



US008510407B1

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

(10) **Patent No.:** **US 8,510,407 B1**
(45) **Date of Patent:** ***Aug. 13, 2013**

(54) **DISPLAYING TIME-VARYING INTERNET
BASED DATA USING APPLICATION MEDIA
PACKAGES**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 928 days.
This patent is subject to a terminal dis-
claimer.

(21) Appl. No.: **11/932,553**

(22) Filed: **Oct. 31, 2007**

Related U.S. Application Data

(63) Continuation of application No. 09/558,925, filed on
Apr. 26, 2000, now Pat. No. 7,660,868.

(60) Provisional application No. 60/176,699, filed on Jan.
18, 2000, provisional application No. 60/176,687,
filed on Jan. 18, 2000, provisional application No.
60/131,115, filed on Apr. 26, 1999, provisional
application No. 60/131,114, filed on Apr. 26, 1999,
provisional application No. 60/131,083, filed on Apr.
26, 1999.

(51) **Int. Cl.**
G06F 15/16 (2006.01)

(52) **U.S. Cl.**
USPC **709/217; 709/219**

(58) **Field of Classification Search**
USPC 709/217, 219
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,599,756	A	2/1997	Matsuo	501/127
5,625,781	A	4/1997	Cline et al.	
5,649,186	A	7/1997	Ferguson	
5,682,511	A	10/1997	Sposato et al.	715/716
5,740,549	A	4/1998	Reilly et al.	

(Continued)

FOREIGN PATENT DOCUMENTS

WO WO0180086 A2 10/2001

OTHER PUBLICATIONS

Alexa 1.4.1 Support Pages, 9 pages, www.alexa.com/support/index
1.html, Jan. 1999.

(Continued)

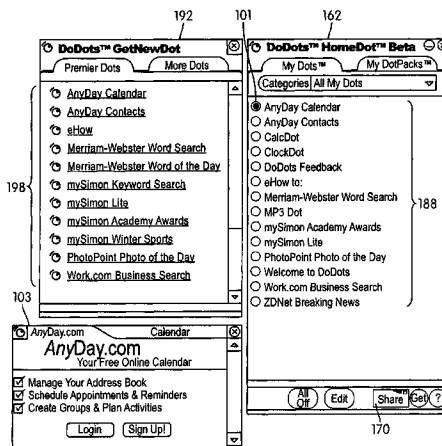
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(57) **ABSTRACT**

A software component for accessing and displaying time-
varying Internet content includes a definition for rendering a
graphical user interface and a URL pointing to the time-
varying Internet content to be downloaded and presented
within said user interface. A component provider may create
displays of Internet content which vary as a function of the
varying of the time-varying Internet content. In one example,
the graphical user interface includes an image, and the image
varies in order to illustrate the varying of the time-varying
data.

24 Claims, 37 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,745,718 A	4/1998	Cline et al.	715/777	6,339,826 B2	1/2002	Hayes, Jr. et al.	713/166
5,761,662 A	6/1998	Dasan		6,341,305 B2	1/2002	Wolfe	
5,774,670 A	6/1998	Montulli	395/200.57	6,342,907 B1	1/2002	Petty et al.	345/762
5,794,230 A	8/1998	Horadan et al.		6,343,377 B1	1/2002	Gessner et al.	717/10
5,796,393 A	8/1998	MacNaughton et al.		6,356,905 B1 *	3/2002	Gershman et al.	705/26.8
5,796,952 A	8/1998	Davis et al.		6,369,840 B1	4/2002	Barnett et al.	
5,801,702 A	9/1998	Dolan et al.		6,370,552 B1	4/2002	Bloomfield	715/513
5,802,530 A	9/1998	Van Hoff	715/513	6,374,273 B1	4/2002	Webster	707/513
5,805,829 A	9/1998	Cohen et al.	395/200.32	6,385,596 B1	5/2002	Wiser et al.	705/51
5,809,248 A	9/1998	Vidovic		6,393,407 B1	5/2002	Middleton et al.	
5,818,446 A	10/1998	Bertram et al.	715/746	6,401,134 B1	6/2002	Razavi et al.	709/310
5,835,088 A	11/1998	Jaaskelainen, Jr.	715/803	6,411,992 B1	6/2002	Srinivasan et al.	
5,838,906 A *	11/1998	Doyle et al.	715/205	6,414,677 B1	7/2002	Robertson et al.	345/419
5,860,068 A	1/1999	Cook	705/26.81	6,418,440 B1	7/2002	Kuo et al.	
5,864,676 A	1/1999	Beer et al.	709/229	6,434,563 B1	8/2002	Pasquali et al.	
5,864,868 A	1/1999	Contois	707/104	6,434,598 B1	8/2002	Gish	709/203
5,890,172 A	3/1999	Borman et al.		6,452,609 B1	9/2002	Katinsky et al.	345/716
5,893,091 A	4/1999	Hunt et al.		6,453,348 B1	9/2002	Barnier et al.	709/225
5,896,533 A	4/1999	Ramos et al.	395/680	6,460,029 B1	10/2002	Fries et al.	
5,918,237 A	6/1999	Montalbano	715/206	6,476,833 B1	11/2002	Moshfeghi	345/854
5,919,247 A	7/1999	Van Hoff et al.	709/217	6,484,149 B1	11/2002	Jammes et al.	
5,922,044 A	7/1999	Banthia	709/203	6,487,566 B1	11/2002	Sundaesan	
5,923,845 A	7/1999	Kamiya et al.	709/206	6,487,663 B1	11/2002	Jaisimha et al.	713/193
5,923,885 A	7/1999	Johnson et al.	717/176	6,496,203 B1	12/2002	Beaumont et al.	345/762
5,948,061 A	9/1999	Merriman et al.		6,510,466 B1	1/2003	Cox et al.	709/229
5,959,621 A	9/1999	Nawaz et al.	345/329	6,537,324 B1	3/2003	Tabata et al.	
5,966,715 A	10/1999	Sweeney et al.	707/203	6,538,673 B1	3/2003	Maslov	
5,973,692 A	10/1999	Knowlton et al.	345/348	6,549,612 B2	4/2003	Gifford et al.	
5,974,446 A	10/1999	Sonnenreich et al.		6,560,639 B1	5/2003	Dan et al.	
5,974,546 A	10/1999	Anderson	713/2	6,571,245 B2	5/2003	Huang et al.	
5,977,964 A	11/1999	Williams et al.		6,594,682 B2	7/2003	Peterson et al.	
5,983,227 A	11/1999	Nazem et al.		6,606,657 B1	8/2003	Zilberstein et al.	709/224
5,987,513 A	11/1999	Prithviraj et al.		6,629,143 B1	9/2003	Pang	709/226
5,995,756 A	11/1999	Hermann		6,662,341 B1	12/2003	Cooper et al.	715/513
6,006,252 A	12/1999	Wolfe		6,681,368 B1	1/2004	Kawabata	715/501.1
6,012,090 A	1/2000	Chung et al.		6,687,745 B1	2/2004	Franco et al.	709/219
6,012,098 A	1/2000	Bayeh et al.		6,691,130 B2	2/2004	Kawasaki et al.	707/102
6,018,344 A	1/2000	Harada et al.		6,694,484 B1	2/2004	Mueller	715/513
6,023,698 A	2/2000	Lavey, Jr. et al.	707/10	6,718,015 B1	4/2004	Berstis	379/88.17
6,026,433 A	2/2000	D'Arfach et al.		6,724,403 B1	4/2004	Santoro et al.	345/765
6,031,904 A	2/2000	An et al.	379/201	6,751,606 B1	6/2004	Fries et al.	
6,034,652 A	3/2000	Freiberger et al.	715/730	6,757,716 B1	6/2004	Blegen et al.	709/217
6,044,403 A	3/2000	Gerszberg et al.	709/225	6,766,454 B1	7/2004	Riggins	713/185
6,061,695 A	5/2000	Slivka et al.	707/513	6,784,900 B1	8/2004	Dobronsky et al.	
6,061,696 A *	5/2000	Lee et al.	715/209	6,816,880 B1	11/2004	Stent et al.	
6,065,044 A	5/2000	Gasawara		6,819,343 B1	11/2004	Sobeski et al.	715/848
6,088,717 A	7/2000	Reed et al.	709/201	6,819,345 B1	11/2004	Jones et al.	345/856
6,091,411 A	7/2000	Straub et al.	715/747	6,834,302 B1	12/2004	Harvell	709/224
6,091,412 A	7/2000	Simonoff et al.	345/335	6,842,779 B1	1/2005	Nishizawa	
6,101,510 A *	8/2000	Stone et al.	715/234	6,879,994 B1	4/2005	Matsliach et al.	709/204
6,104,391 A	8/2000	Johnston, Jr. et al.	715/745	6,938,041 B1 *	8/2005	Brandow et al.	1/1
6,105,063 A	8/2000	Hayes, Jr.	709/223	7,039,857 B2	5/2006	Beck et al.	715/500.1
6,115,040 A	9/2000	Bladow et al.	345/335	7,039,859 B1	5/2006	Sundaesan	715/513
6,128,655 A *	10/2000	Fields et al.	709/219	7,076,737 B2	7/2006	Abbott et al.	715/744
6,133,916 A	10/2000	Bukszar et al.		7,107,548 B2	9/2006	Shafron	
6,161,112 A	12/2000	Cragun et al.		7,216,300 B2	5/2007	Dang	
6,177,936 B1	1/2001	Cragun		7,222,303 B2	5/2007	ren et al.	715/744
6,192,407 B1	2/2001	Smith et al.	709/229	7,356,569 B1	4/2008	Kembel et al.	
6,199,082 B1	3/2001	Ferrel et al.		7,574,649 B1	8/2009	Safars et al.	715/200
6,215,490 B1	4/2001	Kaply	715/788	7,660,868 B1	2/2010	Kembel et al.	709/217
6,216,141 B1	4/2001	Straub et al.	707/513	7,756,967 B1	7/2010	Kembel et al.	709/224
6,230,173 B1	5/2001	Ferrel et al.		7,792,947 B1	9/2010	Kembel et al.	709/224
6,237,030 B1	5/2001	Adams et al.		8,020,083 B1	9/2011	Kembel et al.	715/201
6,240,555 B1	5/2001	Shoff et al.	725/110	8,346,887 B1	1/2013	Kembel et al.	709/217
6,268,856 B1	7/2001	Bruck et al.		2001/0042107 A1	11/2001	Palm	709/218
6,275,854 B1	8/2001	Himmel et al.		2002/0065896 A1	5/2002	Burakoff et al.	709/206
6,278,448 B1	8/2001	Brown et al.	345/333	2002/0078136 A1	6/2002	Brodsky et al.	709/203
6,278,449 B1	8/2001	Sugiarto et al.	715/826	2002/0089526 A1	7/2002	Buxton et al.	345/700
6,286,034 B1	9/2001	Sato et al.	709/204	2002/0089536 A1	7/2002	Dang	345/749
6,289,362 B1	9/2001	Van Der Meer	715/273	2002/0091697 A1	7/2002	Huang et al.	707/10
6,292,185 B1	9/2001	Ko et al.		2002/0130900 A1	9/2002	Davis	345/744
6,292,186 B1	9/2001	Lehman et al.	345/335	2002/0161879 A1	10/2002	Richard	709/223
6,297,819 B1	10/2001	Furst		2003/0051027 A1	3/2003	Aupperle et al.	709/224
				2003/0069944 A1	4/2003	Barlock et al.	709/220
				2004/0041836 A1	3/2004	Zaner et al.	345/751
				2004/0165007 A1	8/2004	Shafron	715/781
				2005/0273718 A1	12/2005	Naas	715/745

2008/0163202 A1	7/2008	Kemmel et al.	717/178
2008/0229217 A1	9/2008	Kemmel et al.	715/760
2010/0235757 A1	9/2010	Kemmel et al.	715/745
2010/0257442 A1	10/2010	Kemmel et al.	715/234
2012/0117479 A1	5/2012	Kemmel et al.	715/736

OTHER PUBLICATIONS

Alexa general faqs, 4 pages, www.alexa.com/whatisalexa/faq.html#general, Jan. 1999.

"Custom Explorer Bars Give Sites an Edge," 2 pages, www.microsoft.com/Windows/le/IE5/custom.asp, Jan. 1999.

"Flexibility Across the Web," 2 pages, www.microsoft.com/Windows/le/IE5/choice.asp, Jan. 1999.

"Web Accessories Overview," 2 pages, www.microsoft.com/workshop...er/accessory/overview/overview.asp, Jan. 1999.

"Browser Extensions Overview," 2 pages, www.microsoft.com/workshop/browser/ext/overview/overview.asp, Jan. 1999.

Alexa Technology, 4 pages, www.alexa.com/support/technology.html, Jan. 1999.

"Creating Custom Explorer Bars and Desk Bands," 13 pages, www.microsoft.com/workshop/browser/ext/overview/Bands.asp, Jan. 1999.

Alexa Internet Tour, 1 page, www.alexa.com.whatisalexa/index/html, Jan. 1999.

"Revolutionary Ad Model," Advertise on Alexa, 1 page, www.alexa.com/company/advertise.html, Jan. 1999.

"The Alexa Service Appears on Your Desktop in Its Own Window," 1 page, www.alexa.com/tour/overview.html, Jan. 1999.

"Know More About the Sites You Visit," 1 page, www.alexa.com/tour/site_stats.html, Jan. 1999.

"Find Related Web Sites," 1 page, www.alexa.com/tour/related_links.html, Jan. 1999.

500,000 Sites and Growing:, 1 page, www.alexa.com/tour/archive.html, Jan. 1999.

"Research Tools at Your Fingertips," 1 page, www.alexa.com/tour/eb.html, Jan. 1999.

"Reporting," 1 page, www.alexa.com/company/reporting.html, Jan. 1999.

"Alexa Internet's Related Links Integrated Into Netscape Browser," 1 page, www.alexa.com/company/netscape.html, Jan. 1999.

"Demographics," alexa.com/company/demographics.html, Jan. 1999.

"Ads Appear in the Pop-up and on the Bar," 1 page, www.alexa.com/company/adspecs.html, Jan. 1999.

"Alexa Why Crawl," 1 page, www.alexa.com/support/why_crawl.html, Jan. 1999.

GIF Image 590x329 pixels, Alexa, 1 page, www.alexa.com/tour/images/alexa_overview.gif, Jan. 1999.

"It's X-treme!," Alexa, PC Magazine: The Best of 1998, 1 page, www.zdnet.com/pcmag/special/bestof98/internet5.html, Jan. 1999.

"Search While You Surf," PC Magazine: Search the Web, 1 page, www.zdnet.com/pcmag/features/websearch98/surf.html, Jan. 1999. MindSpring, MyYahoo, pp. 1-16, www.mindspring.com/myyahoo/contents.htm, Dec. 1997.

Morrison, XML Unleashed, Sams Publishing, Dec. 21, 1999.

Flanagan, JavaScript: The Definitive Guide, 3rd Ed., O'Reilly, Jun. 1998.

Patent Application entitled "Parallel Web Sites", U.S. Appl. No. 09/192,633, filed Nov. 16, 1998.

Microsoft Computer Dictionary, Fifth Edition, 2002, Definition of "Web Browser".

Williams, Margot, "Cyberspace Calendars: The Web's Growing Date Base", Nov. 30, 1998, The Washington Post, p. 1.

Bott, Ed., et al., "Special Edition Using Windows 95 with Internet Explorer 4.0", Publisher: Que, Feb. 17, 1998, pp. 585 and 435.

McFedries, Paul, "Windows 98 Unleashed", Publisher: Sams, May 12, 1998, pp. 594-596.

McFedries, Paul, "Windows 98 Unleashed", Publisher: Sams Publishing, May 12, 1998, pp. xix, xx, xxi, xxiv, 2-4, 44-46, 69, 70, 79, 80, 97-116, 148, 158-163, 251, 551, 787-792, 799-807, 885, 899, 900, and 904-906.

McCrickard, D. Scott, et al., "Supporting Information Awareness Using Animated Widgets", Proceedings of the 7th USENIX Tel/Tk Conference, Feb. 14-18, 2000, 12 pages.

"Streaming Internet Technologies", *PR Newswire*, May 18, 1999, 2 pages.

"NewsEdge Delivers the Power of Real-Time News in a Browser", *Business Wire*, Nov. 9, 1998, 3 pages.

McCartney, Terrance Paul, "End-User Construction and Configuration of Distributed Multimedia Applications", *ProQuest Dissertations and Theses*, 1996, 197 pages.

"Microsoft Eyes Marimba's Castanet", by CNET News.com Staff, Dec. 24, 1996, printed from <http://news.cnet.com/Microsoft-eyes-Marimbas-Castanet/2100-1001_3-257491.html>, 2 pages.

Williams, Dennis, "Application Delivery on a Grand Scale", *Network World Fusion*, Mar. 22, 1999, printed from <<http://www.networkworld.com/reviews/0322revmarimba.html>>, 4 pages.

Whitehead et al., "WEBDAV: IETF Standard for Collaborative Authoring on the Web", Sep. and Oct. 1998, Retrieved from the Internet <URL:ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=722228>, pp. 1-7 as printed.

* cited by examiner

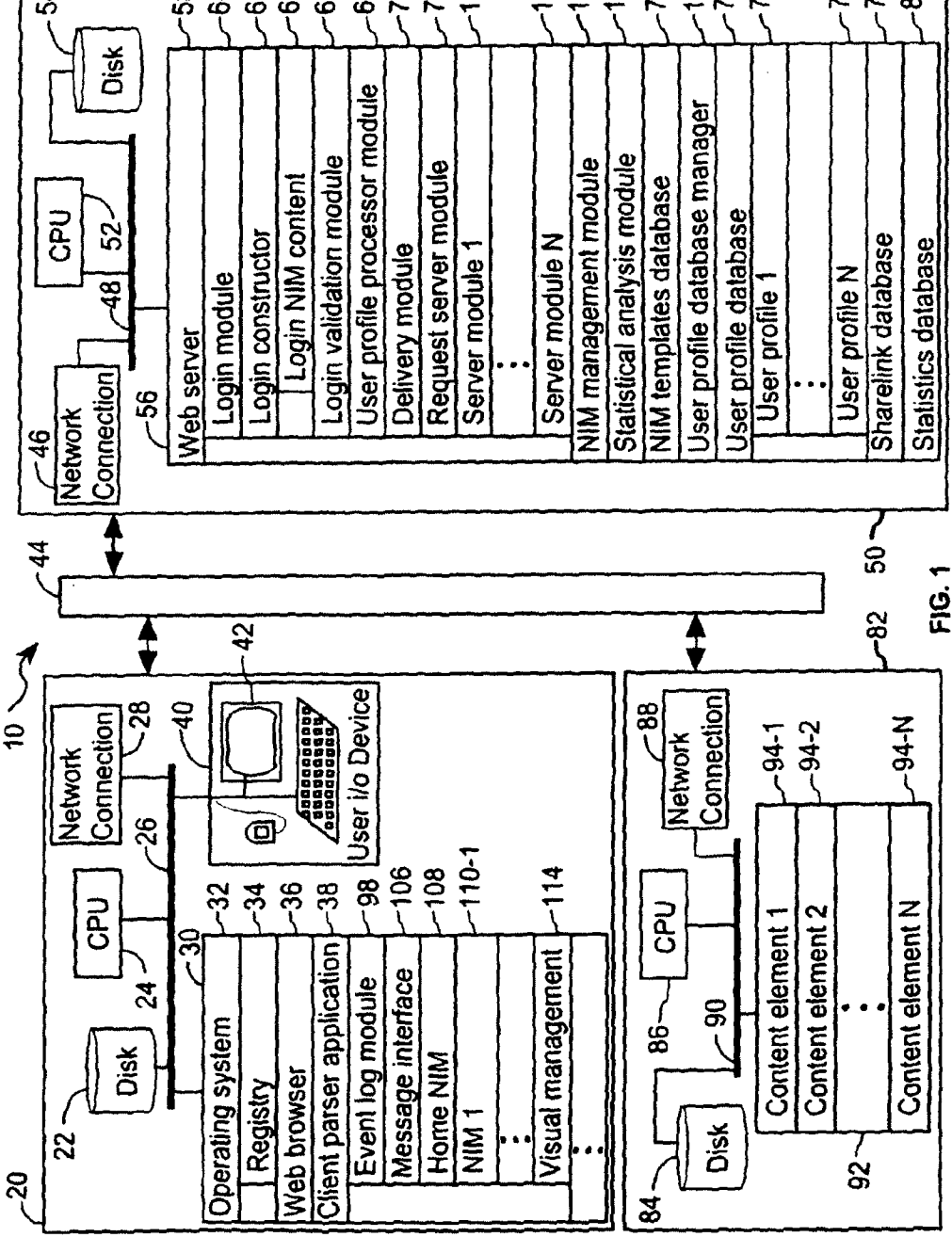


FIG. 1

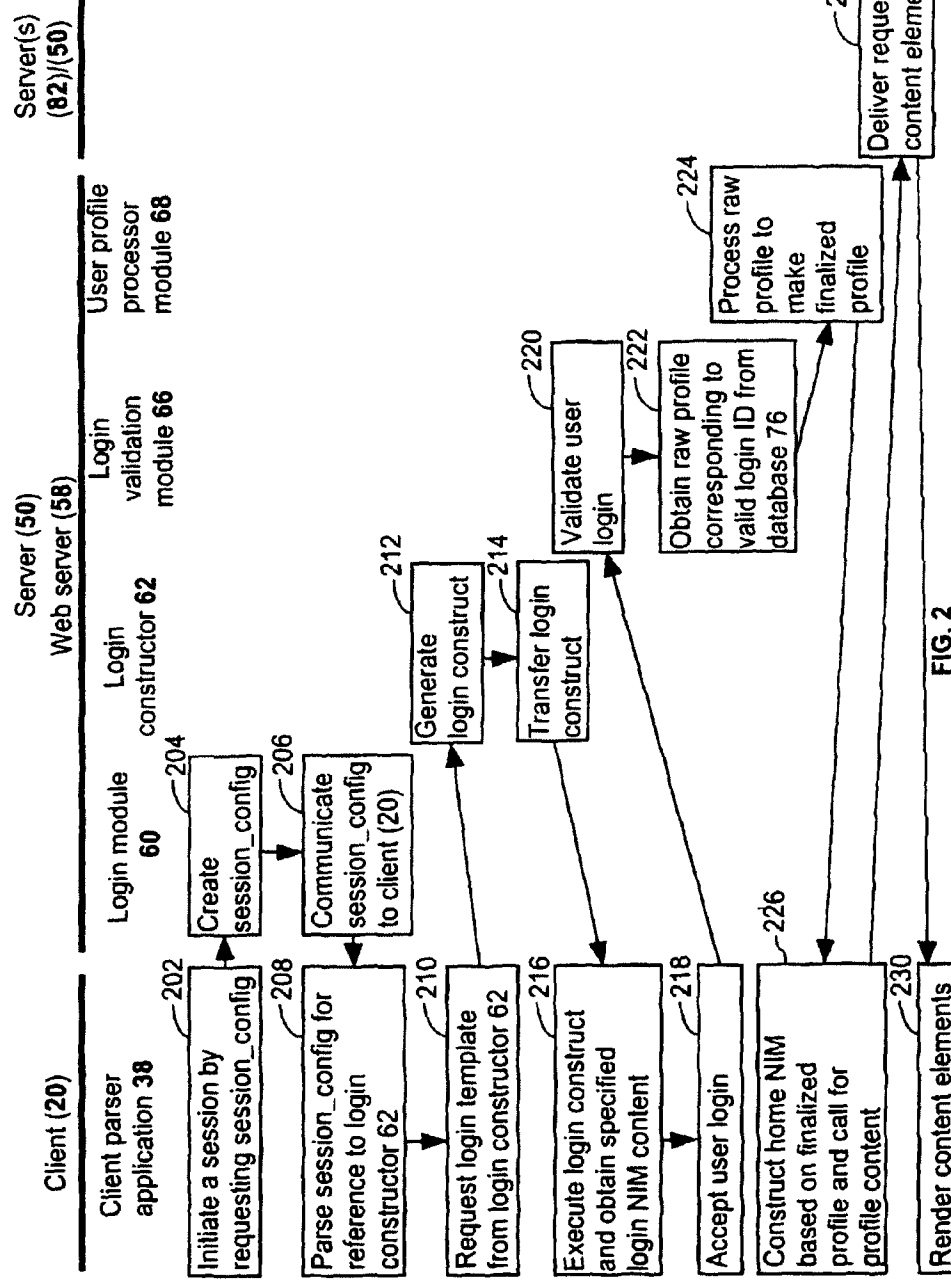


FIG. 2

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