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

28342 7590 10/31/2005

**SAMUEL A. KASSATLY LAW OFFICE
20690 VIEW OAKS WAY
SAN JOSE, CA 95120**

01/26/2006 MDANTE2 00000078 090460 10198827

01 FC:1501 1400.00 DA
02 FC:1504 300.00 DA
03 FC:8001 6.00 DA



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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/198,827	07/18/2002	Michael Alan Guest	SVL920020050US1	9986

TITLE OF INVENTION: SYSTEM AND METHOD FOR DATA RETRIEVAL AND COLLECTION IN A STRUCTURED FORMAT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	01/31/2006

EXAMINER	ART UNIT	CLASS-S UBCLASS
TO, BAOQUOC N	2162	707-204000

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

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☒ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

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

1. Samuel A. Kassatly

2. _____

3. _____

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

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

(A) NAME OF ASSIGNEE

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

International Business Machines Corporation

Armonk, New York, USA

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

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

☒ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☒ Advance Order - # of Copies 2

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 09-0460 (enclose an extra copy of this form).

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

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Date 01.21.2006

Typed or printed name

Samuel A. Kassatly

Registration No. 32,247

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

28342 7590 10/31/2005

SAMUEL A. KASSATLY LAW OFFICE
20690 VIEW OAKS WAY
SAN JOSE, CA 95120

EXAMINER

TO, BAOQUOC N

ART UNIT

PAPER NUMBER

2162

DATE MAILED: 10/31/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/198,827	07/18/2002	Michael Alan Guest	SVL920020050US1	9986

TITLE OF INVENTION: SYSTEM AND METHOD FOR DATA RETRIEVAL AND COLLECTION IN A STRUCTURED FORMAT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	01/31/2006

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

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

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

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

PART B - FEE(S) TRANSMITTAL

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

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10/198,827	07/18/2002	Michael Alan Guest	SVL920020050US1	9986

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EXAMINER	ART UNIT	CLASS-S UBCLASS
TO, BAOQUOC N	2162	707-204000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).

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1	_____
2	_____
3	_____

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(A) NAME OF ASSIGNEE

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

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

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- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
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- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/198,827	07/18/2002	Michael Alan Guest	SVL920020050US1	9986

28342 7590 10/31/2005

SAMUEL A. KASSATLY LAW OFFICE
20690 VIEW OAKS WAY
SAN JOSE, CA 95120

EXAMINER

TO, BAOQUOC N

ART UNIT

PAPER NUMBER

2162

DATE MAILED: 10/31/2005

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

The Patent Term Adjustment to date is 512 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 512 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No.

10/198,827

Examiner

Baoquoc N. To

Applicant(s)

GUEST ET AL.

Art Unit

2162

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/02/2005.
2. ☒ The allowed claim(s) is/are 1,3,4,7-11,13-17,19-21,23-25 and 31.
3. ☐ 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 the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 09/16/2005.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

JEAN W. CORRIEUS
PRIMARY EXAMINER

DETAILED ACTION

1. Claims 1, 3-4, 7-11, 13-17, 19-21, 23-25 and 31 are pending in this application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Samuel A. Kassatly Reg. No. 32,247 on 09/15/2005.

Please amend these claims as follow:

In claim 1, line 1, after A, insert --computer-implemented—,

In claim 1, line 13, delete [in which], after database, insert --where—,

In claim 1, line 22, delete [that has been],

In claim 21, line 13, delete [in which], after database insert—where--,

In claim 22, line 23, delete [that has been],

In claim 31, line 1, after A, insert --computer-implemented--,

In claim 31, line 13, delete [in which], after database, insert --where--,

In claim 31, line 22, delete [that has been].

Allowable Subject Matter

3. Claims 1, 3-4, 7-11, 13-17, 19-21, 23-25 and 31 are allowed.

As to claim 1, none of the prior art alone or in combination eight teach of suggest "automatically, selectively parsing new data elements corresponding to the at least one

Art Unit: 2162

of the parsed data elements previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by transferring the selectively parsed new data elements from the saved source locations in the source file to the saved target locations in the target database" in conjunction with "initializing a data retrieval stage by: selecting the source file; parsing the selected data elements in the source file into a list of data elements; selecting at least one of the data elements from the list to be stored in the target database; identifying source locations of the selected at least one of the data elements; selecting the target database and target locations in the target database where the at least one of the data elements is to be stored in the target database; saving the source locations and target locations of the at least one of the parsed data elements in a location file in the target database; setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file in the target database."

Claims 3-4, 7-11, 13-17 and 19-20 are depended on claim 1; therefore, they are allowed under the same reason as to claim 1.

Claim 21 is a computer program product to perform the recited method; therefore, it is allowed under the same reason as to claim 21.

Claims 23-25 are depended on claim 21; therefore, they are allowed under the same reason as to claim 21.

Claim 31 is the computer-implemented system to perform the recited method; therefore, it is rejected under the same reason as to claim 1.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patent Number:

Bergsten (US. Patent No. 6,360,306 B1) Patent date: 03/19/2002.

Zahavi et al. (US. Patent No. 6,886,020 B1) Patent date: 04/26/2005.

Houston et al. (US. Patent No. 6,778,541 B2) Patent date: 08/17/2005.

Zahavi et al. (US. Pub. No. 2005/0086646 A1) Patent date: 04/21/2005.

Reinshmidt et al. (US. Pub. No. 2002/0150041 A1) Patent date: 10/17/2002.

Chu et al. (US. Patent No. 6,493,720 B1) Patent date: 12/10/2002

NPL:

Chandramouli et al. Application of XML Tools for Enterprise-Wide RBAC

Implementation Tasks, Proceeding of the fifth ACM workshop on Role-based access control, July 2000, page 11-18.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Art Unit: 2162

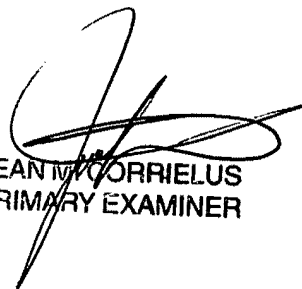
Commissioner of Patents and Trademarks
Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is
assigned are as follow:

(571) -273-8300 [Official Communication]

BQ To

Sept 16, 2005



JEAN M. CORRIELLUS
PRIMARY EXAMINER

Notice of References Cited	Application/Control No. 10/198,827	Applicant(s)/Patent Under Reexamination GUEST ET AL.	
	Examiner Baoquoc N. To	Art Unit 2162	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,360,306	03-2002	Bergsten, James R.	707/204
	B	US-6,886,020	04-2005	Zahavi et al.	707/204
	C	US-6,778,541	08-2004	Houston et al.	370/401
	D	US-2005/0086646	04-2005	Zahavi et al.	717/131
	E	US-2002/0150041	10-2002	Reinshmidt et al.	370/216
	F	US-6,493,720	12-2002	Chu et al.	707/104.1
	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	Chandramouli et a. Application of XML Tools for Enterprise-Wide RBAC Implementation Task, Proceedings of the fifth ACM workshop on Role-Based access control, July 2000, page 11-18.
	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.

Interview Summary	Application No. 10/198,827	Applicant(s) GUEST ET AL.	
	Examiner Baoquoc N. To	Art Unit 2162	

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

(1) Baoquoc N. To. (3)_____.

(2) Samuel A. Kassatly. (4)_____.

Date of Interview: 15 September 2005.

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: 1,21 and 31.

Identification of prior art discussed: _____.

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: the examiner contacts applicant representative Mr Kassatly with the propose amendment to correct 101 and 112 issues. Mr. Kassatly agrees with the proposed amendment.

(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 ONE MONTH 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.


JEAN M. CORRIELUS
PRIMARY EXAMINER

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.

Issue Classification 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	10/198,827	GUEST ET AL.	
	Examiner	Art Unit	
	Baoquoc N. To	2162	

ISSUE CLASSIFICATION										
ORIGINAL					CROSS REFERENCE(S)					
CLASS		SUBCLASS			CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
707		204			707	203	205			
INTERNATIONAL CLASSIFICATION										
G	0	6	F	17/30						
				/						
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Baoquoc N. To 09/16/2005 (Assistant Examiner) (Date)					JEAN M. CORRIELUS PRIMARY EXAMINER <i>Art Unit 2162</i>			Total Claims Allowed: 20		
<i>WMendota 9/26/05</i> (Legal Instruments Examiner) (Date)					(Primary Examiner) (Date) <i>Jean M. Corriulus 9-20-05</i>			O.G. Print Claim(s) 1		O.G. Print Fig. 5B

☐ Claims renumbered in the same order as presented by applicant										☐ CPA		☐ T.D.		☐ R.1.47		
Final	Original		Final	Original		Final	Original		Final	Original		Final	Original		Final	Original
1	1		20	31			61			121			151			181
	2			32			62			122			152			182
2	3			33			63			123			153			183
3	4			34			64			124			154			184
	5			35			65			125			155			185
	6			36			66			126			156			186
4	7			37			67			127			157			187
5	8			38			68			128			158			188
6	9			39			69			129			159			189
7	10			40			70			130			160			190
8	11			41			71			131			161			191
	12			42			72			132			162			192
9	13			43			73			133			163			193
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	27			57			87			147			177			207
	28			58			88			148			178			208
	29			59			89			149			179			209
	30			60			90			150			180			210

Index of Claims



Application/Control No.

10/198,827

Examiner

Baoquoc N. To

Applicant(s)/Patent under Reexamination

GUEST ET AL.

Art Unit

2162

√	Rejected
=	Allowed

—	(Through numeral) Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date									
Final	Original	6/16/05									
1	1	=									
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Search Notes

Application/Control No.

10/198,827

Examiner

Baoquoc N. To

Applicant(s)/Patent under
Reexamination

GUEST ET AL.

Art Unit

2162

SEARCHED

Class	Subclass	Date	Examiner
707	202	9/16/2005	BTO
707	203	9/16/2005	BTO
707	205	9/16/2005	BTO

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner
707	202	9/16/2005	BTO
707	203	9/16/2005	BTO
707	205	9/16/2005	BTO

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
Consulted with Jean Corielus, primary 707	9/15/2005	BTO
Consulted with Alford Kindred, 707	9/15/2005	BTO
EIC Search	9/16/2005	BTO
Inventor Search	9/16/2005	BTO
Updated search	9/16/2005	bto
IEEE	9/16/2005	BTO
ACM	9/16/2005	BTO



STIC Search Report

EIC 2100

STIC Database Tracking Number: 165913

TO: Baoquoc To
Location: rnd 3b31
Art Unit: 2162
Friday, September 16, 2005

Case Serial Number: 10/198827

From: Emory Damron
Location: EIC 2100
RND 4B19
Phone: 571-272-3520

Emory.Damron@uspto.gov

Search Notes

Dear Baoquoc,

Please find below the results of your fast and focused search.

References of potential pertinence have been tagged, but please review all the packets in case you like something I didn't.

Of those references which have been tagged, please note any manual highlighting which I've done within the document.

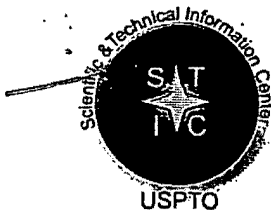
In addition to searching on Dialog, I also searched AltaVista.

There may be a few decent references contained herein, but I'll let you determine how useful they may be to you.

Please contact me if I can refocus or expand any aspect of this case, and please take a moment to provide any feedback (on the form provided) so EIC 2100 may better serve your needs. Good Luck!

Sincerely,
Emory Damron
Technical Information Specialist
EIC 2100, US Patent & Trademark Office
Phone: (571) 272-3520
Emory.damron@uspto.gov





165913

73

STIC EIC 2100 Search Request Form

Today's Date: 09/15/05

What date would you like to use to limit the search?

Priority Date: 18 July 2002 Other:

Name Dr. Bao Q. Vu
AU 2162 Examiner # 78889
Room # 3B31 Phone X4041
Serial # 10/198827

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB
IEEE INSPEC SPI Other _____

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

passed data
auto metricall transfer data on an
interval or scheduling process between
the source and target data bases

XCOPY

STIC Searcher Emily D. Amron Phone 2-3520
Date picked up 9/16/05 Date Completed 9/16/05



Set	Items	Description
S1	575468	NETWORK? OR LAN OR WAN OR NET OR NETS OR INTERNET OR WORLD- ()WIDE()WEB OR INTRANET? OR EXTRANET? OR ETHERNET?
S2	3688960	SELECT? OR CHOOS? OR EXTRACT? OR RETRIEV? OR COLLECT? OR A- MASS? OR ACCUMULAT? OR ASSEMBL? OR STOCKPIL?
S3	3143573	PARSE? OR PARSING? OR CONVERT? OR CONVERSION? OR REFORMAT? OR ALTER? OR MODIF? OR CHANGE? OR CHANGING? OR RESTRUCTUR?
S4	1896638	DATA? OR DOCUMENT? OR FILE? OR DB OR DBS OR REGISTRY? OR R- EGISTRIE?
S5	1361023	SOURCE? OR LOCAL? OR ONSITE? OR ON()SITE?
S6	559020	TARGET? OR DESTINAT? OR REMOTE? OR OFFSITE? OR OFF()SITE?
S7	4478065	SAVE? OR SAVING? OR STORE? OR STORING? OR STORAG? OR COPY? OR WRITE? OR COPIE? OR WRITING?
S8	1996859	AUTOMATIC? OR PERIODIC? OR TIMELY? OR REGULARLY? OR REGULA- R()BASIS? OR SCHEDUL? OR CALENDAR? OR FREQUEN?
S9	243323	DAILY? OR TIME(2N)TIME OR RECURR? OR ROUTIN? OR WEEKLY? OR HOURLY OR YEARLY OR INTERMITTENT? OR (EACH OR EVERY) ()DAY
S10	74392	(TIME? OR TEMPORAL? OR CLOCK?) (3N)INTERVAL?
S11	3192893	TRANSFER? OR TRANSMI? OR SEND? OR SENT? OR DISPATCH? OR IM- PORT? OR EXPORT? OR MIGRAT?
S12	99301	ASSIGN? OR RELOCAT?
S13	1239970	IC=G06F?
S14	929568	MC=T01?
S15	178665	DEDICATED? OR DESIGNAT?
S16	19610	S1 AND S3(5N)S4
S17	53	S16 AND (S6 OR S15) AND S8 AND S9:S10
S18	53	S17 AND (S11:S12 OR S7 OR S5 OR S2 OR S13:S14)
S19	53	S17:S18
S20	789539	PR=2003:2005
S21	49	S19 NOT S20
S22	49	IDPAT (sorted in duplicate/non-duplicate order)
S23	2141913	RELATED? OR ASSOCIAT? OR CORRELAT? OR CORRESPOND? OR MATCH?
S24	3168	S23(5N)S4 AND S16
S25	69749	(PREVIOUS? OR BEFORE?) (3N) (S2 OR S7)
S26	124	S25(5N)S4 AND S16
S27	3258	S24 OR S26
S28	136	S27 AND (S6 OR S15) AND S5
S29	3	S28 AND S8 AND S9:S10
S30	0	S29 NOT S19
S31	35	S27 AND S8 AND S9:S10
S32	27	S31 NOT S19
S33	24	S32 NOT S20
S34	24	IDPAT (sorted in duplicate/non-duplicate order)
S35	12954	S16 AND S13:S14
S36	100	S35 AND S8 AND S9:S10
S37	45	S36 NOT (S19 OR S31 OR S20)
S38	45	IDPAT (sorted in duplicate/non-duplicate order)
S39	376	S16 AND PARS?(2N)S4
S40	3	S39 AND S8(7N)S9:S10
S41	3	IDPAT (sorted in duplicate/non-duplicate order)

File 347:JAPIO Nov 1976-2005/Apr(Updated 050801)
(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200558
(c) 2005 Thomson Derwent

22/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

017007549 **Image available**
WPI Acc No: 2005-331866/200534
Related WPI Acc No: 2003-776276; 2005-329684
XRPX Acc No: N05-271570

Apparatus for managing and archiving performance information relating to network storage system, issues commands to storage system performance information collection agent according to user defined policy

Patent Assignee: ARNAN R (ARNA-I); SAPIRO L W (SAPI-I); THAMMAVONG S (THAM-I); ZAHAVI W (ZAHA-I)

Inventor: ARNAN R; SAPIRO L W; THAMMAVONG S; ZAHAVI W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050086646	A1	20050421	US 2000641227	A	20000817	200534 B
			US 2004981885	A	20041105	

Priority Applications (No Type Date): US 2000641227 A 20000817; US 2004981885 A 20041105

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20050086646	A1	22	G06F-009/44	Cont of application US 2000641227

Apparatus for managing and archiving performance information relating to network storage system, issues commands to storage system performance information collection agent according to user defined policy

Abstract (Basic):

... A command and control mechanism issues commands to a **storage** system performance information **collection** agent, according to the user defined policy. A **data** manager performs computation and **conversion** of the performance information to generate computer metrics and converted metrics.

... also included for method for managing and archiving metrics relating to operation and performance of **storage** system...

...For managing and archiving performance information relating to **network storage** system such as disk **storage** system connected to **network** such as **local area network (LAN)**, wide area **network (WAN)**.

...The user defined policy allows the user to specify data **collection** time periods, thereby permits **designation** of **time intervals** for **collection** consistent with business work **schedules**.

...The figure shows a state diagram illustrating states in **collection** management

...Title Terms: **NETWORK** ;

International Patent Class (Main): **G06F-009/44**

Manual Codes (EPI/S-X): **T01-C01A** ...

... **T01-D02** ...

... **T01-G05C** ...

SEE
RELATED
DOCUMENTS
BENEATH

... T01-J05B2 ...

... T01-J12A



US 20050086646A1

(19) **United States**(12) **Patent Application Publication**

Zahavi et al.

(10) Pub. No.: **US 2005/0086646 A1**(43) Pub. Date: **Apr. 21, 2005**

(54) **METHOD AND APPARATUS FOR
MANAGING AND ARCHIVING
PERFORMANCE INFORMATION RELATING
TO STORAGE SYSTEM**

(52) U.S. Cl. 717/131; 717/132; 717/124

(76) Inventors: **William Zahavi**, Westborough, MA
(US); **Lee W. Sapiro**, Hudson, MA
(US); **Saymai Thammavong**,
Marlborough, MA (US); **Ron Arnan**,
Brookline, MA (US)

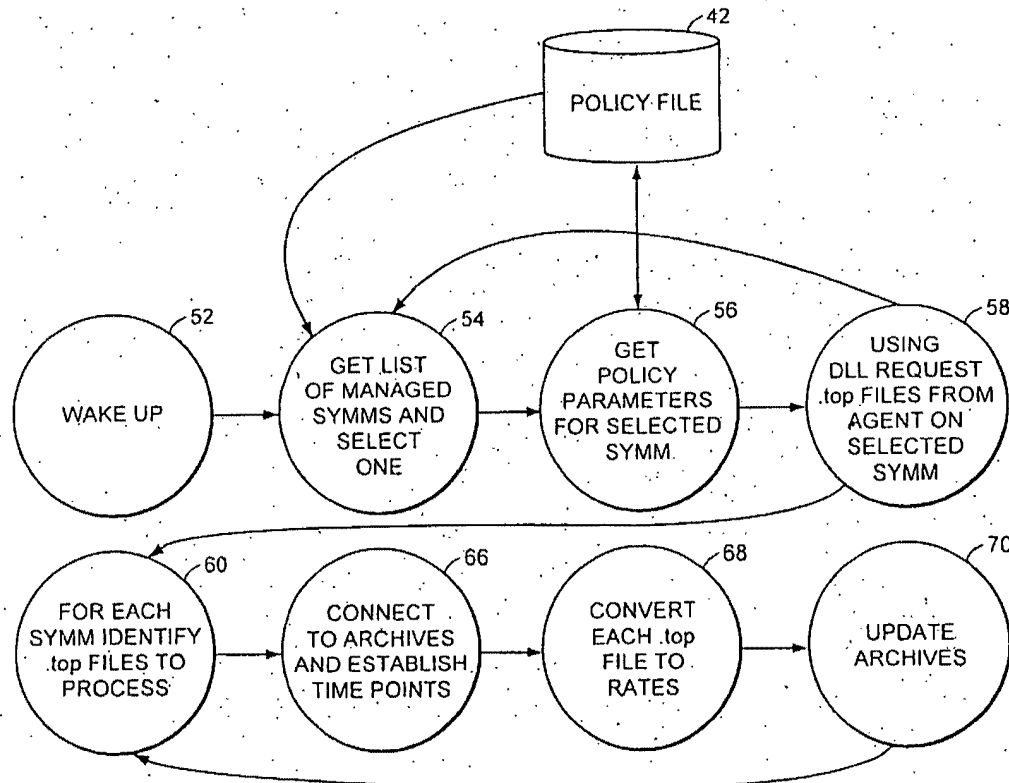
(57) **ABSTRACT**

A data management and archive method and apparatus, such as for implementation in an automated system to monitor and manage status, performance and configuration data for a plurality of networked storage components. Analysis and cross-correlation of data related to the plurality of storage components can be done individually, collectively and/or comparatively. A collection manager component of a workload analyzer is implemented to start and stop data collection in the context of a system comprising at least one storage component (or at least two networked storage components). The collection manager includes a command and control module that coordinates requests of data from at least one collection agent configured on at least one host connected to the storage component(s). The collection manager manages collection of data and effects file transfer of collected data according to a user specified policy, and maintains status of the data collected. The user specified policy allows the user to specify data collection "shifts" (i.e. periodicity).

Correspondence Address:

**BROWN, RUDNICK, BERLACK & ISRAELS,
LLP.****BOX 1P, 18TH FLOOR
ONE FINANCIAL CENTER
BOSTON, MA 02111 (US)**(21) Appl. No.: **10/981,885**(22) Filed: **Nov. 5, 2004****Related U.S. Application Data**

(63) Continuation of application No. 09/641,227, filed on
Aug. 17, 2000.

Publication Classification(51) Int. Cl.⁷ **G06F 9/44**



US006886020B1

(12) **United States Patent**
Zahavi et al.

(10) Patent No.: **US 6,886,020 B1**
(45) Date of Patent: **Apr. 26, 2005**

(54) **METHOD AND APPARATUS FOR STORAGE
SYSTEM METRICS MANAGEMENT AND
ARCHIVE**

6,490,598 B1 * 12/2002 Taylor 707/204
6,546,457 B1 * 4/2003 Don et al. 711/114

FOREIGN PATENT DOCUMENTS

EP 0735760 * 2/1996 7/173
EP 0722236 A2 * 7/1996 9/8
WO WO 99/50765 * 10/1999 17/30
WO WO00/19337 * 4/2000 17/30

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EMC Corporation, "EMC ControlCenter Workload Analyzer Product Guide," Version 4.3, pp. 1-240 (Jun. 2001), Rev. C.

* cited by examiner

Primary Examiner—Srirama Channavajjala

(74) *Attorney, Agent, or Firm*—Brian L. Michaelis; Joseph P. Quinn; Brown Rudnick Berlack Israels LLP

(57) **ABSTRACT**

A data management and archive method and apparatus, such as for implementation in an automated system to monitor and manage status, performance and configuration data for a plurality of networked storage components. Analysis and cross-correlation of data related to the plurality of storage components can be done individually, collectively and/or comparatively. A collection manager component of a workload analyzer is implemented to start and stop data collection in the context of a system comprising at least one storage component (or at least two networked storage components). The collection manager includes a command and control module that coordinates requests of data from at least one collection agent configured on at least one host connected to the storage component(s).

23 Claims, 13 Drawing Sheets

(75) Inventors: William Zahavi, Westborough, MA (US); Lee W. Sapiro, Hudson, MA (US); Saymai Thammavong, Marlborough, MA (US); Ron Arnan, Brookline, MA (US)

(73) Assignee: EMC Corporation, Hopkinton, MA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 646 days.

(21) Appl. No.: 09/641,227

(22) Filed: Aug. 17, 2000

(51) Int. Cl.⁷ G06F 17/30

(52) U.S. Cl. 707/204; 711/161

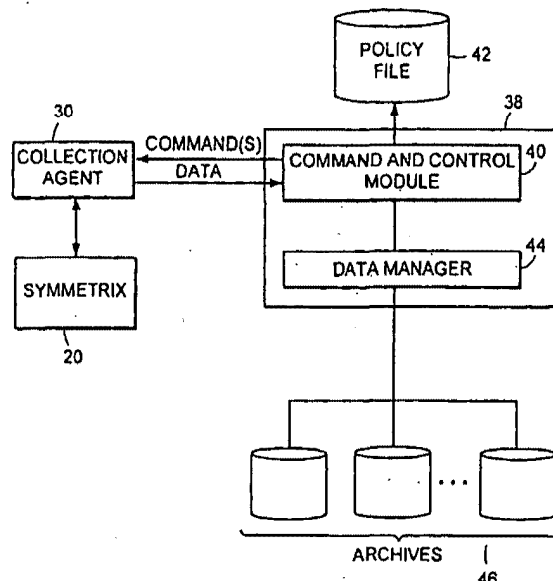
(58) Field of Search 707/1-10, 100-104.1, 707/200-206; 711/1-10, 160-175, 110-118, 150-155; 714/1, 6, 13, 7; 709/220-228

(56) **References Cited**

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5,615,364 A * 3/1997 Marks 707/202
5,974,457 A * 10/1999 Waclawsky et al. 709/224
6,070,160 A * 5/2000 Geary 707/4
6,078,933 A * 6/2000 Szalwinski 707/204
6,189,080 B1 * 2/2001 Ofer 711/167
6,487,561 B1 * 11/2002 Ofek et al. 707/204
6,490,597 B1 * 12/2002 Singh et al. 707/204

COLLECTION OF MGR BLOCK DIAGRAM



22/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015137671 **Image available**
WPI Acc No: 2003-198197/200319
XRPX Acc No: N03-157463

Data packet transmission quality control method involves processing modified header at each node in optimal path selected by periodically transmission of test packets and accordingly transmits data packet to destination

Patent Assignee: ONETIER COMMUNICATIONS INC (ONET-N)

Inventor: REINSHMIDT M M; ZUR I

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020150041	A1	20021017	US 200291590	A	20020307	200319 B

Priority Applications (No Type Date): IL 141855 A 20010307

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020150041	A1	29	H04J-001/16	

Data packet transmission quality control method involves processing modified header at each node in optimal path selected by periodically transmission of test packets and accordingly transmits data packet to destination

Abstract (Basic):

... Test packets are **periodically** transported from **source** to **destination** nodes based on which an optimal path is **selected**. A modified header containing addresses of all the intermediate nodes along optimal path is generated for each **data** packet. The **modified** header is processed at each intermediate node to acquire address of next intermediate node and accordingly **transmits** data packet to **destination**.

... An INDEPENDENT CLAIM is included for data **network**.

...

...For improving quality during **transmission** of **selected** data packets through **network** (claimed...

...By **transmitting** test packets prior to that of original **data** packets and using a **modified** header which is processed at each intermediate node for subsequent **transmission**, the data packets are **transmitted** efficiently without any delay and packet loss, thereby the throughput is increased and **transmission** cost is reduced...

...The figure shows a schematic view of the data packet **routing** system

...Title Terms: **TRANSMISSION**;

Manual Codes (EPI/S-X): **T01-N02A3B** ...



US 20020150041A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0150041 A1**
Reinshmidt et al. (43) **Pub. Date: Oct. 17, 2002**(54) **METHOD AND SYSTEM FOR PROVIDING
AN IMPROVED QUALITY OF SERVICE FOR
DATA TRANSPORTATION OVER THE
INTERNET**(75) **Inventors: Mendel Menachem Reinshmidt, Ra'
anana (IL); Ithak Zur, Ra'anana (IL)**

Correspondence Address:
BROWDY AND NEIMARK, P.L.L.C.
624 NINTH STREET, NW
SUITE 300
WASHINGTON, DC 20001-5303 (US)

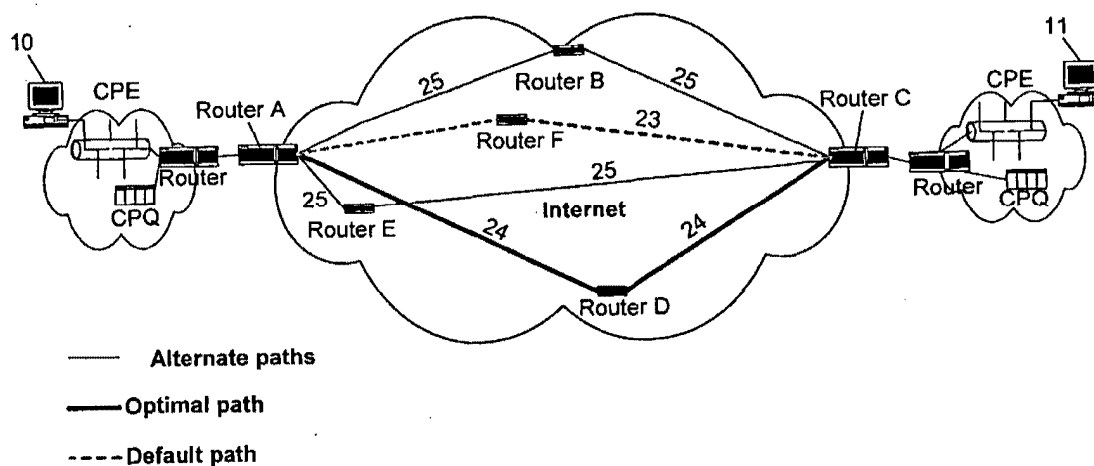
(73) **Assignee: ONETIER COMMUNICATIONS,
INC., Wilmington, DE**(21) **Appl. No.: 10/091,590**(22) **Filed: Mar. 7, 2002**(30) **Foreign Application Priority Data**

Mar. 7, 2001 (IL) 141855

Publication Classification(51) **Int. Cl.⁷ H04J 1/16; H04L 1/00**(52) **U.S. Cl. 370/216; 370/389; 370/229**(57) **ABSTRACT**

Method and system for improving the quality of transportation of selected data packets over a data network. Selected nodes are determined as access points to the data network, such that each node may be a source node from which the selected data packets can be transmitted, or a destination

node to which the selected data packets can be intended. One or more intermediate nodes are selected, for generating a plurality of alternative paths between the source node and the destination node. Each of the alternative paths consists of segments and includes one or more intermediate nodes for routing the selected data packets. The packet transportation parameters are periodically tested in the segments of each preselected path, each time by sending a plurality of test packets from the source node to the destination node, along the preselected paths defined by different intermediate nodes, the addresses of which are known to the source node. One or more optimal paths, being selected from the alternative paths are defined, for delivering the selected data packets from the source node to the destination node according to the tested transportation parameters. Optimal paths may also be defined according to predefined parameters characterizing the segments by selecting a combination of segments, connected to nodes, and having the optimal tested transportation parameters and/or predefined parameters, that connects the source node to the destination node. A modified header containing a single address or sequence of consecutive addresses that correspond to consecutive nodes along an optimal path, is generated for each selected data packet, and attached to the selected data packet. Each selected test/data packet is forwarded from the source node to the destination node along the optimal path(s), while at each intermediate node, along the optimal path, starting from the source, the modified header is processed and the address that corresponds to the next consecutive intermediate node is extracted. The selected data packet is forwarded from the intermediate node to its consecutive intermediate node using the extracted address. This process is repeated for all intermediate nodes until the destination node, at which the modified header is removing from the selected data packet and, whenever desired, its original header is used.



22/3,K/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014581607 **Image available**

WPI Acc No: 2002-402311/200243

Related WPI Acc No: 1998-542890; 2001-528895; 2002-360296; 2002-424609

XRPX Acc No: N02-315453

Data back-up method e.g. in airline reservation, involves re-establishing set of copies in storage device when the storage device is transported and connected to controller at remote location

Patent Assignee: LSI LOGIC CORP (LSIL-N)

Inventor: BERGSTEN J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6360306	B1	20020319	US 97828888	A	19970331	200243 B
			US 99231236	A	19990115	

Priority Applications (No Type Date): US 99231236 A 19990115; US 97828888 A 19970331

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6360306	B1	38	G06F-012/00	CIP of application US 97828888
				CIP of patent US 6073209

Data back-up method e.g. in airline reservation, involves re-establishing set of copies in storage device when the storage device is transported and connected to controller at remote location

Abstract (Basic):

... A unique identifier is **transmitted** to primary controller when a **storage** device under the primary controller is transported to a secondary **remote** controller. The **data** representing **changes** of **stored data** is **transmitted** by the primary controller to the secondary controller on receiving the identifier. The set of **copies** in the transported **storage** device. is re-established using the **changed data**.

... c) **Storage** controller operating method...

...d) **Storage** controller...

...For controlling data **transfers** for back-up in distributed processing system (claimed), for applications such as airline reservation, bank account management, electronic fund **transfer**, shipping and receiving, inventory control...

...The **storage** controller ensures protection of data against losses and damage. **Stores** multiple back-up **copies** of data in geographically separate locations and enables quick and easy access of the back-up **copy** by the host computer. The **storage** controller **automatically** detects and corrects errors in **stored data** and **automatically** replaces faulty **copies**. The **storage** controller is not dependent on any particular hardware or software configuration system which it services or mass **storage** devices which it accesses...

...The figure shows the flow diagram explaining **routine** for creating set of **copies** of data at a **remote** location in the **network**.

...Title Terms: **COPY**;

International Patent Class (Main): **G06F-012/00**

Manual Codes (EPI/S-X): T01-F05E ...

... T01-H01C3 ...

... T01-N01A1



US006360306B1

(12) **United States Patent**
Bergsten

(10) Patent No.: **US 6,360,306 B1**
(45) Date of Patent: **Mar. 19, 2002**

(54) **RELOCATION OF SUSPENDED DATA TO A
REMOTE SITE IN A DISTRIBUTED
STORAGE SYSTEM**

(75) Inventor: **James R. Bergsten, Saratoga, CA (US)**

(73) Assignee: **LSI Logic Corporation, Milpitas, CA
(US)**

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/231,236**

(22) Filed: **Jan. 15, 1999**

Related U.S. Application Data

(63) Continuation-in-part of application No. 08/828,888, filed on
Mar. 31, 1997, now Pat. No. 6,073,209.

(51) Int. Cl.⁷ **G06F 12/00**

(52) U.S. Cl. **711/162; 711/161; 714/6;
707/204**

(58) Field of Search **711/161-162, 113;
707/204; 714/6, 20, 710**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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5,720,029 A * 2/1998 Kern et al. 714/20
5,742,792 A * 4/1998 Yanai et al. 711/162
5,761,705 A * 6/1998 DeKoning et al. 711/113
5,857,208 A * 1/1999 Ofek 707/204

5,928,367 A * 7/1999 Nelson et al. 714/6

* cited by examiner

Primary Examiner—Do Hyun Yoo

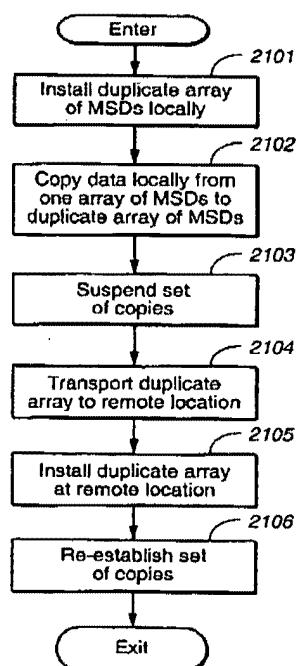
Assistant Examiner—Nasser Moazzami

(74) *Attorney, Agent, or Firm*—Blakely, Sokoloff Taylor &
Zafman

(57) **ABSTRACT**

A network comprises at least one host processing system, a number of storage controllers, each coupled to one of a plurality of storage arrays, each storage array including at least one mass storage device. Each storage controller may be coupled to at least one host processing system and to at least one other storage controller to control access of the host processing systems to the mass storage devices. Multiple copies of data are maintained in storage arrays that are geographically remote to each other, such that any copy can be accessed by any host. Each storage controller includes an interface with a host that emulates a mass storage device and an interface with a local storage array that emulates a host. The interfaces to the host and local storage arrays are independent of the type of host or devices in the local storage array. Two or more hosts may be dissimilar to each other, and two or more storage arrays may include dissimilar mass storage devices. Hosts access stored data using virtual addressing. During a data access, the storage controller connected to the accessing host maps a virtual address provided by the host to a real physical location in any of the storage arrays, such that the actual location of the data is transparent to the host. The storage controllers provide automatic back-up and error correction as well as write protection of back-up copies.

12 Claims, 24 Drawing Sheets



22/3,K/36 (Item 36 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011672307 **Image available**
WPI Acc No: 1998-089216/199809
XRPX Acc No: N98-070831

Signal routing for multi-mode radio data communications between
wireless networks and fixed device - using protocol converter and
router, with latter locating destination device and converting data
to usable format upon receiving packet data before transmitting to

correct network

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE)
Inventor: BARZEGAR F; CHANG C; CHOW A; DURANT G M; HSU D K; HUANG K X;
RUSSELL J E; SCHROEDER R E; HUANG X
Number of Countries: 028 Number of Patents: 008
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 821507	A2	19980128	EP 97305272	A	19970715	199809 B
JP 10091551	A	19980410	JP 97198878	A	19970724	199825
CA 2206988	A	19980124	CA 2206988	A	19970604	199827
KR 98013156	A	19980430	KR 9734741	A	19970724	199917 N
US 5894478	A	19990413	US 96690269	A	19960724	199922
MX 9705384	A1	19980101	MX 975384	A	19970716	199952
CA 2206988	C	20010327	CA 2206988	A	19970604	200122
KR 274295	B	20001215	KR 9734741	A	19970724	200174

Priority Applications (No Type Date): US 96690269 A 19960724; KR 9734741 A
19970724

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 821507	A2	E	9 H04L-012/28	
Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI				
JP 10091551	A		11 G06F-013/00	
CA 2206988	A		H04L-029/06	
KR 98013156	A		H04L-012/66	
US 5894478	A		H04J-003/22	
MX 9705384	A1		H04M-001/00	
CA 2206988	C	E	H04L-029/06	
KR 274295	B		H04L-012/66	Previous Publ. patent KR 98013156

Signal routing for multi-mode radio data communications between
wireless networks and fixed device...

...using protocol converter and router, with latter locating destination
device and converting data to usable format upon receiving packet
data before transmitting to correct network

...Abstract (Basic): The method for enabling end-to-end wireless data
communications over a number of radio data networks involves
converting outbound data messages from the communications device by
a protocol converter to a network protocol of one of the radio data
networks used for transmission to the second communications device.
The outbound data messages are transmitted from the protocol
converter to one of the radio communications devices presently being
used...

...data messages to a radio communications device are converted by the

protocol converter to the **network** protocol presently being used by the wireless communication device. The inbound data messages are **transmitted** to the wireless communications device which has an end processor which is adapted to utilises...

...adapted to couple the protocol converter. The latter is also coupled to a number of **network** radio **frequency** modems from which the outbound data messages are **transmitted** or at which the incoming messages are received...

...ADVANTAGE - Enables operation across several wireless **networks** by one mobile end-user...

...Title Terms: **NETWORK** ;

International Patent Class (Main): **G06F-013/00** ...



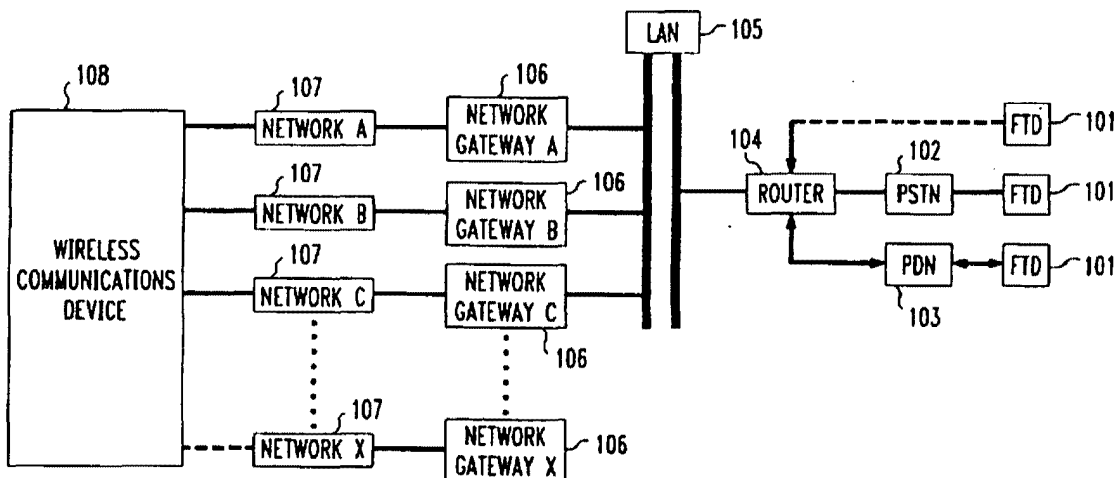
US005894478A

United States Patent [19][11] **Patent Number:** 5,894,478**Barzegar et al.**[45] **Date of Patent:** Apr. 13, 1999[54] **PROTOCOL CONVERTER AND ROUTER
FOR MULTI-MODE WIRELESS DATA
COMMUNICATIONS**5,471,471 11/1995 Freeburg et al. 370/466
5,608,720 3/1997 Biegel et al. 370/249[75] **Inventors:** Farhad Barzegar, Hillsborough;
Chi-Hwey Chang, Lincoln Park;
Albert Chow, Hillsdale; Gregory M.
Durant, Plainfield; Danny K. Hsu,
Morristown; Xiaojian Huang,
Somerset; Jesse Eugene Russell,
Piscataway; Robert Edward
Schroeder, Morris, all of N.J.*Primary Examiner*—Dang Ton[57] **ABSTRACT**

The present invention encompasses an apparatus and method for supporting multiple wireless data communication networks between a wireless communications device and a fixed communications device or another wireless communications device. Two network elements compose the physical apparatus, a protocol converter and a router. Upon receiving packet data from a fixed communications device, a router will locate a destination wireless communications device. The router will then convert the packet data to a format usable by the wireless data network that the wireless communications device is currently using for wireless access. After conversion, the router will perform actual transmission of the packet data to the correct destination wireless network. Once the converted packet data is received by the wireless network base station, it will be transmitted via RF to the destination wireless communications device. The router will also perform reverse functions of receiving packet data from a wireless communications device across wireless data network and then perform necessary conversion to a format usable by fixed communications device. The router will then perform actual transmission of the converted packet data to the fixed communications device.

[73] **Assignee:** Lucent Technologies Inc., Murray Hill,
N.J.[21] **Appl. No.:** 08/690,269[22] **Filed:** Jul. 24, 1996[51] **Int. CL⁶** H04J 3/22; H04J 3/16[52] **U.S. Cl.** 370/401; 370/466[58] **Field of Search** 370/400, 401,
370/402, 405, 406, 464, 465, 466, 389,
404, 408, 407, 467, 469; 455/33.1[56] **References Cited****U.S. PATENT DOCUMENTS**

5,428,771 6/1995 Daniels et al. 370/466

35 Claims, 2 Drawing Sheets

34/3,K/21 (Item 21 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008151626 **Image available**
WPI Acc No: 1990-038627/199006
XRPX Acc No: N90-029767

Transferring data in token ring network - storing packet data in buffer memory while generating status information then storing status information contiguous to packet data

Patent Assignee: ADVANCED MICRO DEVICES INC (ADMI)

Inventor: NGUYEN H D

Number of Countries: 015 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 353927	A	19900207	EP 89307532	A	19890725	199006 B
US 4914652	A	19900403	US 88226610	A	19880801	199019
JP 2100439	A	19900412	JP 89200179	A	19890731	199021
EP 353927	A3	19920527	EP 89307532	A	19890725	199331
EP 353927	B1	19960918	EP 89307532	A	19890725	199642
DE 68927214	E	19961024	DE 627214	A	19890725	199648
			EP 89307532	A	19890725	

Priority Applications (No Type Date): US 88226610 A 19880801

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 353927 A E 17

EP 353927 B1 E 20 H04L-012/42

Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE

DE 68927214 E H04L-012/42 Based on patent EP 353927

Transferring data in token ring network -

...Abstract (Basic): The Token ring **network** includes stations (20) serially connected by a transmission medium so as to form a closed loop on which packets of data are circulated. Each station of the **network** includes a media access controller for **scheduling** and **routing** data transmission on the transmission medium. Each station also has a buffer memory and a...

... **Alternatively**, several packets of **data** are stored in a buffer memory. The media access controller is requested to accept a...

...at beginning of a packet of data stored in the memory buffer despite fact that **data** in packet was **stored before** status information complete. Facilitates use buffer memory as FIFO. Permits media access controller to know

...Abstract (Equivalent): A method for use in a Token ring **network** including a plurality of stations (S1-Sn) serially connected by a transmission medium (24) so...

...of data are circulated, wherein each respective station includes media access controller means (32) for **scheduling** and **routing** data transmissions on the transmission medium, buffer memory means (38) for storage of information and...

...Abstract (Equivalent): The method is used in a Token ring **network** including several stations serially connected by a transmission medium to form a closed loop on...

...Title Terms: **NETWORK** ;

[54] METHOD FOR TRANSFER OF DATA
BETWEEN A MEDIA ACCESS
CONTROLLER AND BUFFER MEMORY IN
A TOKEN RING NETWORK

[75] Inventor: Hang Diem Nguyen, Fremont, Calif.

[73] Assignee: Advanced Micro Devices, Inc.,
Sunnyvale, Calif.

[21] Appl. No.: 226,610

[22] Filed: Aug. 1, 1988

[51] Int. Cl.⁴ H04J 3/02

[52] U.S. Cl. 370/85.5

[58] Field of Search 370/85, 86, 94, 60,
370/89, 85.4, 85.5, 94.1; 340/825.05, 825.5

[56] References Cited

U.S. PATENT DOCUMENTS

4,652,874 3/1987 Loyer 370/86

Primary Examiner—Robert L. Griffin

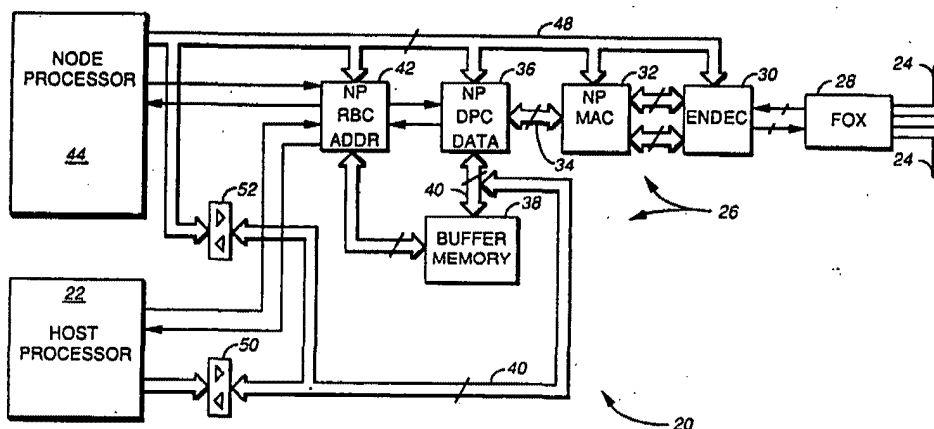
Assistant Examiner—Chin Wellington

Attorney, Agent, or Firm—Fliesler, Dubb, Meyer &
Lovejoy

[57] ABSTRACT

A method is provided for use in a Token ring network including a plurality of stations serially connected by a transmission medium so as to form a closed loop on which packets of data are circulated, wherein each respective station includes a media access controller and a buffer memory, the method including the steps of transferring data of a respective packet from a media access controller to a buffer memory; storing the data in a sequence of contiguous memory locations in the buffer memory; in the course of the step of transferring the data, generating status information for the data; after said step of storing the data, storing the status information in the buffer memory contiguously with the stored data at the beginning of the sequence of memory locations in which the data are stored.

12 Claims, 7 Drawing Sheets



38/3,K/23 (Item 23 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014753172 **Image available**
WPI Acc No: 2002-573876/200261
XRPX Acc No: N02-454770

Network element for open system interconnection network , updates
directory of identifiers of other network elements based on received
routing data packet containing information about identifiers
Patent Assignee: CHRISTIAN P (CHRI-I); FEE P (FEPP-I); HOUSTON A (HOUS-I);
MURTON C (MURT-I); TEMPEST E (TEMP-I); NORTEL NETWORKS LTD (NELE)
Inventor: CHRISTIAN P; FEE P; HOUSTON A; MURTON C; TEMPEST E
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 20020067731 A1 20020606 US 2000727644 A 20001201 200261 B
US 6778541 B2 20040817 US 2000727644 A 20001201 200454

Priority Applications (No Type Date): US 2000727644 A 20001201
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020067731	A1	20	H04L-012/56	
US 6778541	B2		H04L-012/56	

Network element for open system interconnection network , updates
directory of identifiers of other network elements based on received
routing data packet containing information about identifiers

Abstract (Basic):

... Each network elements (12,14,16,18) update the directory of
identifiers of other network elements based on routing data packet
containing information about identifiers from other network elements.
... 1) Network ;
(...

... Network element for open system interconnection (OSI) network , data
communication network such as synchronous digital hierarchy network
or synchronous optical network and Internet protocol network .
...

...Updates the directory automatically to reflect changes in the
network , creates dynamic data tunnels across the network , and
reduces the need for manual tunnel configuration in the network .
...

...The figure shows the schematic diagram of the data communication
network including network elements...

... Network elements (12,14,16,18

Technology Focus:

... OSI network layer implements the connectionless mode network
service protocol as defined in ISO 8473-1 or other suitable protocol.
The OSI transport...

...in ISO 8602. The OSI data link layer implements ITU-T Q.921 ISDN user
network interface data link layer specification.

Title Terms: NETWORK ;

Manual Codes (EPI/S-X): T01-N01D ...

... T01-N02A3B....

... T01-S03



US006778541B2

(12) **United States Patent**
Houston et al.

(10) Patent No.: **US 6,778,541 B2**
(45) Date of Patent: **Aug. 17, 2004**

(54) **DYNAMIC DATA TUNNELLING**

(75) Inventors: **Allen Houston, Ballyclare (GB); Paul Fee, Belfast (GB); Christopher Murton, Chelmsford (GB); Ewart Tempest, Ottawa (CA); Philip Christian, Bishop's Stortford (GB)**

(73) Assignee: **Nortel Networks Limited, St. Laurent (CA)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 785 days.

(21) Appl. No.: **09/727,644**

(22) Filed: **Dec. 1, 2000**

(65) **Prior Publication Data**

US 2002/0067731 A1 Jun. 6, 2002

(51) Int. Cl.⁷ **H04L 12/56**

(52) U.S. Cl. **370/401; 370/466**

(58) Field of Search **370/400, 401, 370/466, 389, 392, 467**

(56) **References Cited**

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5,796,736 A * 8/1998 Suzuki 370/254
6,597,704 B1 * 7/2003 Wong 370/466

* cited by examiner

Primary Examiner—Chau Nguyen

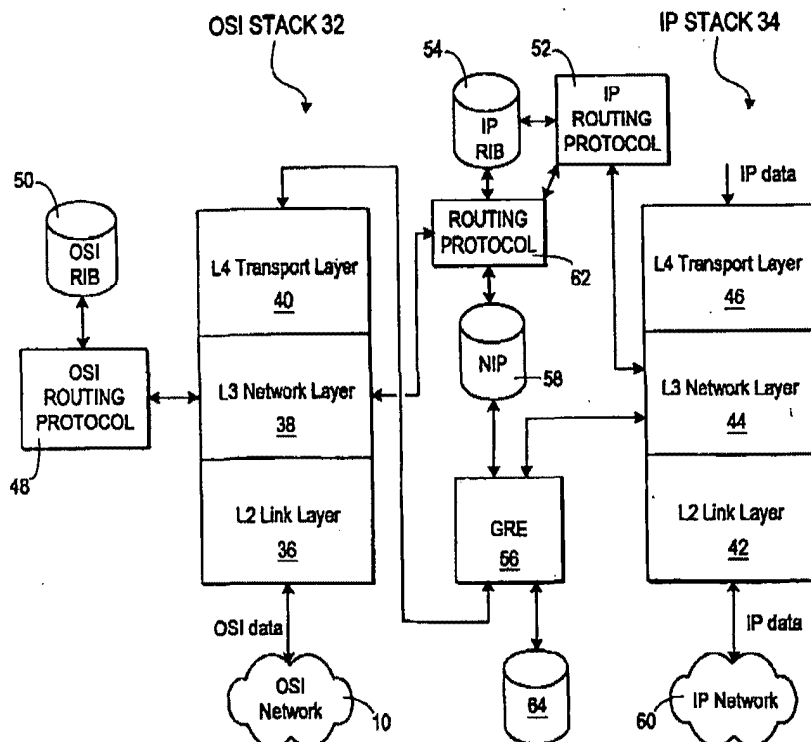
Assistant Examiner—Christine Ng

(74) Attorney, Agent, or Firm—Barnes & Thornburg

(57) **ABSTRACT**

The present invention relates to data tunnelling and in one embodiment to the tunnelling of IP (Internet Protocol) data across an OSI (Open Systems Interconnect) network. In the preferred embodiment, network elements include both an OSI stack and an IP stack, and a respective directory of OSI addresses and corresponding IP subnets. Each network element generates a routing data packet, conveniently a Link State Packet (LSP), which includes the OSI address and IP subnet(s) associated with that network element. The LSPs are distributed across the network in normal manner. Upon receipt of an LSP from another network element, each network element updates its respective directory in respect of said other network element. Thus, each directory is automatically updated to reflect changes in the network, particularly in respect of IP subnets. This arrangement significantly reduces the need for manual tunnel configuration in the network. In an alternative embodiment, the invention provides dynamic data tunnelling of OSI data over an IP network.

51 Claims, 9 Drawing Sheets



38/3,K/28 (Item 28 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012744511 **Image available**
WPI Acc No: 1999-550628/199946
Related WPI Acc No: 2002-689873; 2003-040043
XRPX Acc No: N99-407434

Indexing protocol determination method for partially dynamic document in information site of Internet

Patent Assignee: AT & T CORP (AMTT)
Inventor: JACOBSON G; KRISHNAMURTHY B; SRIVASTAVA D
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5956722	A	19990921	US 97935516	A	19970923	199946 B

Priority Applications (No Type Date): US 97935516 A 19970923

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5956722	A	7	G06F-012/30	

Indexing protocol determination method for partially dynamic document in information site of Internet

Abstract (Basic):

... Two copies of the document are retrieved at **time** subsequent **intervals**. The two retrieved copies are compared to identify difference in level of two copies. **Time interval** is adjusted for subsequent retrieval of document according to identified difference in level of two...

... When difference in level of two copies exceeds a predetermined threshold value, the **time interval** is reduced. When difference in level of two copies falls below a predetermined threshold value, the **time interval** is increased...

...For partially dynamic document in information site or servers in **Internet** .

...Permits indexes to glean information from **documents** which may **change frequently** , but whose unchanging portions still provide significant information to potential users. Optimizes the extent to

International Patent Class (Main): **G06F-012/30**

Manual Codes (EPI/S-X): **T01-H07C5A** ...

... **T01-H07C5E** ...

... **T01-J05B**



US005956722A

United States Patent [19]
Jacobson et al.

[11] **Patent Number:** **5,956,722**
[45] **Date of Patent:** **Sep. 21, 1999**

[54] **METHOD FOR EFFECTIVE INDEXING OF PARTIALLY DYNAMIC DOCUMENTS**

[75] **Inventors:** Guy Jacobson, Bridgewater; Balachander Krishnamurthy, Chatham; Divesh Srivastava, Summit, all of NJ.

[73] **Assignee:** AT&T Corp., New York, N.Y.

[21] **Appl. No.:** 08/935,516

[22] **Filed:** Sep. 23, 1997

[51] **Int. Cl.⁶** G06F 12/30

[52] **U.S. Cl.** 707/10; 707/1; 707/100; 707/103

[58] **Field of Search** 707/10, 103, 100, 707/1.1; 395/200

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,748,954 5/1998 Mauldin 707/10
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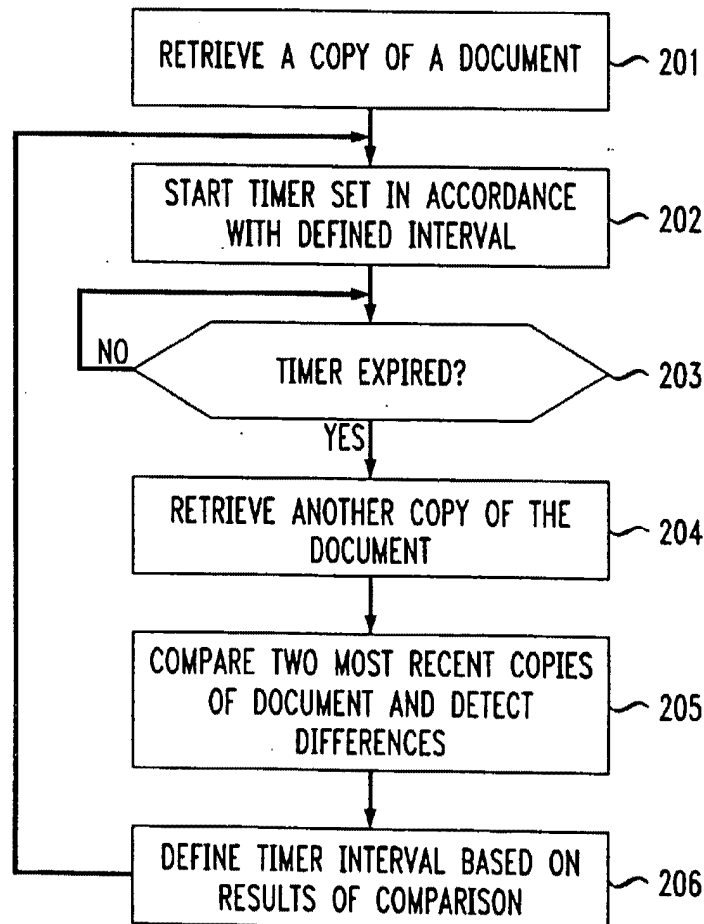
Hannon, "Startup's Caching Device Speeds Web Access (CacheFlow's CacheFlow 1000)", PC Week, vol. 15 No. 3, Jan. 19, 1998, p. 46.

Primary Examiner—Paul R. Lintz

[57] **ABSTRACT**

A method more efficiently indexes dynamic documents. The method adjusts the frequency with which dynamic documents are retrieved taking into account the extent to which the document varies between its most recent retrievals. Furthermore, the method selects portions of the document to be indexed based on the substance of the differences between recently retrieved copies.

14 Claims, 2 Drawing Sheets



38/3,K/29 (Item 29 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012495433 **Image available**
WPI Acc No: 1999-301541/199925
Related WPI Acc No: 2000-282760
XRPX Acc No: N99-225832

Automatic entry updating method for database management of automatic
teller machine, point of sale terminals

Patent Assignee: BELLSOUTH CORP (BELL-N)
Inventor: KRAUS E; SMETS R J
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5898760	A	19990427	US 97811895	A	19970305	199925 B

Priority Applications (No Type Date): US 97811895 A 19970305

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5898760	A	14	H04M-001/64	

Automatic entry updating method for database management of automatic
teller machine, point of sale terminals

Abstract (Basic):

... original, directory number is received during first call
detection. A use-by date along with **time interval** ranging from 1-14
days are equated to first date. Next call is detected on...

... For database management of **automatic** teller machine, point of
sale terminal, personal information manager, security access system,
telephone **network** based service such as caller name announcement
service...

...Maintains dynamically **changing database** by updating infrequently
used entries and maintains **frequently** used entries. Minimizes
resources required to update and maintain database. Reduces amount of
bandwidth wasted...

Title Terms: **AUTOMATIC** ;

Manual Codes (EPI/S-X): **T01-J05B4P** ...

... **T01-J20B2**



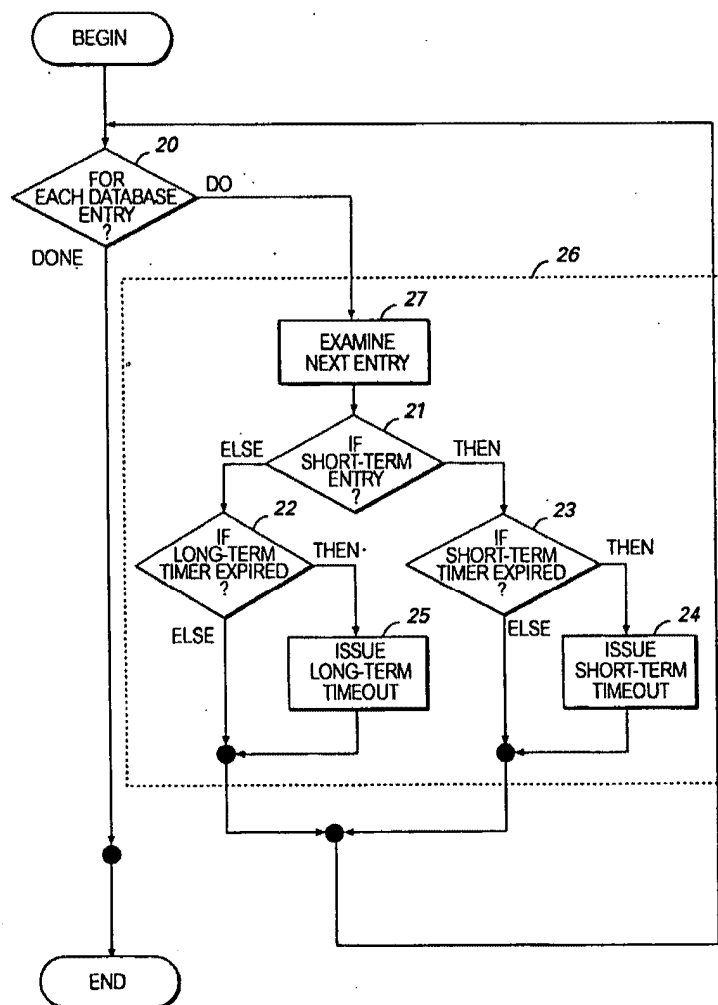
US005898760A

United States Patent [19][11] **Patent Number:** **5,898,760****Smets et al.**[45] **Date of Patent:** **Apr. 27, 1999**[54] **METHOD AND APPARATUS FOR
AUTOMATING THE MANAGEMENT OF A
DATABASE**5,740,230 4/1998 Vaudreuil 379/93.14
5,787,415 7/1998 Jacobson et al. 707/2*Primary Examiner*—Fan S. Tsang
Attorney, Agent, or Firm—Jones & Askew, LLP[75] **Inventors:** Raymond J. Smets, Alpharetta; Evan
Kraus, Atlanta, both of Ga.[57] **ABSTRACT**[73] **Assignee:** BellSouth Corporation, Atlanta, Ga.

A method and apparatus to automate the process of updating and maintaining a dynamically changing database by assigning status states to each entry within the database and operating on those entries in accordance with the status states. More specifically, when a new entry for the database is received (13) it is classified as a short-term entry (11). If the new entry is accessed (14) prior to the expiration of the short-term status (15), then the classification of the entry is changed to long-term (12). Otherwise, if the short-term status expires (15), the entry is functionally removed from the database (10). Long term entries (12) are maintained within the database for an assigned period of time which attempts to emulate the useful life of the entry. Upon expiration of a long-term status (16), the entry is functionally removed from the database (10).

[21] **Appl. No.:** 08/811,895[22] **Filed:** Mar. 5, 1997[51] **Int. Cl.⁶** H04M 1/64[52] **U.S. Cl.** 379/88.21; 379/88.25;
707/530[58] **Field of Search** 379/88.19, 88.21,
379/88.22, 88.23, 88.24, 88.25, 88.27, 142;
707/530, 540[56] **References Cited****U.S. PATENT DOCUMENTS**

5,633,923 5/1997 Kovarik 379/265

32 Claims, 5 Drawing Sheets

Set	Items	Description
S1	2984588	NETWORK? OR LAN OR WAN OR NET OR NETS OR INTERNET OR WORLD- ()WIDE()WEB OR INTRANET? OR EXTRANET? OR ETHERNET?
S2	7305971	SELECT? OR CHOOS? OR EXTRACT? OR RETRIEV? OR COLLECT? OR A- MASS? OR ACCUMULAT? OR ASSEMBL? OR STOCKPIL?
S3	9052344	PARSE? OR PARSING? OR CONVERT? OR CONVERSION? OR REFORMAT? OR ALTER? OR MODIF? OR CHANGE? OR CHANGING? OR RESTRUCTUR?
S4	2110643	SORT? OR CLASSIF? OR RANK? OR HIERARCH? OR PRIORIT?
S5	8907284	DATA? OR DOCUMENT? OR FILE? OR DB OR DBS OR REGISTRY? OR R- EGISTRIE? OR TEXT?
S6	5282800	SOURCE? OR LOCAL? OR ONSITE? OR ON()SITE? OR HOST?
S7	1949326	TARGET? OR DESTINAT? OR REMOTE? OR OFFSITE? OR OFF()SITE? - OR DESIGNAT? OR DEDICAT? OR CLIENT? OR DEDICAT? OR DESIGNAT?
S8	3377514	SAVE? OR SAVING? OR STORE? OR STORING? OR STORAG? OR COPY? OR WRITE? OR COPIE? OR WRITING? OR ARCHIV? OR RECORDING? OR B- ACKUP? OR BACK?()UP
S9	5114104	AUTOMATIC? OR PERIODIC? OR TIMELY? OR REGULARLY? OR REGULA- R()BASIS? OR SCHEDUL? OR CALENDAR? OR FREQUEN?
S10	1464007	DAILY? OR TIME(2N)TIME OR RECURR? OR ROUTIN? OR WEEKLY? OR HOURLY OR YEARLY OR INTERMITTENT? OR (EACH OR EVERY)()DAY
S11	101670	(TIME? OR TEMPORAL? OR CLOCK?)(3N)INTERVAL?
S12	7868895	TRANSFER? OR TRANSMI? OR SEND? OR SENT? OR DISPATCH? OR IM- PORT? OR EXPORT? OR MIGRAT?
S13	570875	ASSIGN? OR RELOCAT?
S14	9923095	RELATED? OR ASSOCIAT? OR CORRELAT? OR CORRESPOND? OR MATCH? OR (PREVIOUS? OR BEFORE?)(3N)(S2 OR S7)
S15	43061	S3:S4(5N)S5 AND S1
S16	99	S15 AND S9(5N)S10:S11
S17	2494	S15 AND S14(5N)S5
S18	386	S15 AND PARS?(3N)S5
S19	45	S17 AND S18
S20	2835	S17:S18
S21	87	S20 AND S6 AND S7
S22	69	S21 AND (S2 OR S8 OR S12:S13)
S23	229	S16 OR S19 OR S21:S22
S24	159	S23 AND PY<2003
S25	205	S18 AND (S2 OR S8 OR S12:S13)(5N)S5
S26	51	S18 AND S5(5N)S6:S7
S27	221	S25:S26
S28	154	S27 AND PY<2003
S29	288	S24 OR S28
S30	246	RD (unique items)
File	2:INSPEC 1969-2005/Sep W1	(c) 2005 Institution of Electrical Engineers
File	6:NTIS 1964-2005/Sep W1	(c) 2005 NTIS, Intl Cpyrght All Rights Res
File	8:EI Compendex(R) 1970-2005/Sep W1	(c) 2005 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2005/Sep W2	(c) 2005 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2005/Aug	(c) 2005 ProQuest Info&Learning
File	65:Inside Conferences 1993-2005/Sep W2	(c) 2005 BLDSC all rts. reserv.
File	94:JICST-EPlus 1985-2005/Jul W4	(c) 2005 Japan Science and Tech Corp(JST)
File	99:Wilson Appl. Sci & Tech Abs 1983-2005/Jul	(c) 2005 The HW Wilson Co.
File	111:TGG Natl.Newspaper Index(SM) 1979-2005/Sep 14	(c) 2005 The Gale Group

File 144:Pascal 1973-2005/Sep W1
 (c) 2005 INIST/CNRS
File 239:Mathsci 1940-2005/Oct
 (c) 2005 American Mathematical Society
File 256:TecInfoSource 82-2005/Sep
 (c) 2005 Info.Sources Inc

30/3,K/38 (Item 38 from file: 2)
DIALOG(R)File 2:INSPEC
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07275491 INSPEC Abstract Number: C1999-07-6160Z-020

Title: Using schema matching to simplify heterogeneous data translation

Author(s): Milo, T.; Zohar, S.
Author Affiliation: Dept. of Comput. Sci., Tel Aviv Univ., Israel
Conference Title: Proceedings of the Twenty-Fourth International Conference on Very-Large Databases p.122-33
Editor(s): Gupta, A.; Shmueli, O.; Widom, J.
Publisher: Morgan Kaufmann Publishers Inc, San Francisco, CA, USA
Publication Date: 1998 Country of Publication: USA xvii+708 pp.
ISBN: 1 55860 566 5 Material Identity Number: XX-1998-02232
Conference Title: Proceedings of 24th Annual International Conference on Very Large Data Bases (VLDB'98)
Conference Sponsor: Oracle; AT&T Lab.; IBM; Informix; Microsoft
Conference Date: 24-27 Aug. 1998 Conference Location: New York, NY, USA
Language: English
Subfile: C
Copyright 1999, IEE

Title: Using schema matching to simplify heterogeneous data translation

Abstract: A broad spectrum of data is available on the Web in distinct heterogeneous **sources**, and **stored** under different formats. As the number of systems that utilize this heterogeneous data grows, the **importance** of **data** translation and **conversion** mechanisms increases greatly. We present a new translation system, based on schema matching, aimed at simplifying the intricate task of **data conversion**. We observe that in many cases the schema of the data in the **source** system is very similar to that of the **target** system. In such cases, much of the translation work can be done automatically, based on the schemas' similarity. This **saves** a lot of effort for the user, limiting the amount of programming needed. We define...

... data (resp.) from many common models can be represented. Using a rule-based method, the **source** schema is compared with the **target** one, and each component in the **source** schema is matched with a corresponding component in the **target** schema. Then, based on the **matching** achieved, **data** instances of the **source** schema can be translated to instances of the **target** schema. We show that our schema-based translation system allows a convenient specification and customization of **data conversions**, and can be easily combined with the traditional data-based translation languages.

...Identifiers: **World Wide Web** ; ...

...heterogeneous **sources** ; ...

... **data conversion** ;
1998

30/3,K/63 (Item 63 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

04773938 INSPEC Abstract Number: B90078393, C91006311

Title: The solution to data collection

Author(s): Borysowich, L.; Pagani, C.

Journal: Telephone Engineer and Management vol.94, no.14 p.32-3

Publication Date: 15 July 1990 Country of Publication: USA

CODEN: TPMAW ISSN: 0040-263X

Language: English

Subfile: B C

Title: The solution to data collection

Abstract: The flexibility of digital telephone **networks** presents the communications industry with a potentially limitless opportunity for new Intelligent **Network** services. These new IN services are enabled by data produced in the **network** or by data bases attached to the **network**. The data produced by the **network** must be collected and distributed to operational support systems (OSSs), to Intelligent **Network** service execution environments (SEEs) or to traditional host-based systems. One solution to **network data collection** is to use a table driven **data parser** that resolves as many **network** elements data inconsistencies as possible.

...Descriptors: intelligent **networks** ; ...

...telephone **networks**

Identifiers: **data collection** ; ...

...digital telephone **networks** ; ...

...Intelligent **Network** services...

...table driven **data parser**

1990

30/3,K/64 (Item 64 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

04765141 INSPEC Abstract Number: C91005522

Title: Automatic spectral database and archive system for optical spectroscopy

Author(s): Kraus, D.J.; French, R.H.

Author Affiliation: Central Res. & Dev. Dept., E.I. du Pont de Nemours & Co., Wilmington, DE, USA

Journal: Applied Spectroscopy vol.44, no.7 p.1221-6

Publication Date: Aug. 1990 Country of Publication: USA

CODEN: APSPA4 ISSN: 0003-7028

U.S. Copyright Clearance Center Code: 0003-7028/90/4407-1221\$2.00/0

Language: English

Subfile: C

Title: Automatic spectral database and archive system for optical spectroscopy

...Abstract: possible to acquire large quantities of data with relative ease. Without a convenient method for **archiving** and accessing the **data** at a later date, a number of the capabilities inherent in these systems are unrealized. The authors have developed a generalized archival system which automatically **archives** all raw **data** and generates a rapidly searchable database of text information and spectral data for all spectroscopic...

...10/sup 5/ to 10 cm/sup -1/). The system executes on a local area **network** (**LAN**) of personal computers and consists of a customized file-naming and comment convention that organizes data by research notebooks, an integrated **data backup** routine, and a spectral **database** system. The **data backup** and spectral **database** consist of two programs: (1) a DOS level copy routine to **back up** the system and **data** to an optical **write** once/read many (WORM) drive, and (2) a spectral database program written in the LabCalc spectroscopy environment. Stored with each spectral library entry are searchable **text** fields of character **data** **parsed** from a standardized comment line which is entered prior to data acquisition. This system is...

...Identifiers: local area **network** ; ...

...integrated **data backup** routine
1990

30/3,K/66 (Item 66 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

04618352 INSPEC Abstract Number: C90033307

Title: Two-level grammars for data conversions

Author(s): Ruschitzka, M.

Author Affiliation: California Univ., Davis, CA, USA

Journal: Future Generation Computer Systems vol.5, no.4 p.373-80

Publication Date: Jan. 1990 Country of Publication: Netherlands

CODEN: FGSEVI ISSN: 0167-739X

U.S. Copyright Clearance Center Code: 0167-739X/90/\$3.50

Language: English

Subfile: C

Title: Two-level grammars for data conversions

Abstract: Heterogeneous computer systems that are interconnected in today's computer **networks** lack efficient, general-purpose translation facilities for **remote data**. The paper introduces a novel translation technique. Its formal specification is based on environment grammars...

... structures. It presents a formal definition of environment grammars, discusses properties that permit their efficient **parsing**, and describes a **data parsing** method based on these properties. Examples illustrate the use of environment grammars for two different...

Descriptors: **data conversion** ;

Identifiers: **data conversions** ; ...

...computer **networks** ; ...

... **remote data** ; ...

... **data parsing** method
1990

30/3,K/246 (Item 22 from file: 256)
DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

00113480 DOCUMENT TYPE: Review

PRODUCT NAMES: NetBrief (731579)

TITLE: InGenius Technologies Launches NetBrief
AUTHOR: Staff
SOURCE: Information Today, v16 n1 p15(2) Jan 1999
ISSN: 8755-6286
HOMEPAGE: <http://www.infotoday.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20020730

InGenius Technologies' NetBrief, a customized strategic intelligence service, automatically monitors, extracts, and reports pertinent **textual modifications** in **Internet** pages and sites, according to each client's priorities. NetBrief is more than an agent...
...NetBrief monitors high-priority pages, finds new pages of interest, culls relevant data using robust, **automatic** programming **routines**, and integrates the output into one easy-to-use format. An 'intelligence expert' is assigned...

...thoroughly as to the reference services needed. The analyst identifies topics and keywords, along with **Internet** sites and pages, and tests and verifies topic keywords for comprehensiveness, precision, and usefulness. **Every day**, NetBrief **automatically** traps every **text change** from chosen Web pages, and dynamically finds new Web pages that include the client's keywords, while verifying keywords' relevance. Clients can control how much of the **changed** or augmented **text** should be seen. Advantages of NetBrief over other change monitors include the ability to highlight **changes** and to **document** the degree of **change** for each item.

DESCRIPTORS: Alerts; Information Retrieval; **Internet** Utilities; News Services
1999



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| #3 | ((updating<in>metadata) <and> (parsed<in>metadata))<and> (data<in>metadata) |
| #4 | ((updating<in>metadata) <and> (parsed<in>metadata))<and> (data<in>metadata) |
| #5 | ((updating<in>metadata) <and> (parsed<in>metadata))<and> (data<in>metadata) |
| #6 | ((updating<in>metadata) <and> (parsed<in>metadata))<and> (data<in>metadata) |
| #7 | ((updating<in>metadata) <and> (parsed<in>metadata))<and> (data<in>metadata) |
| #8 | ((updating<in>metadata) <and> (parsed<in>metadata))<and> (data<in>metadata) |
| #9 | ((automatic<in>metadata) <and> (transfer<in>metadata))<and> (parsed<in>metadata) |
| #10 | ((automatic<in>metadata) <and> (transfer<in>metadata))<and> (parsed<in>metadata) |
| #11 | ((automatic<in>metadata) <and> (transfer<in>metadata))<and> (parsed<in>metadata) |
| #12 | ((automatic<in>metadata) <and> (transfer<in>metadata))<and> (parsed<in>metadata) |
| #13 | ((automatic<in>metadata) <and> (transfer<in>metadata))<and> (parsed<in>metadata) |
| #14 | ((transferring<in>metadata) <and> (parsed<in>metadata))<and> (interval<in>metadata) |



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 Relevance scale ☐ ☐ ☐ ☐ ☐

1 [Mobile data management: Middleware support for reconciling client updates and data transcoding](#)

Thomas Phan, George Zorpas, Rajive Bagrodia

 June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

 Full text available: [pdf\(4.80 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In mobile Internet applications, data can be transcoded, updated, and transferred across heterogenous clients. The problem then arises where updates made in the context of an initial transcoding results in content too stringently transcoded for subsequent clients, thereby causing loss of semantic value. We solve this problem by suggesting that the updates themselves can be transformed so that they can be applied directly to the original data instead of to the transcoded data; this approach allow ...

Keywords: client updates, data management, middleware, mobile computing, reconciliation, transcoding

2 [Application of XML tools for enterprise-wide RBAC implementation tasks](#)

Ramaswamy Chandramouli

 July 2000 **Proceedings of the fifth ACM workshop on Role-based access control**

 Full text available: [pdf\(66.85 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The use of Extensible Markup Language (XML) and its associated APIs, for information modeling and information interchange applications is being actively explored by the research community. In this paper we develop an XML Document Type Definition (DTD) for representing the schema of a Role-based Access Control (RBAC) Model and a conforming XML document containing the actual RBAC-based access control data for a commercial banking application. Based on this DTD, the XML document and the methods ...

3 [The HP AutoRAID hierarchical storage system](#)

John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan

 February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

 Full text available: [pdf\(1.82 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Configuring redundant disk arrays is a black art. To configure an array properly, a system

administrator must understand the details of both the array and the workload it will support. Incorrect understanding of either, or changes in the workload over time, can lead to poor performance. We present a solution to this problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the upper level of this hierarchy, two copies of active data are stored to provide f ...

Keywords: RAID, disk array, storage hierarchy

4 Queue pair IP: a hybrid architecture for system area networks

Philip Buonadonna, David Culler

May 2002 **ACM SIGARCH Computer Architecture News**, Volume 30 Issue 2

Full text available:  pdf(1.01 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

We propose a SAN architecture called Queue Pair IP (QPIP) that combines the interface from industry proposals for low overhead, high bandwidth networks, e.g. Infiniband, with the well established inter-network protocol suite. We evaluate how effectively the queue pair abstraction enables inter-network protocol offload. We develop a prototype QPIP system that implements basic queue pair operations over a subset of TCP, UDP and IPv6 protocols using a programmable network adapter. We assess this pr ...

Keywords: Interconnection Networks, Network Interfaces, Internetworking, Distributed Computing

5 Special issue on machine learning approaches to shallow parsing: Text chunking based on a generalization of winnow

Tong Zhang, Fred Damerau, David Johnson

March 2002 **The Journal of Machine Learning Research**, Volume 2

Full text available:  pdf(256.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a text chunking system based on a generalization of the Winnow algorithm. We propose a general statistical model for text chunking which we then convert into a classification problem. We argue that the Winnow family of algorithms is particularly suitable for solving classification problems arising from NLP applications, due to their robustness to irrelevant features. However in theory, Winnow may not converge for linearly non-separable data. To remedy this problem, we employ ...

6 The HP AutoRAID hierarchical storage system

J. Wilkes, R. Golding, C. Staelin, T. Sullivan

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Session S3.1: architecture adaptation and synthesis: Towards automatic synthesis of a class of application-specific sensor networks

Amol Bakshi, Jingzhao Ou, Viktor K. Prasanna

October 2002 **Proceedings of the 2002 international conference on Compilers, architecture, and synthesis for embedded systems**

Full text available:  pdf(339.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Automatic synthesis of sensor network-based systems can be described as the process of translating a formal specification of application functionality into a particular task mapping, settings of available hardware knobs, and communication and coordination mechanisms among the sensor nodes, so as to meet the performance requirements and constraints. We propose a general methodology to tackle a specific class of this problem, based on analytical performance modeling, multigranularity system simula ...

Keywords: automatic synthesis, design environments, energy efficiency, sensor networks

8 Automatic parsing for content analysis

Frederick J. Damerau

June 1970 **Communications of the ACM**, Volume 13 Issue 6

Full text available:  pdf(4.07 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurrences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

9 How a large ATM MTU causes deadlocks in TCP data transfers

Kjersti Moldeklev, Per Gunningberg

August 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 4

Full text available:  pdf(1.43 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Migration: Optimizing the migration of virtual computers

Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available:  pdf(1.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes. We have chosen to move x86 computer states because x86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, x86 c ...

11 An intelligent user interface to CIM multiple data bases

David M. Dilts, Wenhua Wu

September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems**

Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

12 Database machines: Design of a backend processor for a data base machine

François Bancilhon, Michel Scholl

May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data**

Full text available:  [pdf\(704.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Most data base machines use some type of "filter" to perform unary operations on files. This filter processes information "on the fly" during its transfer from mass storage (Disk) to main storage (main memory or buffer). This paper is devoted to the design study of such a filter for relational-type data bases. It is therefore assumed that data are structured as a set of n-ary relations. Using a top-down approach we classify the requirements under two categories: 1) Functional specification of the ...

13 Special issue of the lexicon: Tools and methods for computational lexicology

Roy J. Byrd, Nicoletta Calzolari, Martin S. Chodorow, Judith L. Klavans, Mary S. Neff, Omneya A. Rizk

July 1987 **Computational Linguistics**, Volume 13 Issue 3-4

Full text available:  [pdf\(2.49 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
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This paper presents a set of tools and methods for acquiring, manipulating, and analyzing machine-readable dictionaries. We give several detailed examples of the use of these tools and methods for particular analyses. A novel aspect of our work is that it allows the combined processing of multiple machine-readable dictionaries. Our examples describe analyses of data from Webster's Seventh Collegiate Dictionary, the Longman Dictionary of Contemporary English, the Collins bilingual dictionaries, t ...

14 DWTP—an Internet protocol for shared virtual environments

Wolfgang Broll

February 1998 **Proceedings of the third symposium on Virtual reality modeling language**

Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Developing a natural language interface to complex data

Gary G. Hendrix, Earl D. Sacerdoti, Daniel Sagalowicz, Jonathan Slocum

June 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 2

Full text available:  [pdf\(3.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Aspects of an intelligent interface that provides natural language access to a large body of data distributed over a computer network are described. The overall system architecture is presented, showing how a user is buffered from the actual database management systems (DBMSs) by three layers of insulating components. These layers operate in series to convert natural language queries into calls to DBMSs at remote sites. Attention is then focused on the first of the insulating components, th ...

Keywords: database access, human engineering, intelligent interface, natural language, run-time personalization, semantic grammar

16 Hardware and software tools for the development of a micro-programmed microprocessor

James Nash, Mike Spak

November 1979 **ACM SIGMICRO Newsletter , Proceedings of the 12th annual workshop on Microprogramming**, Volume 10 Issue 4

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  [pdf\(674.94 KB\)](#)[terms](#)

This paper discusses the development and implementation of a number of hardware and software tools used in the design, development, and debugging of the microcode and nanocode for the MC68000 microprocessor. A functional description of these tools is included as well as an analysis of how each worked with respect to solving the desired problem (ie., generating correct microcode and nanocode). Peculiarities in the integrated circuit industry for microcode verification is considered as well a ...

17 Incremental validation of XML documents

Andrey Balmin, Yannis Papakonstantinou, Victor Vianu

December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4Full text available:  [pdf\(676.95 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We investigate the incremental validation of XML documents with respect to DTDs, specialized DTDs, and XML Schemas, under updates consisting of element tag renamings, insertions, and deletions. DTDs are modeled as extended context-free grammars. "Specialized DTDs" allow the decoupling of element types from element tags. XML Schemas are abstracted as specialized DTDs with limitations on the type assignment. For DTDs and XML Schemas, we exhibit an $O(m \log n)$ incremental valida ...

Keywords: Update, XML, validation**18 Dynamic software updating**

Michael Hicks, Jonathan T. Moore, Scott Nettles

May 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation**, Volume 36 Issue 5Full text available:  [pdf\(1.44 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many important applications must run continuously and without interruption, yet must be changed to fix bugs or upgrade functionality. No prior general-purpose methodology for dynamic updating achieves a practical balance between flexibility, robustness, low overhead, and ease of use.

We present a new approach for C-like languages that provides type-safe dynamic updating of native code in an extremely flexible manner (code, data, and types may be updated, at programmer-determined times ...

19 Office-by-example: an integrated office system and database manager

Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Khorasani, Ravi Krishnamurthy, Gary Sockut, Paula Sweeney, Vance Waddle, Moshé Zloof

October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4Full text available:  [pdf\(2.86 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

20 Process migrationSeptember 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available:  pdf(1.24 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(2005/0086646)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 14:12
L2	2	("20050086646")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 14:13
L3	0	"6886020".pn. and automatic and (transfer\$3 with correlation)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 14:14
L4	0	"6886020".pn. and (transfer\$3 with correlation)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 14:14
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L8	2	"6778541".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 15:18
L9	268	push\$3 same updat\$3 same synchroniz\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 15:20
L10	22	push\$3 same updat\$3 same synchroniz\$5 same (schedul\$3 or periodic\$3 or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 15:22

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L12	4	10 and "707"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 15:22
L13	0	push\$3 same (updat\$3 with (pars\$2 near2 data)) same synchroniz\$5 same (schedul\$3 or periodic\$3 or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 15:22
L14	2	(updat\$3 with (pars\$2 near2 data)) same (schedul\$3 or periodic\$3 or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 15:23

Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FREE TRANSMITTAL
For FY 2005☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 790**Complete if Known**

Application Number	10/198,827
Filing Date	07/18/2002
First Named Inventor	Michael Guest
Examiner Name	Baoquoc N. To
Art Unit	2162
Attorney Docket No.	SVL920020050US1

METHOD OF PAYMENT (check all that apply)
☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

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FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	0
Design	200	100	100	50	130	65	0
Plant	200	100	300	150	160	80	0
Reissue	300	150	500	250	600	300	0
Provisional	200	100	0	0	0	0	0

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
19 - 20 or HP =	0	50	0	360	0	0

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
3 - 3 or HP =	0	200	0

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	0

4. OTHER FEE(S)

	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	0
Other (e.g., late filing surcharge): <u>Request for continued examination (RCE) (see 37 CFR 1.17(e))</u>	790

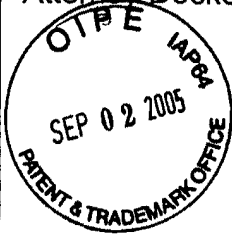
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Signature	Registration No. 32,247 (Attorney/Agent)	Telephone 408-323-5111
Name (Print/Type) <u>Samuel A. Kassatly</u>		Date 09/03/2005

This collection of information is required by 37 CFR 1.136. 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 30 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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Attorney Docket No.: SVL920020050US1



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Signature

Samuel A. Kassatly

Typed or printed name of person signing Certificate

32,247

Registration Number, if applicable

408-323-5111

Telephone Number

Application Serial No.: 10/198,827
Filing Date: 07/18/2002

Reply to Office action of: 07/26/2005
Attorney Docket No.: SVL920020050US1

PATENT



IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Title: "System and Method for Data Retrieval and Collection in a Structured Format"

Applicants: Michael Guest, et al.

Attorney Docket No.: SVL920020050US1

Serial No.: 10/198,827

Examiner: Baoquoc N. To

Filed: 07/18/2002

Art Unit: 2162

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

PRELIMINARY AMENDMENT
ACCOMPANYING RCE APPLICATION

Sir:

Applicants submit this Amendment in response to the Office Action of July 26, 2005, and respectfully request that it be entered.

The amendments to the claims are reflected in the listing of the claims that begins on page 2 of this paper.

The Remarks section begins on page 8 of this paper.

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

1. (Currently amended) A method of selectively retrieving data from a source file on a public network and automatically collecting retrieved data in a target database, comprising:

initializing a data retrieval stage by:

selecting the source file;

parsing selected data elements in the source file into a list of data elements;

selecting at least one of the data elements from the list to be stored in the target database;

identifying source locations of the selected at least one of the data elements;

selecting the target database and target locations in the target database in which the at least one of the data elements is to be stored in the target database;

saving the source locations and target locations of the at least one of the parsed data elements in a location file in the target database;

setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file in the target database; and

automatically, selectively parsing new data elements corresponding to the at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule

frequency, by transferring the selectively parsed new data elements from the saved source locations in the source file to the saved target locations in the target database.

2. (Canceled)

3. (Previously presented) The method of claim 1, further comprising processing the selectively parsed new data elements stored in the target database.

4. (Previously presented) The method of claim 3, wherein processing the selectively parsed new data elements is executed automatically.

5 - 6. (Canceled)

7. (Previously presented) The method of claim 1, wherein the source file is formatted with tags.

8. (Previously presented) The method of claim 1, wherein the at least one of the data elements from the sources locations are derived from an application output file.

9. (Previously presented) The method of claim 1, wherein the at least one of the data elements from the sources locations are derived from an output of a server program.

10. (Previously presented) The method of claim 1, wherein the target database is a relational database.

11. (Original) The method of claim 1, wherein initializing the data retrieval stage further comprises presenting selection options to a user.

12. (Canceled)

13. (Original) The method of claim 1, wherein the at least one of the data elements is dynamic.

14. (Previously presented) The method of claim 13, wherein initializing the data retrieval stage further comprises analyzing the new data elements.

15. (Previously presented) The method of claim 14, wherein the new data elements comprise data that changes periodically.

16. (Previously presented) The method of claim 1, wherein processing the new data elements is executed manually.

17. (Previously presented) The method of claim 1, further comprising automatically updating data elements stored in the target database.

18. (Canceled)

19. (Previously presented) The method of claim 17, wherein automatically updating the data elements stored in the target database comprises periodically retrieving new data elements and updating the data elements stored in the target database with the retrieved new data elements.

20. (Original) The method of claim 1, further comprising reinitializing the data retrieval stage.

21. (Currently amended) A computer program product having instruction codes for selectively retrieving data from a source file on a public network and for automatically collecting retrieved data in a target database, comprising:

a first set of instruction codes for initializing a data retrieval stage by:

selecting the source file;

parsing selected data elements in the source file into a list of data elements;

selecting at least one of the data elements from the list to be stored in the target database;

identifying source locations of the selected at least one of the data elements;

selecting the target database and target locations in the target database in which the at least one of the data elements is to be stored in the target database;

saving the source locations and target locations of the at least one of the parsed data elements in a location file in the target database;

setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file in the target database; and

a second set of instruction codes for automatically, selectively parsing new data elements corresponding to the at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by transferring the selectively

parsed new data elements from the saved source locations in the source file to the saved target locations in the target database.

22. (Canceled)

23. (Previously presented) The computer program product of claim 21, wherein the source file is formatted with tags.

24. (Previously presented) The computer program product of claim 21, wherein the at least one of the data elements from the sources locations are derived from an application output file.

25. (Previously presented) The computer program product of claim 21, wherein the at least one of the data elements from the sources locations are derived from an output of a server program.

26 - 30. (Canceled)

31. (Currently amended) A system for selectively retrieving data from a source file on a public network and for automatically collecting retrieved data in a target database, comprising:

means for initializing a data retrieval stage by:

selecting the source file;

parsing selected data elements in the source file into a list of data elements;

selecting at least one of the data elements from the list to be stored in the target database;

identifying source locations of the selected at least one of the data elements;

selecting the target database and target locations in the target database in which the at least one of the data elements is to be stored in the target database;

saving the source locations and target locations of the at least one of the parsed data elements in a location file in the target database;

setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file in the target database; and

means for automatically, selectively parsing new data elements corresponding to the at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by transferring the selectively parsed new data elements from the saved source locations in the source file to the saved target locations in the target database.

32 - 41. (Canceled)

REMARKS

Applicants respectfully submit that all the claims presently on file are in condition for allowance or appeal. Applicants have amended claims 1, 21, and 31 to further point out the present invention.

THE CLAIMS

CLAIMS REJECTION UNDER 35 USC 103

A. The Rejection

Claims 1, 3, 7-10, 13-15, 17-21, 23-28, 30-31, 33-38, and 40-41 were rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi et al. (US. Patent No. 6,532,473 B2) hereinafter referred to as "Niazi", in view of M2 Presswire (Microstrategy: DSS broadcaster-the industry's first information broadcast server 03/20/1998), hereinafter referred to as "M2 Presswire".

Applicants respectfully submit that the cited references do not disclose all the elements and limitations of the claimed invention, as a whole. Consequently, the claims on file are not obvious in view of the cited references, and the allowance of these claims is earnestly solicited. In support of this position, Applicants submit the following arguments:

B. Legal Standards of Obviousness

The following are court opinions set the general standards in support of Applicants' position of non-obviousness, with emphasis added for added clarity:

- MPEP 706.02(j), "**To establish a prima facie case of obviousness, three basic criteria must be met.** First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, **the prior art reference (or references when combined) must teach or suggest all the claim limitations.** The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and not based on applicant's disclosure. In re Vaeck, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991) ... The initial burden is on the examiner to provide some **suggestion of the desirability** of doing what the inventor has done. "To support the conclusion that the claimed invention is directed to obvious subject matter, either the **references must expressly or impliedly suggest the claimed invention** or the examiner must present a convincing line of reasoning as to why the artisan would have found the claimed invention to have been obvious in light of the teachings of the references." Ex parte Clapp, 227 USPQ 972, 973 (Bd. Pat. App. & Inter. 1985)."
- **In determining the differences between the prior art and the claims, the question under 35 U.S.C. 103 is** not whether the differences themselves would have been obvious, but **whether the claimed invention as a whole would have been obvious.** The prior art perceived a need for mechanisms to dampen resonance, whereas the inventor eliminated the need for dampening via the one-piece gapless support structure. "Because that insight was contrary to the understandings and expectations of the art, the structure effectuating it would not have been obvious to those skilled in the art." 713 F.2d at 785, 218 USPQ at 700 (citations omitted).
- MPEP §2143.03, "All Claim Limitations Must Be Taught or Suggested: 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)."
- "With respect to core factual findings in a determination of patentability, however, the **Board cannot simply reach conclusions based on its own**

understanding or experience -- or on its assessment of what would be basic knowledge or common sense. **Rather, the Board must point to some concrete evidence in the record** in support of these findings." See *In re Zurko*, 258 F.3d 1379 (Fed. Cir. 2001).

- "**Obviousness cannot be established** by combining the teachings of the prior art to produce the claimed invention, **absent some teaching or suggestion** supporting the combination." *In re Fine*, 837 F.2d at 1075, 5 USPQ2d at 1598 (citing *ACS Hosp. Sys. v. Montefiore Hosp.*, 732 F.2d 1572, 1577, 221 USPQ 929, 933 (Fed. Cir. 1984)). **What a reference teaches** and whether it teaches toward or **away from the claimed invention** are questions of fact. See *Raytheon Co. v. Roper Corp.*, 724 F.2d 951, 960-61, 220 USPQ 592, 599-600 (Fed. Cir. 1983), cert. denied, 469 U.S. 835, 83 L. Ed. 2d 69, 105 S. Ct. 127 (1984). "
- "When a rejection depends on a combination of prior art references, there must be **some teaching, suggestion, or motivation** to combine the references. See *In re Geiger*, 815 F.2d 686, 688, 2 USPQ2d 1276, 1278 (Fed. Cir. 1987)." **Obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation** to do so found either explicitly or implicitly in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See MPEP 2143.01; *In re Kotzab*, 217 F.3d 1365, 1370, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000); *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988); and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).
- "We have noted that **evidence of a suggestion, teaching, or motivation to combine** may flow from the prior art references themselves, the knowledge of one of ordinary skill in the art, or, in some cases, from the nature of the problem to be solved, see *Pro-Mold & Tool Co. v. Great Lakes Plastics, Inc.*, 75 F.3d 1568, 1573, 37 USPQ2d 1626, 1630 (Fed. Cir. 1996), *Para-Ordinance Mfg. v. SGS Imports Intern., Inc.*, 73 F.3d 1085, 1088, 37 USPQ2d 1237, 1240 (Fed. Cir. 1995), although "the suggestion more often comes from the teachings of the pertinent references," *Rouffet*, 149 F.3d at 1355, 47 USPQ2d at 1456. The range of sources available, however, does not diminish the requirement for actual evidence. That is, **the showing must be clear and particular**. See, e.g., *C.R. Bard*, 157 F.3d at 1352, 48 USPQ2d at 1232. **Broad conclusory statements regarding the teaching of multiple references, standing alone, are not "evidence."** E.g., *McElmurry v. Arkansas Power & Light Co.*, 995 F.2d 1576, 1578, 27 USPQ2d 1129, 1131 (Fed. Cir. 1993) ("Mere

denials and conclusory statements, however, are not sufficient to establish a genuine issue of material fact."); In re Sichert, 566 F.2d 1154, 1164, 196 USPQ 209, 217 (CCPA 1977)." See In re Dembiczak, 175 F. 3d 994 (Fed. Cir. 1999).

- MPEP §2143.01, "The Prior Art Must Suggest The Desirability Of The Claimed Invention: There are three possible sources for a motivation to combine references: the nature of the problem to be solved, the teachings of the prior art, and the knowledge of persons of ordinary skill in the art." In re Rouffet, 149 F.3d 1350, 1357, 47 USPQ2d 1453, 1457-58 (Fed. Cir. 1998) (**The combination of the references taught every element of the claimed invention, however without a motivation to combine, a rejection based on a prima facie case of obvious was held improper.**). The level of skill in the art cannot be relied upon to provide the suggestion to combine references. Al-Site Corp. v. VSI Int'l Inc., 174 F.3d 1308, 50 USPQ2d 1161 (Fed. Cir. 1999).
- "To prevent the use of hindsight based on the invention to defeat patentability of the invention, **this court requires the examiner to show a motivation to combine the references** that create the case of obviousness. In other words, **the examiner must show reasons** that the skilled artisan, confronted with the same problems as the inventor and with no knowledge of the claimed invention, would select the elements from the cited prior art references **for combination in the manner claimed.**" See In re Rouffet, 149, F.3d 1350 (Fed. Cir. 1998).
- The mere fact that references can be combined or modified does not render the resultant combination obvious **unless the prior art also suggests the desirability of the combination.** In re Mills, 916 F.2d 680, 16 USPQ2d 1430 (Fed. Cir. 1990). Although a prior art device "may be capable of being modified to run the way the apparatus is claimed, **there must be a suggestion or motivation in the reference** to do so." 916 F.2d at 682, 16 USPQ2d at 1432.). See also In re Fritch, 972 F.2d 1260, 23 USPQ2d 1780 (Fed. Cir. 1992) (flexible landscape edging device which is conformable to a ground surface of varying slope not suggested by combination of prior art references).
- If the **proposed modification would render the prior art invention being modified unsatisfactory** for its intended purpose, **then there is no suggestion or motivation** to make the proposed modification. In re Gordon, 733 F.2d 900, 221 USPQ 1125 (Fed. Cir. 1984).

Applicants have canceled claim 41 without prejudice, and incorporated its limitation in amended claims 1, 21, and 31. The allowability of these claims and the claims dependent thereon, over the cited references, will now be discussed.

C. Niazi et al. Patent

Niazi generally relates to a method of processing data files that are generated in accordance with different protocols. Each protocol defines a number of mark-up tags and each data file includes a number of respective mark-up tags, each mark-up tag having respective data associated therewith. The method including storing the data contained in a data file by receiving the data file, determining the protocol definition, and using the protocol definition to determine storage location(s) or processing action(s) for each of the mark-up tags of the data file. Once this has been done the protocol definition is used to determine contextual information for each of the mark-up tags of the data file. The marked up data contained within the data file, is then extracted and stored or processed in accordance with the determined contextual information and at least one of the storage location(s) or the processing action(s). Reference is made to the Abstract.

Niazi further states: "Operational mode 1 of the present invention, to receive and process XML files of the above nature, will now be described.

On receipt of the XML document, the software controller 3 analyses the XML document, looking for references to a particular structure definition, a DTD, XML Schema or the like. If a structural definition is present, the software controller 3 attempts to obtain the corresponding definition within the inventions structural definition repository 11.

If such a definition exists then the software controller 3 can parse the XML file, **find the DBIs associated with each component of the XML file** and use the database location specified as part of the DBI definition to store the data in the appropriate place within the host application schema 9." Column 7, lines 1 - 15. (Emphasis added).

D. Independent Claims 1, 21, and 31 in Light of Niazi and M2 Presswire

Applicants will now present arguments in support of the allowance of representative claim 1 over Niazi and M2 Presswire. Applicants have previously amended claim 1 to clarify that the present process comprises two general stages: (1) the initialization stage, and (2) the automatic, new data implementation stage. Applicants have now amended claim 1 to further clarify that the source file is located on a public network, such as the Internet, and that the location file of the source locations is disposed in the target database.

Applicants respectfully submit that neither Niazi nor M2 Presswire, whether considered individually, or in combination with each other, describes all the elements of these two stages of the present invention taken as a whole:

According to the initialization stage, (1) selected data elements are parsed, and (2) their source locations identified. (3) These source locations are associated with target locations, and (4) a transfer schedule frequency set.

The initialization stage is followed by **the automatic, new data implementation stage** according to which: (1) new data elements, corresponding to the selectively parsed data elements in the initialization stage, are selectively parsed, (2) pursuant to the schedule frequency, (3) by

transferring the new selectively parsed data elements from the source locations that were identified and saved in the initialization stage to the target locations (in the target database), that were also saved in the initialization stage.

One of the problems addressed by the present invention is exemplified as follows:

Transferring data found on websites to a database format would allow significant data management and manipulation capabilities afforded through standard database software. However, prior to the advent of the present invention, there were no effective methods for capturing and replicating the website data within a database application.

While the user could manually transfer the data viewed on the Internet into a database, when the transfer is done on a regular basis, such as might be done for a regular recording of stock prices, the manual transfer of data from the website to the user's database becomes inefficient, labor intensive, and prone to transcription errors. This is particularly true for large amounts of data on a large variety of web pages that are retrieved periodically, such as every 10 minutes, 45 minutes, daily, etc.

While allowing the user to manually capture data and archive it, the conventional systems do not provide a mechanism for parsing individual data elements, replicating that data in a relational database format, or automatic data collection in a manner specified by the user.

Thus, prior to the advent of the present invention, there existed an unsatisfied need for a data collection and retrieval system and method to

efficiently manipulate and analyze data displayed on websites, and to **periodically store the data in a database in a preset format**. The present system and method retrieve Internet (or public network) data automatically, and to assign that data to appropriate places in a database structure defined by the user. As an example, for data that changes regularly, such as stock quotes or weather data, the present system automatically retrieves data based on a user defined schedule.

Applicants agree with the Examiner that Nazi does not explicitly teach several aspects of the present invention, namely:

“saving the source locations and target locations of at least one of the parsed data elements in a location file;

setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file; and

automatically, selectively parsing new data elements corresponding to the at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by transferring the selectively parsed new data elements from the saved source locations in the source file to the saved target location in the target database.”

In essence, Niazi neither describes **the initialization stage** as a whole, nor does it describe **the automatic, new data implementation stage** that follows the initialization stage. In addition, Applicants further submit that **Niazi fails to consider the claimed invention as a whole**, since Niazi’s method does not perform the same or similar function, or provide the same or similar advantages, as the present invention.

As a substitute for the missing elements, the Examiner resorts to M2 Presswire, reasoning that:

"M2 Presswire discloses saving the source locations and target locations of at least one of the parsed data elements in a location file (the location of the data is saved as well as the e-mail destination must also be saved in order to broadcast) (paragraph 9, lines 1-8);

setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file (paragraph 9, lines 5-8); and

automatically, selectively parsing new data elements corresponding to the at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by transferring the selectively parsed new data elements from the saved source locations in the source file to the saved target location in the target database (paragraph 9, lines 8-16)."

In essence, the office action rejects the claims based on paragraph 9 of M2 Presswire, which is reproduced below, in its entirety, for ease of reference:

"Publish and Subscribe to Information Through DSS Broadcaster Using DSS Broadcasters self-subscription interface, **end users can specify exactly what data they want to see in the format they desire, with choices for scheduled delivery and frequency of business information.** For example, a CFC could request **an email** every time the value of his company's stock dropped more than 10% in a 3 hour timeframe. Or, a product manager could request a **voice mail** every week with the company's most up-to-date sales information. By fully personalizing their profile through DSS Broadcaster, decision-makers are ensured to receive only Me information that is valuable to them through the channel that is most convenient The self-subscription interface also allows the application to scale to thousands of users within and beyond the organization by eliminating most of IT's burden of distributing data, creating content and maintaining thousands of user profiles." Emphasis added.

Applicants respectfully submit that M2 Presswire does not **automatically transfer data from a public network format to a database format**, as taught by the present invention. Rather, M2 Presswire seems to transfer the data to a user understandable format, such as an email or a voice mail.

It should be clear that the transfer of data to a database format faces different technical problems, and anticipates different solutions than saving the data in an email or a voice mail format. Thus, M2 Presswire does not capture the essence of the present invention, whether considered individually or in combination with Niazi.

More specifically, claim 1 has been amended to clarify that the location file is located in the target database. The Examiner states that "the location of the data is saved as well as the e-mail destination must also be saved in order to broadcast". However, neither the Examiner nor M2 Presswire asserts that the location file in M2 Presswire can be located in a target database (thus having a database format), as is intended by the present invention.

Therefore, similarly to Niazi, M2 Presswire does not capture the essence of the present invention, and thus **neither Niazi, M2 Presswire, nor the combination thereof, considers the claimed invention as a whole**. As a result, the hypothetical combination of Niazi and M2 Presswire, does not consider the invention as a whole, and according to the foregoing legal authorities, such a combination does not satisfy the *prime facie* case of obviousness.

Applicants submit that the concept of scheduling data transfer events, in general, has been well known, but not when used in the context of the present invention. In addition, Applicants do not profess to claiming this general

concept independently from the other elements and limitations of the present invention as recited in amended claim 1. Applicants respectfully request that the claimed invention be considered as a whole and not parsed in hindsight.

Claim 1 is thus not obvious in view of Niazi and M2 Presswire, and the allowance of this claim and the claims dependent thereon is earnestly solicited.

Independent claims 21 and 31 are allowable over Niazi and M2 Presswire, whether considered individually or in combination with each other, for containing a similar subject matter to that of claim 1. Therefore, claims 21 and 31 and the claims dependent thereon are also allowable.

Claims 11, 16, 29, and 39 were independently rejected under 35 U.S.C. 103. Applicants respectfully submit that these claims are allowable for depending on the allowable claims 1, 21, and 31, respectively.

CONCLUSION

All the claims presently on file in the present application are in condition for immediate allowance, and such action is respectfully requested. If it is felt for any reason that direct communication would serve to advance prosecution of this case to finality, the Examiner is invited to call the undersigned at the below-listed telephone number.

Date: September 3, 2005

Samuel A. Kassatly Law Office
20690 View Oaks Way
San Jose, CA 95120
Tel: (408) 323-5111
Fax: (408) 521-0111

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'S. Kassatly', is written over a horizontal line.

Samuel A. Kassatly
Attorney for Applicants
Reg. No. 32,247

09-06-05

RCE \$

PTO/SB/30 (04-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

Request for Continued Examination (RCE) Transmittal

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



Application Number	10/198,827
Filing Date	07/18/2002
First Named Inventor	Michael Guest
Art Unit	2162
Examiner Name	Baoquoc N. To
Attorney Docket Number	SVL920020050US1

This is a Request for Continued Examination (RCE) under 37 CFR 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 CFR 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 amendments 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

- iii. ☐ Information Disclosure Statement (IDS)

- ii. ☐ Affidavit(s)/ Declaration(s)

- iv. ☐ Other _____

2. Miscellaneous

- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

- b. ☐ Other _____

3. Fees

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

- a. ☒ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 09-0460. I have enclosed a duplicate copy of this sheet.

- i. ☒ RCE fee required under 37 CFR 1.17(e)

- ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17) | 09/07/2005 CCHAU1 00000001 10198827

- iii. ☐ Other | 01 FC:1001 790.00 DA

- b. ☐ Check in the amount of \$ _____ enclosed

- c. ☐ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	<i>Samuel A. Kassatly</i>	Date	09/03/2005
Name (Print/Type)	Samuel A. Kassatly	Registration No.	32,247

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature	<i>Samuel A. Kassatly</i>	Date	09/03/2005
Name (Print/Type)	Samuel A. Kassatly		

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop RCE, 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.

Bright Data Ltd. v. Metacluster LT UAB

IPR2023-01442, EX. 1002

77 of 318

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 Pendency Number

10.198827

CLAIMS AS FILED - PART I

FOR	NUMBER FILED (Column 1)	NUMBER EXTRA (Column 2)
BASIC FEE (37 CFR 1.16(a))		
TOTAL CLAIMS (37 CFR 1.16(c))	minus 20 =	*
INDEPENDENT CLAIMS (37 CFR 1.16(b))	minus 3 =	*
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(d))		

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

SMALL ENTITY

RATE	FEE
	325.00
x \$25 =	
x \$100 =	
+ \$180 =	
TOTAL	

OR

OTHER THAN SMALL ENTITY

RATE	FEE
	790.00
x \$50 =	
x \$200 =	
+ \$360 =	
TOTAL	

CLAIMS AS AMENDED - PART II

9/02/05

	CLAIMS REMAINING AFTER AMENDMENT (Column 1)	HIGHEST NUMBER PREVIOUSLY PAID FOR (Column 2)	PRESENT EXTRA (Column 3)
AMENDMENT A			
Total (37 CFR 1.16(c))	20	4	
Independent (37 CFR 1.16(b))	3	3	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))			

SMALL ENTITY

RATE	ADDITIONAL FEE
x \$25	
x \$100	
+ \$180	
TOTAL ADD'L FEE	

OR

OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE
x \$50	
x \$200	
+ \$360	
TOTAL ADD'L FEE	

	CLAIMS REMAINING AFTER AMENDMENT (Column 1)	HIGHEST NUMBER PREVIOUSLY PAID FOR (Column 2)	PRESENT EXTRA (Column 3)
AMENDMENT B			
Total (37 CFR 1.16(c))			
Independent (37 CFR 1.16(b))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))			

RATE	ADDITIONAL FEE
x \$25	
x \$100	
+ \$180	
TOTAL ADD'L FEE	

OR

RATE	ADDITIONAL FEE
x \$50	
x \$200	
+ \$360	
TOTAL ADD'L FEE	

	CLAIMS REMAINING AFTER AMENDMENT (Column 1)	HIGHEST NUMBER PREVIOUSLY PAID FOR (Column 2)	PRESENT EXTRA (Column 3)
AMENDMENT C			
Total (37 CFR 1.16(c))			
Independent (37 CFR 1.16(b))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))			

RATE	ADDITIONAL FEE
x \$25	
x \$100	
+ \$180	
TOTAL ADD'L FEE	

OR

RATE	ADDITIONAL FEE
x \$50	
x \$200	
+ \$360	
TOTAL ADD'L FEE	

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

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

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

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

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/198,827	07/18/2002	Michael Alan Guest	SVL920020050US1	9986

28342 7590 07/26/2005

SAMUEL A. KASSATLY LAW OFFICE
20690 VIEW OAKS WAY
SAN JOSE, CA 95120

EXAMINER

TO, BAOQUOC N

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

2162

DATE MAILED: 07/26/2005

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

Office Action Summary

Application No.

10/198,827

Applicant(s)

GUEST ET AL.

Examiner

Baoquoc N. To

Art Unit

2162

-- 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) 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 the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 April 2005.
- 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) 1,3,4,7-11,13-17,19-21,23-31 and 33-41 is/are pending in the application.
- 4a) Of the above claim(s) 2,5,6,12,18,22 and 32 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3,4,7-11,13-17,19-21,23-31 and 33-41 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) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 07/18/2002.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1, 3-4, 7-10, 14-17, 19, 21, 23-28, 31, 33-35 and 38, claims 2, 5-6, 12, 18, 22 and 32 are canceled in the amendment filed on 04/23/2005.

Claims 1, 3-4, 7-11, 13-17, 19-21, 23-31 and 33-41 are pending in this application.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 21 and 31 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

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

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

3. Claims 1, 3, 7-10, 13-15, 17-21, 23-28, 30-31, 33-38 and 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi et al. (US. Patent No. 6,532,473 B2) in view of M2 Presswire (Microstrategy: DSS broadcaster-the industry's first information broadcast server 03/20/1998).

Regarding on claims 1, 21 and 31, Niazi teaches a method of selectively retrieving data from a source file and automatically collecting retrieved data in a target database, comprising:

Initializing a data retrieval stage by:

Selecting the source file (XML document) (col. 7, lines 5-6);

Parsing selected data elements in the source file into a list of data elements (parse the XML file) (col. 7, lines 11-12);

Selecting at least one of the data elements from the list to be stored in the target database (a component) ((col. 7, lines 11-13);

Identifying source locations of the selected at least one of the data elements (end station 1, 7) (paragraph 0049, lines 1-2);

Selecting the target database and target locations in the target database in which the at least one of the data element is to be stored in the target database (find the DBIs associated with each component of the XML file) (col. 7, lines 11-13);

Nazi does not explicitly teach saving the source locations and target locations of at least one of the parsed data elements in a location file; setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file; and automatically, selectively parsing new data elements corresponding to the at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by transferring the selectively parsed new data elements from the saved source locations in the source file to the saved target location in the target database. However, M2 Presswire discloses saving the source locations and target locations of at least one of the parsed data elements in a location file (the location of the data is save as well as the e-mail destination must also be save in order to broadcast)

Art Unit: 2162

(paragraph 9, lines 1-8); setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file (paragraph 9, lines 5-8); and automatically, selectively parsing new data elements corresponding to the at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by transferring the selectively parsed new data elements from the saved source locations in the source file to the saved target location in the target database (paragraph 9, lines 8-16). Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Nazi's system to include DDS broadcasting from the parsed information to the user as taught by M2 Presswire in order to allow the user to received all stock quote or company information from the new of the internet.

Regarding on claim 3, Niazi teaches the method recited in claim 1, further comprising processing the selectively parsed new data elements stored in the target database (use the database location specified as part of the DBI definition to store the data in the appropriate place within the host application schema 9) (col. 7, lines 13-15).

Regarding on claim 4, Niazi teaches the method recited in claim 3, wherein processing the selectively parsed new data elements is executed automatically (col. 7, lines 13-15)

Regarding on claims 7, 23 and 33, Niazi teaches the method recited in claim 1, wherein the source file is formatted with tags (XML format) (col. 5, lines 16-21).

Regarding on claims 8, 24 and 34, Niazi teaches the method recited in claim 1, wherein the at least one of the data elements from the source locations are derived from an application output file (col. 5, lines 16-21).

Regarding on claims 9, 25 and 35, Niazi teaches the method recited in claim 1, wherein the at least one of the data elements form the sources locations are derived from an output of a server program (col. 5, lines 16-21).

Regarding on claims 10, 26 and 36, Niazi teaches the method recited in claim 1, wherein the target database is a relational database (DBIs) (col. 5, lines 16-21).

Regarding on claims 13, 27 and 37, Niazi teaches the method recited in claim 1, wherein the at least one of the data elements is dynamic (col. 7, lines 5-10).

Regarding on claim 14, Niazi teaches the method recited in claim 13, wherein initializing the data retrieval stage further comprises analyzing the at least new data elements (col. 7, lines 5-10).

Regarding on claims 15, 28 and 38, Niazi teaches the method recited in claim 14, wherein the new data elements comprise that changes periodically (col. 7, lines 5-10).

Regarding on claims 17 and 41, Niazi teaches the method recited in claim 1, further comprising automatically updating the at least one of the transferred data elements that are stored in the target database (updating) (col. 7, lines 62-67).

Regarding on claim 19, Niazi teaches the method recited in claim 1, wherein automatically updating the at least one of the transferred data elements comprises periodically updating the at least one of the transferred data elements (updating) (col. 7, lines 62-67).

Regarding on claims 20, 30 and 40, Niazi teaches the method recited in claim 1, further comprising reinitializing the data retrieval stage (updating) (col. 7, lines 62-67).

4. Claim 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi et al. (US. Patent No. 6,532,473 B2) M2 Presswire (Microstrategy: DSS broadcaster- the industry's first information broadcast server 03/20/1998) and further in view of Chau et al. (US. Patent No. 6,636,845 B2).

Regarding on claims 16, Niazi and M2 teaches the method recited in claim 1; however, Niazi and M2 do not explicitly teach processing the new data element is executed manually. However, Chau teaches "additionally, when an XML document is received, a user may need to store the data from the XML document into a relational database. Currently, this is a time consuming processing in which a user manually transfers the data from the XML document to the relational database" (col. 2, lines 50-54). This suggests the XML manually transfers to the relational database; however, the concept is the same as HTML. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Niazi and M2 system to include manually transferring XML document to relational database in order to allow the user to monitor and correct the transferred data if needed.

5. Claims 11 , 29 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi et al. (US. Patent No. 6,532,473 B2) M2 Presswire

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(Microstrategy: DSS broadcaster-the industry's first information broadcast server 03/20/1998) and further in view of Bright (US. Patent No. 6,657,647 B1).

Regarding on claim 11, Niazi teaches the method recited in claim 1; however, Niazi does not explicitly teach initializing the data retrieval stage further comprises presenting selection options to a user. On the other hand, Bright discloses "that object is then rendered prior to other objects on the display page, thereby enabling the user to control the order in which the objects are rendered. Preferably, the method also includes rendering placeholders corresponding to where respective objects are to appear on the display page so that the user can better select the object(s) the user desires to have rendered prior to the rendering of other objects" (col. 2, lines 24-30). This teaches the user can select the object for other processing. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Niazi's system to include the user selectable object as taught in Bright in order to provide the user interface to allow the user selection with user ease of use.

Conclusion

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

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

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Madnick et al.	(US. Patent No. 6,282,537 B1)	Patent date: 08/28/2001.
Gupta et al.	(US. Patent No. 5,826,256)	Patent date: 10/20/1998.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:
Commissioner of Patents and Trademarks
Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

(703) 872-9306 [Official Communication]

Baoquoc N. To

July 7, 2005


JEAN M. CORRIELLUS
PRIMARY EXAMINER

~~Sheet 2 of 4~~

Form PTO-1449 (modified)	Attorney Docket No. SVL920020050US1	Serial No.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT(S)' INFORMATION DISCLOSURE STATEMENT	Applicant(s): GUEST, Michael et al.	
(Use several sheets if necessary)	Filing Date: July 18, 2002	Group Art Unit:

PUBLICATIONS / OTHER ART

Examiner Initials	Citation
BTo	F. Esposito et al., "A Machine Learning Approach to Web Mining," AI'IA 99: Advances in Artificial Intelligence, 6 th Congress of Italian Association for Artificial Intelligence, September 14-17, 1999, pages 190-201..
BTo	T. Boyd et al., "The Active Guidebook - Information Retrieval by Keyword and Location," IFIP TC6 / WG6.1 Third International Working Conference on Distributed Applications and Interoperable Systems, 2001, pages 55-66.
BTo	H. Kim et al., "Building an XML and Web-Based Document Retrieval System," 20 th National Online Meeting, Proceedings 1999, May 18-20, 1999, pages 251 - 262.
BTo	Seung-Jin Lim et al., "An Automated Approach for Retrieving Hierarchical Data from HTML Tables," CIKM'99, 1999, pages 466 - 474.
BTo	Sangho Ha et al., "Mapping XML Documents to the Object-Relational Form," ISIE 2001, pages 1757-1761.
BTo	Michael Cutler et al., "Using the Structure of HTML Documents to Improve Retrieval," Proceedings of the USENIX Symposium on Internet Technologies and Systems, 1997, .

Examiner

Barbara Lynn Nguyen

Date Considered

01/27/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Best Available Copy

Notice of References Cited	Application/Control No. 10/198,827	Applicant(s)/Patent Under Reexamination GUEST ET AL.	
	Examiner Baoquoc N. To	Art Unit 2162	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,282,537	08-2001	Madnick et al.	707/4
	B	US-5,826,258	10-1998	Gupta et al.	707/4
	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	M2 Presswire, MICROSTRATEGY: DSS broadcaster-the industry's first information broadcaster server, 03/20/1998.
	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.

10/198,827

Examiner

Baoquoc N. To

Applicant(s)/Patent under
Reexamination

GUEST ET AL.

Art Unit

2162

✓	Rejected
=	Allowed

—	(Through numeral) Cancelled
+	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date					
Final	Original	7/7/05					
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Search Notes

Application/Control No.

10/198,827

Examiner

Baoquoc N. To

Applicant(s)/Patent under
Reexamination

GUEST ET AL.

Art Unit

2162

SEARCHED

Class	Subclass	Date	Examiner

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	(pars\$3 with (html or xml or sgml or sxml)) same (transfer\$3 or transmit\$5) same (frequency or interval or schedul\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:17
L2	0	(pars\$3 with (new or next) with (html or xml or sgml or sxml)) same (transfer\$3 or transmit\$5) same (frequency or interval or schedul\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:20
L3	0	(pars\$3 with ((new or next) with document\$1)) same ((similar\$4 or correspond\$3) with (parsed near2 data))same (transfer\$3 or transmit\$5) same (frequency or interval or schedul\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:22
L4	0	(pars\$3 with ((new or next) with document\$1)) same ((similar\$4 or correspond\$3) with (parsed near2 data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:22
L5	2	(pars\$3 with ((new or next) with document\$1)) with similar\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:23
L6	13	(pars\$3 with document\$1 with (similar\$5 or correspond\$3)) same (transfer\$4 or transmit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:26
L7	63	(retriev\$3 or search\$3) with (data near2 element\$1) with similar with (pars\$2 element\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:29
L8	0	7 and ((transmit\$4 or transfer\$4) with parsed with element\$1) and (frequency or schedul\$3 or interval\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:28
L9	0	7 and ((transmit\$4 or transfer\$4) with parsed with element\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:28

L10	0	(transfer\$4 or transmit\$4) with new with (pars\$2 near3 element\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:29
L11	25	(transfer\$4 or transmit\$4) with (pars\$2 near3 element\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:31
L12	0	(transfer\$4 or transmit\$4) with new\$2 with (pars\$2 near3 element\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:31
L13	2	((transfer\$4 or transmit\$4) with new\$2 with pars\$2 with element\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:38
L14	2	"6078924".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:36
L15	760	((transfer\$4 or transmit\$4) with ((new or more) near2 document\$1)) same (transfer\$4 or transmit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:39
L16	22	((transfer\$4 or transmit\$4) with ((new or more) near2 document\$1)) same (transfer\$4 or transmit\$4) same (schedul\$3 or interval or frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:40
L17	2	16 and (xml or html or sgml or sslt)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:41
L18	22	((transfer\$4 or transmit\$4) with ((new or more) near2 document\$1)) same (schedul\$3 or interval or frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:42
L19	2	18 and (xml or html or sgml or sslt)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:41

L20	0	((transfer\$4 or transmit\$4) with ((new or more) near2 (sgml or html or sxml))) same (schedule\$3 or interval or frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:41
L21	1	((transfer\$4 or transmit\$4) with pars\$2 with (html or sgml or xml or sxml)) same (schedule\$3 or interval or frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/07 21:43

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Filing Date: 07/18/2002

Reply to Office action of: 02/11/2005
Attorney Docket No.: SVL920020050US1

PATENT

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

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APR 23 2005

Title: "System and Method for Data Retrieval and Collection in a
Structured Format"

Applicants: Michael Guest, et al.

Attorney Docket No.: SVL920020050US1

Serial No.: 10/198,827

Examiner: Baoquoc N. To

Filed: 07/18/2002

Art Unit: 2162

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

AMENDMENT A

Sir:

Applicants submit this Amendment in response to the Office Action of February 11, 2005, and respectfully request that it be entered.

The amendments to the claims are reflected in the listing of the claims that begins on page 2 of this paper.

The Remarks section begins on page 11 of this paper.

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AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

CLAIMS

1. (Currently amended) A method of selectively retrieving data from a source file and automatically collecting retrieved data in a target database, comprising:

initializing a data retrieval stage by:

selecting the source file;

parsing selected data elements in the source file into a list of data elements;

selecting at least one of the data elements from the list to be stored in the target database;

identifying source locations of the selected at least one of the data elements;

selecting the target database and target locations in the target database and a schema in which the at least one of the data elements is to be stored in the target database;

saving the source locations and target locations of the at least one of the parsed data elements in a location file;

setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file; and

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automatically, selectively parsing new data elements corresponding to the collecting at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by ~~by: transferring at least one of the selectively parsed new data elements from the saved source locations in the source file to the saved target locations in the target database; and storing at least one of the transferred data elements in the target database in the schema.~~

2. (Canceled)

3. (Currently amended) The method of claim 1, further comprising processing ~~the at least one of the transferred data elements~~ the selectively parsed new data elements stored in the target database.

4. (Currently amended) The method of claim 3, wherein processing the selectively parsed new data elements ~~the at least one of the transferred data elements~~ is executed automatically.

5 - 6. (Canceled)

7. (Currently amended) The method of claim ~~[[6]]~~ 1, wherein the ~~data structure format is a network-based format~~ source file is formatted with tags.

8. (Currently amended) The method of claim ~~[[7]]~~ 1, wherein the ~~data structure format~~ at least one of the data elements from the sources locations are derived from an application output file is a markup language.

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9. (Currently amended) The method of claim [[8]] 1, wherein the at least one of the data elements from the sources locations are derived from an output of a server program data structure format is HTML.

10. (Currently amended) The method of claim [[6]] 1, wherein the target database is a relational database.

11. (Original) The method of claim 1, wherein initializing the data retrieval stage further comprises presenting selection options to a user.

12. (Canceled)

13. (Original) The method of claim 1, wherein the at least one of the data elements is dynamic.

14. (Currently amended) The method of claim 13, wherein initializing the data retrieval stage further comprises analyzing the at least one of the data elements new data elements.

15. (Currently amended) The method of claim 14, wherein the new data elements comprise at least one of the data elements comprises data that changes periodically.

16. (Currently amended) The method of claim 1, wherein processing the new data elements at least one of the transferred data is executed manually.

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17. (Currently amended) The method of claim 1, further comprising automatically updating ~~the at least one of the transferred data elements that are~~ stored in the target database.

18. (Canceled)

19. (Currently amended) The method of claim ~~[[1]]~~ 17, wherein automatically updating ~~the at least one of the transferred data elements stored in the target database~~ comprises periodically retrieving new data elements and updating the data elements stored in the target database with the retrieved new data elements ~~updating the at least one of the transferred data elements~~.

20. (Original) The method of claim 1, further comprising reinitializing the data retrieval stage.

21. (Currently amended) A computer program product having instruction codes for selectively retrieving data from a source file and for automatically collecting retrieved data in a target database ~~in a schema~~, comprising:

a first set of instruction codes for initializing a data retrieval stage by:

selecting the source file;

parsing selected data elements in the source file into a list of data elements;

selecting at least one of the data elements from the list to be stored in the target database;

identifying source locations of the selected at least one of the data elements;

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selecting the target database and target locations in the target database and the schema in which the at least one of the data elements is to be stored in the target database;

saving the source locations and target locations of the at least one of the parsed data elements in a location file;

setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file; and

a second set of instruction codes for automatically, selectively parsing new data elements corresponding to the ~~collecting~~ at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by ~~by-~~ transferring at least one of the selectively parsed new data elements from the saved source locations in the source file to the saved target locations in the target database; and storing at least one of the transferred data elements in the target database in the schema.

22. (Canceled)

23. (Currently amended) The computer program product of claim [[22]] ~~21~~, wherein the ~~data structure format is a network-based format~~ source file is formatted with tags.

24. (Currently amended) The computer program product of claim [[23]] ~~21~~, wherein the ~~data structure format~~ at least one of the data elements from the sources locations are derived from an application output file is a markup language.

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Filing Date: 07/18/2002

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25. (Currently amended) The computer program product of claim [[24]] 21, wherein the at least one of the data elements from the sources locations are derived from an output of a server program data structure format is HTML.

26. (Original) The computer program product of claim 21, wherein the target database is a relational database.

27. (Original) The computer program product of claim 21, wherein the at least one of the data elements is dynamic.

28. (Currently amended) The computer program product of claim 21, wherein the new data elements comprise at least one of the data elements comprises data that changes periodically.

29. (Original) The computer program product of claim 21, further comprising a third set of instruction codes for presenting transfer options to a user.

30. (Original) The computer program product of claim 21, further comprising a fourth set of instruction codes for reinitializing the data retrieval stage.

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31. (Currently amended) A system for selectively retrieving data from a source file and for automatically collecting retrieved data in a target database ~~in a schema~~, comprising:

means for initializing a data retrieval stage by:

selecting the source file;

parsing selected data elements in the source file into a list of data elements;

selecting at least one of the data elements from the list to be stored in the target database;

identifying source locations of the selected at least one of the data elements;

selecting the target database and target locations in the target database and the schema in which the at least one of the data elements is to be stored in the target database;

saving the source locations and target locations of the at least one of the parsed data elements in a location file;

setting a schedule frequency for transferring the at least one of the parsed data elements from the source locations to the target locations in the location file; and

means for automatically selectively parsing new data elements corresponding to the collecting at least one of the parsed data elements that has been previously selected during the initialization of the data retrieval stage, pursuant to the schedule frequency, by ~~by~~ transferring at least one of the selectively parsed new data elements from the saved source locations in the source file to the saved target locations in the target database; and storing at least one of the transferred data elements in the target database in the schema.

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32. (Canceled)

33. (Currently amended) The system of claim ~~[[32]]~~ 31, wherein the ~~data structure format is a network-based format~~ source file is formatted with tags.

34. (Currently amended) The system of claim ~~[[33]]~~ 21, wherein the ~~data structure format~~ at least one of the data elements from the sources locations are derived from an application output file is a markup language.

35. (Currently amended) The system of claim ~~[[34]]~~ 21, wherein the at least one of the data elements from the sources locations are derived from an output of a server program ~~data structure format is HTML.~~

36. (Original) The system of claim 31, wherein the target database is a relational database.

37. (Original) The system of claim 31, wherein the at least one of the data elements is dynamic.

38. (Currently amended) The system of claim 31, wherein the new data elements comprise at least one of the data elements comprises data that changes periodically.

39. (Original) The system of claim 31, further comprising means for presenting transfer options to a user.

40. (Original) The system of claim 31, further comprising means for reinitializing the data retrieval stage.

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41. (New) The method of claim 1, wherein the location file is stored in the target database.

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REMARKS

Applicants respectfully submit that all the claims presently on file are in condition for allowance, which action is earnestly solicited.

INFORMATION DISCLOSURE STATEMENT

Applicants thank the Examiner for considering the references cited by Applicants in the Information Disclosure Statement. However, Applicants note that the last citation on page 3 of 4 of the PTO-1449, copy enclosed, was not initialed by the Examiner. Applicants respectfully request that this citation be initialed and that the completed form be returned to Applicants.

THE CLAIMS

CLAIMS REJECTION UNDER 35 USC 112

Claims 6-9, 22-25, 32, and 34-35 were rejected under 35 U.S.C. 112 as containing certain informalities. The claims have now been amended in compliance with 35 USC 112.

CLAIMS REJECTION UNDER 35 USC 102

Claims 1, 3-10, 13-15, 17-28, and 30-36 were rejected under 35 U.S.C. 102(a) as being anticipated by Niazi et al. (U.S. Patent No. 6,532,473 B2), hereinafter referred to as "Niazi". Applicants respectfully submit that Niazi does not disclose all the elements and limitations of the claims on file. Consequently, the present claims are not anticipated under 35 U.S.C. 102, and the allowance of these claims is earnestly solicited. In support of this position, Applicants submit the following arguments:

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A. Legal Standard for Lack of Novelty (Anticipation)

The standard for lack of novelty, that is, for "anticipation," is one of strict identity. To anticipate a claim for a patent, a single prior source must contain all its essential elements, and the burden of proving such anticipation is on the party making such assertion of anticipation. Anticipation cannot be shown by combining more than one reference to show the elements of the claimed invention. The amount of newness and usefulness need only be minuscule to avoid a finding of lack of novelty.

The following are two court opinions in support of Applicants' position of non anticipation, with emphasis added for clarity purposes:

- "Anticipation under Section 102 can be found only if a reference shows exactly what is claimed; where there are differences between the reference disclosures and the claim, a rejection must be based on obviousness under Section 103." *Titanium Metals Corp. v. Banner*, 776 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985).
- "Absence from a cited reference of any element of a claim of a patent negates anticipation of that claim by the reference." *Kloster Speedsteel AB v. Crucible Inc.*, 793 F.2d 1565, 230 USPQ 81 (Fed. Cir. 1986), on rehearing, 231 USPQ 160 (Fed. Cir. 1986).

B. Brief Summary of the Present Invention

Prior to presenting substantive arguments in favor of the allowability of the claims on file, it might be desirable to summarize the present invention in view of the problems it addresses. One of the problems addressed by the present invention is exemplified as follows:

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Transferring data found on websites to a database format would allow significant data management and manipulation capabilities afforded through standard database software. However, there are currently no effective methods for capturing and replicating the website data within a database application.

While the user can manually transfer the data viewed on the Internet into a database, when transfer is done on a regular basis, such as might be done for a regular recording of stock prices, the manual transfer of data from the website to the user's database becomes inefficient, labor intensive, and prone to transcription errors. This is particularly true for large amounts of data on a large variety of web pages that are retrieved periodically, such as every 10 minutes, 45 minutes, daily, etc. While allowing the user to manually capture data and archive it, the conventional systems do not provide a mechanism for parsing individual data elements, replicating that data in a relational database format, or automatic data collection in a manner specified by the user.

Thus, prior to the advent of the present invention, there existed an unsatisfied need for a data collection and retrieval system and method to efficiently manipulate and analyze data displayed on websites, and to periodically store the data in a database in a preset format. The present system and method are able to retrieve Internet data automatically, and to assign that data to appropriate places in a database structure defined by the user. For data that changes regularly such as stock quotes or weather data, a system is desired which will automatically retrieve data based on a user defined schedule.

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C. Niazi et al. Patent

Niazi generally relates to a method of processing data files that are generated in accordance with different protocols. Each protocol defines a number of mark-up tags and each data file includes a number of respective mark-up tags, each mark-up tag having respective data associated therewith. The method including storing the data contained in a data file by receiving the data file, determining the protocol definition, and using the protocol definition to determine storage location(s) or processing action(s) for each of the mark-up tags of the data file. Once this has been done the protocol definition is used to determine contextual information for each of the mark-up tags of the data file. The marked up data contained within the data file, is then extracted and stored or processed in accordance with the determined contextual information and at least one of the storage location(s) or the processing action(s). Reference is made to the Abstract.

"Operational mode 1 of the present invention, to receive and process XML files of the above nature, will now be described.

On receipt of the XML document, the software controller 3 analyses the XML document, looking for references to a particular structure definition, a DTD, XML Schema or the like. If a structural definition is present, the software controller 3 attempts to obtain the corresponding definition within the inventions structural definition repository 11.

If such a definition exists then the software controller 3 can parse the XML file, **find the DBIs associated with each component of the XML file** and use the database location specified as part of the DBI definition to store the data in the appropriate place within the host application schema 9." Column 7, lines 1 - 15. (Emphasis added).

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D. Independent Claims 1, 21, and 31 in Light of Niazi

Applicants will now present arguments in support of the allowance of independent claims 1, 21, and 31, and the claims dependent thereon, over Niazi. Claim 1, as a representative claim, recites elements that are not described in Niazi.

Applicants have now amended claim 1 to clarify that the present process comprises two general stages: the initialization stage and the automatic, new data implementation stage. Applicants respectfully submit that Niazi does not describe all the elements of these two stages.

According to the initialization stage, (1) selected data elements are parsed, and (2) their source locations identified. (3) These source locations are associated with target locations, and (4) a transfer schedule frequency set.

The initialization stage is followed by **the automatic, new data implementation stage** according to which: (1) new data elements, corresponding to the selectively parsed data elements in the initialization stage, are selectively parsed, (2) pursuant to the schedule frequency, (3) by transferring the new selectively parsed data elements from the source locations that were identified and saved in the initialization stage to the target locations that were also saved in the initialization stage.

The office action rejected claim 1 in view of Niazi's teaching in column 7, lines 1 – 15, which excerpt is reproduced above for ease of reference. Applicants respectfully submit that pursuant to the foregoing excerpt, the

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above Niazi teaches a general conversion of data structured using a tag language, such as XML, into another format.

However, Niazi does not describe the foregoing two-stage method recited in the instant claim 1. In particular, Niazi does not select the data elements to be parsed, rather Niazi indiscriminately parses all the data elements, as stated in the excerpt above: "**find the DBIs associated with each component of the XML file.**"

In addition, **Applicants agree with the Examiner that Niazi does not disclose setting a schedule transfer frequency**. Reference is made to the Examiner's rejection ground relevant to claim 2.

Furthermore, **Niazi does not use the initialization stage to process new data** that are selectively parsed during the implementation stage.

As a result, based on the legal authorities above, Niazi does not anticipate claim 1 and claims dependent thereon, and are thus allowable. The allowance of these claims is respectfully requested.

The remaining independent claims 21 and 31 are also allowable for reciting similar elements to those of claim 1. As a result, independent claims 21 and 31 and the claims dependent thereon are also allowable.

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CLAIMS REJECTION UNDER 35 USC 103

A. CLAIM 2

Claim 2 was rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi in view of Gilbert et al. (US 2002/0184170 A1), hereinafter referred to as "Gilbert". Applicants respectfully traverse this rejection and submit that the claims on file are not obvious in view of cited references. In support of this position, Applicants submit the following arguments:

B. Legal Standards for Obviousness

The following are court opinions set the general standards in support of Applicants' position of non-obviousness, with emphasis added for added clarity:

- MPEP 706.02(j), **"To establish a prima facie case of obviousness, three basic criteria must be met.** First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, **the prior art reference (or references when combined) must teach or suggest all the claim limitations.** The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and not based on applicant's disclosure. In re Vaack, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991) ... The initial burden is on the examiner to provide some **suggestion of the desirability** of doing what the inventor has done. "To support the conclusion that the claimed invention is directed to obvious subject matter, either the **references must expressly or impliedly suggest the claimed invention** or the examiner must present a convincing line of reasoning as to why the artisan would have found the claimed invention to have been obvious in light of the teachings of the references." Ex parte Clapp, 227 USPQ 972, 973 (Bd. Pat. App. & Inter. 1985)."

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- **In determining the differences between the prior art and the claims, the question under 35 U.S.C. 103 is not whether the differences themselves would have been obvious, but whether the claimed invention as a whole would have been obvious.** The prior art perceived a need for mechanisms to dampen resonance, whereas the inventor eliminated the need for dampening via the one-piece gapless support structure. "Because that insight was contrary to the understandings and expectations of the art, the structure effectuating it would not have been obvious to those skilled in the art." 713 F.2d at 785, 218 USPQ at 700 (citations omitted).
- MPEP §2143.03, "All Claim Limitations Must Be Taught or Suggested: 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)."
- "With respect to core factual findings in a determination of patentability, however, the **Board cannot simply reach conclusions based on its own understanding or experience** -- or on its assessment of what would be basic knowledge or common sense. **Rather, the Board must point to some concrete evidence in the record** in support of these findings." See In re Zurko, 258 F.3d 1379 (Fed. Cir. 2001).
- "**Obviousness cannot be established** by combining the teachings of the prior art to produce the claimed invention, **absent some teaching or suggestion** supporting the combination." In re Fine, 837 F.2d at 1075, 5 USPQ2d at 1598 (citing ACS Hosp. Sys. v. Montefiore Hosp., 732 F.2d 1572, 1577, 221 USPQ 929, 933 (Fed. Cir. 1984)). **What a reference teaches** and whether it teaches toward or **away from the claimed invention** are questions of fact. See Raytheon Co. v. Roper Corp., 724 F.2d 951, 960-61, 220 USPQ 592, 599-600 (Fed. Cir. 1983), cert. denied, 469 U.S. 835, 83 L. Ed. 2d 69, 105 S. Ct. 127 (1984). "
- "When a rejection depends on a combination of prior art references, there must be **some teaching, suggestion, or motivation** to combine the references. See In re Geiger, 815 F.2d 686, 688, 2 USPQ2d 1276, 1278 (Fed. Cir. 1987). **Obviousness can only be established by combining or modifying**

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the teachings of the prior art to produce the claimed invention **where there is some teaching, suggestion, or motivation** to do so found either explicitly or implicitly in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See MPEP 2143.01; In re Kotzab, 217 F.3d 1365, 1370, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000); In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988); and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

- "We have noted that **evidence of a suggestion, teaching, or motivation to combine** may flow from the prior art references themselves, the knowledge of one of ordinary skill in the art, or, in some cases, from the nature of the problem to be solved, see Pro-Mold & Tool Co. v. Great Lakes Plastics, Inc., 75 F.3d 1568, 1573, 37 USPQ2d 1626, 1630 (Fed. Cir. 1996), Para-Ordinance Mfg. v. SGS Imports Intern., Inc., 73 F.3d 1085, 1088, 37 USPQ2d 1237, 1240 (Fed. Cir. 1995), although "the suggestion more often comes from the teachings of the pertinent references," Rouffet, 149 F.3d at 1355, 47 USPQ2d at 1456. The range of sources available, however, does not diminish the requirement for actual evidence. That is, **the showing must be clear and particular**. See, e.g., C.R. Bard, 157 F.3d at 1352, 48 USPQ2d at 1232. **Broad conclusory statements regarding the teaching of multiple references, standing alone, are not "evidence."** E.g., McElmurry v. Arkansas Power & Light Co., 995 F.2d 1576, 1578, 27 USPQ2d 1129, 1131 (Fed. Cir. 1993) ("Mere denials and conclusory statements, however, are not sufficient to establish a genuine issue of material fact."); In re Sicheri, 566 F.2d 1154, 1164, 196 USPQ 209, 217 (CCPA 1977)." See In re Dembiczak, 175 F.3d 994 (Fed. Cir. 1999).
- MPEP §2143.01, "The Prior Art Must Suggest The Desirability Of The Claimed Invention: There are three possible sources for a motivation to combine references: the nature of the problem to be solved, the teachings of the prior art, and the knowledge of persons of ordinary skill in the art." In re Rouffet, 149 F.3d 1350, 1357, 47 USPQ2d 1453, 1457-58 (Fed. Cir. 1998) (**The combination of the references taught every element of the claimed invention, however without a motivation to combine, a rejection based on a prima facie case of obvious was held improper.**). The level of skill in the art cannot be relied upon to provide the suggestion to combine references. Al-Site Corp. v. VSI Int'l Inc., 174 F.3d 1308, 50 USPQ2d 1161 (Fed. Cir. 1999).
- "To prevent the use of hindsight based on the invention to defeat patentability of the invention, **this court requires the examiner to show a motivation to combine the references** that create the case of obviousness. In other words, **the examiner must show reasons** that the skilled artisan,

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confronted with the same problems as the inventor and with no knowledge of the claimed invention, would select the elements from the cited prior art references **for combination in the manner claimed.**" See *In re Rouffet*, 149, F.3d 1350 (Fed. Cir. 1998).

- The mere fact that references can be combined or modified does not render the resultant combination obvious **unless the prior art also suggests the desirability of the combination.** *In re Mills*, 916 F.2d 680, 16 USPQ2d 1430 (Fed. Cir. 1990). Although a prior art device "may be capable of being modified to run the way the apparatus is claimed, **there must be a suggestion or motivation in the reference** to do so." 916 F.2d at 682, 16 USPQ2d at 1432.). See also *In re Fritch*, 972 F.2d 1260, 23 USPQ2d 1780 (Fed. Cir. 1992) (flexible landscape edging device which is conformable to a ground surface of varying slope not suggested by combination of prior art references).
- If the **proposed modification would render the prior art invention being modified unsatisfactory** for its intended purpose, **then there is no suggestion or motivation** to make the proposed modification. *In re Gordon*, 733 F.2d 900, 221 USPQ 1125 (Fed. Cir. 1984).

Applicants have canceled claim 2 without prejudice, and incorporated its limitation in amended claim 1. As a result the allowability of claim 1 over the cited references will now be discussed. As presented earlier, Niazi does not describe all the elements of the two-stage process recited in claim 1. In addition, in view of the obviousness rejection, Applicants further state that **Niazi fails to consider the claimed invention as a whole,** since Niazi's method does not perform the same or similar function, or provide the same or similar advantages, as the present invention.

Applicants are in agreement with the Examiner that Niazi does not explicitly disclose setting a scheduled frequency for the data transfer. As a substitute for this missing element, the Examiner resorts to Gilbert. Similarly to Niazi, Gilbert does not capture the essence of the present invention, and thus **neither Niazi, Gilbert, nor the combination thereof, considers the claimed invention as a**

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whole. As a result, the hypothetical combination of Niazi and Gilbert, does not consider the invention as a whole, and thus, according to the legal authorities above, such a combination does not satisfy the prime facie case of obviousness.

Applicants submit that the concept of scheduling data transfer events, in general, has been well known, but not when used in the context of the present invention. In addition, Applicants do not profess to claiming this general concept independently from the other elements and limitations of the present invention as recited in amended claim 1. Applicants respectfully request that the claimed invention be considered as a whole and not parsed in hindsight.

Claim 1 is thus not obvious in view of Niazi and Gilbert, and the allowance of this claim and the claims dependent thereon is earnestly solicited.

independent claims 21 and 31 are allowable over Niazi and Gilbert, whether considered individually or in combination with each other, for containing a similar subject matter to that of claim 1. Therefore, claims 21 and 31 and the claims dependent thereon are also allowable.

C. CLAIMS 11, 16, AND 29

Claims 11, 16, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi in view of Chau et al. (US. Patent No. 6,636,845 B2), or Bright (US. Patent No. 6,657,647 B1). Applicants respectfully traverse this rejection and submit that the rejected claims on file are not obvious in view of cited references.

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In support of this position, Applicants submit that they are in agreement with the Examiner that Niazi does not explicitly teach processing the at least one of the transferred data is executed manually, and further that Niazi does not explicitly teach initializing the data retrieval stage further comprises presenting selection options to a user. Applicants further submit that the concepts of manual transfer of data and presenting selection options to a user, in general, have been well known, but not when used in the context of the present invention. In addition, Applicants do not profess to claiming these general concepts independently from the other elements and limitations of the present invention as recited in amended claims 11, 16, and 29. Applicants respectfully request that the claimed invention be considered as a whole and not parsed in hindsight.

New Claim 41

Applicants submit that the new claim 41 is allowable and does not require a new search to be conducted by the Examiner, as it depends on allowable claim 1.

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CONCLUSION

All the claims presently on file in the present application are in condition for immediate allowance, and such action is respectfully requested. If it is felt for any reason that direct communication would serve to advance prosecution of this case to finality, the Examiner is invited to call the undersigned at the below-listed telephone number.

Respectfully submitted,

Date: April 23, 2005

Samuel A. Kassatly Law Office
20690 View Oaks Way
San Jose, CA 95120
Tel: (408) 323-5111
Fax: (408) 521-0111



Samuel A. Kassatly
Attorney for Applicants
Reg. No. 32,247

Enclosure: Page 3 of 4 of Form PTO-1449

Sheet 3 of 4

Form PTO-1449 (modified)	Attorney Docket No. SVL920020050US1	Serial No.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT(S)' INFORMATION DISCLOSURE STATEMENT	Applicant(s): GUEST, Michael et al.	
(Use several sheets if necessary)	Filing Date: July 18, 2002	Group Art Unit:

PUBLICATIONS / OTHER ART

Examiner Initials	Citation
Bfo	F. Esposito et al., "A Machine Learning Approach to Web Mining," AI'IA 99: Advances in Artificial Intelligence, 6 th Congress of Italian Association for Artificial Intelligence, September 14-17, 1999, pages 190-201..
Bfo	T. Boyd et al., "The Active Guidebook - Information Retrieval by Keyword and Location," IFIP TC6 / WG6.1 Third International Working Conference on Distributed Applications and Interoperable Systems, 2001, pages 55-66.
Bfo	H. Kim et al., "Building an XML and Web-Based Document Retrieval System," 20 th National Online Meeting, Proceedings 1999, May 18-20, 1999, pages 251 - 262.
Bfo	Seung-jin Lim et al., "An Automated Approach for Retrieving Hierarchical Data from HTML Tables," CIKM'99, 1999, pages 466 - 474.
Bfo	Sangho Ha et al., "Mapping XML Documents to the Object-Relational Form," ISIE 2001, pages 1757-1761.
	Michael Cutler et al., "Using the Structure of HTML Documents to Improve Retrieval," Proceedings of the USENIX Symposium on Internet Technologies and Systems, 1997, .

Examiner

Barbara Anne Nguyen

Date Considered

01/27/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

**RECEIVED
CENTRAL FAX CENTER****APR 23 2005****SAMUEL A. KASSATLY**Attorney-at-Law
Technology and Intellectual Property Matters20690 View Oaks Way
San Jose, CA 95120
Telephone: (408) 323-5111
Facsimile: (408) 521-0111

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FACSIMILE TRANSMITTAL

DATE: 04/23/2005	FROM: Samuel A. Kassatly
TO: Examiner Baoquoc N. To	TELEPHONE NO.: (408) 323-5111
U.S. Patent and Trademark Office	FACSIMILE NO.: (408) 521-0111
Group Art Unit: 2162	ATTY DOCKET NO.: SVL920020050US1
FACSIMILE NO.: 703 872-9306	SUBJECT: Amendment A

Title: "System and Method for Handling Resource Transaction Requests"

Applicant(s): Michael Guest

Attorney Docket No.: SVL920020050US1

Serial No.: 10/198,827

Filing Date: 07/18/2002

TOTAL NUMBER OF PAGES INCLUDING THIS COVER PAGE 27**THANK YOU FOR FORWARDING THIS DOCUMENT TO EXAMINER Baoquoc N. To
AS SOON AS POSSIBLE.**

Respectfully submitted,



Samuel A. Kassatly
Reg. No. 32,247
Date: 04/23/2005Enclosure: Amendment A**CERTIFICATE OF FAXING**I hereby certify that this correspondence is being faxed to the U.S. Patent and Trademark Office,
to fax No. 703 872-9306, on 04/23/2005.

Samuel A. Kassatly

PTO/SB/21 (08-04)

Approved for use through 07/31/2006. OMB 0551-0031

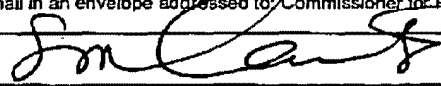
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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/198,827	
	Filing Date	07/18/2002	
	First Named Inventor	Michael Guest	
	Art Unit	2162	
	Examiner Name	Baoquoc N. To	
Total Number of Pages in This Submission	27	Attorney Docket Number	SVL920020050US1

ENCLOSURES (Check all that apply)		
☒ Fee Transmittal Form ☐ Fee Attached ☒ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☐ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.62 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation ☐ Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Change of Correspondence Address ☐ Status Letter ☒ Other Enclosure(s) (please identify below): 1) Facsimile cover page 2) Certificate of Transmission 3) Page 3 of 4 of IDS
Remarks _____		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Samuel A. Kassatly, Law Office		
Signature			
Printed name	Samuel A. Kassatly		
Date	04/23/2005	Reg. No.	32,247

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Samuel A. Kassatly	Date	04/23/2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours 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.

PTO/SB/17 (12-04v2)
Approved for use through 07/31/2008, OMB 0651-0032
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Effective on 12/09/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

0

Complete If Known

Application Number 10/198,827
Filing Date 07/18/2002
First Named Inventor Michael Guest
Examiner Name Baoquoc N. To
Art Unit 2162
Attorney Docket No. SVL920020050US1

METHOD OF PAYMENT (check all that apply)

- ☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____
- ☒ Deposit Account Deposit Account Number 09-0460 Deposit Account Name International Business Machines
- For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
- ☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
- ☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	0
Design	200	100	100	50	130	65	0
Plant	200	100	300	150	160	80	0
Reissue	300	150	500	250	600	300	0
Provisional	200	100	0	0	0	0	0

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
Total Claims	Extra Claims	Fee (\$)
34 - 20 or HP = 0	x 50	= 0
HP = highest number of total claims paid for, if greater than 20.		
Indep. Claims	Extra Claims	Fee (\$)
3 - 3 or HP = 0	x 200	= 0
HP = highest number of independent claims paid for, if greater than 3.		
		Multiple Dependent Claims
		Fee (\$)
		360
		Fee Paid (\$)
		0

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets - 100 = Extra Sheets / 50 = Number of each additional 50 or fraction thereof x Fee (\$)

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge):

SUBMITTED BY		
Signature	Registration No. (Attorney/Agent) 32,247	Telephone 408-323-5111
Name (Print/Type) Samuel A. Kassatly		Date 04/23/2005

This collection of information is required by 37 CFR 1.136. 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 30 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.

PATENT APPLICATION FEE DETERMINATION RECORD

Effective October 1, 2001

Application or Docket Number

10198827

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	40	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	40 minus 20 =	* 20
INDEPENDENT CLAIMS	3 minus 3 =	* 0
MULTIPLE DEPENDENT CLAIM PRESENT ☐		

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

CLAIMS AS AMENDED - PART II

4-23-05

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	35	Minus ** 35	= 0
Independent	3	Minus *** 3	= 0
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM ☐			

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus **	=
Independent	*	Minus ***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM ☐			

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus **	=
Independent	*	Minus ***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM ☐			

* 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.

SMALL ENTITY TYPE ☐

RATE	FEE
BASIC FEE	370.00
X\$ 9=	
X42=	
+140=	
TOTAL	

OR OTHER THAN SMALL ENTITY

RATE	FEE
BASIC FEE	740.00
X\$18=	360.00
X84=	
+280=	
TOTAL	1100.00

SMALL ENTITY TYPE ☐

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

OR OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/198,827

07/18/2002

Michael Alan Guest

SVL920020050US1

9986

28342

7590

02/11/2005

SAMUEL A. KASSATLY LAW OFFICE
20690 VIEW OAKS WAY
SAN JOSE, CA 95120

EXAMINER

TO, BAOQUOC N

ART UNIT

PAPER NUMBER

2162

DATE MAILED: 02/11/2005

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

Office Action Summary	Application No.	Applicant(s)	
	10/198,827	GUEST ET AL.	
	Examiner	Art Unit	
	Baoquoc N To	2162	

-- 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) 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 the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- 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 ____.
- 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) 1-36 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) 1-36 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) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) ☐ Notice of Informal Patent Application (PTO-152) |
| 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) ☐ Other: ____. |

DETAILED ACTION

1. Claims 1-35 are pending in this application.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 07/18/2002 and 11/01/2004. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 6 recites the limitation "the data structure format" in line 1. There is insufficient antecedent basis for this limitation in the claim. For the purpose of examination, the examiner assume "the data structured format" recited in claim is not the same as the target database format.

Claims 7-9 depend on claim 6; therefore, they are rejected under the same reason.

Claim 22 recites the limitation "the data structure format" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claims 23-25 depend on claim 22; therefore, they are rejected under the same reason.

Claim 32 recites the limitation "the data structure format" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claims 34-35 depend on claim 32; therefore, they rejected under the same reason.

Claim Rejections - 35 USC § 102

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 (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 3-10, 13-15, 17-28 and 30-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Niazi et al. (US. Patent No. 6,532,473 B2).

Regarding on claims 1, 21 and 31, Niazi teaches a method of selectively retrieving data from a source file and automatically collecting retrieved data in a target database, comprising:

Initializing a data retrieval stage by:

Selecting the source file (XML document) (col. 7, lines 5-6);

Parsing selected data elements in the source file into a list of data elements (parse the XML file) (col. 7, lines 11-12);

Selecting at least one of the data elements from the list to be stored in the target database (a component) ((col. 7, lines 11-13);

Selecting the target database and a schema in which the at least one of the data element is to be stored in the target database (find the DBIs associated with each component of the XML file) (col. 7, lines 11-13); and

Automatically collecting at least one of the parsed data elements by:

Transferring at least one of the parsed data elements from the source file to the target database (the transferred step is done prior to the storing step) (col. 7, lines 13-15); and

Storing at least one of the transferred data elements in the target database in the schema (use the database location specified as part of the DBI definition to store the data in the appropriate place within the host application schema 9) (col. 7, lines 13-15).

Regarding on claim 3, Niazi teaches the method recited in claim 1, further comprising processing the at least one of the transferred data elements stored in the target database (use the database location specified as part of the DBI definition to store the data in the appropriate place within the host application schema 9) (col. 7, lines 13-15).

Regarding on claim 4, Niazi teaches the method recited in claim 3, wherein processing the at least one of the transferred data elements is executed automatically (col. 7, lines 13-15)

Regarding on claim 5, Niazi teaches the method of claim 4, wherein initializing the data retrieval stage is executed automatically (col. 7, lines 5-10).

Regarding on claims 6, 22 and 32, Niazi teaches the method recited in claim 1, wherein the data structure format is different from the schema of the target database (col. 5, lines 15-21).

Regarding on claims 7, 23 and 33, Niazi teaches the method recited in claim 6, wherein the data structure format is a network-based format (XML format) (col. 5, lines 16-21).

Regarding on claims 8, 24 and 34, Niazi teaches the method recited in claim 7, wherein the data structure format is a markup language (XML format) (col. 5, lines 16-21).

Regarding on claims 9, 25 and 35, Niazi teaches the method recited in claim 8, wherein the data structure format is HTML (XML format) (col. 5, lines 16-21).

Regarding on claims 10, 26 and 36, Niazi teaches the method recited in claim 6, wherein the target database is a relational database (DBIs) (col. 5, lines 16-21).

Regarding on claims 13 and 27, Niazi teaches the method recited in claim 1, wherein the at least one of the data elements is dynamic (col. 7, lines 5-10).

Regarding on claim 14, Niazi teaches the method recited in claim 13, wherein initializing the data retrieval stage further comprises analyzing the at least one of the data elements (col. 7, lines 5-10).

Regarding on claims 15 and 28, Niazi teaches the method recited in claim 14, wherein the at least one of the data elements comprises data that changes periodically (col. 7, lines 5-10).

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Regarding on claim 17, Niazi teaches the method recited in claim 1, further comprising automatically updating the at least one of the transferred data elements that are stored in the target database (updating) (col. 7, lines 62-67).

Regarding on claim 18, Niazi teaches the method recited in claim 17, wherein automatically updating the at least one of the transferred data elements comprises reading control information from the database tables (updating) (col. 7, lines 62-67); and

Comparing at least one of the selected data elements to the corresponding at least one of the data elements stored in the database (updating) (col. 7, lines 62-67).

Regarding on claim 19, Niazi teaches the method recited in claim 1, wherein automatically updating the at least one of the transferred data elements comprises periodically updating the at least one of the transferred data elements (updating) (col. 7, lines 62-67).

Regarding on claims 20 and 30, Niazi teaches the method recited in claim 1, further comprising reinitializing the data retrieval stage (updating) (col. 7, lines 62-67).

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.

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi et al. (US. Patent No. 6,532,473 B2) in view of Gilbert et al. (US 2002/0184170 A1).

Regarding on claim 2, Niazi teaches a method recited in claim 1; however, Niazi does not explicitly teach initializing the data retrieval stage further comprising setting a schedule frequency for transferring the at least one of the parsed data elements from the source file to the target database. On the other hand, Gilbert teaches "the data to be parsed can be acquired through various communication means including regularly scheduled modem dial-ups, Web-based access, asynchronous Extensible Markup Language (XML), File Transfer Protocol (FTP), or any other type of on-line access" (page 2, paragraph 23). This suggests the parsed data being transferred as set schedule. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Niazi's system to include scheduling transferred of parsed data as taught in Gilbert in order to receive data processing without user intervention.

6. Claims 16 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi et al. (US. Patent No. 6,532,473 B2) in view of Chau et al. (US. Patent No. 6,636,845 B2).

Regarding on claims 16 and 29, Niazi teaches the method recited in claim 1; however, Niazi does not explicitly teach processing the at least one of the transferred data is executed manually. However, Chau teaches "additionally, when an XML document is received, a user may need to store the data from the XML document into a relational database. Currently, this is a time consuming processing in which a user manually transfers the data from the XML document to the relational database" (col. 2,

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lines 50-54). This suggests the XML manually transfers to the relational database; however, the concept is the same as HTML. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Niazi's system to include manually transferring XML document to relational database in order to allow the user to monitor and correct the transferred data if needed.

7. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niazi et al. (US. Patent No. 6,532,473 B2) in view of Bright (US. Patent No. 6,657,647 B1).

Regarding on claim 11, Niazi teaches the method recited in claim 1; however, Niazi does not explicitly teach initializing the data retrieval stage further comprises presenting selection options to a user. On the other hand, Bright discloses "that object is then rendered prior to other objects on the display page, thereby enabling the user to control the order in which the objects are rendered. Preferably, the method also includes rendering placeholders corresponding to where respective objects are to appear on the display page so that the user can better select the object(s) the user desires to have rendered prior to the rendering of other objects" (col. 2, lines 24-30). This teaches the user can select the object for other processing. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Niazi's system to include the user selectable object as taught in Bright in order to provide the user interface to allow the user selection with user ease of use.

Regarding on claim 12, Niazi does not explicitly teach initializing the data retrieval stage further comprises presenting options for the design of the schema to a user. However, Bright discloses "that object is then rendered prior to other objects on the display page, thereby enabling the user to control the order in which the objects are rendered. Preferably, the method also includes rendering placeholders corresponding to where respective objects are to appear on the display page so that the user can better select the object(s) the user desires to have rendered prior to the rendering of other objects" (col. 2, lines 24-30). This teaches the user can select the object for other processing. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Niazi's system to include the user selectable object as taught in Bright in order to provide the user interface to allow the user selection with user ease of use.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rys et al. (US. 6,704,736) Patent date : 03/09/2004.

Rys et al. (US. 2004/0230569 A1) Patent date: 11/18/2004.

Dodrill et al. (US. 6,847,999 B1) Patent date: 01/25/2005.

Niazi et al. (US. 2002/0013791 A1) Patent date: 01/31/2002.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-

Art Unit: 2162

4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

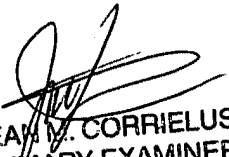
Commissioner of Patents and Trademarks
Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

(703) 872-9306 [Official Communication]

Baoquoc N. To

January 29, 2005


JEAN M. CORRIELUS
PRIMARY EXAMINER

Notice of References Cited	Application/Control No. 10/198,827	Applicant(s)/Patent Under Reexamination GUEST ET AL.	
	Examiner Baoquoc N To	Art Unit 2162	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,532,473	03-2003	Niazi et al.	707/103X
	B	US-6,657,647	12-2003	Bright, Walter G.	715/856
	C	US-2002/0184170	12-2002	Gilbert et al.	706/20
	D	US-6,636,845	10-2003	Chau et al.	707/1
	E	US-6,847,999	01-2005	Dodrill et al.	709/225
	F	US-2002/0013791	01-2002	Niazi et al.	707/516
	G	US-2004/0230569	11-2004	Rys et al.	707/003
	H	US-6,704,736	03-2004	Rys et al.	707/100
	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.

Form PTO-1449 (modified)	Attorney Docket No. SVL920020050US1	Serial No. ^{PTO} 1046 U.S. PTO 10/198827
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT(S)' INFORMATION DISCLOSURE STATEMENT	Applicant(s): GUEST, Michael et al.	
(Use several sheets if necessary)	Filing Date: July 18, 2002	Group Art Unit:

U.S. PATENT DOCUMENTS

Examiner Initials	Document No.	Date	Name	Class / Subclass	Filing Date
BTO	5,848,413	12.08.1998	Wolf	707/10	01.13.1995
BTO	5,893,127	04.06.1999	Tyan et al.	707/513	11.18.1996
BTO	5,974,430	10.26.1999	Mutschler, III et al.	707/505	09.30.1997
BTO	6,078,924	06.20.2000	Ainsbury et al.	707/101	01.30.1998
BTO	6,128,624	10.03.2000	Papierniak et al.	707/104	11.12.1997
BTO	6,141,666	10.30.2000	Tobin	707/513	01.21.1997
BTO	6,327,589	12.04.2001	Blewett et al.	707/5	06.24.1998
BTO	6,356,899	03.12.2002	Chakrabarti et al.	707/5	03.03.1999
BTO	2001/0042089A1	11.15.2001	Tobin	709/1	02.12.2001
BTO	2001/0047356A1	11.29.2001	Ren et al.	707/9	04.12.2001
BTO	2001/0018707A1	08.30.2001	Seto	709/218	02.27.2001
BTO	2001/0007991A1	07.12.2001	Tobin	709/203	02.13.2001
BTO	2002/0010682A1	01.24.2002	Johnson	705/59	07.19.2001

Examiner

Barbara Regan

Date Considered

01/27/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Form PTO-1449 (modified)	Attorney Docket No. SVL920020050US1	Serial No.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT(S)' INFORMATION DISCLOSURE STATEMENT	Applicant(s): GUEST, Michael et al.	
(Use several sheets if necessary)	Filing Date: July 18, 2002	Group Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document No.	Publication Date	Country	Int'l Class Subclass	Translation Yes No
Bfo	WO 01/75673A2	10.11.2001	WIPO/PCT	G06F 17/30	No
Bfo	WO 01/24046A2	04.05.2001	WIPO/PCT	G06F 17/30	No
Bfo	2,250,663	14.19.2000	Canada	G06F 17/30	No

Examiner Bao Qun Nguyen To Date Considered 01/27/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance *and* not considered. Include copy of this form with next communication to applicant(s).

Form PTO-1449 (modified)	Attorney Docket No. SVL920020050US1	Serial No.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT(S)' INFORMATION DISCLOSURE STATEMENT	Applicant(s): GUEST, Michael et al.	
(Use several sheets if necessary)	Filing Date: July 18, 2002	Group Art Unit:

PUBLICATIONS / OTHER ART

Examiner Initials	Citation
BFO	F. Esposito et al., "A Machine Learning Approach to Web Mining," AI*IA 99: Advances in Artificial Intelligence, 6 th Congress of Italian Association for Artificial Intelligence, September 14-17, 1999, pages 190-201..
BFO	T. Boyd et al., "The Active Guidebook - Information Retrieval by Keyword and Location," IFIP TC6 / WG6.1 Third International Working Conference on Distributed Applications and Interoperable Systems, 2001, pages 55-66.
BFO	H. Kim et al., "Building an XML and Web-Based Document Retrieval System," 20 th National Online Meeting, Proceedings 1999, May 18-20, 1999, pages 251 - 262.
BFO	Seung-Jin Lim et al., "An Automated Approach for Retrieving Hierarchical Data from HTML Tables," CIKM'99, 1999, pages 466 - 474.
BFO	Sangho Ha et al., "Mapping XML Documents to the Object-Relational Form," ISIE 2001, pages 1757-1761.
	Michael Cutler et al., "Using the Structure of HTML Documents to Improve Retrieval," Proceedings of the USENIX Symposium on Internet Technologies and Systems, 1997, .

Examiner

Barbara Nguyen Sw

Date Considered

01/27/05

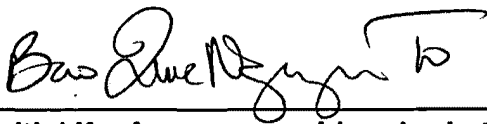
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance *and* not considered. Include copy of this form with next communication to applicant(s).

Form PTO-1449 (modified)	Attorney Docket No. SVL920020050US1	Serial No.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT(S)' INFORMATION DISCLOSURE STATEMENT	Applicant(s): GUEST, Michael et al.	
(Use several sheets if necessary)	Filing Date: July 18, 2002	Group Art Unit:

PUBLICATIONS / OTHER ART

Examiner Initials	Citation
BTo	Tao Guan et al., "KPS --- A Web Information Mining Algorithm," downloaded from WWW URL http://www8.org/w8-papers/4a-search-mining/kps/kps.html , on March 15, 2002.
BTo	D. Taniar et al., "Structured Web Pages Management for Efficient Data Retrieval," IEEE 2000, pages 97-104.
BTo	F. Ferri et al., "Toward a Retrieval of HTML Documents Using a Semantic Approach," IEEE 2000, pages 1571-1574.
BTo	H. Kinutani et al., "Identifying Result Subdocuments of XML Search Conditions," IEEE 2001, pages 254-261.
BTo	J. Cardiff et al., "Querying Multiple Databases Dynamically on the World Wide Web," IEEE 2000, pages 238-245.

Examiner



Date Considered

01/27/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance *and* not considered. Include copy of this form with next communication to applicant(s).

Index of Claims



Application No.

10/198,827

Examiner

Baoquoc N To

Applicant(s)

GUEST ET AL.

Art Unit

2162

√	Rejected
=	Allowed

—	(Through numeral) Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date									
Final	Original	1/28/05									
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Search Notes

Application No.

10/198,827

Examiner

Baoquoc N To

Applicant(s)

GUEST ET AL.

Art Unit

2162

SEARCHED

Class	Subclass	Date	Examiner
707	102,104.1	1/26/2005	BTO
707	102,104.1	1/17/2005	BTO
707	513	1/28/2005	BTO

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
East image Search	1/26/2005	BTO
East Image Search	1/27/2005	BTO
East Image Search	1/28/2005	bto

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	32	(pars\$2 with ((html or xml) near2 (file\$1 or document\$1))) same ((stor\$3 or cach\$3) with (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:55
L4	20	3 and updat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:41
L5	3	3 and (updat\$3 with data with (table\$1 or relational near2 database\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:34
L6	53	(pars\$3 near2 (document\$1 or file\$1)) and (stor\$3 with (pars\$2 near4 (document\$1 or file\$1)) with (table\$1 or schema\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:34
L7	6	L6 and (updat\$3 with data with (table\$1 or relational near2 database\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:39
L8	1	L6 and (updat\$3 with data with (table\$1 or relational near2 database\$1)) and (periodic\$3 or schedul\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:39
L9	4	3 and (transfer\$4 with (manual or automatic\$4 or periodic\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:47
L10	6	3 and (transfer\$4 with (manual\$2 or automatic\$4 or periodic\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 16:34
L11	3	6 and (transfer\$4 with (manual\$2 or automatic\$4 or periodic\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:49
L12	1	3 and ((user near2 select\$3) with transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:53

L13	0	3 and ((frequency or schedul\$3 or schedul\$3) with transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:54
L14	0	6 and ((frequency or schedul\$3 or schedul\$3) with transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:54
L15	0	6 and ((frequency or schedul\$3 or interval) with transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:54
L16	0	3 and ((frequency or schedul\$3 or interval) with transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:54
L17	2	(pars\$2 with ((html or xml) near2 (file\$1 or document\$1))) same ((frequency or schedul\$3 or interval) with transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:57
L18	2	(pars\$2 with ((html or xml or sgml) near2 (file\$1 or document\$1))) same ((frequency or schedul\$3 or interval) with transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:57
L19	2	(pars\$2 with ((html or xml or sgml or sxml) near2 (file\$1 or document\$1))) same ((frequency or schedul\$3 or interval) with transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 15:57
L20	17	3 and (user near2 select\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 16:34

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(pars\$3 with (html near2 (document\$1 or file\$1))) same (stor\$3 with (pars\$2 near4 (document\$1 or file\$1)) with (table\$1 or schema\$1 or *relational near2 database\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 12:26
L2	0	(pars\$3 with (html near2 (document\$1 or file\$1))) and (stor\$3 with (pars\$2 near4 (document\$1 or file\$1)) with (table\$1 or schema\$1 or *relational near2 database\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 12:26
L3	20	(pars\$3 with ((html or xml) near2 (document\$1 or file\$1))) and (stor\$3 with (pars\$2 near4 (document\$1 or file\$1)) with (table\$1 or schema\$1 or *relational near2 database\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 12:26
L4	20	(pars\$3 with ((html or xml) near2 (document\$1 or file\$1))) and (stor\$3 with (pars\$2 near4 (document\$1 or file\$1)) with (table\$1 or schema\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 12:54
L5	53	(pars\$3 near2 (document\$1 or file\$1)) and (stor\$3 with (pars\$2 near4 (document\$1 or file\$1)) with (table\$1 or schema\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 12:54
L6	6	5 and (html or xml or gxml) and "715"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 13:00
L7	11	5 and "715"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/28 13:00

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1	((stor\$3 with (pars\$2 near2 data with (html or xml)) same (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 17:42
L3	7	((stor\$3 with (pars\$2 near2 (html or xml)) with (file\$1 or document\$1)) same (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 17:44
L4	54	(stor\$3 same ((pars\$2 near2 (html or xml)) with (file\$1 or document\$1)) same (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 17:47
L5	23	4 and "707"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 17:44
L6	24	((pars\$2 near2 (html or xml)) with (file\$1 or document\$1)) same ((stor\$3 or cach\$3) with (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 18:05
L7	32	(pars\$2 with ((html or xml) near2 (file\$1 or document\$1))) same ((stor\$3 or cach\$3) with (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 18:07
L8	11	7 and "715"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 18:06
L9	496	(pars\$2 with ((html or xml) near2 (file\$1 or document\$1))) and ((stor\$3 or cach\$3) with (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 18:09
L10	775	"data migration"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 18:09
L11	1	L10 and 9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 18:09

L12	316	(pars\$2 with ((html or xml) near2 (file\$1 or document\$1))) and ((stor\$3 or cach\$3) with (schema\$1 or row\$1 or column\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 18:10
L13	28	(pars\$2 with ((html or xml) near2 (file\$1 or document\$1))) same ((stor\$3 or cach\$3) with (schema\$1 or row\$1 or column\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/27 18:10

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	771	"data migration"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 17:51
L2	15	(pars\$3 near2 (data or file\$1 or source)) same transfer\$4 same (stor\$3 with table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 17:57
L3	0	((pars\$3 near2 (data or file\$1 or source)) with (HTML or SGML or xml)) same transfer\$4 same ((stor\$3 with table\$1) or relational)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 17:54
L4	0	(pars\$3 near2 (html or xml or gsml) near2 (file\$1 or data)) same transfer\$4 same ((stor\$3 with table\$1) or relational)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 17:55
L5	768	convert\$3 same (HTML or xml or gxml) same (table\$1 or (relational near2 database\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 17:56
L6	7	1 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 17:56
L7	68	(pars\$3 with html with (document\$1 or file\$1)) same stor\$3 with pars\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 18:05
L8	2	(pars\$3 with html with (document\$1 or file\$1)) same ((stor\$3 with (pars\$2 near2 data)) with (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 18:08
L9	1	((stor\$3 with (pars\$2 near2 data) with (html or xml)) with (table\$1 or (relational near2 database\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/26 18:09



JPW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title: "System and Method for Data Retrieval and Collection in a Structured Format"

Applicants: Michael Alan Guest et al.

Attorney Docket No.: SVL920020050US1

Serial No.: 10/198,827

Examiner:

Filed: July 18, 2002

Art Unit:

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

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR BEFORE
MAILING OF FIRST OFFICE ACTION (37 CFR 1.97(b))**

Sir:

Applicants submit herewith Form PTO-1449A listing documents believed relevant to the subject application. It is respectfully requested that these documents be made of record and an initialed copy of Form PTO-1449A be returned to the undersigned.

This Disclosure Submission Statement should not to be construed as a representation that a search has been made, that additional material to the examination of this application does not exist, or that the citations constitute prior art.

It is believed that this Disclosure Submission Statement complies with the requirements of 37 CFR 1.56, 1.97, and 1.98, and the Manual of Patent Examining Procedures, Sections 609 and 707.05. If for any reason the Examiner

considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

A copy of each non-U.S. patent/application reference is enclosed unless indicated otherwise. Some of the documents may have markings on them. No significance is meant to be attached to the markings.

Date: October 25, 2004

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Respectfully submitted,



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