US007814423B2

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

(10) Patent No.: **US 7,814,423 B2**
(45) Date of Patent: **Oct. 12, 2010**

(54) **METHOD FOR PROVIDING A GRAPHICAL USER INTERFACE**

(75) Inventors: **Scott Musson**, Arvada, CO (US); **Christopher Jolley**, Broomfield, CO (US); **George Murnock**, Longmont, CO (US); **Subrahmanyam Allamaraju**, Longmont, CO (US); **Brodi Beartusk**, Lafayette, CO (US); **Robert Bergman**, Denver, CO (US); **James D'Ambrosia**, Westminster, CO (US); **Kevin Blair Frender**, Longmont, CO (US); **Stephen Hetzel**, Boulder, CO (US); **Purushotham Babu Naidu**, Lafayette, CO (US); **Sameer Sawant**, Boulder, CO (US)

(73) Assignee: **BEA Systems, Inc.**, Redwood Shores, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 790 days.

(21) Appl. No.: **10/788,876**

(22) Filed: **Feb. 27, 2004**

(65) **Prior Publication Data**

US 2005/0108647 A1 May 19, 2005

Related U.S. Application Data

(60) Provisional application No. 60/450,991, filed on Feb. 28, 2003.

(51) **Int. Cl.**
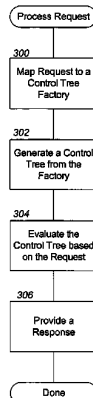*G06F 3/048* (2006.01)
G06F 3/00 (2006.01)

(52) **U.S. Cl.** **715/744**; 715/778; 715/779; 715/746; 715/747

(58) **Field of Classification Search** 715/744, 715/778, 779, 747, 746
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,295,243	A	*	3/1994	Robertson et al.	715/848
6,115,040	A		9/2000	Bladow et al.	
6,223,145	B1	*	4/2001	Hearst	703/22
6,249,291	B1		6/2001	Popp et al.	
6,268,852	B1	*	7/2001	Lindhorst et al.	715/744
6,327,628	B1	*	12/2001	Anuff et al.	719/311
6,486,895	B1		11/2002	Robertson et al.	
6,671,853	B1		12/2003	Burkett et al.	
6,778,193	B2	*	8/2004	Biebesheimer et al.	715/805
6,961,750	B1		11/2005	Burd et al.	
7,028,261	B2	*	4/2006	Smyth et al.	715/744

(Continued)

OTHER PUBLICATIONS

Hunter et al., "Java Servlet Programming", Apr. 2001, 19 pages, 2nd Edition.

(Continued)

Primary Examiner—Dennis-Doon Chow
Assistant Examiner—Anil N Kumar
(74) *Attorney, Agent, or Firm*—Fliesler Meyer LLP

(57) **ABSTRACT**

A method for rendering a portal graphical user interface (GUI), comprising providing for the representation of a GUI desktop, a GUI look and feel, and a GUI book as a set of controls wherein the controls can be organized in a logical hierarchy, traversing the representation, wherein the traversing comprises associating a theme with a first control in the set of controls, rendering the first control according to the theme, rendering any descendents of the first control according to the theme, wherein any descendents of the first control can override the theme, and wherein one of the set of controls can communicate with another of the set of controls.

40 Claims, 9 Drawing Sheets

U.S. PATENT DOCUMENTS

7,111,243	B1 *	9/2006	Ballard et al.	715/744
7,155,678	B2 *	12/2006	Cooper et al.	715/744
7,203,909	B1 *	4/2007	Horvitz et al.	715/765
7,548,946	B1 *	6/2009	Saulpaugh et al.	709/203
2001/0037287	A1	11/2001	Broadbent et al.	
2002/0118226	A1	8/2002	Hough et al.	
2002/0188729	A1	12/2002	Zhou et al.	
2003/0014442	A1	1/2003	Shiigi et al.	
2003/0023628	A1	1/2003	Girardot et al.	
2003/0055868	A1	3/2003	Fletcher et al.	
2003/0126558	A1	7/2003	Griffin	
2004/0098360	A1	5/2004	Witwer et al.	
2004/0125124	A1	7/2004	Kim et al.	
2004/0133660	A1	7/2004	Junghuber et al.	
2006/0282451	A1	12/2006	Zhang et al.	

OTHER PUBLICATIONS

Moss, "JavaServlets", 1999, 26 pages, McGraw-Hill.

Hunter, "Java Servlet Programming", 2001, pp. 261-267, O'Reilly & Co.

Hunter, "Java Servlet Programming", 1998, 27 pages, O'Reilly, Copyright 2001.

Knudsen, et al., "Learning Java", May 2000, 48 pages, O'Reilly & Associates, Inc.

Hunter, "Java Servlet Programming", 1998, pp. 485-486, O'Reilly, Copyright 2001.

Meckler, "Java and Inter-Applet Communication", Oct. 1, 1997, 11 pages, Dr. Dobb's Journal. http://www.ddj.com/java/184410295.

Geary, "Graphic JAVA Mastering the JFC", 1999, 10 pages, Sun Microsystems, Inc.

Bontrager, "Creating A Tab Panel", Bontrager Connection LLP, 2006, 10 pages. Retrieved from http://willmaster.com/library/tutorials/creating_a_tab_panel.php.

Andersen, "mhtTabPane", 2002, 10 pages. Retrieved from http://users.cybercity.dk/~dsl58854/articles/mhaTabPane.html, http://users.cybercity.dk/~dsl58854/articles/mhaTab/readme.html.

Schildt, The Complete Reference, 2002, pp. 654-656, Fifth Ed., McGraw Hill/Osborne.
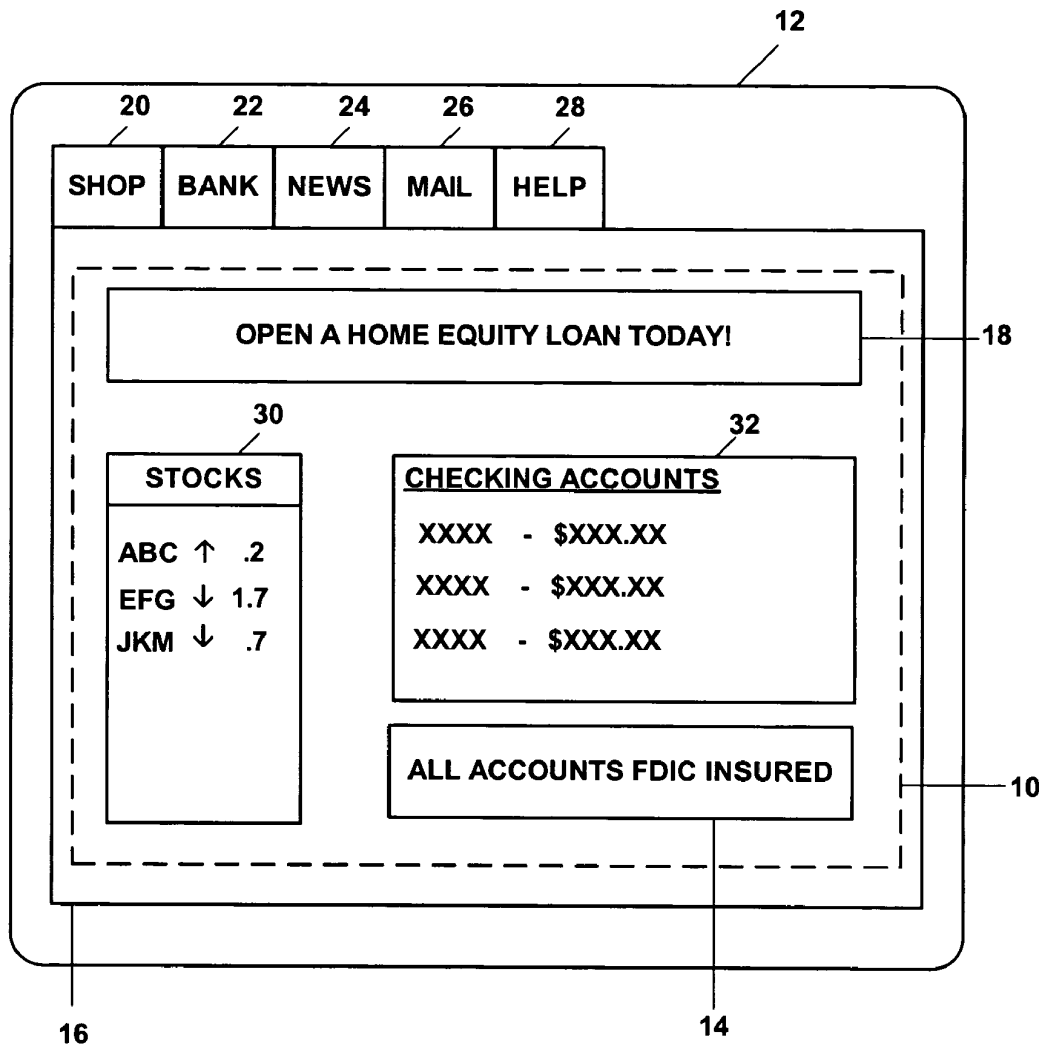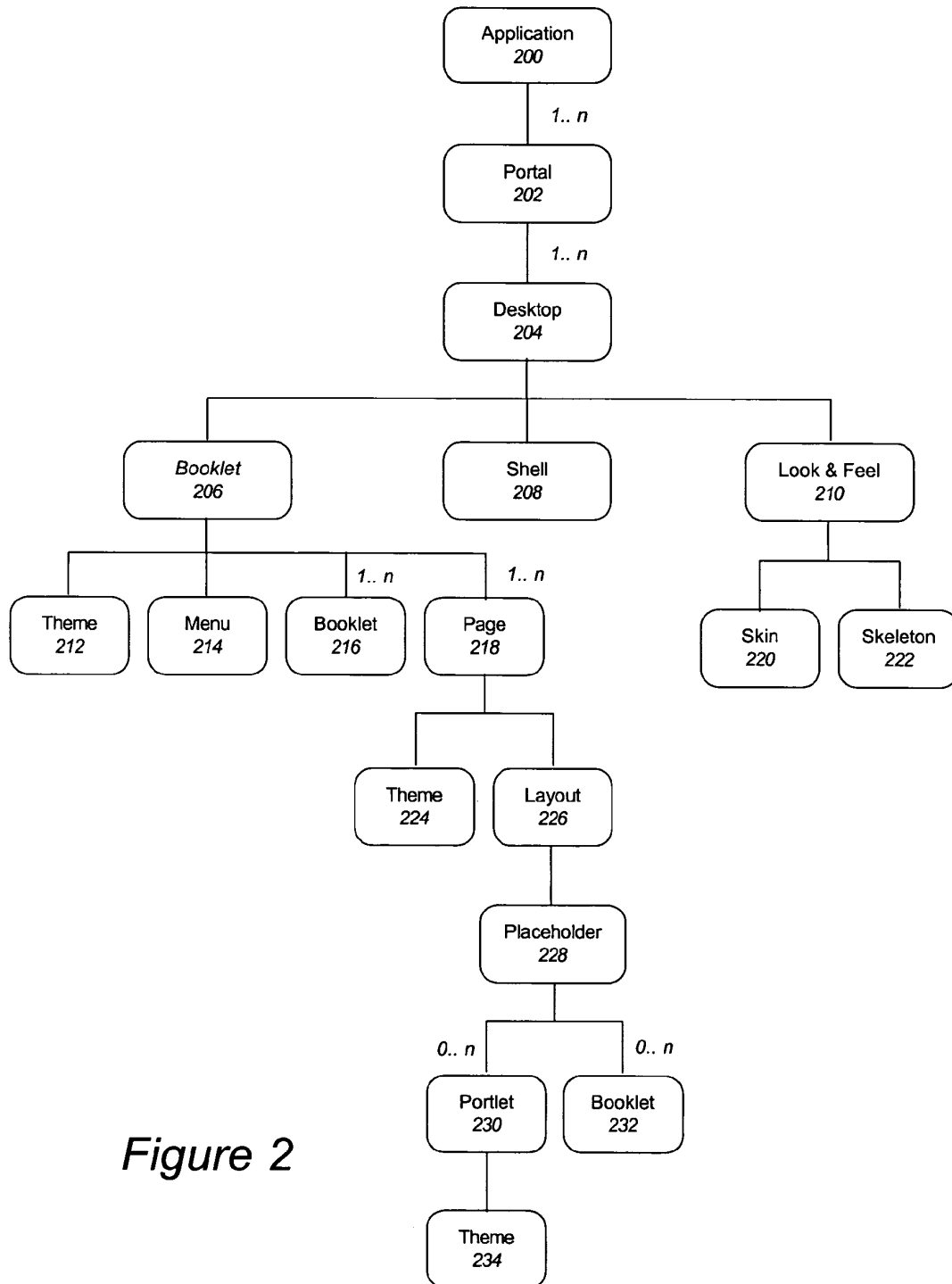
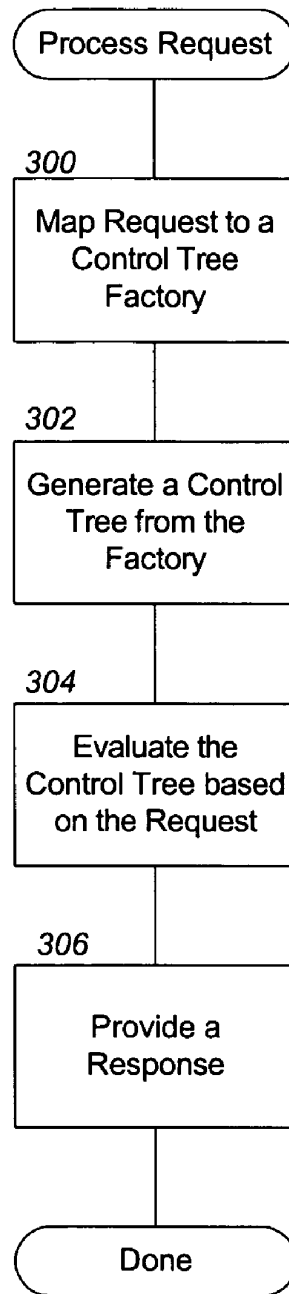* cited by examiner

Figure 1

Figure 2

Figure 3

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.

fastcase®
Smarter legal research.