

iCueView User Guide

TABLE OF CONTENTS

GETTING STARTED	3
READING THE PATENT	4
1) WHICH GEOGRAPHIES ARE COVERED IN ICUEVIEW?	4
2) CAN I SEARCH FOR AND DISPLAY MULTIPLE PATENTS IN ICUEVIEW?	6
3) WHAT ARE SOME OTHER USEFUL OPERATIONS FOR VIEWING A PATENT DOCUMENT IN ICUEVIEW?	9
4) HOW CAN I VIEW FAMILY MEMBERS OF A PATENT ON ICUEVIEW?	14
HIGHLIGHTING THE PATENT	15
1) HIGHLIGHTING WITH DIFFERENT COLORS.....	16
2) UNDERLINING THE SELECTED PORTION	17
3) FADING THE SELECTED PORTION	18
4) COPYING THE SELECTED PORTION	19
5) ADDING USER COMMENTS FOR THE SELECTED PORTION	20
6) REMOVING HIGHLIGHTS	23
TOGGING THE SPLIT-WINDOW VIEW.....	24
1) NAVIGATING TO THE TOP OF THE PATENT DOCUMENT FROM ANYWHERE BY CLICKING ON THE ↑ ICON.	25
2) NAVIGATING TO THE CLAIMS OF THE PATENT DOCUMENT FROM ANYWHERE BY CLICKING ON THE 'C' ICON	26
3) NAVIGATING TO THE DESCRIPTION OF THE PATENT DOCUMENT FROM ANYWHERE BY CLICKING ON THE 'D' ICON.....	27
SAVING THE HIGHLIGHTS	28

GETTING STARTED

iCueView is a patent tool or a web-based dashboard, developed by [iCuerious](#), for making patent read convenient and interesting. iCueView enables a user to conveniently read a patent in view of drawings on a single and split interface in such a fashion that the text of the patent is presented on left half of the interface and the drawings are presented on right half of the interface.

Take a moment to review our tool <http://icuerious.com/icueview/>

READING THE PATENT

1) WHICH GEOGRAPHIES ARE COVERED IN ICUEVIEW?

You can view all US granted patents/applications and WO patent applications.

The screenshot shows the iCueView interface with a search bar containing 'US' and '7710802'. Below the search bar are filters for 'US', 'WO', and 'ALL', along with buttons for 'C|D', 'C|D|P', and '↑'. The main content area is divided into two columns. The left column displays patent metadata: 'United States Patent', 'Chang, et al.', '7,710,802', and 'May 4, 2010'. Below this is the title 'Method for testing memory' and an 'Abstract' section. The abstract text describes a method for testing memory involving first and second temporary memories. Inventor information includes Chang, Chin-Hung (Tainan, TW), Ho, Wen-Chiao (Tainan, TW), Chang, Kuen-Long (Taipei, TW), and Hung, Chun-Hsiung (Hsinchu, TW). The assignee is Macronix International Co., Ltd. (Hsinchu, TW). The application number is 11/850,061, filed on September 5, 2007. The right column shows a barcode with the number 'US007710802B2' and a detailed patent summary. It includes the title 'United States Patent Chang et al.', the patent number 'US 7,710,802 B2', and the date 'May 4, 2010'. The summary lists the title '(54) METHOD FOR TESTING MEMORY', inventors, assignee, and various classification codes like 'G11C 7:00'. It also includes a list of references cited and a brief abstract of the patent's content.

WO ▼

US

WO

ALL

Login
Register

P
G
E

C|D
C|D|P
↑
C
D

Latest bibliographic data on file with the International Bureau

Pub. No.: WO/2005/055579 **International Application No.:** PCT/AU2004/000002

Publication Date: 16.06.2005 **International Filing Date:** 06.01.2004

IPC: **A61F 11/04** (2006.01), **G10K 13/00** (2006.01), **G10L 15/28** (2006.01), **H04M 11/0**

Applicants: **MOODY, Lynne** [AU/AU]; (AU).
MOODY, Miles, Phillips [AU/AU]; (AU)

Inventors: **MOODY, Lynne**; (AU).
MOODY, Miles, Phillips; (AU)

Common Representative: **MOODY, Miles, Phillips**; 12 Jolimont Avenue, Ascot, Queensland 4007 (AU)

Priority Data: 2003266440 02.12.2003 AU

Title
(EN) SYSTEM FOR PRODUCING ARTIFICIAL TELEPATHY
(FR) SYSTEME DE PRODUCTION DE TELEPATHIE ARTIFICIELLE

Abstract: **(EN)**A device is proposed which will provide the user with a form of artificial telepa communicate with others with no obvious signs of connection. The system compri which interfaces to an existing or future public mobile telephony network. This devi power transponder, which is linked wirelessly to one or more corresponding transp Connected to these implanted transponders are implanted transducers, one place up speech from the user and the other placed in a position such that it imparts spe to the user. The transducers may be connected acoustically, either through bone c tissue, or mioelectrically, through electrodes connected to tissue or nerves. In futur networks, when power level requirements are much lower, the whole device may b directly to a public mobile network. The system is further enhanced by the use of s which makes operation of the device possible through voice or sound commands v actions. A further enhancement of the system would be a capability for image tran

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/AU2004/000002

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(30) Priority Data: 2003266440 2 December 2003 (02.12.2003) AU

(71) Applicants and (72) Inventors: **MOODY, Lynne** [AU/AU]; 12 Jolimont Avenue, Ascot, Queensland 4007 (AU); **MOODY, Miles, Phillips** [AU/AU]; 12 Jolimont Avenue, Ascot, Queensland 4007 (AU).

(74) Common Representative: **MOODY, Miles, Phillips**; 12 Jolimont Avenue, Ascot, Queensland 4007 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BI, CE, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published: — with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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5 | Page

2) CAN I SEARCH FOR AND DISPLAY MULTIPLE PATENTS IN ICUEVIEW?

Yes, just enter all the patent numbers separated by a space or a comma, and you should see the patent numbers listed in a list on the left. See example below which illustrates this step by step:

The screenshot shows the iCueView web interface. At the top, a search bar contains 'US' and '7710802 6349091', which is highlighted with a red box. Below the search bar are navigation buttons: 'P', 'G', 'E', a refresh icon, and buttons for 'C|D', 'C|D|P', '↑', 'C', and 'D'. The main content area is split into two columns. The left column displays summary information for 'United States Patent 7,710,802 Chang, et al. May 4, 2010'. It includes the title 'Method for testing memory', an abstract, and details such as inventors (Chang; Chin-Hung, Ho; Wen-Chiao, Chang; Kuen-Long), assignee (Macronix International Co., Ltd.), family ID (40407242), and application number (11/850,061). The right column shows the full patent document, including a barcode, title, date, and a list of references cited. At the bottom of the right column, a flowchart diagram is visible, starting with 'START' and branching into two steps: '410 Read data from a memory according to a first threshold voltage and store the data to a first temporary memory' and '420 Write expected data from a tester into a second temporary memory'.

iCueView
US
Login Register


 7710802
 6349091

P G E

□ ||

C|D C|D|P ↑ C D

(1 of 1) ▲

United States Patent **7,710,802**
Chang, et al. **May 4, 2010**

Method for testing memory

Abstract

A method for testing a memory includes the following steps. First, data is read from the memory and stored to a first temporary memory. Meanwhile, expected data corresponding to the data from the memory is written into a second temporary memory from a tester. Thereafter, the data in the first temporary memory and the expected data in the second temporary memory are compared with each other to judge whether the memory has an enough operation window.

Inventors: Chang; Chin-Hung (Tainan, TW), Ho; Wen-Chiao (Tainan, TW), Chang; Kuen-Long (Taipei, TW), Hung; Chun-Hsiung (Hsinchu, TW)
Assignee: Macronix International Co., Ltd. (Hsinchu, TW)
Family ID: 40407242
Appl. No.: 11/850,061
Filed: September 5, 2007

Prior Publication Data

Document Identifier	Publication Date
US 20090059698 A1	Mar 5, 2009


 US007710802B2

(12) United States Patent **(10) Patent No.:** US 7,710,802 B2
Chang et al. **(43) Date of Patent:** May 4, 2010

(54) METHOD FOR TESTING MEMORY **(56) References Cited**

(75) Inventors: **Chin-Hung Chang**, Tainan (TW); **Wen-Chiao Ho**, Tainan (TW); **Kuen-Long Chang**, Taipei (TW); **Chun-Hsiung Hung**, Hsinchu (TW)

(73) Assignee: **Macronix International Co., Ltd.**, Hsinchu (TW)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 217 days.

(21) Appl. No.: 11/850,061

(22) Filed: Sep. 5, 2007

(65) Prior Publication Data
 US 2009/0059698 A1 Mar. 5, 2009

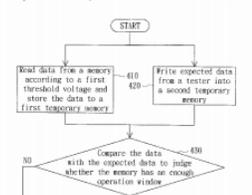
(51) Int. Cl. G11C 7/00 (2006.01)

(52) U.S. Cl. 365/201, 365/200, 365/180/08, 714/718

(58) Field of Classification Search: 365/201, 365/200, 180/08, 714/718
 See application file for complete search history.

(57) ABSTRACT
 A method for testing a memory includes the following steps. First, data is read from the memory and stored to a first temporary memory. Meanwhile, expected data corresponding to the data from the memory is written into a second temporary memory from a tester. Thereafter, the data in the first temporary memory and the expected data in the second temporary memory are compared with each other to judge whether the memory has an enough operation window.

10 Claims, 4 Drawing Sheets



```

            graph TD
                START([START]) --> 410[410 Read data from a memory according to a first threshold voltage and store the data to a first temporary memory]
                START --> 420[420 Write expected data from a tester into a second temporary memory]
                410 --> 430{430 Compare the data with the expected data to judge whether the memory has an enough operation window}
                420 --> 430
                430 -- NO --> 410
                430 -- YES --> END([END])
            
```

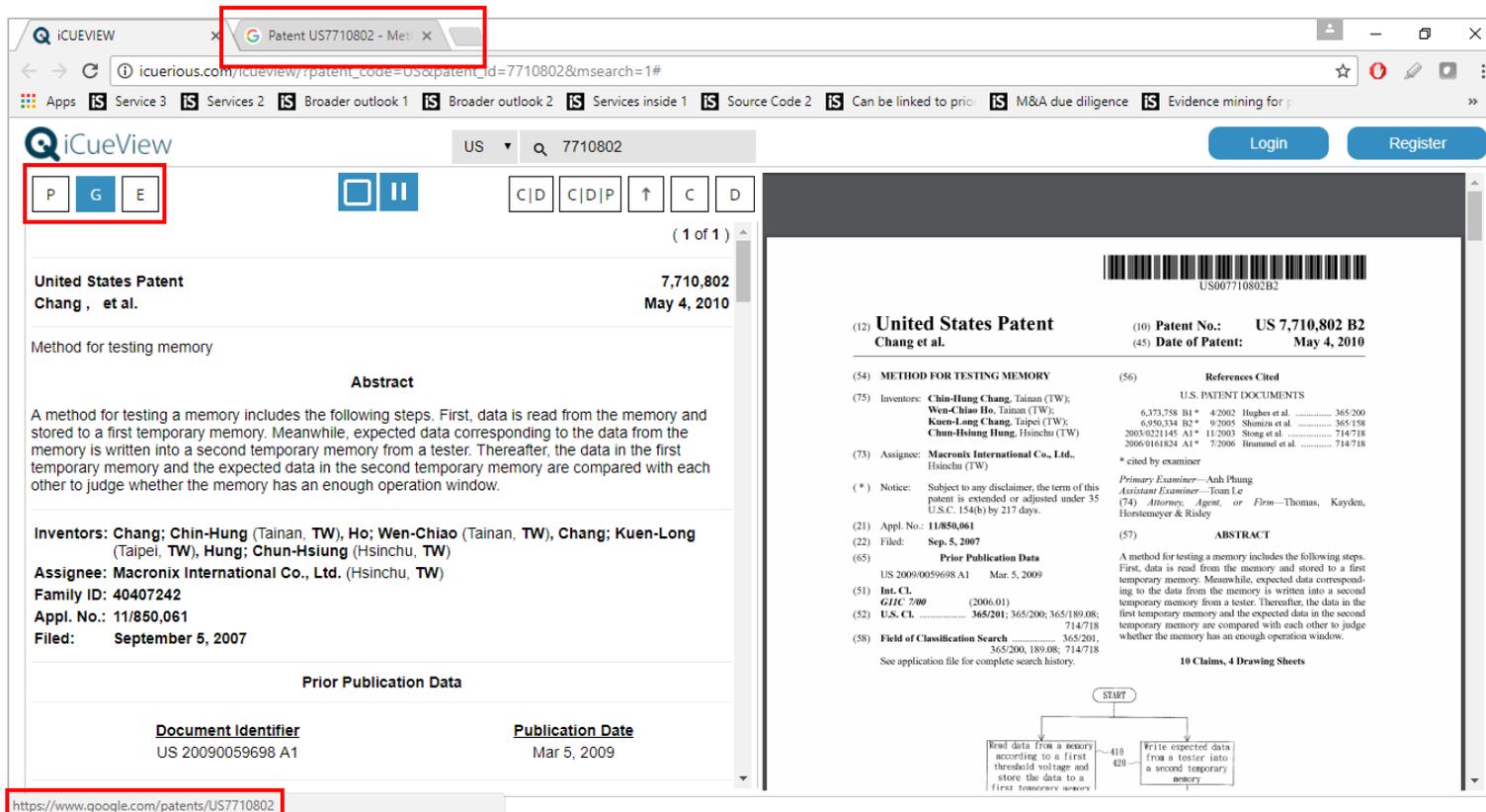
On clicking the second patent number (US6349091) from the left sidebar, the corresponding patent document is displayed, as shown below.

The screenshot displays the iCueView patent search interface. At the top, a search bar contains 'US' and '6349091'. The left sidebar shows a list of patent numbers, with '6349091' highlighted. The main content area is divided into two columns. The left column displays the patent title 'United States Patent 6,349,091 Li', the date 'February 19, 2002', and the abstract: 'Method and apparatus for controlling communication links between network nodes to reduce communication protocol overhead traffic. Link-State Advertisement (LSA) and other routing control packets are transmitted within a wireless communication system or network via selective enablement of control links for transference of the packets between network nodes. Specifically, an exemplary wireless network includes a plurality of nodes arranged into clusters with each cluster having cluster member nodes and a designated cluster head node. The nodes communicate with each other via an intranet protocol, while the network may communicate with other external networks in accordance with an internetworking protocol. A database within each network head node contains link information for that node. The LSA packets contain information to update the head node databases, while other routing control packets generally contain various routing information for network nodes to facilitate message transmissions. The routing control packets are transmitted to each head node to control routing functions and enable each database to maintain current information. In order to reduce overhead traffic due to transmission of numerous LSA and other routing control packets, the present invention selectively controls enablement of control links (e.g., links that transport routing control information) to transmit the LSA and other routing control packets to head nodes within the network. In other words, the present invention selectively reduces the quantity of control links between head nodes to transmit the LSA and other routing control packets with reduced protocol overhead traffic, thereby permitting the network to utilize link-state based protocols effectively (e.g., with minimal impact on network throughput) while expanding to larger scales.'

The right column displays the full patent document, including the title 'United States Patent 6,349,091 B1', the date 'Feb. 19, 2002', and the abstract: 'Link-State Advertisement (LSA) and other routing control packets are transmitted within a wireless communication system or network via selective enablement of control links for transference of the packets between network nodes. Specifically, an exemplary wireless network includes a plurality of nodes arranged into clusters with each cluster having cluster member nodes and a designated cluster head node. The nodes communicate with each other via an intranet protocol, while the network may communicate with other external networks in accordance with an internetworking protocol. A database within each network head node contains link information for that node. The LSA packets contain information to update the head node databases, while other routing control packets generally contain various routing information for network nodes to facilitate message transmissions. The routing control packets are transmitted to each head node to control routing functions and enable each database to maintain current information. In order to reduce overhead traffic due to transmission of numerous LSA and other routing control packets, the present invention selectively controls enablement of control links (e.g., links that transport routing control information) to transmit the LSA and other routing control packets to head nodes within the network. In other words, the present invention selectively reduces the quantity of control links between head nodes to transmit the LSA and other routing control packets with reduced protocol overhead traffic, thereby permitting the network to utilize link-state based protocols effectively (e.g., with minimal impact on network throughput) while expanding to larger scales.'

3) WHAT ARE SOME OTHER USEFUL OPERATIONS FOR VIEWING A PATENT DOCUMENT IN ICUEVIEW?

First, you can open the patent data on official sources such as Google Patents and Espacenet directly from the iCueView interface. You can open the document in Google Patents and Espacenet in new tabs by clicking on icons 'G' and 'E' respectively.



US 8352419

United States Patent **8,352,419**
Monsarrat **January 8, 2013**

Online marketplace for automatically extracted data

Abstract

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the communities of end-users who may also view advertisements and make purchases.

Inventors: Monsarrat; Jonathan (Cambridge, MA)
Assignee: Stragent, LLC (Longview, TX)
Family ID: 39189933
Appl. No.: 13/172,771
Filed: June 29, 2011

Prior Publication Data

Document Identifier	Publication Date
US 20110258536 A1	Oct 20, 2011

Related U.S. Patent Documents

https://worldwide.espacenet.com/publicationDetails/biblio?DB=EPODOC&II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=20111020&CC=US&NR=2011258536A1&KC=A1

United States Patent **US 8,352,419 B2**
Monsarrat **Jan. 8, 2013**

Abstract

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data,

You can also download the patent PDF directly from the iCueView interface by clicking on the 'P' icon.

United States Patent
Monsarrat

8,352,419
January 8, 2013

Online marketplace for automatically extracted data

Abstract

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the communities of end-users who may also view advertisements and make purchases.

Inventors: Monsarrat; Jonathan (Cambridge, MA)
Assignee: Stragent, LLC (Longview, TX)
Family ID: 39189933
Appl. No.: 13/172,771
Filed: June 29, 2011

Prior Publication Data

Document Identifier	Publication Date
US 20110258536 A1	Oct 20, 2011

Related U.S. Patent Documents

US 20110258536 A1 Oct 20, 2011

United States Patent
Monsarrat

(10) Patent No.: US 8,352,419 B2
(45) Date of Patent: Jan. 8, 2013

(54) ONLINE MARKETPLACE FOR AUTOMATICALLY EXTRACTED DATA

(75) Inventor: Jonathan Monsarrat, Cambridge, MA (US)

(73) Assignee: Stragent, LLC, Longview, TX (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.: 13/172,771

(22) Filed: Jun. 29, 2011

(65) Prior Publication Data
US 2011/0258536 A1 Oct. 20, 2011

Related U.S. Application Data

(63) Continuation of application No. 12/620,573, filed on Nov. 17, 2009, now abandoned, which is a continuation of application No. 11/521,072, filed on Sep. 14, 2006, now Pat. No. 7,647,351.

(51) Int. Cl.
G06F 7/00 (2006.01)
G06F 17/00 (2006.01)
G06Q 10/00 (2012.01)

(52) U.S. Cl. 707/608; 705/300

(58) Field of Classification Search None
See application file for complete search history.

(56) References Cited
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7,017,109 B1 3/2006 Douvikas et al. 715/501.1
7,024,451 B2 4/2006 Jorgenson 709/203
7,069,308 B2 6/2006 Abrams 709/218
7,117,254 B2 10/2006 Lam et al. 709/218
7,188,080 B1 3/2007 Walker et al. 705/26
7,188,153 B2 3/2007 Lam et al. 709/218
7,231,428 B2 6/2007 Teague 709/206
7,233,997 B1 6/2007 Levensidge et al. 709/229
7,340,419 B2 3/2008 Walker et al. 705/27
7,373,338 B2 5/2008 Thompson et al. 707/3
7,451,161 B2 11/2008 Zhu et al. 707/104.1
7,478,078 B2 1/2009 Lam et al. 707/1

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Meng et al., Schema-Guided Wrapper maintenance for Web-Data Extraction, Nov. 7-8, 2003, Proceedings of ACM 8th International Workshop on Web Information and Data Management (WIDM '03).*

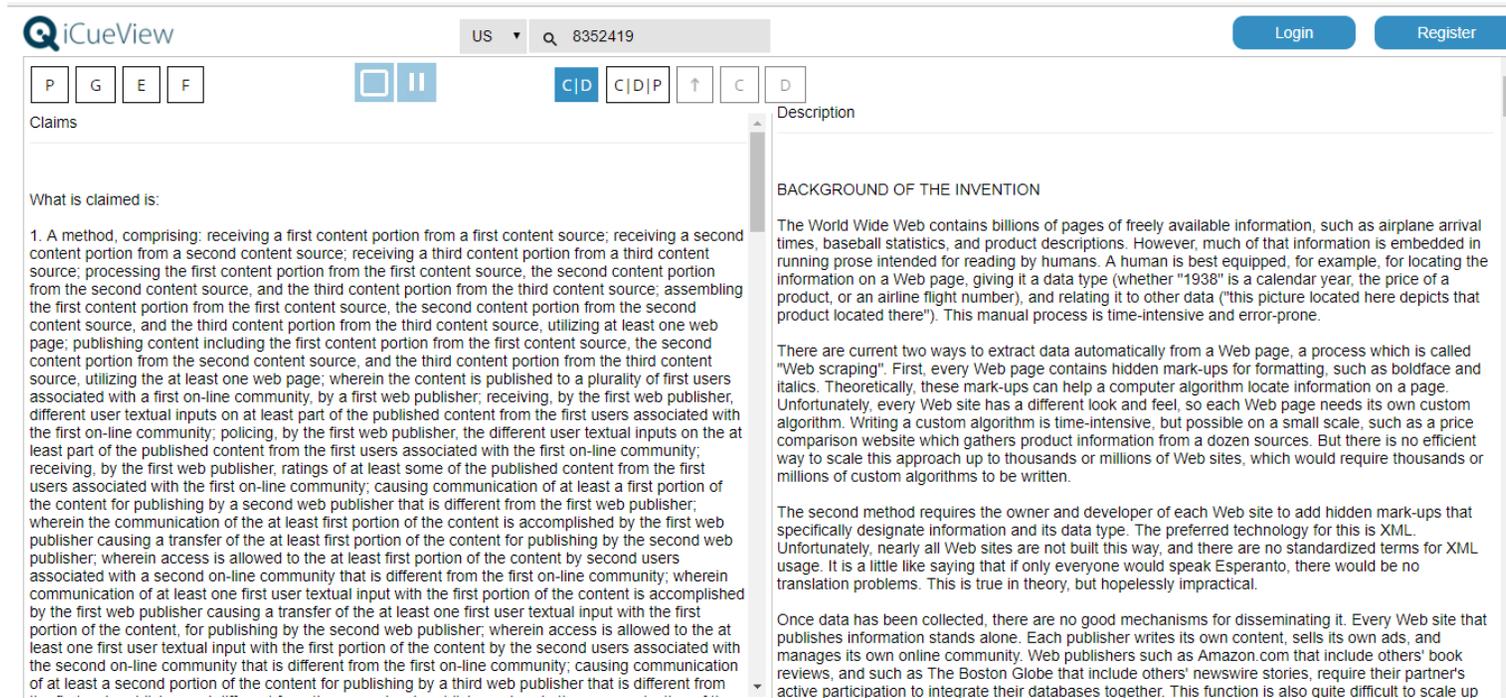
(57) ABSTRACT

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data.

US008352419B2

icuerious.com/icueview/download.php?file=http://pimg-fpiw.uspto.gov/fdd/19/524/083/0.pdf

Now looking at icons in the center, by clicking on the 'C | D' icon, it is possible to analyze claims in view of description of a subject patent in a split window format, as shown in the figure below.



Furthermore, clicking on the 'C|D|P' icon allows you to go through claims and description in view of drawings of the patent, again in a split-window format as shown below.

The screenshot displays the iCueView web application interface. At the top, there is a search bar with 'US' and '8352419'. Navigation buttons for 'P', 'G', 'E', 'F', and 'C|D|P' are visible. The 'C|D|P' button is highlighted with a red box. The interface is split into three main sections:

- Claims:** Contains the text: "What is claimed is: 1. A method, comprising: receiving a first content portion from a first content source; receiving a second content portion from a second content source; receiving a third content portion from a third content source; processing the first content portion from the first content source, the second content portion from the second content source, and the third content portion from the third content source, assembling the first content portion from the first content source, the second content portion from the second content source, and the third content portion from the third content source, utilizing at least one web page; publishing content including the first content portion from the first content source, the second content portion from the second content source, and the third content portion from the third content source, utilizing at least one web page; wherein the content is published to a plurality of first users associated with a first on-line community, by a first web publisher; receiving, by the first web publisher, different user textual inputs on at least part of the published content from the first users associated with the first on-line community; policing, by the first web publisher, the different user textual inputs on the at least part of the published content from the first users associated with the first on-line community; receiving, by the first web publisher, ratings of at least some of the published content from the first users associated with the first on-line community; causing communication of at least a first portion of the content for publishing by a second web publisher that is different from the first web publisher, wherein the communication of the at least first portion of the content is ..."
- Description:** Contains the text: "BACKGROUND OF THE INVENTION The World Wide Web contains billions of pages of freely available information, such as airplane arrival times, baseball statistics, and product descriptions. However, much of that information is embedded in running prose intended for reading by humans. A human is best equipped, for example, for locating the information on a Web page, giving it a data type (whether "1938" is a calendar year, the price of a product, or an airline flight number), and relating it to other data ("this picture located here depicts that product located there"). This manual process is time-intensive and error-prone. There are current two ways to extract data automatically from a Web page, a process which is called "Web scraping". First, every Web page contains hidden mark-ups for formatting, such as boldface and italics. Theoretically, these mark-ups can help a computer algorithm locate information on a page. Unfortunately, every Web site has a different look and feel, so each Web page needs its own custom algorithm. Writing a custom algorithm is time-intensive, but possible on a small scale, such as a price comparison website which gathers product information from a dozen sources. But there is no efficient way to scale this approach up to thousands or millions of Web sites, which would require thousands or millions of custom algorithms to be written. The second method requires the owner and developer of each Web site to add hidden mark-ups that specifically designate information ..."
- Patent Document:** A preview of the patent document showing a barcode, the title "United States Patent", the date "US 8,352,419 B2 Jan. 8, 2013", and a table of contents listing various sections like "ONLINE MARKETPLACE FOR AUTOMATICALLY EXTRACTED DATA" and "BACKGROUND OF THE INVENTION".

4) HOW CAN I VIEW FAMILY MEMBERS OF A PATENT ON ICUEVIEW?

Just click the 'F' icon and the family members of the patent you are viewing are displayed in a drop-down list. See example below.

The screenshot shows the iCueView interface. At the top, there is a search bar with 'US' and '8352419'. Below the search bar are navigation icons: P, G, E, F (highlighted in a red box), and others. A dropdown menu is open under the 'F' icon, listing patent family members: US2011258536 (A1), US8352419 (B2), US2008071829 (A1), US7647351 (B2), US2013167011 (A1), US8996594 (B2), US2010114814 (A1), US2010122155 (A1), and US2015347360 (A1). The main content area shows details for 'United States Patent Monsarrat' with a document identifier of 8,352,419 and a publication date of January 8, 2013. The abstract describes a system for automatically locating and data-typing information from many Web pages. The right-hand pane shows a detailed view of the patent, including a barcode, the title 'United States Patent Monsarrat', and a list of references.

United States Patent
Monsarrat
8,352,419
January 8, 2013

Document Identifier
 US 20110258536 A1

Publication Date
 Oct 20, 2011

Related U.S. Patent Documents

United States Patent
Monsarrat
(10) Patent No.: US 8,352,419 B2
(45) Date of Patent: Jan. 8, 2013

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(54) ONLINE MARKETPLACE FOR AUTOMATICALLY EXTRACTED DATA
 (75) Inventor: Jonathan Monsarrat, Cambridge, MA (US)
 (73) Assignee: Stragent, LLC, Longview, TX (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.: 13/172,771
 (22) Filed: Jun. 29, 2011
 (65) Prior Publication Data
 US 2011.0258536 A1 Oct. 20, 2011
 Related U.S. Application Data
 (63) Continuation of application No. 12/620,573, filed on Nov. 17, 2009, now abandoned, which is a continuation of application No. 11/521,072, filed on Sep. 14, 2006, now Pat. No. 7,647,351.
 (51) Int. Cl.
 G06F 7/00 (2006.01)
 G06F 17/00 (2006.01)
 G06Q 10/00 (2012.01)
 (52) U.S. CL. 707/608; 705/300
 (58) Field of Classification Search None
 See application file for complete search history.
 (56) References Cited
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 7,069,308 B2 6/2006 Abrams 709-218
 7,117,254 B2 10/2006 Lant et al. 709-218
 7,188,080 B1 3/2007 Walker et al. 705-26
 7,188,153 B2 3/2007 Lant et al. 709-218
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 7,373,338 B2 5/2008 Thompson et al. 707-3
 7,451,161 B2 11/2008 Zhu et al. 707-104,1
 7,478,078 B2 1/2009 Lant et al. 707-1
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 (Continued)
 Primary Examiner — Jason Liso
 (74) Attorney, Agent, or Firm — Patrick E. Caldwell, Esq.; The Caldwell Firm, L.L.C.
 (57) ABSTRACT
 A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data.

HIGHLIGHTING THE PATENT

When an excerpt in the patent document is selected, it automatically gets highlighted and subsequently on right-clicking the selected portion of the text, a menu appears with options for:

- a. highlighting with different colors
- b. underlining the selected portion
- c. fading the selected portion
- d. copying the selected portion
- e. adding user comments for the selected portion
- f. removing highlights

These options are illustrated in the snapshots below:

1) HIGHLIGHTING WITH DIFFERENT COLORS

The screenshot displays the iCueView interface for patent US 8,352,419 B2. The left sidebar shows the patent title 'United States Patent Monsarrat' and the filing date 'January 8, 2013'. The main content area shows the abstract, which is highlighted in green. A color selection tool is overlaid on the abstract text, showing a vertical color bar with a red circle at the top and a white circle at the bottom. The right sidebar shows the full patent document, including the title 'United States Patent Monsarrat', the patent number 'US 8,352,419 B2', and the date of patent 'Jan. 8, 2013'. The document text includes the abstract, inventor information, and a list of references.

2) UNDERLINING THE SELECTED PORTION

iCueView
US
Save Login Register

PGEF

□||

C|DC|D|P↑C

(1 of 1)

United States Patent
Monsarrat

8,352,419
January 8, 2013

Online marketplace for automatically extracted data

Abstract

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the communities of end-users who may also view advertisements and make purchases.

●
U
T
T
X

Underline Text

Inventors: Monsarrat; Jonathan

Assignee: Stragent, LLC (Longview, TX)

Family ID: 39189933

Appl. No.: 13/172,771

Filed: June 29, 2011

Prior Publication Data

Document Identifier	Publication Date
US 20110258536 A1	Oct 20, 2011

Related U.S. Patent Documents

US008352419B2

(12) United States Patent
Monsarrat

(10) Patent No.: US 8,352,419 B2
(45) Date of Patent: Jan. 8, 2013

(54) **ONLINE MARKETPLACE FOR AUTOMATICALLY EXTRACTED DATA**

(75) Inventor: Jonathan Monsarrat, Cambridge, MA (US)

(73) Assignee: Stragent, LLC, Longview, TX (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.: 13/172,771

(22) Filed: Jun. 29, 2011

(65) **Prior Publication Data**
US 20110258536 A1 Oct. 20, 2011

Related U.S. Application Data

(63) Continuation of application No. 12/620,573, filed on Nov. 17, 2009, now abandoned, which is a continuation of application No. 11/521,072, filed on Sep. 14, 2006, now Pat. No. 7,647,351.

(51) **Int. Cl.**
G06F 7/00 (2006.01)
G06F 15/00 (2006.01)
G06Q 10/00 (2012.01)

(52) **U.S. Cl.** 707/608; 705/300

(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**
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6,665,658 B1*	12/2003	Dacosta et al.	1/1
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7,478,078 B2	1/2009	Lunt et al.	707/1

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Meng et al., Schema-Guided Wrapper maintenance for Web-Data Extraction, Nov. 7-8, 2003, Proceedings of ACM 8th International Workshop on Web Information and Data Management (WIDM '03).

(Continued)

Primary Examiner — Jason Liao

(74) *Attorney, Agent, or Firm* — Patrick E. Caldwell, Esq.; The Caldwell Firm, LLC

(57) **ABSTRACT**
A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data,

3) FADING THE SELECTED PORTION

The screenshot shows the iCueView interface for patent US 8,352,419 B2. The interface includes a search bar with the patent number, navigation buttons (P, G, E, F), and a toolbar with icons for search, refresh, and other functions. The patent details on the left include the inventor (Jonathan Monsarrat), assignee (Stragent, LLC), and filing date (June 29, 2011). The abstract describes an online marketplace for automatically extracted data. A 'Fade Text' tooltip is overlaid on the abstract text, indicating the current action being performed. The main content area on the right displays the full patent document, including the title, inventor, assignee, and a list of references.

United States Patent 8,352,419
Monsarrat January 8, 2013

Online marketplace for automatically extracted data

Abstract

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the communities of end users to buy and sell related data, and make purchases.

Inventors: Monsarrat; Jonathan (Cambridge, MA)
Assignee: Stragent, LLC (Longview, TX)
Family ID: 39189933
Appl. No.: 13/172,771
Filed: June 29, 2011

Prior Publication Data

Document Identifier	Publication Date
US 20110258536 A1	Oct 20, 2011

Related U.S. Patent Documents

United States Patent (10) **Patent No.:** US 8,352,419 B2
Monsarrat (45) **Date of Patent:** Jan. 8, 2013

(54) **ONLINE MARKETPLACE FOR AUTOMATICALLY EXTRACTED DATA** 6,421,651 B1 7/2002 Telesco et al. 705:8
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6,633,311 B1 10/2003 Douvlikas et al. 715:731
6,665,658 B1 * 12/2003 DaCosta et al. 1:1
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6,889,213 B1 5/2005 Douvlikas et al. 705:67
6,952,730 B1 10/2005 Najork et al. 799:225
7,017,109 B1 3/2006 Douvlikas et al. 715:901.1
7,024,451 B2 4/2006 Jorgenson 799:203
7,060,308 B2 6/2006 Abrams 799:218
7,117,254 B2 10/2006 Lunt et al. 799:218
7,188,090 B1 3/2007 Walker et al. 705:26
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7,373,338 B2 5/2008 Thompson et al. 707:3
7,451,161 B2 11/2008 Zhu et al. 707:104.1
7,478,078 B2 1/2009 Lunt et al. 707:1

(*) 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.: 13/172,771
(22) Filed: Jun. 29, 2011

Prior Publication Data
US 2011.0258536 A1 Oct. 20, 2011 (Continued)

Related U.S. Application Data
(63) Continuation of application No. 12/620,573, filed on Nov. 17, 2009, now abandoned, which is a continuation of application No. 11/521,072, filed on Sep. 14, 2006, now Pat. No. 7,647,351. (Continued)

(51) **Int. Cl.**
G06F 7/00 (2006.01)
G06F 17/00 (2006.01)
G06Q 10/00 (2012.01)

(52) **U.S. Cl.** 707/608; 705/300
(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS

Meng et al., Schema-Guided Wrapper maintenance for Web-Data Extraction, Nov. 7-8, 2003, Proceedings of ACM fifth International Workshop on Web Information and Data Management (WIDM '2003).*

OTHER PUBLICATIONS
ABSTRACT
A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data,

4) COPYING THE SELECTED PORTION

The screenshot shows the iCueView interface for patent document US 8,352,419. The document title is "United States Patent Monsarrat" with a filing date of "January 8, 2013". The abstract text is highlighted in blue, and a green tooltip with a "Copy Text" button is overlaid on it. The tooltip also contains icons for undo, redo, print, and close. The right side of the interface displays the full patent document text, including the title "United States Patent Monsarrat", the date "Jan. 8, 2013", and the abstract text: "A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the communities of end-users who may also view advertisements and make purchases."

5) ADDING USER COMMENTS FOR THE SELECTED PORTION

The screenshot shows the iCueView web interface for a patent document. The top navigation bar includes the iCueView logo, a search bar with 'US' and '8352419', and buttons for 'Save', 'Login', and 'Register'. Below the navigation bar are several icons for document navigation (P, G, E, F) and a toolbar with icons for print, zoom, and other functions. The main content area is divided into several sections:

- United States Patent Monsarrat**: Patent No. 8,352,419, Date of Patent: January 8, 2013.
- Abstract**: A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the database. A comment box is overlaid on this section, containing icons for 'U' (comment), 'I' (info), 'T' (tag), and 'X' (close), with an 'Add Comments' button.
- Inventors**: Monsarrat, Jonathan (Cambridge, MA)
- Assignee**: Stragent, LLC (Longview, TX)
- Family ID**: 39189933
- Appl. No.**: 13/172,771
- Filed**: June 29, 2011
- Prior Publication Data**: Document Identifier: US 20110258536 A1, Publication Date: Oct 20, 2011.
- Related U.S. Patent Documents**

The right-hand pane displays the full patent document text, including the title 'United States Patent Monsarrat', the abstract, and a list of references cited. A barcode is visible at the top of the right pane with the number US008352419B2.

iCueView
US
Save
Login
Register

P
G
E
F

□
||

C|D
C|D|P
↑
C

(1 of 1)

United States Patent **8,352,419**
Monsarrat **January 8, 2013**

Online marketplace for automatically extracted data

Abstract

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the communities of end-users who may also view advertisements and make purchases.

The citation shows that...

Add Cancel

Prior Publication Data

Document Identifier	Publication Date
US 20110258536 A1	Oct 20, 2011

Related U.S. Patent Documents

US008352419B2

(12) United States Patent **(10) Patent No.: US 8,352,419 B2**
Monsarrat **(45) Date of Patent: Jan. 8, 2013**

(54) **ONLINE MARKETPLACE FOR AUTOMATICALLY EXTRACTED DATA** 6,421,651 B1 7/2002 Telesco et al. 705-8
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7,117,254 B2 10/2006 Lunt et al. 709-218
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7,451,161 B2 11/2008 Zhu et al. 707-104.1
7,478,078 B2 1/2009 Lunt et al. 707-1

(*) 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.: 13/172,771

(22) Filed: **Jun. 29, 2011**

(65) **Prior Publication Data**
US 20110258536 A1 Oct. 20, 2011

Related U.S. Application Data

(63) Continuation of application No. 12/620,573, filed on Nov. 17, 2009, now abandoned, which is a continuation of application No. 11/521,072, filed on Sep. 14, 2006, now Pat. No. 7,647,351.

(51) **Int. Cl.**
G06F 7/00 (2006.01)
G06F 17/00 (2006.01)
G06Q 10/00 (2012.01)

(52) **U.S. Cl.** **707/608; 705/300**

(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**
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Meng et al., Schema-Guided Wrapper maintenance for Web-Data Extraction, Nov. 7-8, 2003, Proceedings of ACM fifth International Workshop on Web Information and Data Management (WIDM '2003)*
(Continued)
Primary Examiner — Jason Liao
(74) **Attorney, Agent, or Firm** — Patrick E. Caldwell, Esq.; The Caldwell Firm, L.L.C.

(57) ABSTRACT
A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data.

iCueView
US

Save
Login
Register

P G E F

□ ||

C|D C|D|P ↑ C

(1 of 1)

United States Patent **8,352,419**
Monsarrat **January 8, 2013**

Online marketplace for automatically extracted data

Abstract

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the communities of end-users who may also view advertisements and make purchases.

The citation shows that... (MA)

Assignee: Stragent, LLC (Longview, TX)
Family ID: 39189933
Appl. No.: 13/172,771
Filed: June 29, 2011

Prior Publication Data

Document Identifier	Publication Date
US 20110258536 A1	Oct 20, 2011

Related U.S. Patent Documents



US008352419B2

(12) United States Patent **(10) Patent No.:** **US 8,352,419 B2**
Monsarrat **(45) Date of Patent:** **Jan. 8, 2013**

(54) **ONLINE MARKETPLACE FOR AUTOMATICALLY EXTRACTED DATA** 6,421,651 B1 7/2002 Tedesco et al. 705-8
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7,451,161 B2 11/2008 Zhu et al. 707-104.1
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(Continued)

Prior Publication Data

US 2011-0258536 A1 Oct. 20, 2011

Related U.S. Application Data

(63) Continuation of application No. 12/620,573, filed on Nov. 17, 2009, now abandoned, which is a continuation of application No. 11/521,072, filed on Sep. 14, 2006, now Pat. No. 7,647,351.

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(Continued)

(51) **Int. Cl.** *Primary Examiner* — Jason Liao
G06F 7/00 (2006.01)
G06F 17/00 (2006.01)
G06Q 10/00 (2012.01)
(74) *Attorney, Agent, or Firm* — Patrick E. Caldwell, Esq.;
The Caldwell Firm, LLC

(52) **U.S. Cl.** 707/608; 705/300

(58) **Field of Classification Search** None
See application file for complete search history.

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U.S. PATENT DOCUMENTS

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22 | Page

6) REMOVING HIGHLIGHTS

iCueView
US
Save Login Register

PGEF

□||

C|DC|D|P↑C

(1 of 1)

United States Patent **8,352,419**
Monsarrat **January 8, 2013**

Online marketplace for automatically extracted data

Abstract

A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data, associated advertisements, and access to the communities of end-users who may also view advertisements and make purchases.

Inventors: Monsarrat, Jonathan
Assignee: Stragent, LLC (Longview, TX)
Family ID: 39189933
Appl. No.: 13/172,771
Filed: June 29, 2011

Prior Publication Data

Document Identifier	Publication Date
US 20110258536 A1	Oct 20, 2011

Related U.S. Patent Documents


 US008352419B2

(12) **United States Patent** **(10) Patent No.: US 8,352,419 B2**
Monsarrat **(45) Date of Patent: Jan. 8, 2013**

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 7,451,161 B2 11/2008 Zhu et al. 707/104.1
 7,478,078 B2 1/2009 Lunt et al. 707/1

(65) **Prior Publication Data**
 US 20110258536 A1 Oct. 20, 2011
 (Continued)

Related U.S. Application Data

(63) Continuation of application No. 12/620,573, filed on Nov. 17, 2009, now abandoned, which is a continuation of application No. 11/521,072, filed on Sep. 14, 2006, now Pat. No. 7,647,351. Meng et al., Schema-Guided Wrapper maintenance for Web-Data Extraction, Nov. 7-8, 2003, Proceedings of ACM fifth International Workshop on Web Information and Data Management (WIDM '2003)*
 (Continued)

(51) **Int. Cl.**
G06F 7/00 (2006.01) *Primary Examiner* — Jason Liao
G06F 17/00 (2006.01) (74) *Attorney, Agent, or Firm* — Patrick E. Caldwell, Esq.; The Caldwell Firm, LLC
G06Q 10/00 (2012.01)

(52) **U.S. Cl.** 707/608; 705/300

(58) **Field of Classification Search** None

(56) **References Cited**
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 6,421,651 B1 7/2002 Telesco et al. 705/8
 6,430,537 B1 8/2002 Telesco et al. 705/8
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 7,034,451 B2 4/2006 Jorgenson 709/203
 7,069,308 B2 6/2006 Abrams 709/218
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 7,451,161 B2 11/2008 Zhu et al. 707/104.1
 7,478,078 B2 1/2009 Lunt et al. 707/1

(57) **ABSTRACT**
 A system for automatically locating and data-typing information originating from many Web pages, and then collecting that information in a database. The database is then made available via an online data marketplace which allows users from different organizations to buy and sell related data,

UTYYX

Remove Highlighting

TOGGLING THE SPLIT-WINDOW VIEW

You can also toggle out of the split-window view clicking the 'single window' icon, as shown in the snapshot below:

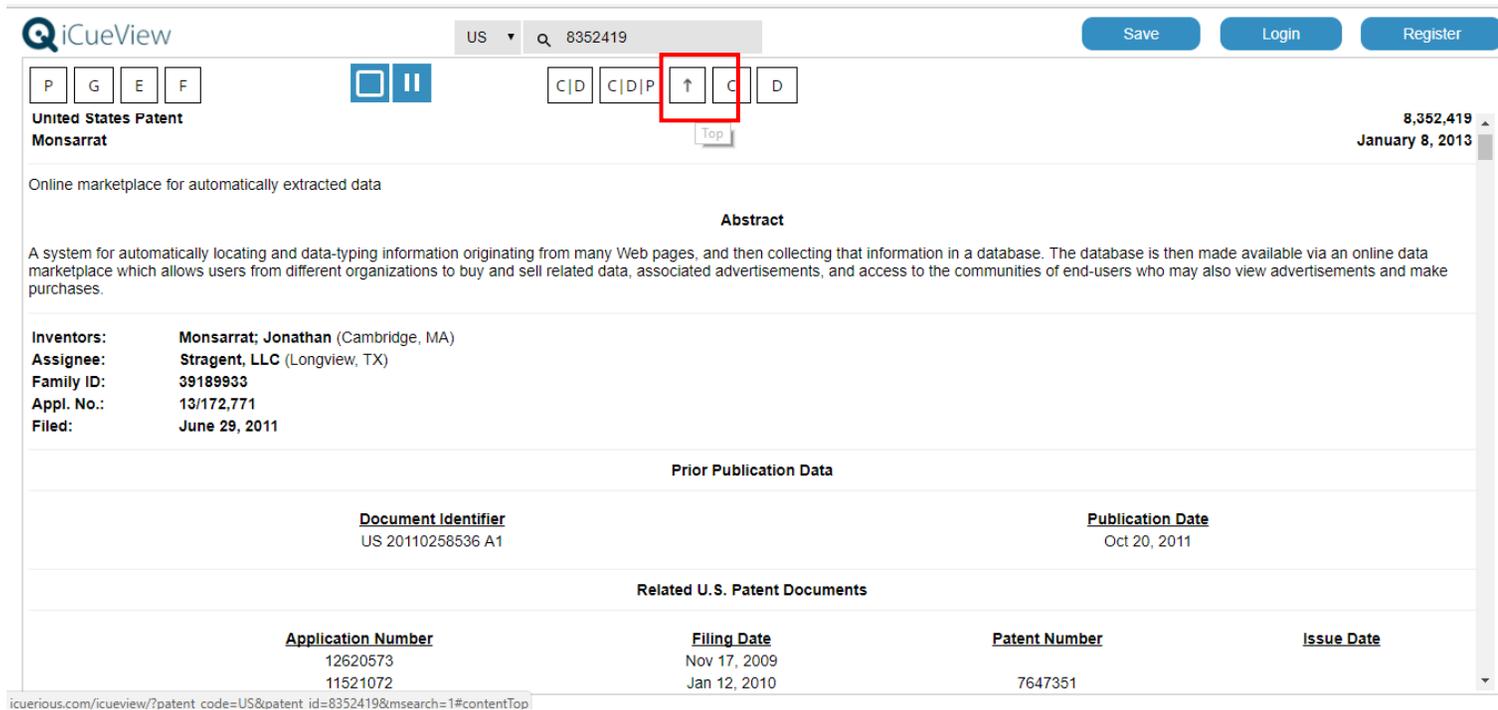
The screenshot shows the iCueView interface for a patent document. At the top, there is a search bar with 'US' and '8352419', and buttons for 'Save', 'Login', and 'Register'. Below the search bar are navigation buttons: 'P', 'G', 'E', 'F', a 'single window' icon (highlighted with a red box), and 'C|D', 'C|D|P', '↑', 'C', 'D'. The document title is 'United States Patent Monsarrat' with a citation number '8,352,419' and a date 'January 8, 2013'. The abstract describes an online marketplace for automatically extracted data. The inventor is 'Monsarrat, Jonathan (Cambridge, MA)' and the assignee is 'Stragent, LLC (Longview, TX)'. The document identifier is 'US 20110258536 A1' and the publication date is 'Oct 20, 2011'.

After switching to the single window view, the following operations can be performed:

- Navigating to the top of the patent document from anywhere by clicking on the ↑ icon.
- Navigating to the claims of the patent document from anywhere by clicking on the 'C' icon
- Navigating to the description of the patent document from anywhere by clicking on the 'D' icon

These operations are illustrated in the snapshots below:

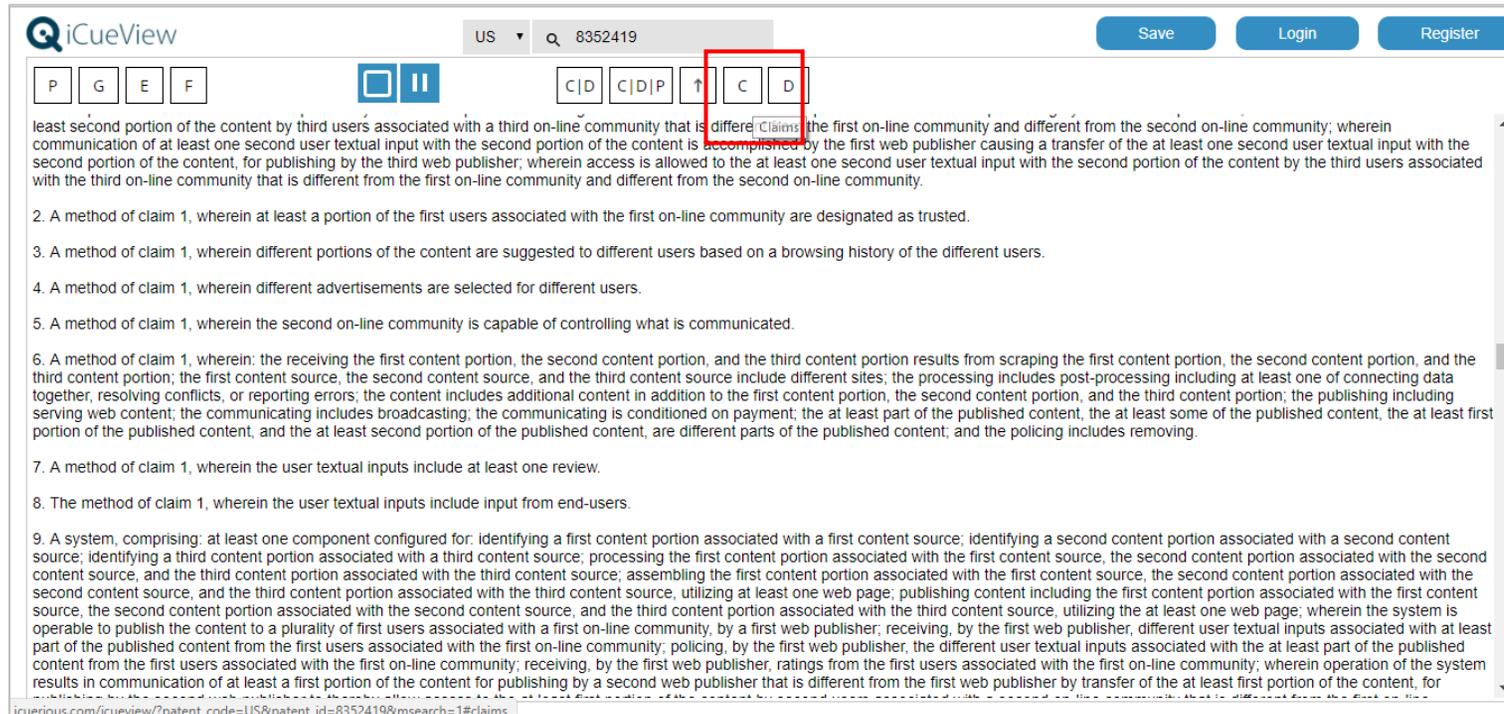
- 1) NAVIGATING TO THE TOP OF THE PATENT DOCUMENT FROM ANYWHERE BY CLICKING ON THE  ICON.



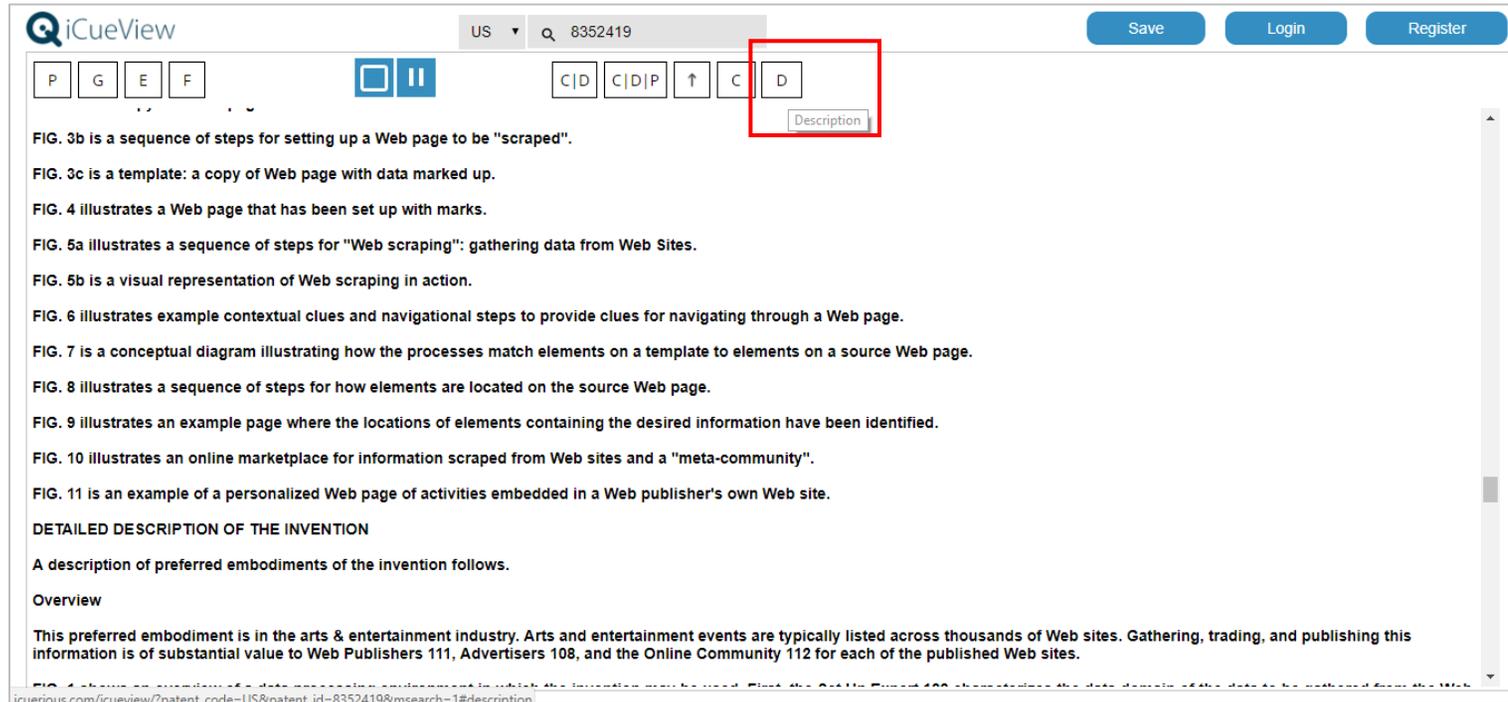
The screenshot shows the iCueView interface for patent US 8352419. The navigation bar at the top includes buttons for 'P', 'G', 'E', 'F', a search bar with '8352419', and buttons for 'Save', 'Login', and 'Register'. A red box highlights the 'Top' icon (an upward arrow) in the navigation bar. The page content includes the patent title 'United States Patent Monsarrat', an abstract, inventor information (Jonathan Monsarrat), assignee information (Stragent, LLC), and a table of related U.S. patent documents.

Application Number	Filing Date	Patent Number	Issue Date
12620573	Nov 17, 2009		
11521072	Jan 12, 2010	7647351	

2) NAVIGATING TO THE CLAIMS OF THE PATENT DOCUMENT FROM ANYWHERE BY CLICKING ON THE 'C' ICON



3) NAVIGATING TO THE DESCRIPTION OF THE PATENT DOCUMENT FROM ANYWHERE BY CLICKING ON THE 'D' ICON



SAVING THE HIGHLIGHTS

Finally, you can save all your highlights, comments, underlines, etc. by clicking on the 'Save' icon at the top right. This saves the edited document on the server and you can access it by logging into your account on iCueView. Please note that the 'Save' option does not work for users who have not registered or logged into their accounts.

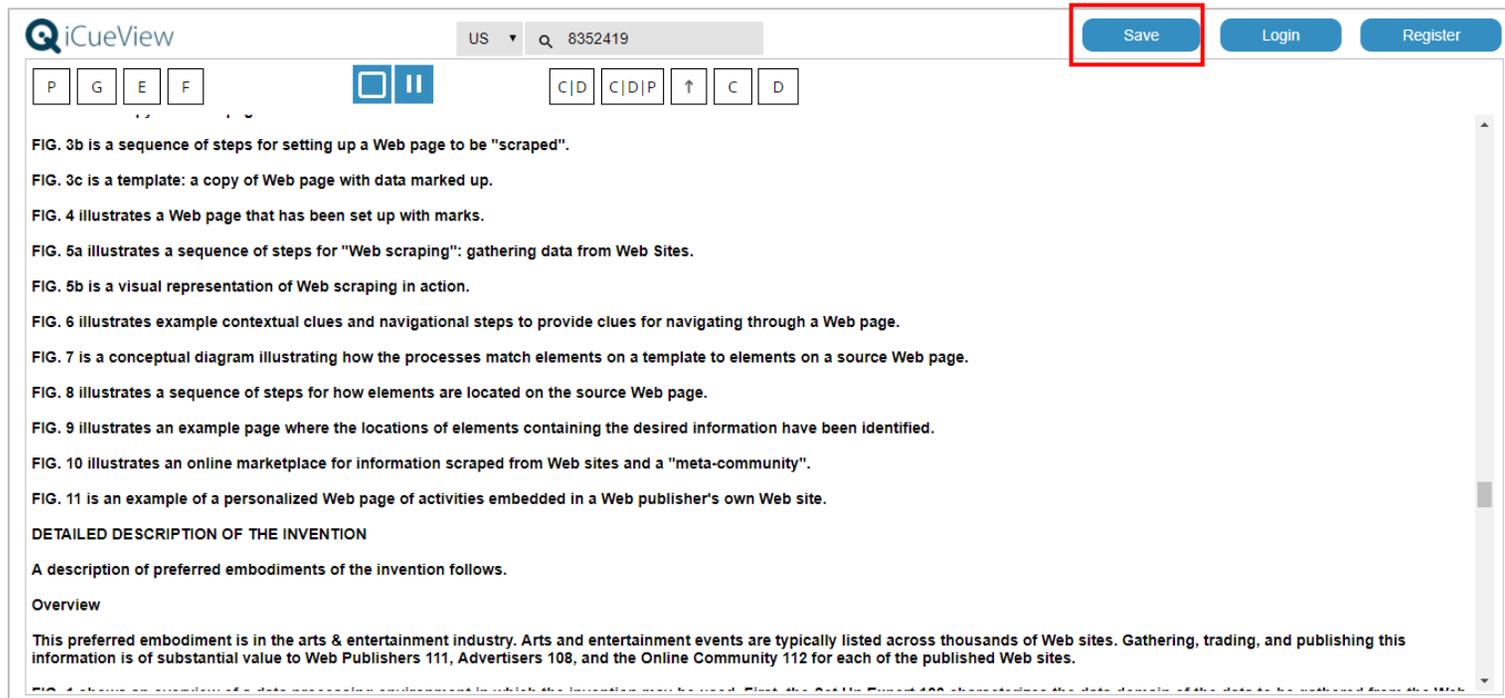


FIG. 3b is a sequence of steps for setting up a Web page to be "scraped".

FIG. 3c is a template: a copy of Web page with data marked up.

FIG. 4 illustrates a Web page that has been set up with marks.

FIG. 5a illustrates a sequence of steps for "Web scraping": gathering

FIG. 5b is a visual representation of Web scraping in action.

FIG. 6 illustrates example contextual clues and navigational steps to p

FIG. 7 is a conceptual diagram illustrating how the processes match e

FIG. 8 illustrates a sequence of steps for how elements are located on

FIG. 9 illustrates an example page where the locations of elements co

FIG. 10 illustrates an online marketplace for information scraped from

FIG. 11 is an example of a personalized Web page of activities embed

DETAILED DESCRIPTION OF THE INVENTION

A description of preferred embodiments of the invention follows.

Overview

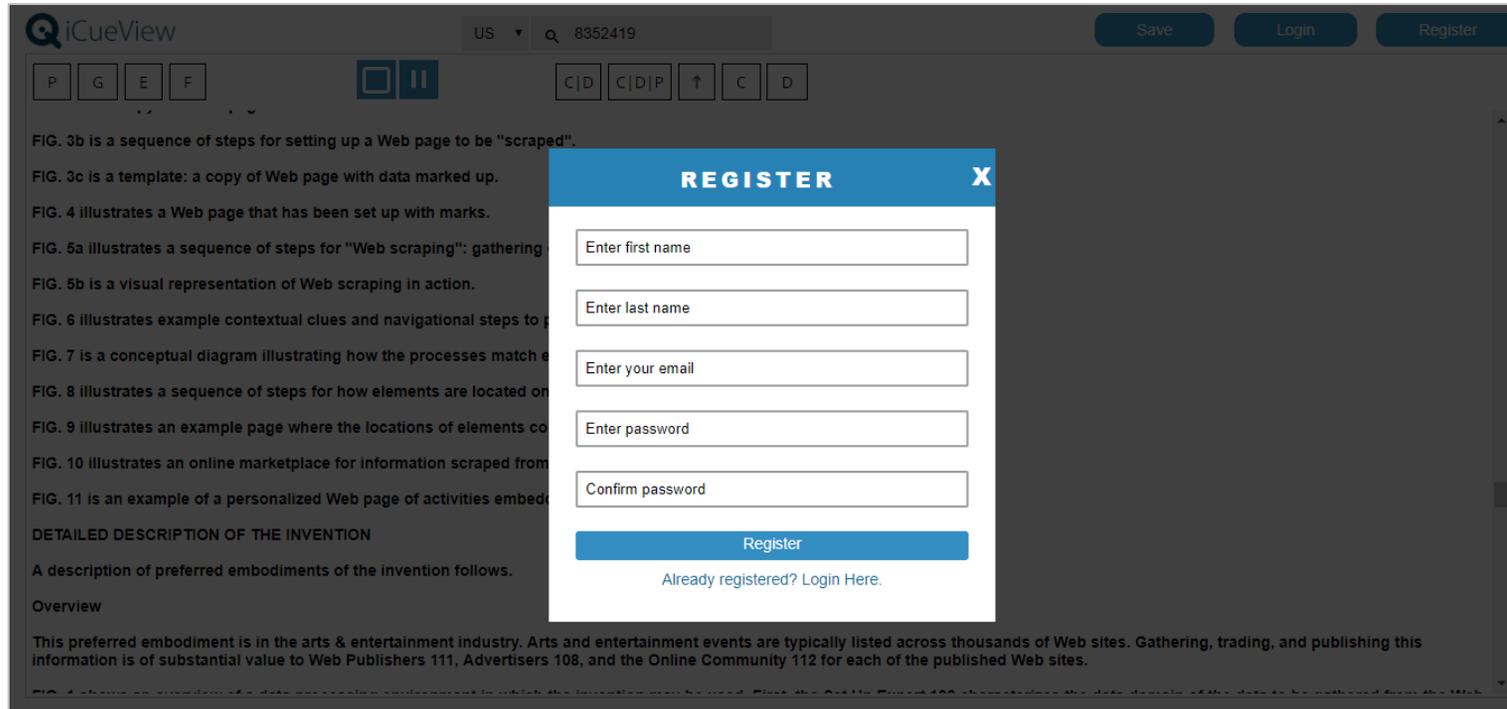
This preferred embodiment is in the arts & entertainment industry. Arts and entertainment events are typically listed across thousands of Web sites. Gathering, trading, and publishing this information is of substantial value to Web Publishers 111, Advertisers 108, and the Online Community 112 for each of the published Web sites.

FIG. 4 shows an example of data processing embodiment in which the invention may be used. First, the Online Search 400, scrapes the data directly of the data to be gathered from the Web.

LOGIN

Login

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