED WITH RESPONSE



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al.

Serial No. : 11/339,301

Filed : January 25, 2006

Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Art Unit : 2161

Examiner : Unknown

MAIL STOP MISSING PARTS

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION

In response to the Notice to File Missing Parts of Application under 37 CFR §1.53(b) mailed March 16, 2006 (copy enclosed), applicant as a large entity submits herewith the following:

- ☒ Payment of the basic filing fee of \$300;
- ☒ Payment of the search fee of \$500;
- ☒ Payment of the examination fee of \$200;
- ☒ Payment of the additional/multiple dependent claims fees of \$400;
- ☒ Payment of the surcharge of \$130 for late filing of the basic filing fee and/or declaration;
- ☒ A Combined Declaration and Power of Attorney in compliance with 37 CFR §1.63;
- ☒ A check in the total amount of \$1530 is attached;

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit

March 30, 2006

Signature

Tammera A. Shinn

Typed or Printed Name of Person Signing Certificate

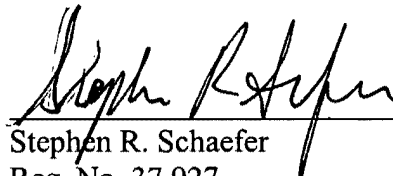
Applicant : Sigurdsson et al.
Serial No. : 11/339,301
Filed : January 25, 2006
Page : 2 of 2

Attorney's Docket No.: 16113-094001 / GP-770-00-US

It is understood that this perfects the application and no additional papers or filing fees are required. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: March 30, 2006



Stephen R. Schaefer
Reg. No. 37,927

Fish & Richardson P.C., P.A.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

60348588.doc



Attorney's Docket No.: 16113-094001
Client's Ref. No.: GP-770-00-US

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

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

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

- ☐ is attached hereto.
☒ was filed on January 25, 2006 as Application Serial No. 11/339,301 and was amended on _____
☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

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

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e)(1) of any United States provisional application(s) listed below:

U.S. Serial No.	Filing Date	Status
None		

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information I know to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Serial No.	Filing Date	Status
None		

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Country	Application No.	Filing Date	Priority Claimed
None			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No

Combined Declaration and Power of Attorney

Page 2 of 3 Pages

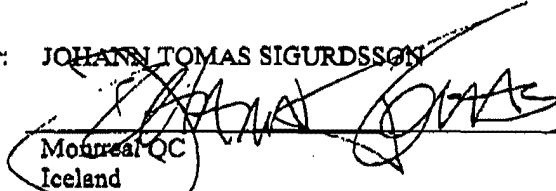
Direct all telephone calls to JOHN A. DRAGSETH at telephone number (612) 335-5070.

I hereby appoint all registered practitioners associated with Customer Number 26192 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to:

Customer Number 26192

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

Full Name of Inventor: JOHANN TOMAS SIGURDSSON

Inventor's Signature: 

Date: 28 MARCH 2006

Residence Address: Montreal QC

Citizenship: Iceland

Post Office Address: 381 Grosvenor Ave

Montreal QC H3Z 2M3

Canada

Full Name of Inventor: STEPHEN LAWRENCE

Inventor's Signature: 

Date: 3/28/06

Residence Address: Palo Alto, CA

Citizenship: Australia

Post Office Address: 3193 South Court

Palo Alto, CA 94306

Full Name of Inventor: XIYUAN XIA

Inventor's Signature: 

Date: 3/28/2006

Residence Address: Sunnyvale, CA

Citizenship: United States

Post Office Address: 1575 Tenaka PL. #K8

Sunnyvale, CA 94087

Combined Declaration and Power of Attorney
Page 3 of 3 Pages

Full Name of Inventor: SERGEY YUDIN

Inventor's Signature: _____

Date: 5/28/2006

Residence Address: Fremont, CA

Citizenship: United States

Post Office Address: 4317 Gibraltar Drive
Fremont, CA 94536

60348524.doc



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US

CONFIRMATION NO. 7556

FORMALITIES
LETTER

26192

FISH & RICHARDSON P.C.

PO BOX 1022

MINNEAPOLIS, MN 55440-1022

04/05/2006 CNEGA1 00000015 11339301

01 FC:1011

300.00 OF

02 FC:1051

130.00 OF

03 FC:1111

300.00 OF

04 FC:1311

200.00 OF

05 FC:1201

200.00 OF

06 FC:1202

200.00 OF

Date Mailed: 03/16/2006

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted***Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.

Applicant must submit \$ 300 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).

- The oath or declaration is missing. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.

Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of \$400 as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

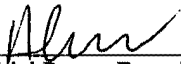
SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$1530 for a Large Entity

- \$300 Statutory basic filing fee.
- \$130 Surcharge.
- The application search fee has not been paid. Applicant must submit \$500 to complete the search fee.
- The application examination fee has not been paid. Applicant must submit \$200 to complete the examination fee for a large entity
- Total additional claim fee(s) for this application is \$400
 - \$200 for 1 independent claims over 3.
 - \$200 for 4 total claims over 20.

Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*


Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382
PART 2 - COPY TO BE RETURNED WITH RESPONSE



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al.

Serial No. : 11/339,301

Filed : January 25, 2006

Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Art Unit : 2161

Examiner : Unknown

MAIL STOP MISSING PARTS

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION

In response to the Notice to File Missing Parts of Application under 37 CFR §1.53(b) mailed March 16, 2006 (copy enclosed), applicant as a large entity submits herewith the following:

- ☒ Payment of the basic filing fee of \$300;
- ☒ Payment of the search fee of \$500;
- ☒ Payment of the examination fee of \$200;
- ☒ Payment of the additional/multiple dependent claims fees of \$400;
- ☒ Payment of the surcharge of \$130 for late filing of the basic filing fee and/or declaration;
- ☒ A Combined Declaration and Power of Attorney in compliance with 37 CFR §1.63;
- ☒ A check in the total amount of \$1530 is attached;

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit

March 30, 2006

Signature

Tammera A. Shinn

Typed or Printed Name of Person Signing Certificate

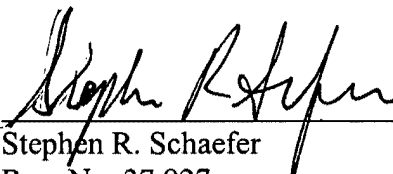
Applicant : Sigurdsson et al.
Serial No. : 11/339,301
Filed : January 25, 2006
Page : 2 of 2

Attorney's Docket No.: 16113-094001 / GP-770-00-US

It is understood that this perfects the application and no additional papers or filing fees are required. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: March 30, 2006



Stephen R. Schaefer
Reg. No. 37,927

Fish & Richardson P.C., P.A.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

60348588.doc



IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al.

Art Unit : Unknown

Serial No. : 11/339,301

Examiner : Unknown

Filed : January 25, 2006

Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (1 page);
3. Copies of Cited References (13 references); and
4. A Return Postcard.

Please date stamp and return the enclosed postcard. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

John A. Dragseth
Reg. No. 42,497

Date: 3-21-06

Fish & Richardson P.C., P.A.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
(612) 335-5070 telephone
(612) 288-9696 facsimile

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

March 21, 2006

Date of Deposit

Signature

Lisa M. Becker

Typed or Printed Name of Person Signing Certificate

Box & Dropbox Exhibit 1017



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sigurdsson et al.
Serial No. : 11/339,301
Filed : January 25, 2006
Title : MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Art Unit : Unknown
Examiner : Unknown

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

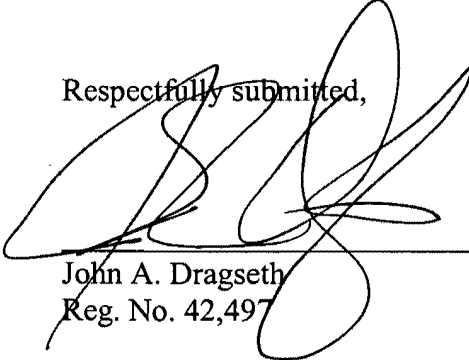
INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 3-21-06



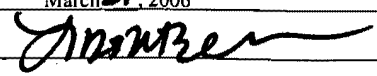
John A. Dragseth
Reg. No. 42,497

Fish & Richardson P.C., P.A.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

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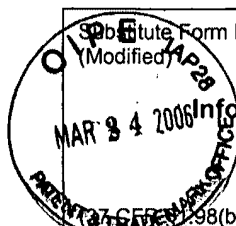
CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

March 21, 2006
Date of Deposit
Signature 

Lisa M. Becker
Typed or Printed Name of Person Signing Certificate

Box & Dropbox Exhibit 1017

	Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16113-094001	Application No. 11/339,301
	Information Disclosure Statement by Applicant (Use several sheets if necessary)			Applicant Sigurdsson et al.
				Filing Date January 25, 2006

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AB							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AC	'Welcome to the world of "on demand" information using Desktop Sidebar!' [online]. Desktop Sidebar, 2006, [retrieved on 2006-1-23]. Retrieved from the Internet: URL:www.desktopsidebar.com/htmlhelp/overview.html .
	AD	'Microsoft Acquires FolderShare, a File-Synchronization Technology Provider' [online]. Microsoft, 2005, [retrieved on 2006-2-10]. Retrieved from the Internet: <URL: mspx">www.microsoft.com/presspass/press/2005/nov05/11-03FolderSharePR>mspx >.
	AE	'Foldershare - Automatic Folder Synchronization' [online]. Google, [retrieved on 2006-2-10]. Retrieved from the Internet: www.usrbingeek.com/a/000716.php .
	AF	'Foldershare™ your files anywhere' [online]. Foldershare, 2005, [retrieved on 2006-2-10]. Retrieved from the Internet: <URL: ">www.foldershare.com/info/hotItWorks.php?> .
	AG	'Om Malik's Blog About the next generation internet' [online]. 2005, [retrieved on 2006-2-10]. Retrieved from the Internet: URL:http://gigaom.com/2005/11/03/microsoft-buys-foldershare-will-mac-client-be-roadkill/...
	AH	'Unison File Synchronizer' [online] [retrieved on 2006-2-10]. Retrieved from the Internet: URL:www.cis.upenn.edu/~bcpierce/nison/faq.html .
	AI	'Benjamin Pierce's Papers, Books, and Software' [online] [retrieved on 2006-2-10]. Retrieved from the Internet: URL:www.cis.upenn.edu/%7Ebcpc/papers/index.shtml .
	AJ	'Backing up Data with Yahoo Briefcase'. [online] [retrieved on 2006-2-10]. Retrieved from the Internet: URL:http://helpdesk.dlsu.edu.ph/tipstools/back_up/files/yahoo_briefcase.asp .
	AK	'Using Yahoo Briefcase to quickly share files and images' [online] [retrieved on 2006-2-10]. Retrieved from the Internet: URL:www.proz.com/translation-articles/articles/136/1/Using-Yahoo-Briefcase-to-quickly...
	AL	'Yahoo Launches Desktop Seach' [online] [retrieved on 2006-2-10]. Retrieved from the Internet: URL:http://searchenginewatch.com/searchday/article.php/3457011 .
	AM	'Yahoo! Briefcase How do I share files?' [online]. Yahoo, [retrieved on 2006-2-10]. Retrieved from the Internet: URL:http://help.yahoo.com/help/us/bc/bc-10.html .
	AN	'Yahoo! Briefcase What is Yahoo! Briefcase?' [online]. Yahoo, [retrieved on 2006-2-10]. Retrieved from the Internet: URL:http://help.yahoo.com/help/us/bc/bc-01.html .
	AO	'Yahoo! Briefcase How do I access my Briefcase?' [online]. Yahoo, [retrieved on 2006-2-10]. Retrieved from the Internet: URL:http://help.yahoo.com/help/us/bc/bc-02.html .

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/339,301	01/25/2006	Johann Tomas Sigurdsson	16113-094001/GP-770-00-US

CONFIRMATION NO. 7556

FORMALITIES
 LETTER

26192
 FISH & RICHARDSON P.C.
 PO BOX 1022
 MINNEAPOLIS, MN 55440-1022

Date Mailed: 03/16/2006

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted***Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$ 300 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).
- The oath or declaration is missing. *A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of **\$400** as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

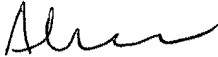
SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is **\$1530** for a Large Entity

- **\$300** Statutory basic filing fee.
- **\$130** Surcharge.
- The application search fee has not been paid. Applicant must submit **\$500** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit **\$200** to complete the examination fee for a large entity
- Total additional claim fee(s) for this application is **\$400**
 - **\$200** for 1 independent claims over 3.
 - **\$200** for 4 total claims over 20.

Replies should be mailed to: Mail Stop Missing Parts
 Commissioner for Patents
 P.O. Box 1450
 Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*



Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382
PART 3 - OFFICE COPY

FISH & RICHARDSON P.C.,P.A.

3300 Dain Rauscher Plaza
60 South Sixth Street
Minneapolis, Minnesota
55402

Telephone
612 335-5070

Facsimile
612 288-9696

Web Site
www.fr.com



Frederick P. Fish
1855-1930

W.K. Richardson
1859-1951

January 25, 2006

Attorney Docket No.: 16113-094001/GP-770-00-US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Presented for filing is a new original patent application of:

Applicant: JOHANN TOMAS SIGURDSSON, STEPHEN LAWRENCE, XIYUAN
XIA AND SERGEY YUDIN

Title: MULTIPLE CLIENT SEARCH METHOD AND SYSTEM

Enclosed are the following papers, including those required to receive a filing date
under 37 C.F.R. § 1.53(b):

	<u>Pages</u>
Specification	27
Claims	5
Abstract	1
Declaration	[To be Filed at a Later Date]
Drawing(s)	9
Application Cover Sheet	1

Enclosures:

- Postcard.
- Request for Non-Publication (1 page)

Under 37 C.F.R. §1.53(f), no filing fee is being paid at this time.

If this application is found to be incomplete, or if a telephone conference would
otherwise be helpful, please call the undersigned at (612) 335-5070.

Kindly acknowledge receipt of this application by returning the enclosed postcard.

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV467331685US

January 25, 2006
Date of Deposit



ATLANTA

AUSTIN

BOSTON

DALLAS

DELAWARE

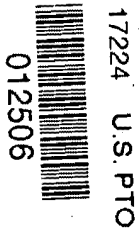
NEW YORK

SAN DIEGO

SILICON VALLEY

TWIN CITIES

WASHINGTON, DC



FISH & RICHARDSON P.C., P.A.

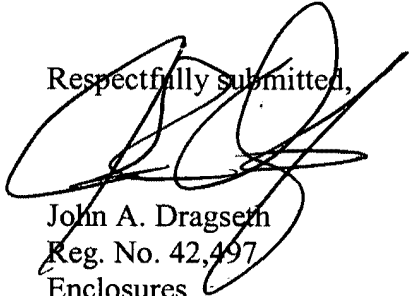
Commissioner for Patents
January 25, 2006
Page 2

Please direct all correspondence to the following:

26192

PTO Customer Number

Respectfully submitted,



John A. Dragseth
Reg. No. 42,497
Enclosures
JAD/tas
60336766.doc

APPLICATION
FOR
UNITED STATES LETTERS PATENT

TITLE: MULTIPLE CLIENT SEARCH METHOD AND SYSTEM
APPLICANT: JOHANN TOMAS SIGURDSSON, STEPHEN LAWRENCE,
XIYUAN XIA AND SERGEY YUDIN

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV467331685US

January 25, 2006
Date of Deposit

Multiple Client Search Method and System

TECHNICAL FIELD

[0001] This document relates to a sharing and search method and system.

BACKGROUND

[0002] As the amount of information that is digitally stored increases, it becomes more
5 difficult and complex for users to locate their digital information when they want it. Additionally, users want to have access to their digital information whether they are on their home computer, using a laptop at work, or on the road with a wireless personal digital assistant.

[0003] Some current systems permit a user to move files to a synchronization folder,
10 which can be used to transfer files between two or more clients. These systems, however, may require explicit user action for this synchronization to take place. In this case, even if a user has recently accessed a file, it will not be synchronized unless the user moves it to the synchronization folder. Additionally, when the file is synchronized with an external client, the file may be difficult to locate on the external client. In some cases, the file may
15 be located with several other files in a synchronization folder on the external client. Navigating on the external client to the transferred file may be difficult for a user even if the user can remember where the synchronization folder is located.

SUMMARY

[0004] This document discloses methods and systems that assist users of computing
20 devices in entering to share and find data across those devices.

[0005] In one aspect, a method is described. The method includes receiving an event indicating an action associated with a first file has been performed by a user using a first client. The action is unrelated to transmitting the first file to another client. The method also includes automatically extracting content from the first file in response to the event
25 using the first client and generating metadata to associate with the content, and transmitting, using the first client, the content and the metadata to a peer client if the peer

client and the first client are currently operating and visible to each other on a network. The timing of the transmission is determined automatically after the event is received.

[0006] In one example, the action that is unrelated to transmitting a file can be a file access or a file save, and the extracted content from the first file can be a copy of the file or a copy of the contents of the file. The method can also include, receiving from a server an indication that the server is configured to transmit the content to a requesting client; and having received the indication and if the peer client is not currently networked to the first client, transmitting the content and the metadata to the server. In some implementations, the method further includes receiving requirements from a server, locating the metadata that meets the requirements, and selecting the content associated with the metadata for transmission to the peer client. The requirements can include time stamp values or data bit values. Additionally, the method can include extracting additional content from a plurality of files using the first client in response to a plurality of events occurring on the first client and transmitting the additional content to the peer client based on one or more priority algorithms that specify an order in which the additional content is to be transmitted.

[0007] In another example, transmitting the content and metadata to a peer client can include transmitting the content and the metadata to a server, the first client receiving an indication from the server that the server is configured to transmit the content and the metadata to the peer client. Transmitting the content and metadata to a peer client can include transmitting the content and the metadata to a second client. The first client receiving an indication from the second client that the second client is configured to transmit the content and the metadata to the peer client. The method can further include indexing the content before it is transmitted to the peer client so that one or more symbols included in the content are formatted as keys operable to identify the content, and extracting content from a second file independent of an event occurrence, indexing the content from the second file, and transmitting the indexed content to the peer client.

[0008] In yet another example, extracting the content from the first file can include converting the content of the first file into hypertext markup language (HTML) or text. Additionally, extracting the content of the first file may include generating a copy of the first file that retains the first file's original file formatting. The method may also include

increasing a throughput threshold for limiting an amount of content passed between the first client and the peer client if an indication is received at the first client that a network connection between the first client and the peer client has a bandwidth that exceeds a predetermined bandwidth value. In some implementations, the method includes
5 associating an expiration date with the content before it is transmitted to the peer client. In other implementations, the method includes transmitting a request to delete the content from the peer client if the content is deleted from the first client.

[0009] In a second aspect, a computer system having one or more servers is described. The system includes a table manager module to receive an indication from a first client
10 that a user has performed an action on a file that is unrelated to a transfer of the file. The indication including content extracted from the file and a metadata value assigned to the content. The system also includes a data table to store the content extracted from the file on the first client and the metadata value, an interface to receive from a second client a request for content that is associated with one or more metadata values within a specified
15 metadata value range, and a selection module to initiate transmission of the content to the second client if the metadata value associated with the content is within the specified metadata value range.

[0010] In one example, the metadata value can include a time stamp that indicates when the action performed on the file occurred, and the metadata value range includes a
20 sequential range of time stamp values that indicate a period of time. The system can also include an active client list that includes identifiers for clients from which requests for content have been received by the interface within a predetermined period of time. The active client list being used by the table manager module to determine if the content has been transmitted to all listed active clients before the table manager module issues a
25 delete command to remove the content from the data table. The system can include a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a deletion of at least a portion of the content from the data table when the quota is exceeded.

[0011] In another example, the system can include a list of source identifiers, one of
30 which specifies the first client from which the content was received, the list of source identifiers being used to initiate a request for the content from the first client if the

content has been deleted from the data table before the content is transmitted to the second client. The system can include an authentication manager to transmit client identifiers for the first and second clients and a user identifier associated with the first and second clients to an external server for use in reconstructing the content if the content stored in the data table becomes inaccessible.

[0012] In some implementations, the system can include a throughput threshold that includes a limit on an amount of data that is received by the interface within a predetermined time period. The throughput threshold being used by the interface to refuse the receipt of additional content if the amount of data received exceeds the threshold.

[0013] In another aspect, a system for sharing data across multiple clients is described. The system includes an event listener at a first client to receive a user-initiated action associated with a file. The action is unrelated to transmitting the file to a second client. The system also includes an extractor at the first client to extract content from the file in response to the event and to generate metadata that is associated with the context, and means for transmitting the content and the metadata from a first client to a second client.

[0014] The systems and techniques described here may provide one or more of the following advantages. A system may increase the convenience of exchanging accessed files between multiple computers. Also, a system may increase a user's ability to locate exchanged content. A system can provide a mechanism that enables optimistic deletion of data transmitted by clients. Such a system may reduce the need for storing back-up copies of the data on servers. A system can increase the relevance of the data exchanged between clients by prioritizing the transmission of certain types of data.

[0015] The details of one or more embodiments are set forth in the accompanying drawings and the description below. Other features, aspects, and advantages of the described embodiments will be apparent from the description and drawings, and from the claims.

DESCRIPTION OF DRAWINGS

[0016] FIG. 1 is a schematic diagram showing a system for sharing and synchronizing content across multiple client devices.

[0017] FIG. 2 is a sequence diagram showing an illustrative method for sharing and synchronizing content across multiple client devices according to the implementation shown in FIG. 1.

[0018] FIG. 3 is a block diagram showing the system in FIG. 1 in more detail.

5 [0019] FIG. 4 is a schematic showing a system for sharing and synchronizing content using a mixed peer-to-peer and client/server architecture.

[0020] FIG. 5 is a sequence diagram showing an illustrative method for sharing and synchronizing content using the mixed peer-to-peer and server architecture of FIG. 4.

10 [0021] FIG. 6 is another sequence diagram showing an illustrative method for sharing and synchronizing content using a mixed peer-to-peer and server architecture of FIG. 4 when a client that is offline comes online.

[0022] FIG. 7 is a block diagram showing particular components of the system shown in FIG. 4 in more detail.

15 [0023] FIG. 8 is a flow chart showing an illustrative method for sharing and synchronizing content across multiple client devices according to the implementation shown in FIG. 4.

[0024] FIG. 9 is a schematic showing a general computer system.

[0025] Like reference symbols in the various drawings indicate like elements.

DETAILED DESCRIPTION

20 [0026] FIG. 1 is a schematic diagram showing a system 100 for sharing and synchronizing content across multiple client devices. The system 100 can permit a user using a second computer device to access copies of files (or copies of the content of the files) that were resident on a first computer device. Exchange of content between the computer devices can occur automatically without a user specifying that the content
25 should be sent to another computer device. For example, a user may edit a word document file at his home computer. When the user saves the document, the document's content is automatically extracted and transmitted to the user's computer at work. When the user searches for the modified document later at his work computer, the content is presented to the user even though the word document was not previously stored on the
30 user's work computer. This can have the additional advantage that only documents that are recently accessed by the user are transferred between the user's various computers.

[0027] The system 100 includes a Client A 102, a Client B 104, and a Server 106. The Client A 102 and the Client B 104 represent computers which a user may employ to manage digital information, for example by saving or opening files, or accessing web pages. A user may access many computers including, for example, computers at home, computers at work, and mobile computers, such as personal digital assistants (PDAs) and cell phones. The Server 106 can provide a temporary storage location, or “drop box”, for a user’s files, documents, web pages, or the contents of these documents. The drop-box can facilitate sharing this information between the user’s computers by storing the shared content if the target computer is offline. Later, when the target computer comes online, the Server 106 may transmit the content to the target computer.

[0028] In one implementation, when a user at the Client A 102 performs a file save or an open operation, Client A Content 108 is extracted from the file and is sent to the Server 106, as indicated by arrow 110. For example, the user may save a text file on his home computer. The Client A Content 108, which can include a copy of the user’s file, is sent automatically to the Server 106. Similarly, when the user employs the Client B 104 to save or open a file stored on the Client B 104, Client B Content 112 is extracted from the file stored on the Client B 104 and is sent to the Server 106, as indicated by arrow 114. For example, the Client B 104 may be the user’s work computer. Because content from the Client A 102 (e.g., the user’s home computer) has been transferred to the user’s work computer, the user has access to files not previously resident on his work computer. Similarly, the user’s home computer now has files previously resident only on the user’s work computer. In the implementation shown in FIG. 1, the Server 106 serves as a conduit for sharing file content across the user’s work and home computers.

[0029] In another example, the Clients A 102 and B 104 may exchange web viewing history. The user may view a website using a web browser installed on the Client B 104 (e.g., the user’s work computer). When the web page is accessed, the access may trigger an extraction of the content of the web page, such as a copy of the HTML code. The extracted information can then be transmitted from the Client B 104 to the Server 106. The Client B Content 112 can remain at the Server 106 until the Client A 102 contacts the Server 106 for updates. After the Client A 102 connects to the Server 106, the Server

106 may transmit the content of the web page to the Client A 102 (e.g., the user's home computer).

[0030] Later, the user may use a search application, such as the Google™ Desktop search application, to locate the content of the web page. For example, the user may enter text he remembered from the website he viewed at work, such as "Google Expands Its Desktop Role!" The search tool can use this text to locate the web page content that was transmitted from the user's work machine.

[0031] The Server 106 can facilitate synchronization of content among the user's computers. When the Client A 102 (e.g., the user's home computer) connects to the Server 106, Client B Content 112 originating from the Client B 104 is automatically copied to the Client A 102, as indicated by arrow 116. In some implementations, copying occurs for the Client B Content 112 not already stored on the Client A 102. Similarly, whenever the Client B 104 (e.g., the user's work computer) connects to the Server 106, any missing Client A Content 108 is copied automatically to the Client B 104, as indicated by arrow 118.

[0032] FIG. 2 is a sequence diagram showing an illustrative method 200 for sharing and synchronizing content across multiple client devices according to the implementation shown in FIG. 1. Processing can start in step 202 when an event occurs. The event may signal that an action has occurred, such as the user saving a file or document, accessing a web page, or opening a file. For example, referring to FIG. 1, a user at the Client A 102 may edit and save his resume on his home computer. This action may generate an event that is detected by an event listener.

[0033] In step 204, an index is updated with content. For example, after the event triggered by an action is detected, the content from the file associated with the action can be extracted. The extracted content can be the text or images included in the file that was saved, accessed or modified. In some implementations, the extraction can include format conversion. For example, an extractor may convert the text of a file in PDF format to plain text or text in an HTML (hypertext markup language) format. The extracted content can then be used to update the index that links, or associates, the content with metadata or key words from the content. In some implementations, the metadata is a time stamp that specifies when the action is detected. For example, the time stamp can reflect the time

that a file was saved, and the extractor may link this time to the content that was extracted when the file was saved. In some implementations, the index is generated using an indexer included in the Google™ Desktop search application. This search application may use the index to locate content on a user's computer.

5 **[0034]** In step 206, the content extracted by the client is posted to the server. The content is information to be shared on the user's other computers. For example, the extracted content can be the Client A Content 108 that the Client A transmits to the Server 106.

The Client A Content 108 may be a text version of the resume the user saved on his home computer. The resume text is sent to the Server 106. Additionally, metadata describing
10 the content, such as the time the resume was saved, can also be transmitted to the Server 106. In step 208, the content received from the originating client is stored on the server.

[0035] In step 210, tables maintained at the server are updated to indicate receipt of the content. For example, in FIG. 1, the Server 106 updates database tables with the Client A Content 108 and any corresponding metadata describing the Content 108 it received from
15 the Client A 102. Step 210 can complete the process for facilitating temporary storage of content to be shared with other clients.

[0036] Step 202 through step 210 can be performed to provide temporary storage of content originating from any client. For example, referring to FIG. 1, step 202 through step 210 can be performed with respect to the Client B Content 112 on the Client B 104
20 and the transmission of this content to the Server 106.

[0037] In step 212, the second client polls for updates, representing content generated at other clients. For example, referring to FIG. 1, the Client B 104 can poll the Server 106 for new content. Here, the new content can be the Client A Content 108 (e.g., the resume text) stored on the Server 106 but not yet received by the Client B 104.

25 **[0038]** In step 214, the polling request is received by the server. For example, in Fig. 1, the Server 106 can receive polling requests from the Client B 104.

[0039] In step 216, the server indicates to the polling client that content updates are available. For example, in FIG. 1, the Server 106 informs the Client B 104 that the resume text has not been downloaded by the Client B 104 yet. The Server 106 bases this
30 knowledge on time stamps stored in tables. The time stamps correspond to content (e.g., resume text) received earlier by the Server 106 from the Client A 102. The Server 106

compares the time stamps, which can specify when the content was transmitted to the Server 106, to the time range corresponding to the period of time that the Client B 104 has not received new content from the Server 106. In other words, the Server can determine if new content has been generated by another client since the Client B last checked. If the Server 106 finds time stamps in its table within the specified time range, then the Server B 106 can inform the Client B 104 that it has new content.

[0040] In step 218, the client requests the updated content that it needs. For example, in FIG. 1, the Client B 104 sends a request to the Server 106 for the missing Client A Content 108. The request may be based on a time range as discussed above.

[0041] In step 220, the server sends the updated content corresponding to the time range requested by the server. For example, in FIG. 1, the Server 206 sends the Client A Content 108 to the Client B 104, where the content from the Client A was generated during the time range specified by the client B.

[0042] In step 222, the client stores the content locally. For example, in FIG. 1, the Client B 104 stores the Client A Content 108 on a local storage device, such as a hard drive in a personal computer.

[0043] In step 224, the client updates its index to reflect the content it received from the other client via the server. For example, in FIG. 1, the Client B 104 updates an index, such as the index used by Google™ Desktop, to reflect the Client A Content 108 it received.

[0044] Step 212 through step 224 can represent synchronization steps used by any of the user's clients. For example, referring to Fig. 1, step 212 through step 224 can represent synchronization steps used to update the Client A 102 with the Client B Content 112.

[0045] FIG. 3 is a block diagram showing the system 100 in FIG. 1 in more detail. The system 100 includes the Client A 102, the Client B 104, and the Server 106. The Client A 102 and the Client B 104 each represent a computer used by a user including, for example, a personal computer at home, a computers at work, and portable computers, such as a laptop computer, a PDA, and a cell phone. The Server 106 can act as a temporary storage location that facilitates synchronization between the user's clients.

The Client A 102 posts the Client A Content 108 to the Server 106 after content is changed on the Client A 102. Posting of the Client A's Content 108 occurs, for example,

whenever the user saves a file or document, or when he views a webpage. Posting can occur at set intervals, for example, every two minutes, and posting rates and strategies can be configurable. In some implementations, the posting occurs at a time relative to the event generated by the user's action. For example, the posting may occur at a
 5 predetermined time after a document is saved.

[0046] The Client A Content 108 is received by and stored in the Server 106. In order to keep its locally stored content synchronized with content from the other clients, the Client B 104 periodically issues a Request for Missing Content 310 to the Server 106. The Request 310 includes a Time Range 312 parameter identifying the range of time stamps
 10 for the missing content. The Request 310 is issued in order for the Client B 104 to obtain the Client A Content 108 that the Server 106 has yet to send to the Client B 104. To satisfy the request, the Server 106 locates its copy (if present) of the missing content using the Time Range 312 specified. The Server 106 can locate the content by checking time stamps stored in tables. The time stamps correspond to content received earlier by
 15 the Server 106 from the Client A 102. For example, the time stamps may indicate when the content was transmitted to the Server 106, or when the content was generated by a client. The Server 106 compares the time stamps to the Time Range 312 corresponding to the period of time that the Client B 104 has not received new content from the Server 106. If the Server 106 finds time stamps in its table within the specified Time range 312,
 20 then the Server B 106 sends a Missing Content for Specified Time Range 314 to the Client B 104. The Missing Content 314 includes the content with time stamps that fall within the Time Range 312.

[0047] The Client A 102 can include both data and applications. The data includes Files 316, hypertext markup language (HTML) Files 318, and an Index 320. The applications
 25 include an Event Listener 322, a File to Text/HTML Converter 324, and a hypertext transfer protocol secure (HTTPS) Client/server 326. The Files 316 can be, for example, text files, spreadsheets or documents produced by an application. The HTML Files 318 can be web pages viewed by the user on the user's various computers, thus providing a web browsing history. The Index 320 facilitates searching for content using an
 30 application, such as the Google™ Desktop, to search for key words in the content. The Event Listener 322 listens for and detects user actions, such as saving a file, deleting a

file, or viewing a web page, that may require the associated content Client A Content 108 to be posted to the Server 106. The File to Text/HTML Converter 324 facilitates conversion of content into a format that may be viewed by clients with simple word processing applications or web browsers (e.g., it doesn't require reading the content with the application that generated the content). For example, the File to Text/HTML Converter 324 can be used to convert the Files 316 to an HTML format. The HTTPS Client/server 326 can be used as a client that tracks web access and can contain a Time Stamp 328 which associates viewed web pages with a time that they were accessed by the user. The HTTPS Client/server can also be used as a server to provide content to peer clients, which is described in more detail below.

[0048] The Server 106 can contain a Storage 330, a Synchronization Manager 332, and an Authentication Manager 334. The Storage 330 can contain the Content A, and Content B through Content N 336 that has been received from the user's various clients. Each of the items of content can have an associated time stamp TS A, and TS B through TS N 338, which can identify the time at which each of the items were created. The Synchronization Manager 332 contains a Space Quota 342 and a Throughput Threshold 344. The Synchronization Manager 332 can use the Time Stamps 338 to synchronize content stored on and shared between the Client A 102 and the Client B 104. It can also use the Time Stamps 338 and the Space Quota 342 to purge the oldest time stamped content, using for example, a first in, first out (FIFO) method whenever the storage space quota for the client is reached.

[0049] The Synchronization Manager 332 can use the Throughput Threshold 344 to restrict the number of bytes received or transmitted by a client over a specified time period. For example, Synchronization Manager 332 can transmit an error message to a client that receives or transmits content or requests for content that exceeds a specified maximum throughput rate (e.g., 2Mb over 8 hours). The maximum throughput rate threshold can be configurable. The Authentication Manager 334 can provide security features that prevent unauthorized clients from using the Server 106 for storing and requesting content. Authentication can be based on, for example, a system for verifying user IDs and passwords. The Authentication Manager 334 can check the credentials of a

client when the client connects to the Server 106. If a client supplies invalid credentials, the Authentication Manager can transmit an error message to the client.

[0050] Both Clients A and B 102, 104 can contain similar components and can accept and transmit content in a similar manner. For example, both clients can include Files 346, HTML Files 348, an Index 350, an Event Listener 352, a File to Text/HTML Converter 354 and an HTTPS Client/server 356. The HTTPS Client/server 356 contains a Time Stamp 358 that it can use to tag viewed web page content with the time that it was viewed. Additionally, the Time Stamp 358 may be attached to each of the generated content that is transmitted to the server, thus providing a transmission time associated with the content.

[0051] FIG. 4 is a schematic showing a system 400 for sharing and synchronizing content using a mixed peer-to-peer and client/server architecture. In the system 400, content still can be shared among the Client A 102, the Client B 104 and a Client C 406 using the Server 106 in a method similar to that of method 200 of FIG. 2. The peer-to-peer aspect of the system 400 is the addition of direct sharing of content among the Clients 102, 104 and 406, thus bypassing the Server 106. Direct content sharing among peer clients can make use of available resource capacities at the clients, thus reducing the bandwidth traffic at the Server 106. The Server 106 can still serve as a drop-box for temporarily (or permanently) storing Client X Content 410 originating from any the Clients 102, 104 or 406. The drop-box, or storage, capabilities of the Server 106 can be used, for example, if a particular client is offline when the first attempt is made to deliver new content to it. Although FIG. 4 does not show explicit arrows between the Client C 406 and the Server 106, the Client C 406 can have communicate with the Server 106 in a manner similar to the method used by the Clients A or B.

[0052] FIG. 5 is a sequence diagram showing an illustrative method for sharing and synchronizing content using the mixed peer-to-peer and server architecture of FIG. 4. Processing can start in step 502 when an event occurs. This step 502 may be similar to the step 202 of FIG. 2, where an event is generated in response to an action performed by a user, such as, saving a file or document, accessing a web page, or opening a file or application. For example, referring to FIG. 4, a user at the Client A 102 may edit and save a document on his work computer.

[0053] In step 504, the index is updated to reflect the event that occurred in step 502. For example, the index is updated to reflect the new saved version of the user's document. A search application, such as Google™ Desktop, can use the index to locate a copy of the file or the file's content on the client.

5 [0054] In step 506, the content originating on the client is posted to the server. The content can include a copy of the document (or the content of the document) that was saved by the user as well as metadata that describes information, such as the type of data, its source, when it was saved, and when it was posted to the server. For example, referring to FIG. 4, the HTTPS Client/server 326 of the Client A 102 can transmit an
10 HTTP post command containing the Client X Content 410 to the Server 106.

[0055] In step 508, the server stores the content received from the originating client, and the content is propagated to the second client. For example, in FIG. 4, the Server 106 stores the Client X Content 410 on a storage device, then transmits the Client X Content 410 to the Client B 104.

15 [0056] In step 510, the content received from the server is stored on the second client's local storage device. For example, referring to FIG. 4, the Client B 104 stores the Client X Content 410 it received from the Server 106.

[0057] In an alternative embodiment, the step 506 can post the content to a peer client instead of the server, as shown by the dashed arrow pointing from the step 506 to the step
20 510. This embodiment can support a peer-to-peer aspect of the system 400 architecture by posting the content directly to a peer client. For example, referring to FIG. 4, the Client X Content 410 can be sent directly to the Client B 104 from the Client A 102, thus bypassing the Server 106. In a "daisy chain" of peer-to-peer clients, the content can originate on a first client and be sent directly to a second client, which in turn propagates
25 the content to a third client, and so on. Also, in some implementations, the content can be transmitted from a first client to a second client, and then to a server, which can distribute the content to other clients. One possible advantage of using this "daisy chain" technique is to conserve a user's upstream bandwidth by delegating the uploading of data among several clients or the server, instead of requiring a single client to upload the content to
30 all requesting clients or the server.

[0058] The system 400 can use several algorithms or rules to optimize the use of resources needed to synchronize the content among the various peer clients. Since bandwidth on the Server 106 and on the Clients 102 and 104 may be limited, and user actions can transmit or request large amounts of data at one time, content sharing can fall behind demand. For example, a user can store a very large document (e.g., a maintenance manual) on the Client A 102, and at a short time later, the same user empties a digital camera on the Client B 104. The same day, the user may go to work and update a small office memo on the Client C 406. Although the Server 106 can receive content for all three data items in the order that the user accessed them, the Server 106 can also deal with the data items by assigning it priorities. The Server 106 can handle the higher priority data items first, and save the lower priority data items for later. In one implementation, the priorities are based on attributes such as their size, type or age, which are each associated with a score. A lower combined score can be assigned a higher priority. For example, a small document (e.g., an office memo) would receive lower score based on size, thus a higher priority. Similarly, a large document (e.g., a maintenance manual) and digital photos would receive a higher score (and a lower priority). A data item's age would also affect its priority, with a higher priority being assigned to a newer data item. A data item's type can also be used to calculate its priority, since, for example, an office environment can place a higher priority on work-related data items, such as documents generated by Microsoft Word™. In some implementations, the priority algorithm is used by each of the clients to determine when to transmit content from that client to the server or another client.

[0059] The priority formula of one implementation can be stated as $1000 * \log_N(s) \sqrt{t/K} / B_{\{type\}}$, which is explained as follows: a data item would be assigned a base priority of 1000. The base priority is multiplied by the square root of the scaled time at which it was generated. This serves to significantly raise the priority of a very new data item. The priority is multiplied by $\log_N(s)$ (the logarithm with the base N of s), where N is a constant and s is the size of the file in kilobytes. That way, small files would get priority over large files, yet large files do not get pushed too far to the back of the priority list since the factor is not linear. Finally, a constant "boost factor" B can be applied based on the type of the data item. The boost factor is 1 by default, but can be different

for different types of data items (e.g., **B_{ms-office} = 2**)), where ms-office signifies a Microsoft Office™ document.

[0060] The system 400 can use this priority formula to determine how content is shared among clients. For example, depending on available bandwidth on the Clients 102, 104, 406, and on the Server 106, and the priorities associated with the data items being shared, the system 400 can spread the sharing load over a combination of clients. For example, referring to FIG. 4, the Client A 102 can send Client X Content 410 directly to both the Client B 104 and the Client C 406. Alternatively, the Client A 102 can send the content just to the Client B 104 and request the Client B 104 to replicate it to the Client C 406. Either way, the Server 106 can be bypassed in this peer-to-peer content sharing process, particularly if it does not have available bandwidth.

[0061] FIG. 6 is another sequence diagram showing an illustrative method for sharing and synchronizing content using a mixed peer-to-peer and server architecture of FIG. 4 when a client that is offline comes online. In this case, the system 400 automatically detects that a particular client is offline. In one implementation, determination of whether a client is online or offline can be made by monitoring polling by the client. If no request is received from a client, then the client is assumed to be offline. Similarly, the Server 106 can maintain a table of client IDs and whether each client is online or offline. When a client comes online, it can notify the Server 106 that it is online, and the Server 106 can update its table of clients with the online status.

[0062] The system 400 can enable peer-to-peer content sharing and synchronization using a combination of peer-to-peer and “drop box” techniques. The peer-to-peer techniques can be used by clients that are currently online to share the content directly between the clients. However, in order for the system 400 to supply the content to an offline client, the server can be used as a drop box for the content until the offline client comes online again.

[0063] Processing can start in step 602 when an event occurs. This step 602 may be similar to the step 202 of FIG. 2, where an event is generated in response to an action performed by a user, such as, saving a file or document, accessing a web page, or opening a file or application. For example, referring to FIG. 4, a user at the Client A 102 may edit and save a document on his work computer.

[0064] In step 604, the index is updated to reflect the event that occurred in step 602. For example, referring to FIG. 4, the index is updated to reflect the new saved version of the user's document. The index makes the file easily locatable on the client.

[0065] In step 606, the content originating on the first client is posted to a second client, thus initiating a peer-to-peer content flow. The content can include a copy of the document that the user saves as well as metadata that describes the type of data, the client that generated the data, and when the data was last changed. For example, referring to FIG. 4, the Client A 102 sends the Client X Content 410 to the Client B 104, where the Content 410 is transmitted with metadata that includes the source of the content (Client A 102) and when it was generated.

[0066] In step 608, the second client stores the content received from the originating client, enabling a user at the second client to view the document created at the first client. In this step, the second client also propagates the content to the server. In some implementations, the second client would propagate the data directly to a third client if the third client (e.g., the Client C) was online, but in this case, the third client is offline, so the content is transmitted to the server for temporary storage. For example, in FIG. 4, the Client B 104 stores the Client X Content 410 on its local storage device, then transmits the Client X Content 410 to the Server 106. If the Client C was online, the Client B 104 could propagate the content directly to the Client C 406; however, the Client C 406 is offline, so the Client B 104 propagates the data to the Server 106 instead.

[0067] In step 610, the content received from the second client is stored on the server's storage device. For example, referring to FIG. 4, the Server 106 stores the Client X Content 410 it received from the Client B 104 in the Storage Device 330.

[0068] An alternative embodiment of step 606 bypasses the second client and sends the data directly to the server, as shown by the dashed line pointing from the step 606 to the step 610. For example, referring to FIG. 4, the Client X Content 410 can be sent directly to the Server 106, thus bypassing the Client B 104. The Server 106 can then transmit the content to the remaining client peers, such as the Clients B and C.

[0069] Step 612 can occur after the third client comes online, having been offline during the time that the content originated on the first client and was propagated to the second client and to the server. In step 612, the third client requests a list of missing content

from the server. For example, the Client C 406 requests a list of missing content from the Server 106 when it connects to network that links the server and other clients, such as the Internet.

[0070] In step 614, the server determines the content missing from the third client. The determination can be made based on time stamped content stored at the server and the time range representing the time period during which the third client was offline and not receiving content. For example, referring to FIG. 4, the Server 106 determines the content missing from the Client 406 by determining what content was uploaded to the Server since the Client 406 last contacted the Sever. The Server can make this determination by comparing the TSs 338 with the time that the client C is currently requesting a list of the missing content. Any content with TSs between when the Client C last logged on and its current log on is assumed to be missing from the Client C.

[0071] Alternatively, the time range specified by a client could be arbitrary. For example, the Client C may specify a beginning and an ending point of the time range that is based on content that it does not yet have stored, regardless of when the Client C has last logged on. This may be used in combination with the priority formula discussed above. For instance, a client may log on to the server, but not download content for a certain time period because it has been given a lower priority. Later, the client may specify this time range for downloading the content even if the client has downloaded content that associated with time ranges that occurred after the time range of the lower priority content.

[0072] In some implementations, the Server 106 may not contain the actual content, but may contain a list of the content that was generated during the time that the Client C was offline. For example, the Client A may access a very large file during the time that the Client C is offline. The content of this file may not be transmitted to the Server 106 because of the execution of a priority algorithm (as discussed earlier). Instead, metadata describing the file and the time it was accessed may be transmitted to the Server. This metadata may be included in a list tracking content that was generated during the time that the Client C was offline even though the content is not currently stored on the Server 106.

[0073] In step 616, the server passes the list of missing content to the third client (e.g., Client C), which had been offline. The list identifying the missing content includes metadata describing the type of data that is missing, time ranges associated with the accessing or transmission of the data, and the client source or sources of the missing content. For example, referring to FIG. 4, the Server 106 sends the Client C 406 a list of missing content that it can obtain from the server or directly from the source clients.

[0074] In step 618, the third client uses the list it received from the server to determine where it can obtain the missing content. The missing content may exist on other peer clients, the content may be stored at the server, or the content may be stored at both the client and the server. For example, referring to FIG. 4, the Client C 406 may determine that it can synchronize its content by requesting the Client X Content 410 (which is the Client A's content in this case) from the Client A 102. In the current example for FIG. 6, the content happened to originate on the Client A 102, but a client can request content from any client that has a copy of the missing content, regardless of where the content originated.

[0075] In step 620, the third client requests the missing content from the first client, provided the first client is online at the time. For example, referring to FIG. 4, the Client C 406 requests the Client X Content 410 from the Client A 102 if the Client A is currently networked to the Client C. The content requested is based on the time range corresponding to the time stamps of content resident on the Client A 102 but not resident on the Client C 406.

[0076] In step 622, the first client provides the missing content to the third client. For example, referring to FIG. 4, the Client A 102 sends the Client X Content 410 to the Client C 406.

[0077] In an alternative embodiment of step 620, the first client can be offline at the time of the third client's request for missing content. In this implementation, the third client can obtain the missing content from another client that is online. For example, the Client C 406 requests the Client A's content 410 from the Client B 102. Of course, the Client A would have had to previously transfer the requested content to the Client B at a time when both the Client A and the Client B were online, as indicated in the step 608.

[0078] In step 624, the second client sends the missing content to the third client. For example, referring to FIG. 4, the Client B 104 sends the Client A Content 410 to the Client C 406.

[0079] In another alternate embodiment of step 620, both the first and second clients can be offline at the time of the third client's request for missing content. In this case, the third client can obtain the missing content from the server. For example, the Client C 406 requests the Client X Content 410 from the Server 106. Additionally, the Client C 406 can request the content from the Server even if the one or more other clients are online. For instance, the Client C may request the content from the Server if the other clients have less available bandwidth relative to the Server.

[0080] In step 626, the server sends the missing content to the third client. For example, referring to FIG. 4, the Server 106 sends the Client X Content 410 to the Client C 406.

[0081] In step 628, the content received by the third client is stored on the client's local storage device. For example, referring to FIG. 4, the Client X Content 410 received by the Client C 406 is stored on the client's local storage device.

[0082] In step 630, the index of the client is updated to incorporate searchable information corresponding to the content received by the third client. For example, referring to FIG. 4, the index stored at the Client C 406 is updated with searchable information corresponding to the Client X Content 410 it received. After the content is associated with the index, a search application, such as Google™ Desktop, may locate the content when a user enters key words present in the content into a user interface for the search application.

[0083] FIG. 7 is a block diagram showing particular components of the system shown in FIG. 4 in more detail. As discussed above, the system 400 includes the Client A 102, the Client B 104, and the Server 106, where the Client A 102 and the Client B 104 represent a user's various computers. The Server 106 serves as a temporary storage location that can facilitate synchronization between the user's clients.

[0084] The Client A 102 posts Client A Content 108 to the Server 106 when content is changed on the Client A 102. Posting of the Client A Content 108 occurs, for example, whenever the user saves a file or document, or when he views a webpage. Posting can occur at set intervals, for example, every two minutes, and posting rates and strategies

can be configurable. Alternatively, posting can occur as soon as an event is generated by an action, such as saving a file. For example, a client can maintain an open connection with a server and post as soon as an event is generated. In this connection-oriented architecture (regardless of whether the connection is peer-to-peer or client-to-server),
5 each of the clients can push new data to the other clients instead of waiting until the other clients send a request for missing information.

[0085] The Client A Content 108 is received by and stored in the Server 106. In order to keep its locally stored content synchronized with content from the other clients, the Client B 104 periodically issues a Request for Missing Content 710 to the Server 106. The
10 Request 710 includes a Time Range 712 parameter identifying the range of time stamps for the missing content. The Request 710 is issued in order for the Client B 104 to obtain the Client A Content 108 that the Server 106 has yet to send to the Client B 104. To satisfy the request, the Server 106 locates its copy of the missing content using the Time Range 712 specified, and it sends the Missing Content for Specified Time Range 714 to
15 the Client B 104.

[0086] Similarly, using a peer-to-peer architecture, the Client B 104 can request missing content from another client. For example, the Client B 104 can issue a Request for Missing Content 710 to the Client A 102. The Client A 102 can locate the data on its storage device and send it to the Client B 104 in a Missing Content for Specified Time
20 Range 714.

[0087] The Client A 102 includes a List of Time Ranges Associated with Locally Stored Content 716, a List of Time Ranges Associated with Content Needed 718, and an Update Timer 720. The Lists of Time Ranges 716 and 718 facilitate synchronization of the content on the Client A 102 with the content stored on other clients and the server. For
25 example, the List of Time Ranges Associated with Locally Stored Content 716 corresponds to content created locally on the Client A 102 plus any content created on other clients, such as the Client B 106, but stored on Client A. Similarly, the List of Time Ranges Associated with Content Needed 718 corresponds to content that the Client A 102 needs to acquire. In a peer-to-peer and Client/Server mixed architecture, the missing
30 content can be acquired from the Server 106 or from another peer client, such as Client B 104. As content is received at the Client A 102, the corresponding time ranges are moved

from the Needed List 718 to the Locally Stored List 716. The Update Timer 720 is used to keep track of when the client needs to connect to the server or to other clients to obtain new lists of missing info, provide lists of newly created content (or the content itself), and connecting to download content it has not yet received.

5 **[0088]** The Server 106 contains Storage 722 and an Authentication Manager 724. The Storage 722 contains the Content A, Content B, and so on through Content N 726 that have been received from the various clients in the peer-to-peer architecture. Each of the items of content has an associated time stamp TS A, TS B, and so on through TS N 728, which identify the time at which each of the Contents 726 was last updated.

10 Additionally, each of the Contents 726 has an associated Source A, Source B, and so on through Source 730, which identifies the content's source, or client ID. The Authentication Manager 724 authenticates users and clients that attempt to access the server to store or request content. The Authentication Manager 724 can include a list of User IDs 732 that are associated with clients permitted to access the Server 106, a list of
15 User Client IDs 734 that identify the clients associated with a user, and an Authenticator 736 which uses the User IDs 732 and User Client IDs 734 to prevent unauthorized use of the Server 106 and the content it has in Storage 722.

[0089] In some implementations, the Authentication Manager 724 does not include all of the elements shown in FIG. 7. For example, the Manager 724 may not include the list of
20 User Client IDs 734 because these IDs are not used in authentication in these implementations. Instead, the User Client IDs 734 can be used primarily for indicating which of the user's machines transmitted the received content.

[0090] The Client B 104 can perform similar functions as the Client A 102 and can contain similar components including: a List of Time Ranges Associated with Locally
25 Stored Content 738, a List of Time Ranges Associated with Content Needed 740, and an Update Timer 742.

[0091] FIG. 8 is a flow chart showing an illustrative method 800 for sharing and synchronizing content across multiple client devices according to the implementation shown in FIG. 4. For example, the method can be performed by the system 400. The
30 method 800 can begin in step 802 when one client queries a second client for content in a specified time range. For example, referring to FIG. 7, Client A 102 may query Client B

104 for content in a time range representing the time since the last synchronization. The time range information can be a subset of the List of Time Ranges Associated with Content Needed 718 in the Client A 102.

[0092] In step 804, it is determined if the second client is online. For example, referring to FIG. 7, the system determines if Client B 104 is online. If so, it may be possible to obtain the needed content directly from Client B 104.

[0093] If the answer in step 804 is yes, the second client provides the requested content in step 806. The content provided corresponds to the time range specified in step 802. For example, referring to FIG. 7, the Client B 104 sends the requested content to the Client A 102, which stores the content locally.

[0094] In step 808, the client receiving the content updates its time range list corresponding to the content it already has and also updates the list that identifies the content the client still needs. The time range lists are specific to each client that serves as a source for content. When content is received from a client, the time range is removed from the list of content needed from the source, and the time range is added to the list of locally stored content from that source. For example, referring to FIG. 7, the List of Time Ranges Associated with Content Needed 718 is decreased by the time range, and the List of Time Ranges Associated with Locally Stored Content 716 is increased by the time range. Upon completion of step 808, the query for content and the delivery of the content are complete.

[0095] Step 810 is executed if the determination of step 804 is that the Client B is not online or cannot provide the content requested by the first client's query. In this case, the first client queries the server to obtain the needed content. For example, referring to FIG. 7, the Client B 104 queries the Server 106 for the needed content.

[0096] In step 812, it is determined if the server has the specified content. The content may no longer exist on the server if it was deleted, for example, due to retention rules, storage quotas, or an unforeseen loss of data. For example, referring to FIG. 7, the Server 106 attempts to locate the needed content in Storage 722. The search occurs using the time range corresponding to the content that is needed. For example, the Server 106 compares time range of the request to the time stamps TS 728 of the content within Storage 722. If the time stamps are within the specified time range, then the Server 106

can meet the request of the Client A 102. If the content is not within the Storage 722, the Server 106 may request it from the client that originated the content. After the Server receives the requested content, it may transmit it to the Client A 102.

5 [0097] Retention rules within an organization can state that documents can be retained for a limited time (e.g., two years) before they must be destroyed. At the end of the specified retention period, the document can be deleted, possibly automatically, on the client. Each client or server of the system 800 can transmit a command to the other clients or servers to delete the corresponding content. Additionally, the metadata associated with the content can include expiration dates or other retention rules. This
10 metadata may be transferred along with the content to all of the requesting clients. In this way, the clients that received the content and metadata can delete the content associated with the rules or expiration dates, even if the receiving client does not connect to the network after receiving the content (and therefore never receives the command to delete the content).

15 [0098] Storage quotas on a server can limit the amount of data stored by a user. For example, the Server 106 may have a configurable storage quota for each client it serves. The Client A 102 (e.g., a user's work computer) may transmit content to the Server 106 until the client exceeds its storage quota. In some implementations, the Server 106 may have a FIFO system for handling a client's transmitted content relative to its quota. If the
20 client's quota is exceeded, the new content can be accepted, but the oldest content can be deleted. If the content is deleted before another client (e.g., a user's home computer that has been offline for months) is able to receive it, then the client can be forced to obtain the content elsewhere. In this example, the client (e.g., user's home computer) can obtain the content directly from his work computer. Alternatively, the Server may request the
25 content from the client that generated the content and transmit the content to the requesting client.

[0100] The Server 106 may have deleted the content because of an optimistic deletion policy. The Server 106 can include a list of all active clients associated with a particular user ID. An active client can be defined as a client that has contacted the server within a
30 predetermined time period, such as three months. After the Server determines that received content has been transmitted to the active clients included in the list, the Server

may delete that received content. If an inactive client (a client that has not contacted the Server within the predetermined time) transmits a request for the deleted content, the Server may request that the client that originally transmitted the content retransmit it. The Server may then provide it to the previously inactive client.

5 **[0101]** If the answer in step 812 is yes, the server provides the needed content in step 814. The content provided corresponds to the time range specified in step 810. For example, referring to FIG. 7, the Server 106 sends the needed content to the Client A 102, which stores the content locally and updates its list of time ranges corresponding to content it needs and content stored locally.

10 **[0102]** If the answer in step 812 is no, the server can signal the first client to request the content at a later time.

[0103] In step 818, the server requests the second client to provide the missing content it needs to satisfy the original query received from the first client. In one implementation, the server can wait until it detects that the second client is online, then issue the request.

15 In another implementation, the server may wait to issue the request until sometime after the second server comes online, permitting the second client to first complete higher priority tasks. For example, referring to FIG. 7, the Server 106 waits for the Client B 104 to come online, and ultimately requests the missing content from the Client B.

[0104] Regardless, the server can locate a copy of the requested content. For example, referring to FIG. 7, the system determines if Client B 104 is online. If so, it is possible to obtain the needed content directly from Client B 104.

[0105] FIG. 9 is a schematic showing a general computer system. The System 900 can be used to execute the steps performed in the method 800 and the sequences 500 and 600, according to one implementation. For example, the System 900 may be included in
25 either or all of the Client A 102, the Client B 104, and the Server 106.

[0106] The System 900 includes a Processor 910, a Memory 920, a Storage Device 930, and Input/Output Devices 940. Each of the components 910, 920, 930, and 940 are interconnected using a System Bus 950. The Processor 910 is capable of processing instructions for execution within the System 900. In one implementation, the Processor
30 910 is a single-threaded processor. In another implementation, the Processor 910 is a multi-threaded processor. The Processor 910 is capable of processing instructions stored

in the Memory 920 or on the Storage Device 930 to display graphical information for a user interface on the Input/Output Devices 940.

[0107] The Memory 920 stores information within the System 900. In one implementation, the Memory 920 is a computer-readable medium. In another
5 implementation, the Memory 920 is a volatile memory unit. In another implementation, the Memory 920 is a non-volatile memory unit.

[0108] The Storage Device 930 is capable of providing mass storage for the System 900. In one implementation, the Storage Device 930 is a computer-readable medium. In various different implementations, the Storage Device 930 may be a floppy disk device, a
10 hard disk device, an optical disk device, or a tape device.

[0109] The Input/Output Devices 940 provides input/output operations for the System 900. In one implementation, the Input/Output Devices 940 includes a keyboard and/or pointing device. In another implementation, the Input/Output Devices 940 include a display unit for displaying graphical user interfaces.

[0110] The features described can be implemented in digital electronic circuitry, or in computer hardware, firmware, software, or in combinations of them. The apparatus can be implemented in a computer program product tangibly embodied in an information carrier, e.g., in a machine-readable storage device or in a propagated signal, for execution by a programmable processor; and method steps can be performed by a programmable
15 processor executing a program of instructions to perform functions of the described implementations by operating on input data and generating output. The described features can be implemented advantageously in one or more computer programs that are executable on a programmable system including at least one programmable processor coupled to receive data and instructions from, and to transmit data and instructions to, a
20 data storage system, at least one input device, and at least one output device. A computer program is a set of instructions that can be used, directly or indirectly, in a computer to perform a certain activity or bring about a certain result. A computer program can be written in any form of programming language, including compiled or interpreted languages, and it can be deployed in any form, including as a stand-alone program or as a
25 module, component, subroutine, or other unit suitable for use in a computing environment.

[0111] Suitable processors for the execution of a program of instructions include, by way of example, both general and special purpose microprocessors, and the sole processor or one of multiple processors of any kind of computer. Generally, a processor will receive instructions and data from a read-only memory or a random access memory or both. The essential elements of a computer are a processor for executing instructions and one or more memories for storing instructions and data. Generally, a computer will also include, or be operatively coupled to communicate with, one or more mass storage devices for storing data files; such devices include magnetic disks, such as internal hard disks and removable disks; magneto-optical disks; and optical disks. Storage devices suitable for tangibly embodying computer program instructions and data include all forms of non-volatile memory, including by way of example semiconductor memory devices, such as EPROM, EEPROM, and flash memory devices; magnetic disks such as internal hard disks and removable disks; magneto-optical disks; and CD-ROM and DVD-ROM disks. The processor and the memory can be supplemented by, or incorporated in, ASICs (application-specific integrated circuits).

[0112] To provide for interaction with a user, the features can be implemented on a computer having a display device such as a CRT (cathode ray tube) or LCD (liquid crystal display) monitor for displaying information to the user and a keyboard and a pointing device such as a mouse or a trackball by which the user can provide input to the computer.

[0113] The features can be implemented in a computer system that includes a back-end component, such as a data server, or that includes a middleware component, such as an application server or an Internet server, or that includes a front-end component, such as a client computer having a graphical user interface or an Internet browser, or any combination of them. The components of the system can be connected by any form or medium of digital data communication such as a communication network. Examples of communication networks include, e.g., a LAN, a WAN, and the computers and networks forming the Internet.

[0114] The computer system can include clients and servers. A client and server are generally remote from each other and typically interact through a network, such as the described one. The relationship of client and server arises by virtue of computer

programs running on the respective computers and having a client-server relationship to each other.

[0115] A number of embodiments have been described. Nevertheless, it will be understood that various modifications may be made without departing from the spirit and scope of the described embodiments. For example, the system 400 shown in FIG. 4 can be modified to use a peer-to-peer architecture without the Server 106. If a client, such as the Client A 102, attempts to transmit content to another client that is offline, such as the Client B 104, the Client A 102 can hold the content and continue to make transfer attempts until the Client B 104 comes back online instead of transferring the content to the Server 106 for temporary storage. Alternatively, the Client A 102 can transfer the content to a client other than the target Client B 104 if the target client is offline. For example, the Client A 102 can transfer the content to the Client C, which transfers the content to the Client B 104 when it comes online.

[0116] Also, in another implementation, the clients may specify the content with bit ranges instead of time ranges. For example, a client may request from the Server 106 content, which is specified by a first bit value (that indicates the starting bit of content data) to a second bit value (that indicates the ending bit of content data). Likewise, the Time Range lists 716, 718, 738 and 740 can contain bit ranges associated with locally stored content and bit ranges associated with content needed, respectively. Accordingly, other embodiments are within the scope of the following claims.

WHAT IS CLAIMED IS:

- 1 1. A method comprising:
2 receiving an event indicating an action associated with a first file has been
3 performed by a user using a first client, wherein the action is unrelated to transmitting
4 the first file to another client;
5 automatically extracting content from the first file in response to the event using
6 the first client and generating metadata to associate with the content; and
7 transmitting, using the first client, the content and the metadata to a peer client if
8 the peer client and the first client are currently operating and visible to each other on a
9 network, wherein the timing of the transmission is determined automatically after the
10 event is received.

- 1 2. The method of claim 1, wherein the action that is unrelated to transmitting a file is
2 a file access or a file save, and the extracted content from the first file is a copy of the
3 file or a copy of the contents of the file.

- 1 3. The method of claim 1, further comprising receiving from a server an indication
2 that the server is configured to transmit the content to a requesting client; and having
3 received the indication and if the peer client is not currently networked to the first
4 client, transmitting the content and the metadata to the server.

- 1 4. The method of claim 3, further comprising receiving requirements from a server,
2 locating the metadata that meets the requirements, and selecting the content
3 associated with the metadata for transmission to the peer client.

- 1 5. The method of claim 4, wherein the requirements include time stamp values or
2 data bit values.

- 1 6. The method of claim 5, further comprising extracting additional content from a
2 plurality of files using the first client in response to a plurality of events occurring on
3 the first client and transmitting the additional content to the peer client based on one

4 or more priority algorithms that specify an order in which the additional content is to
5 be transmitted.

1 7. The method of claim 1, wherein transmitting the content and metadata to a peer
2 client includes transmitting the content and the metadata to a server, the first client
3 receiving an indication from the server that the server is configured to transmit the
4 content and the metadata to the peer client.

1 8. The method of claim 1, wherein transmitting the content and metadata to a peer
2 client includes transmitting the content and the metadata to a second client, the first
3 client receiving an indication from the second client that the second client is
4 configured to transmit the content and the metadata to the peer client.

1 9. The method of claim 1, further comprising indexing the content before it is
2 transmitted to the peer client so that one or more symbols included in the content are
3 formatted as keys operable to identify the content.

1 10. The method of claim 1, further comprising extracting content from a second file
2 independent of an event occurrence, indexing the content from the second file, and
3 transmitting the indexed content to the peer client.

1 11. The method of claim 1, wherein extracting the content from the first file includes
2 converting the content of the first file into hypertext markup language (HTML) or
3 text.

1 12. The method of claim 1, wherein extracting the content of the first file includes
2 generating a copy of the first file that retains the first file's original file formatting.

1 13. The method of claim 1, further comprising increasing a throughput threshold for
2 limiting an amount of content passed between the first client and the peer client if an
3 indication is received at the first client that a network connection between the first

client and the peer client has a bandwidth that exceeds a predetermined bandwidth value.

14. The method of claim 1, further comprising associating an expiration date with the content before it is transmitted to the peer client.

15. The method of claim 1, further comprising transmitting a request to delete the content from the peer client if the content is deleted from the first client.

16. A computer system having one or more servers comprising:

a table manager module to receive an indication from a first client that a user has performed an action on a file that is unrelated to a transfer of the file, the indication including content extracted from the file and a metadata value assigned to the content;

a data table to store the content extracted from the file on the first client and the metadata value;

an interface to receive from a second client a request for content that is associated with one or more metadata values within a specified metadata value range; and

a selection module to initiate transmission of the content to the second client if the metadata value associated with the content is within the specified metadata value range.

17. The system of claim 16, wherein the metadata value includes a time stamp that indicates when the action performed on the file occurred, and the metadata value range includes a sequential range of time stamp values that indicate a period of time.

18. The system of claim 16, further comprising an active client list that includes identifiers for clients from which requests for content have been received by the interface within a predetermined period of time, the active client list being used by the table manager module to determine if the content has been transmitted to all listed active clients before the table manager module issues a delete command to remove the content from the data table.

19. The system of claim 16, further comprising a space quota that includes a limit on an amount of storage space for received content, the space quota being used to trigger a

3 deletion of at least a portion of the content from the data table when the quota is
4 exceeded.

1 20. The system of claim 16, further comprising a list of source identifiers, one
2 of which specifies the first client from which the content was received, the list of source
3 identifiers being used to initiate a request for the content from the first client if the
4 content has been deleted from the data table before the content is transmitted to the
5 second client.

1 21. The system of claim 16, further comprising an authentication manager to
2 transmit client identifiers for the first and second clients and a user identifier associated
3 with the first and second clients to an external server for use in reconstructing the content
4 if the content stored in the data table becomes inaccessible.

1 22. The system of claim 16, further comprising a throughput threshold that includes a
2 limit on an amount of data that is received by the interface within a predetermined time
3 period, the throughput threshold being used by the interface to refuse the receipt of
4 additional content if the amount of data received exceeds the threshold.

1 23. A system for sharing data across multiple clients comprising:
2 an event listener at a first client to receive a user-initiated action associated with a
3 file, wherein the action is unrelated to transmitting the file to a second client;
4 an extractor at the first client to extract content from the file in response to the
5 event and to generate metadata that is associated with the context; and
6 means for transmitting the content and the metadata from a first client to a second
7 client.

1 24. A computer program product tangibly embodied in a tangible, machine-readable
2 information carrier, the computer program product including instructions that, when
3 executed, perform a method comprising:

4 receiving an event indicating an action associated with a first file has been
5 performed by a user using a first client, wherein the action is unrelated to transmitting
6 the first file to another client;

7 automatically extracting content from the first file in response to the event using
8 the first client and generating metadata to associate with the content; and

9 transmitting, using the first client, the content and the metadata to a peer client if
10 the peer client and the first client are currently operating and visible to each other on a
11 network, wherein the timing of the transmission is determined automatically after the
12 event is received.

ABSTRACT

A method includes receiving an event indicating an action associated with a first file has been performed by a user using a first client. The action is unrelated to transmitting the first file to another client. The method also includes automatically
5 extracting content from the first file in response to the event using the first client and generating metadata to associate with the content, and transmitting, using the first client, the content and the metadata to a peer client if the peer client and the first client are currently operating and visible to each other on a network. The timing of the transmission is determined automatically after the event is received.

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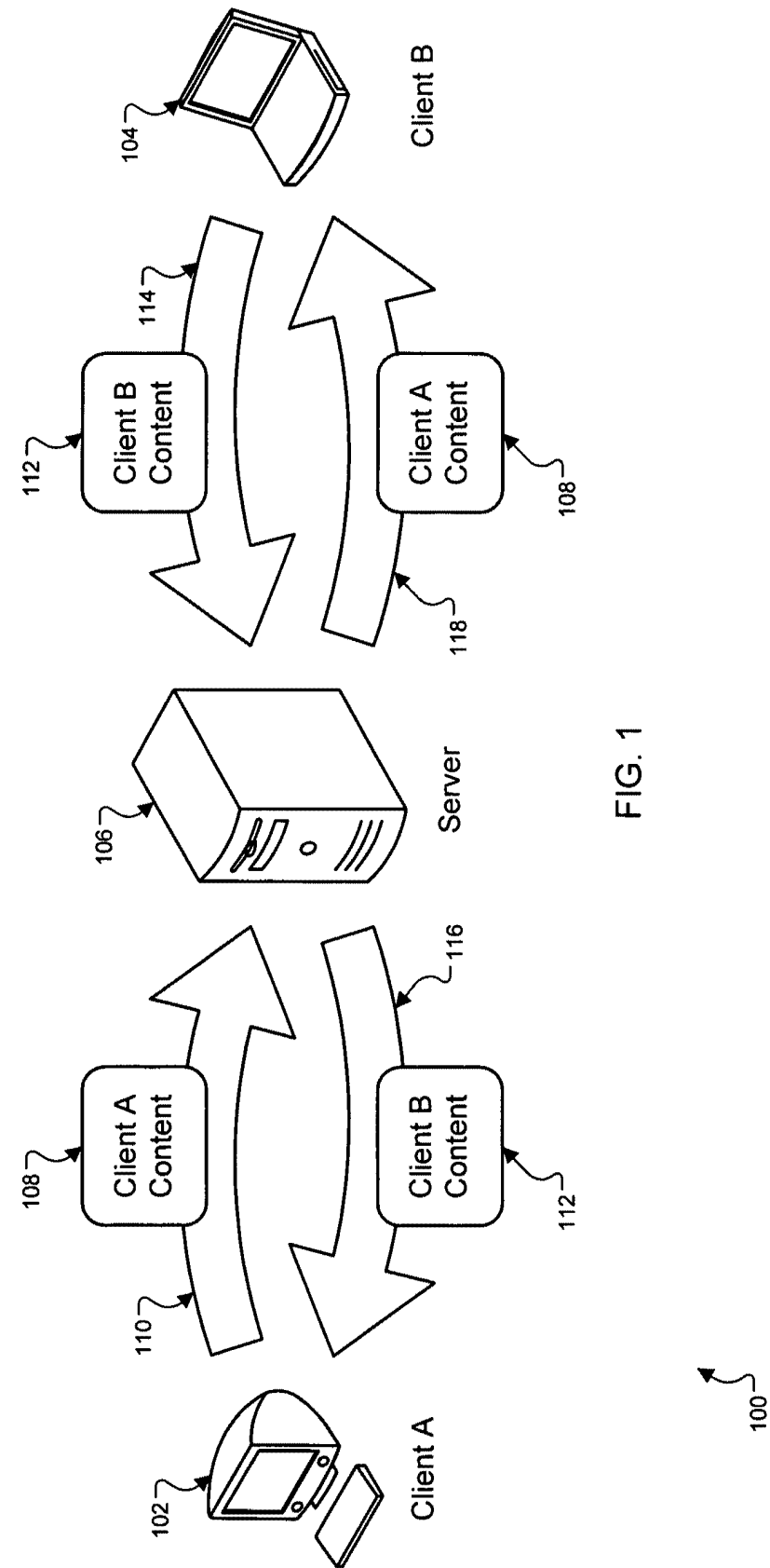


FIG. 1

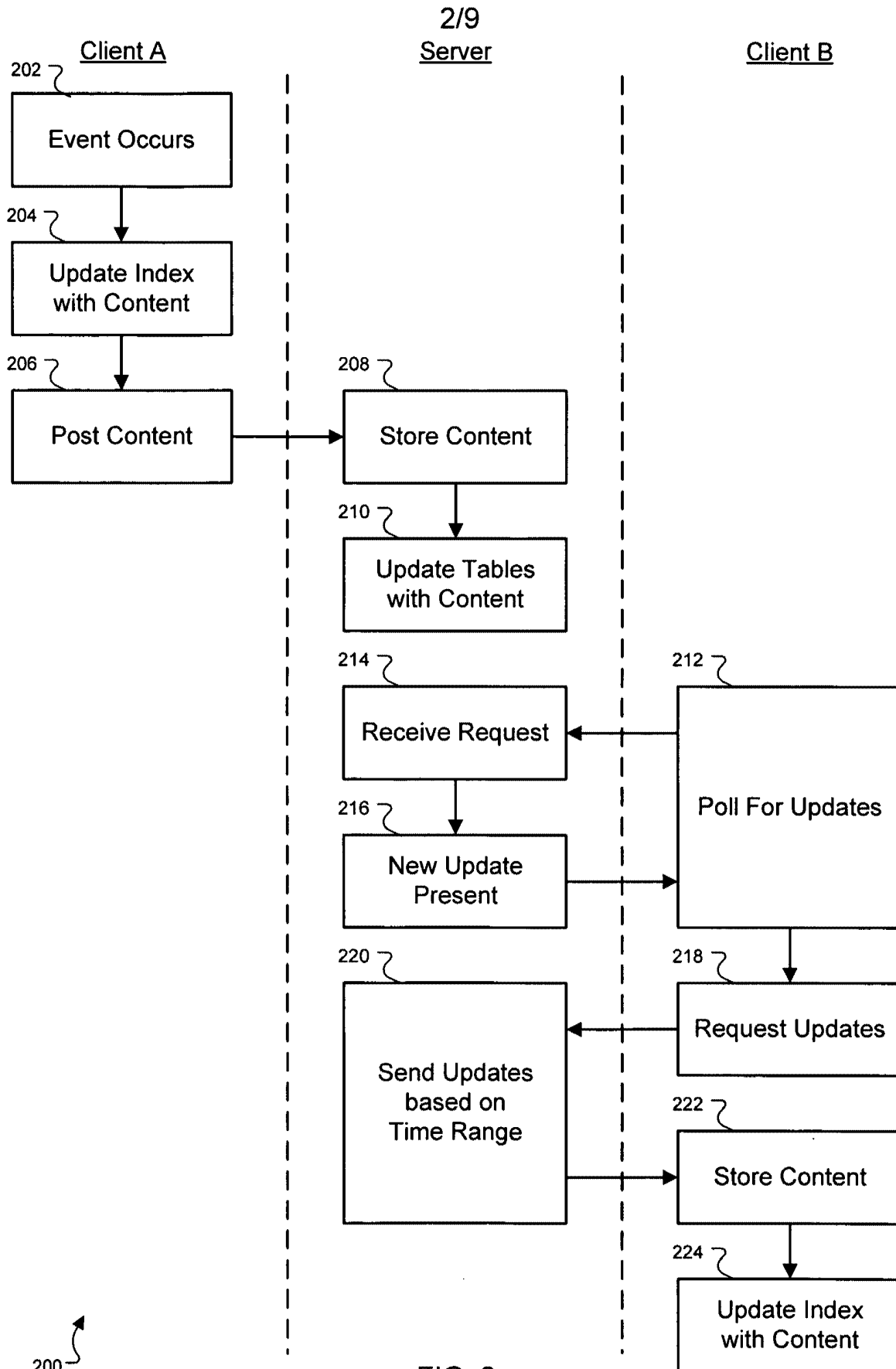


FIG. 2

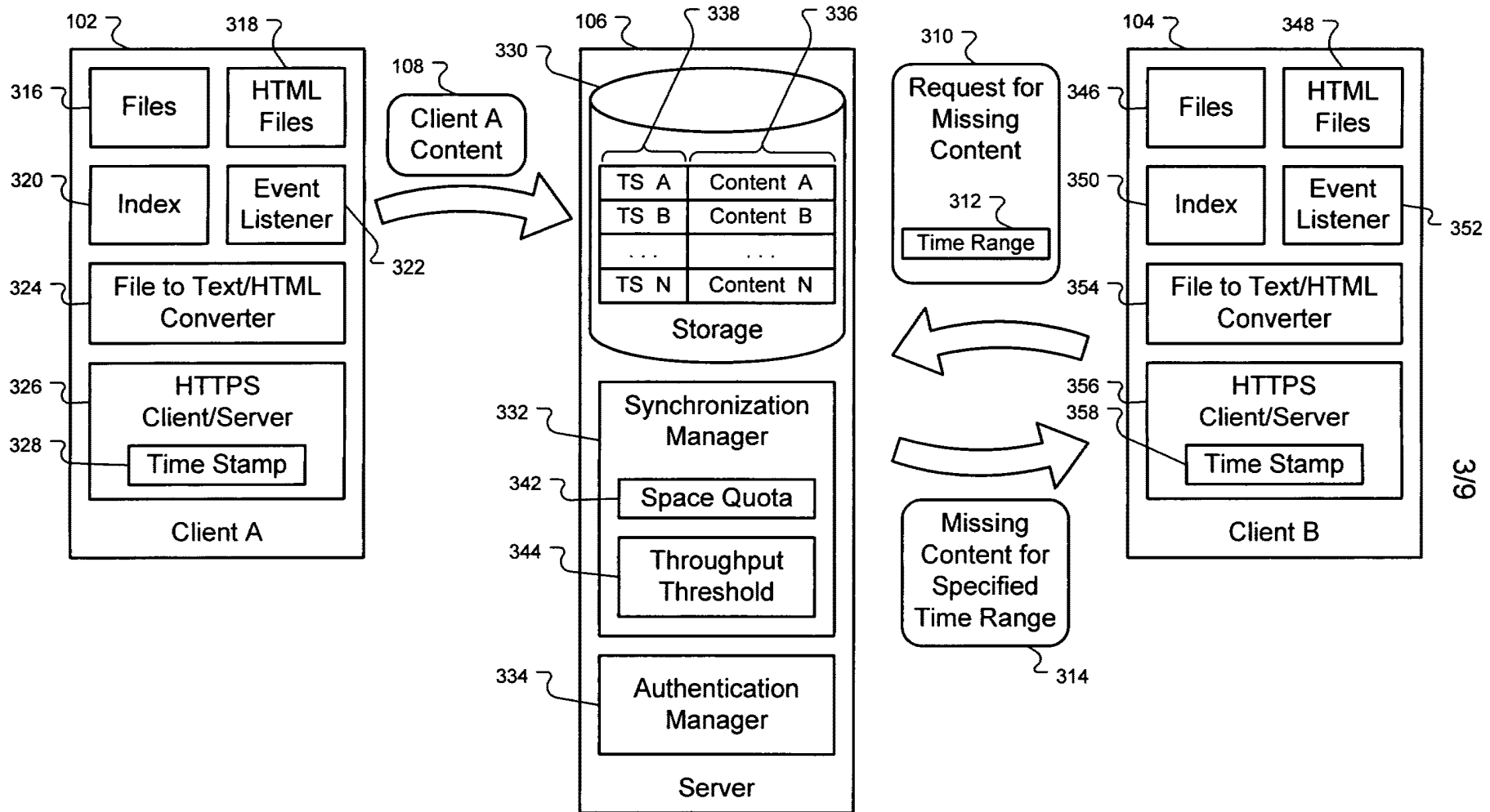
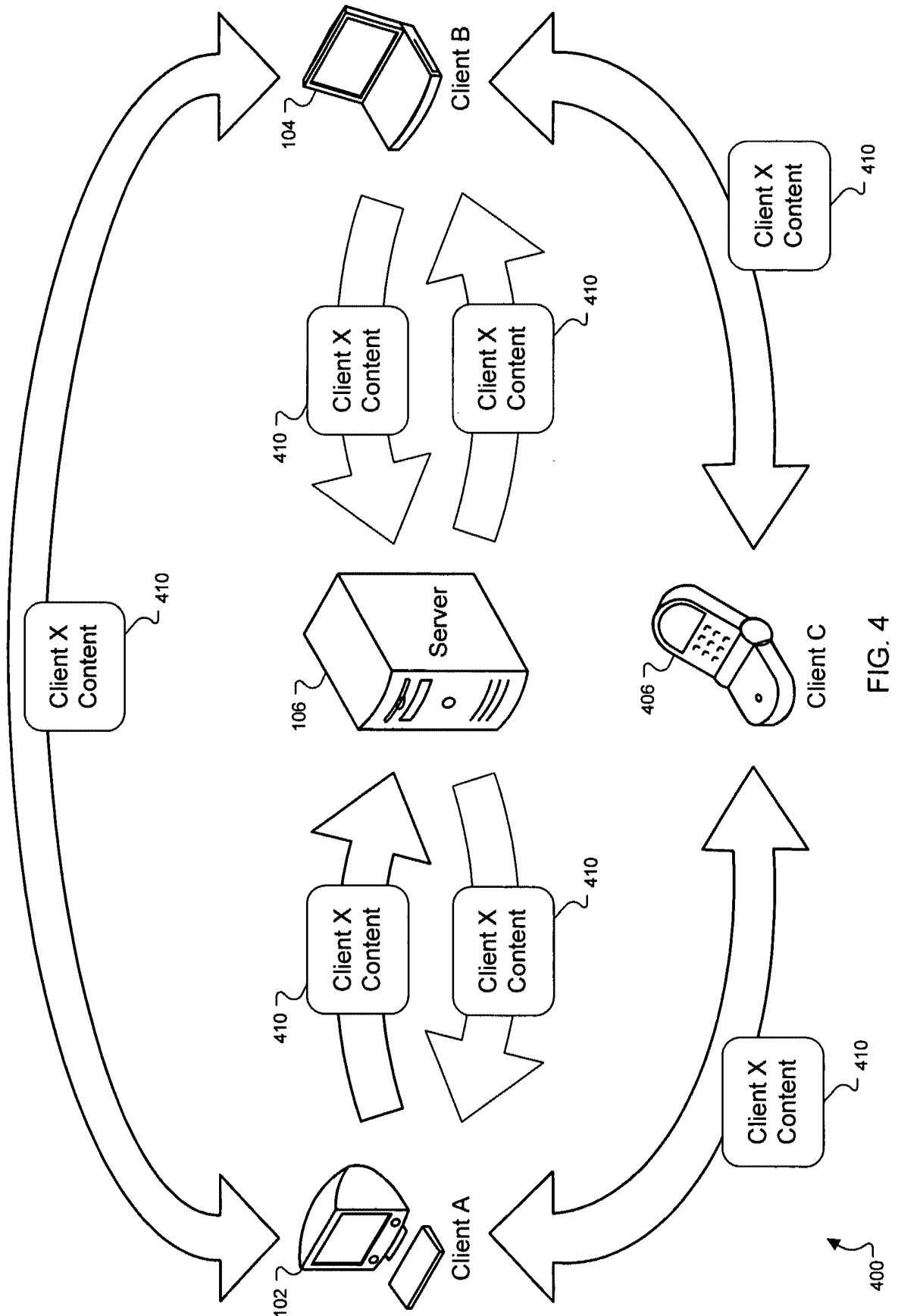


FIG. 3

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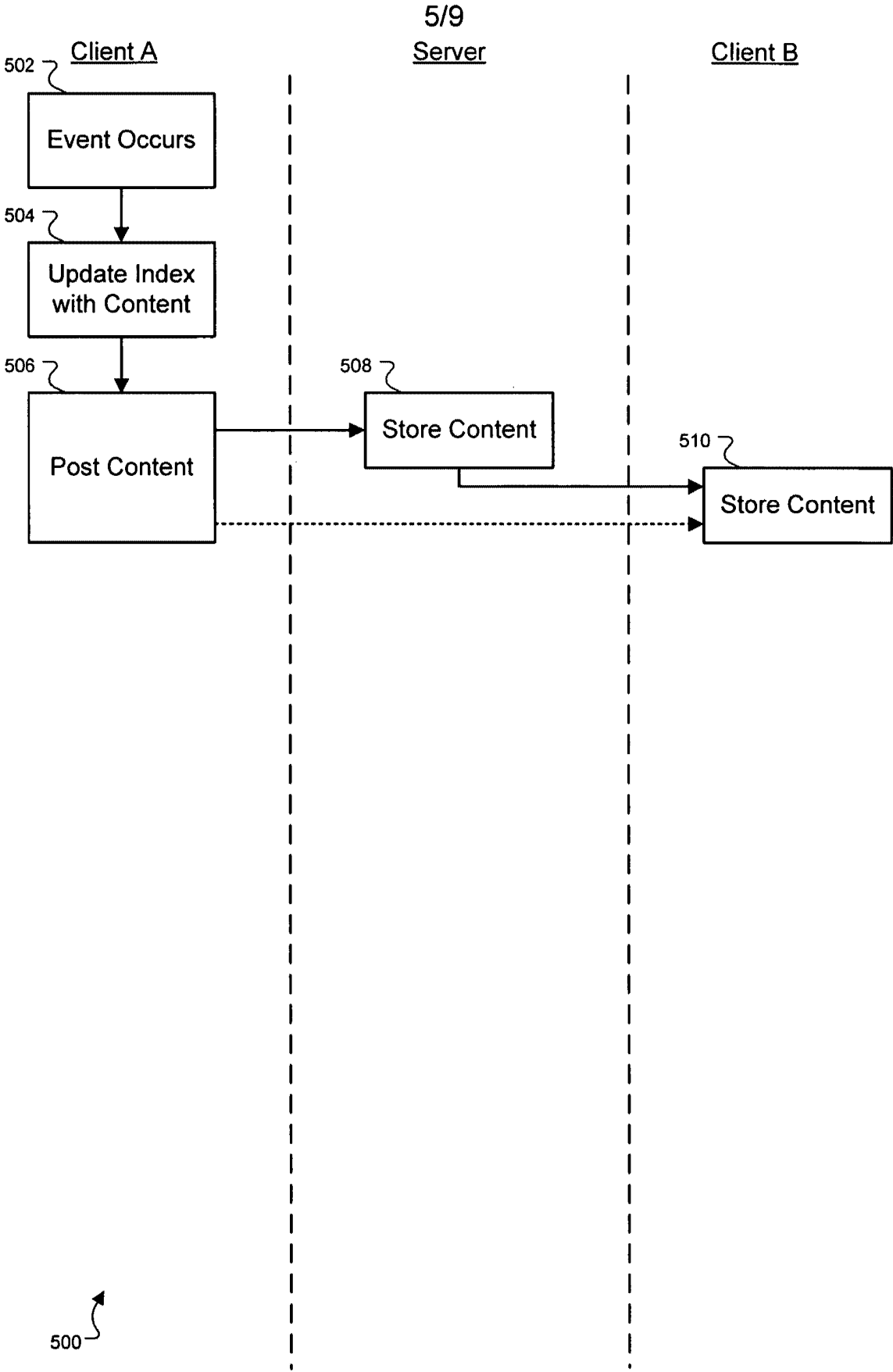


FIG. 5

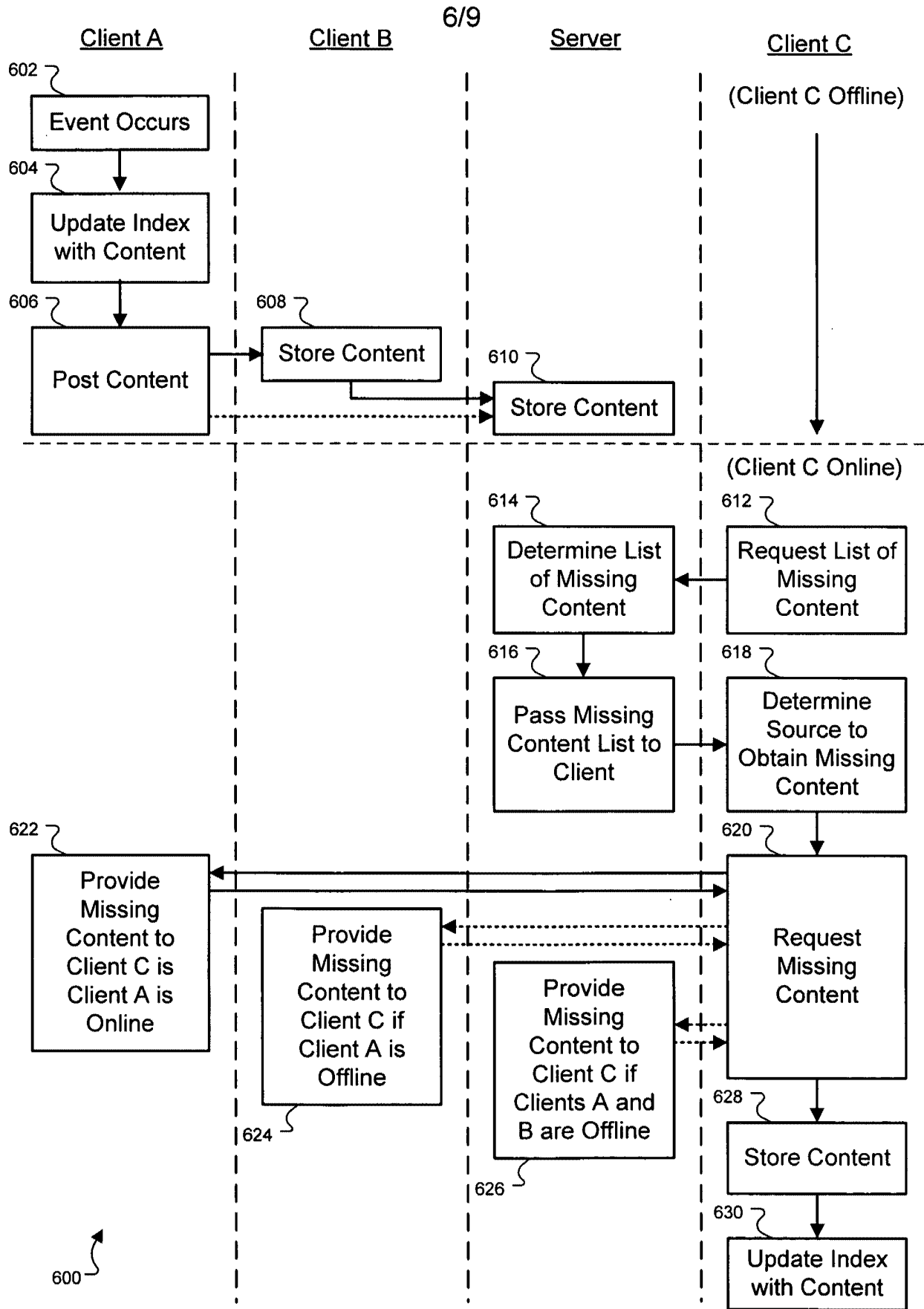


FIG. 6

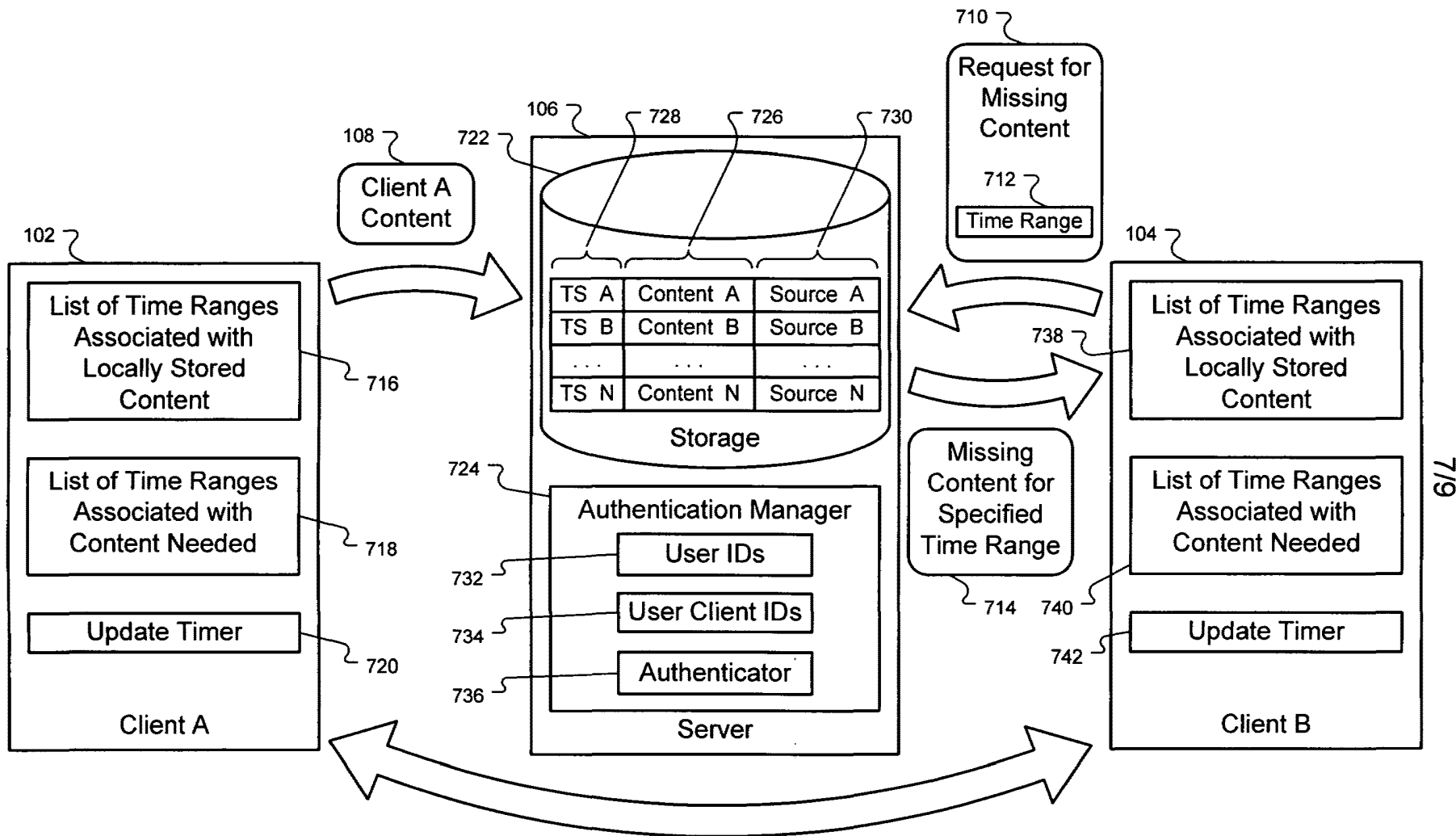


FIG. 7

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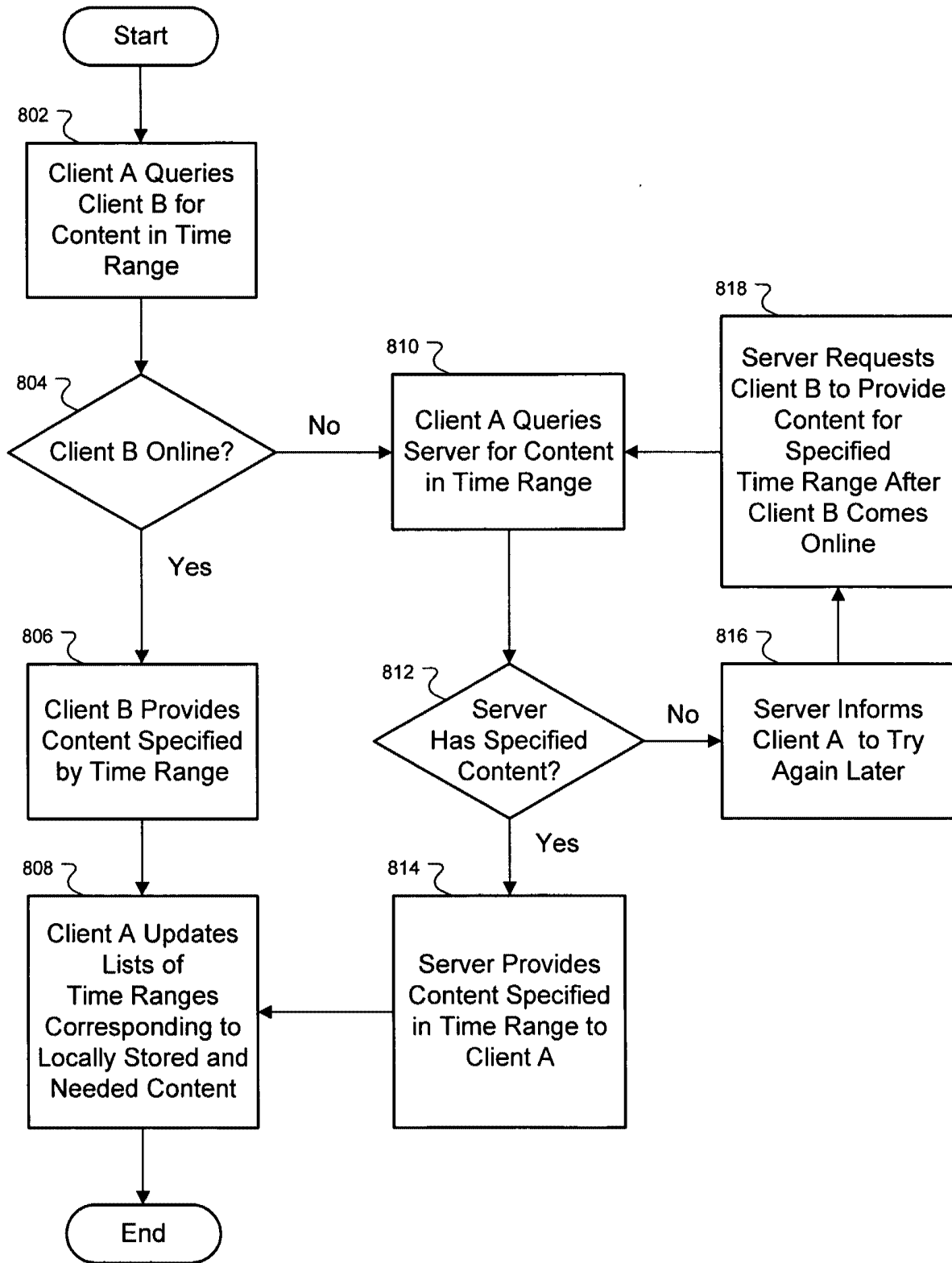


FIG. 8

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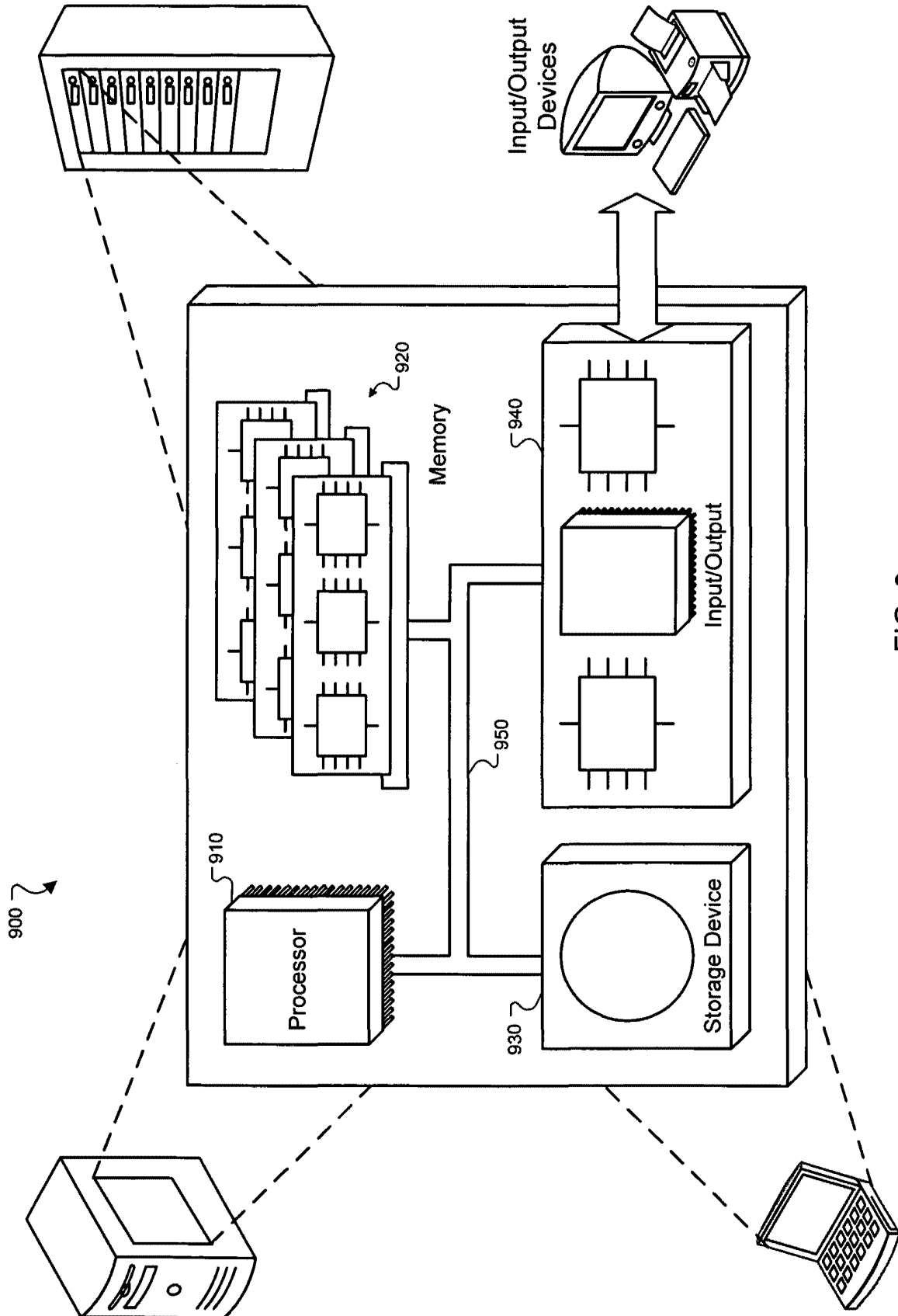


FIG. 9

**NONPUBLICATION REQUEST
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor

Sigurdsson et al.

Title

Multiple Client Search Method and System

Attorney Docket Number

16113-094001

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

Signature

Date

John A. Dragseth

42,497

Typed or printed name

Registration Number, if applicable

612/335-5070

Telephone Number

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

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PATENT APPLICATION FEE DETERMINATION RECORD					Application or Docket Number 11339301	
Substitute for Form PTO-875						
APPLICATION AS FILED – PART I15						
(Column 1)		(Column 2)		SMALL ENTITY		OR
OTHER THAN SMALL ENTITY						
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))						300
SEARCH FEE (37 CFR 1.16(k), (l), or (m))						500
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))						200
TOTAL CLAIMS (37 CFR 1.16(j))	24	4	X\$ 25=		X\$50=	200
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4	1	X\$100=		X\$200=	200
APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR				
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))						
				TOTAL		TOTAL 1400
* If the difference in column 1 is less than zero, enter "0" in column 2.						
APPLICATION AS AMENDED – PART II						
(Column 1)		(Column 2)		SMALL ENTITY		OR
OTHER THAN SMALL ENTITY						
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)
Total (37 CFR 1.16(i))	*	Minus **	=	X =		X =
Independent (37 CFR 1.16(h))	*	Minus ***	=	X =		X =
Application Size Fee (37 CFR 1.16(s))						
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
				TOTAL		TOTAL
				ADD'T FEE		ADD'T FEE
(Column 1)		(Column 2)		SMALL ENTITY		OR
OTHER THAN SMALL ENTITY						
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)
Total (37 CFR 1.16(i))	*	Minus **	=	X =		X =
Independent (37 CFR 1.16(h))	*	Minus ***	=	X =		X =
Application Size Fee (37 CFR 1.16(s))						
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
				TOTAL		TOTAL
				ADD'T FEE		ADD'T FEE
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.						

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

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

Box & Dropbox Exhibit 1017