

Exhibit C



(12) **United States Patent**
Davis

(10) **Patent No.:** **US 7,650,355 B1**
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(54) **REUSABLE MACRO MARKUP LANGUAGE**

OTHER PUBLICATIONS

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Bruce Hallberg et al., "Special Edition, Using Microsoft® Excel® 197, Bestseller Edition," Que® Corporation (1997).

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(Continued)

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

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(57) **ABSTRACT**

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Related U.S. Application Data

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(51) **Int. Cl.**
G06F 17/30 (2006.01)

(52) **U.S. Cl.** **707/102; 707/101; 707/3; 707/204; 715/234; 715/202**

(58) **Field of Classification Search** **707/103, 707/102, 100, 3, 6, 101, 10; 345/604; 715/517, 715/500, 503, 513, 523, 50.1**

See application file for complete search history.

(56) **References Cited**

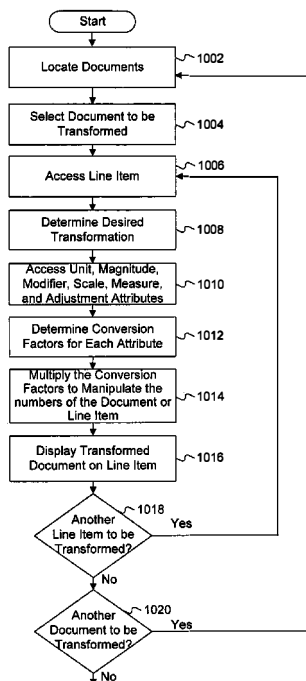
U.S. PATENT DOCUMENTS

4,674,043 A 6/1987 Hernandez et al.
 5,008,853 A * 4/1991 Bly et al. 715/751

(Continued)

Methods and systems in accordance with the present invention provide macros and a markup language referred to as Reusable Macro Markup Language ("RMML") which allows numerical analysis routines to be written quickly, cheaply, and in a form that is usable by a broad range of data documents in the Reusable Data Markup Language ("RDML") formatting language. RMML and RDML are markup languages, such as the Hypertext Markup Language ("HTML") or the Extensible Markup Language ("XML"). Generally, RDML facilitates the browsing and manipulation of numbers, as opposed to text as in HTML, and does so by requiring attributes describing the meaning of the numbers to be attached to the numbers. RMML allows spreadsheet type macros to be posted as web documents, to be searched by search engines, to be combined into more complex programs, and to be reused with many data documents. RMML macros also provide reusable user-defined calculations for use in conjunction with RDML that automatically manipulate and display numerical data contained in RDML markup documents.

56 Claims, 40 Drawing Sheets



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U.S. PATENT DOCUMENTS			6,745,384	B1	6/2004	Biggerstaff	
U.S. PATENT DOCUMENTS			6,886,005	B2	4/2005	Davis	
5,276,776	A	1/1994	Grady et al.	6,910,017	B1 *	6/2005	Woo et al. 705/10
5,339,392	A *	8/1994	Risberg et al. 715/762	6,912,293	B1	6/2005	Korobkin
5,371,675	A *	12/1994	Greif et al. 715/220	6,920,608	B1	7/2005	Davis
5,423,032	A	6/1995	Byrd et al.	2001/0018687	A1	8/2001	Gonzalez et al.
5,603,021	A *	2/1997	Spencer et al. 707/4	2001/0020237	A1	9/2001	Yarnall et al.
5,721,847	A *	2/1998	Johnson 715/786	2001/0049687	A1	12/2001	Russell
5,737,592	A	4/1998	Nguyen et al.	2002/0023141	A1	2/2002	Yen et al.
5,754,939	A	5/1998	Herz et al.	2002/0052954	A1	5/2002	Polizzi et al.
5,822,587	A	10/1998	McDonald et al.	2002/0091696	A1	7/2002	Craft et al.
5,838,906	A	11/1998	Doyle et al.	2002/0198985	A1	12/2002	Fraenkel et al.
5,838,965	A	11/1998	Kavanagh et al.	2003/0041077	A1	2/2003	Davis
5,894,311	A	4/1999	Jackson	2003/0140045	A1 *	7/2003	Heninger et al. 707/10
5,913,214	A	6/1999	Madnick et al.	2003/0167213	A1	9/2003	Jammes et al.
5,917,485	A	6/1999	Spellman et al.	2005/0086216	A1	4/2005	Davis
5,920,828	A *	7/1999	Norris et al. 702/14	2005/0182709	A1	8/2005	Belcsak et al.
5,948,113	A *	9/1999	Johnson et al. 714/38	2005/0198042	A1	9/2005	Davis
5,950,196	A	9/1999	Pyreddy et al.	OTHER PUBLICATIONS			
5,956,737	A *	9/1999	King et al. 715/517	Elliott Rusty Harold, "XML™ Bible," IDG Books Worldwide, Inc., An International Data Group Company (1999).			
5,974,413	A *	10/1999	Beauregard et al. 707/6	David Megginson, "Structuring XML Documents," Prentice Hall PTR, Upper Saddle River, NJ (1998).			
5,983,247	A *	11/1999	Yamanaka et al. 715/209	Copending U.S. Appl. No. 09/573,419 entitled "Tree View for Reusable Data Markup Language," filed May 18, 2000.			
5,999,944	A	12/1999	Lipkin	Copending U.S. Appl. No. 09/573,778 entitled "Reusable Data Markup Language," filed May 18, 2000.			
6,014,661	A	1/2000	Ahlberg et al. 707/3	Extensible Business Reporting Language (XBRL) 2.0 Specification, (Dec. 14, 2001), Editors: Luther Hampton, e-Numerate; David van Kannon, KPMG LLP; pp. 1-42.			
6,026,388	A	2/2000	Liddy et al.	Information on Exchange Rates of Africa, Asia, and Australia, web site: http://eh.net/hmit/exchangerates/infoafr.htm , pp. 1-3, 2002 by EH.NET, downloaded Oct. 19, 2006.			
6,026,397	A	2/2000	Sheppard	Microsoft Press Computer Dictionary, Third Edition, Microsoft Press, p. 511 (1997) (3 pages).			
6,034,676	A *	3/2000	Egan et al. 701/29	Ohio CPA Newsletter, A Monthly Electronic Publication of the Ohio Society of Certified Public Accountants; Aug. 2000, vol. 1, No. 14 (7 pages).			
6,058,385	A	5/2000	Koza et al.	Order of Magnitude (online Wikipedia article), http://en.wikipedia.org/wiki/Orders_of_magnitude , 2006 Wikimedia Foundation, Inc. pp. 1-4, downloaded Oct. 19, 2006.			
6,065,026	A *	5/2000	Cornelia et al. 715/531	Tools [online], extensible Business Reporting Language, [retrieved on Aug. 13, 2002]. Retrieved from the Internet <URL: http://www.xbrl.org/Tools.htm > (5 pages).			
6,092,036	A *	7/2000	Hamann 704/8	XBRL Essentials, (A nontechnical introduction to the extensible Business Reporting Language, the digital language of business), Jan. 2001, Charles Hoffman, CPA; Carolyn Strand, PhD, CPA, (AICPA), pp. 1-17.			
6,097,888	A	8/2000	Simonyi	XBRL Home Page [online], extensible Business Reporting Language, [retrieved on Aug. 13, 2002]. Retrieved from the Internet <URL: http://www.xbrl.org > (3 pages).			
6,108,662	A *	8/2000	Hoskins et al. 707/102	XBRL Technical Specification [online], extensible Business Reporting Language, [retrieved on Aug. 13, 2002]. Retrieved from the Internet <URL: http://www.xbrl.org/TR/2001/default.htm > (1 page).			
6,121,924	A *	9/2000	Meek et al. 342/357.13	The XML Cover Pages, Extensible Business Reporting Language (XBRL), (1994-2002), Robin Cover, pp. 1-18.			
6,134,563	A	10/2000	Clancey et al.	Berkley et al., The Road to Better Business Information Making a Case for XBRL, Winter 2000, Microsoft, pp. 1-13.			
6,160,549	A	12/2000	Touma et al.	Blattner, Special Edition Using Microsoft Excel (R), May 3, 1999 (C) Que Corporation "Adding a Secondary Axis to the Chart" (3 pages).			
6,167,409	A *	12/2000	DeRose et al. 715/513	Gilster, Paul, <i>Finding It On The Internet: The Internet Navigator's Guide to Search Tools & Techniques</i> , 2 nd edition (1996) (3 pages).			
6,173,284	B1	1/2001	Brown	Hamscher et al., Extensible Business Reporting language (XBRL) Specification, Jul. 31, 2000, XBRL Organization, pp. 1-27.			
6,195,676	B1 *	2/2001	Spix et al. 718/107	Charles Hoffman and Carolyn Strand, "XBRL Essentials, A Nontechnical Introduction to eXtensible Business Reporting Language (XBRL), the Digital Language of Business Reporting," pp. 1-148 (2001).			
6,199,046	B1	3/2001	Heinzle et al.	Jon Rienstra, "Using Excel® in Chemistry," http://www.asa3.org/			
6,199,080	B1	3/2001	Nielson				
6,223,189	B1	4/2001	Steffens et al.				
6,240,407	B1	5/2001	Chang et al.				
6,243,698	B1	6/2001	Powers et al.				
6,256,030	B1	7/2001	Berry et al.				
6,314,562	B1	11/2001	Biggerstaff				
6,317,750	B1	11/2001	Tortolani et al.				
6,349,307	B1	2/2002	Chen				
6,351,755	B1	2/2002	Najork et al.				
6,356,920	B1	3/2002	Vandersluis				
6,366,915	B1	4/2002	Rubert et al.				
6,370,537	B1	4/2002	Gilbert et al.				
6,370,549	B1	4/2002	Saxton				
6,373,504	B1	4/2002	Nielsen				
6,374,274	B1 *	4/2002	Myers et al. 715/523				
6,418,433	B1	7/2002	Chakrabarti et al.				
6,421,656	B1	7/2002	Cheng et al.				
6,421,822	B1 *	7/2002	Pavela 717/125				
6,424,980	B1 *	7/2002	Iizuka et al. 715/206				
6,460,059	B1	10/2002	Wisniewski				
6,470,349	B1	10/2002	Heninger et al.				
6,493,717	B1	12/2002	Junkin				
6,505,246	B1	1/2003	Land et al.				
6,507,856	B1	1/2003	Chen et al.				
6,581,068	B1	6/2003	Bensoussan et al.				
6,591,272	B1	7/2003	Williams				
6,594,653	B2	7/2003	Colby et al.				
6,615,258	B1	9/2003	Barry et al.				
6,629,094	B1	9/2003	Colby et al.				
6,635,089	B1	10/2003	Burkett et al.				

US 7,650,355 B1

Page 3

Simon St. Laurent, "Why XML?," <http://www.simonstl.com/articles/whyxml.htm> (1998) (5 pages).

Suzuki et al., "Managing the Software Design Documents With XML," ACM Proceedings of the 16th Annual International Conference on Computer Documentation, Sep. 1998, pp. 127-136.

Copending U.S. Appl. No. 11/819,125 entitled "Tree View for Reusable Data Markup Language," filed Jun. 25, 2007.

Copending U.S. Appl. No. 11/819,126 entitled "Reusable Data Markup Language," filed Jun. 25, 2007.

* cited by examiner

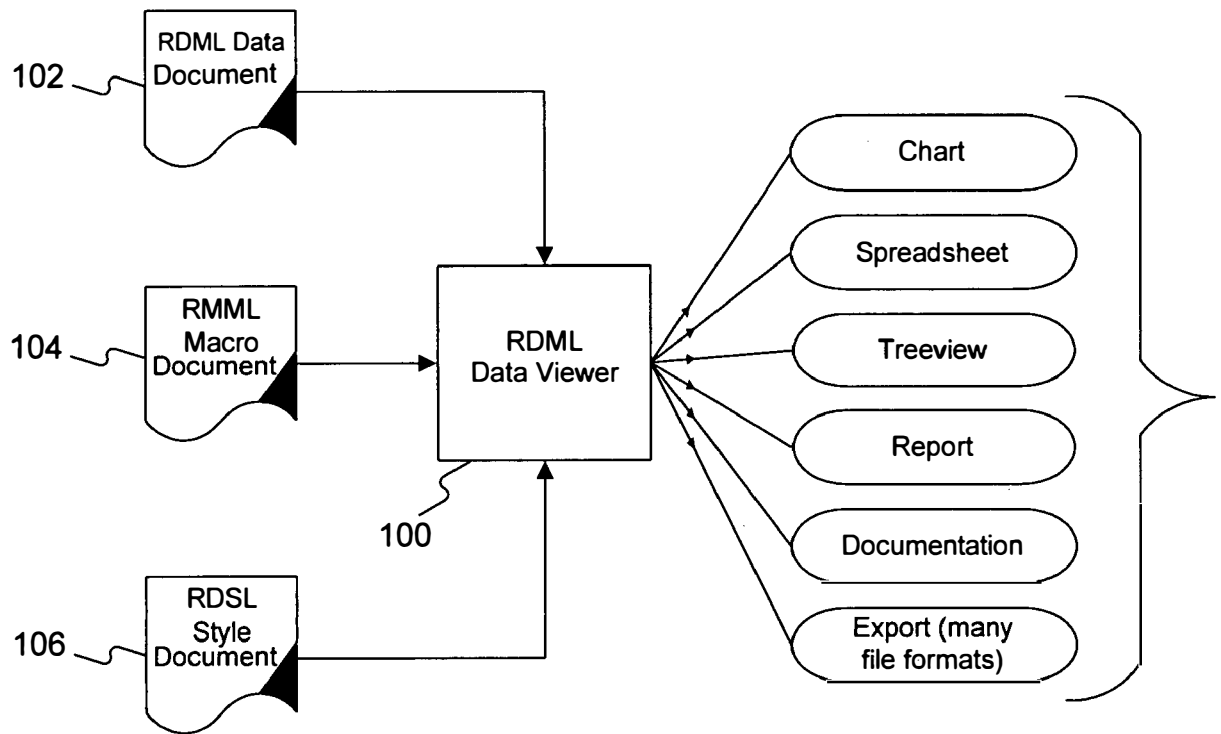


FIG. 1

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