

(12) United States Patent Loomans

(10) Patent No.: US 6,728,960 B1

(45) **Date of Patent:** Apr. 27, 2004

(54) TECHNIQUES FOR MANAGING MULTIPLE THREADS IN A BROWSER ENVIRONMENT

(75) Inventor: **Jeffrey Loomans**, San Francisco, CA

(US)

(73) Assignee: Siebel Systems, Inc., San Mateo, 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.: 09/437,421

(22) Filed: Nov. 17, 1999

Related U.S. Application Data

(60) Provisional application No. 60/109,077, filed on Nov. 18, 1998.

(51) Int. Cl.⁷ G06F 9/00

(56) References Cited

U.S. PATENT DOCUMENTS

5,708,798 A	1/1998	Lynch et al.
5,745,765 A	4/1998	Paseman
5,825,651 A	10/1998	Gupta et al.

5,889,990 A	*	3/1999	Coleman et al	709/322
5,918,239 A	*	6/1999	Allen et al	707/526
6,128,640 A	*	10/2000	Klienman	709/102
6,175,877 B1	*	1/2001	Zerber	709/310
6,256,673 B1	*	7/2001	Gayman	709/232
6,415,316 B1	*	7/2002	Van Der Meer	709/203
6,438,592 B1	*	8/2002	Killian	709/224
6,516,338 B1	*	2/2003	Landsman et al	709/203

FOREIGN PATENT DOCUMENTS

WO	WO 9939265	*	8/1999	G06F/9/44
----	------------	---	--------	-----------

* cited by examiner

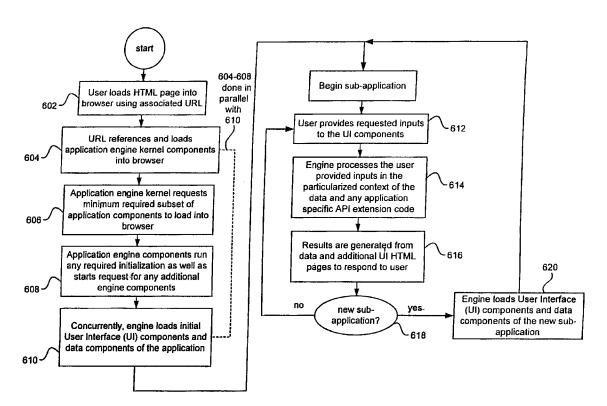
Primary Examiner—Meng-Al T. An Assistant Examiner—Charles E Anya

(74) Attorney, Agent, or Firm—James W. Soong; Siebel Systems, Inc.

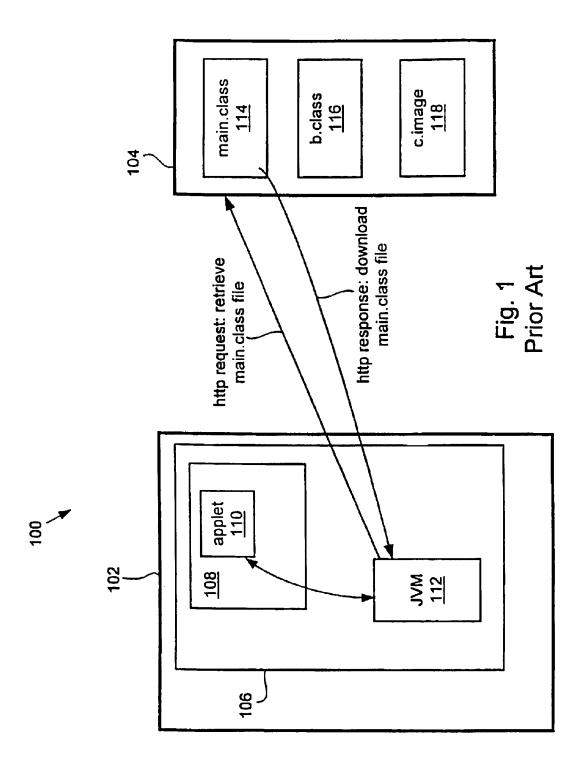
(57) ABSTRACT

Techniques for managing multiple threads in an asynchronous environment, such as a browser, are described. As a method, instantiating an event thread in response to a user event by a shell event handler block that provides shell functions for a user event. Once the event thread as been instantiated, managing the event thread by a generic thread manager block that provides a plurality of multithread management functions for the shell event handler. When required, blocking and unblocking the event thread by a blocking system that is arranged to block and unblock threads.

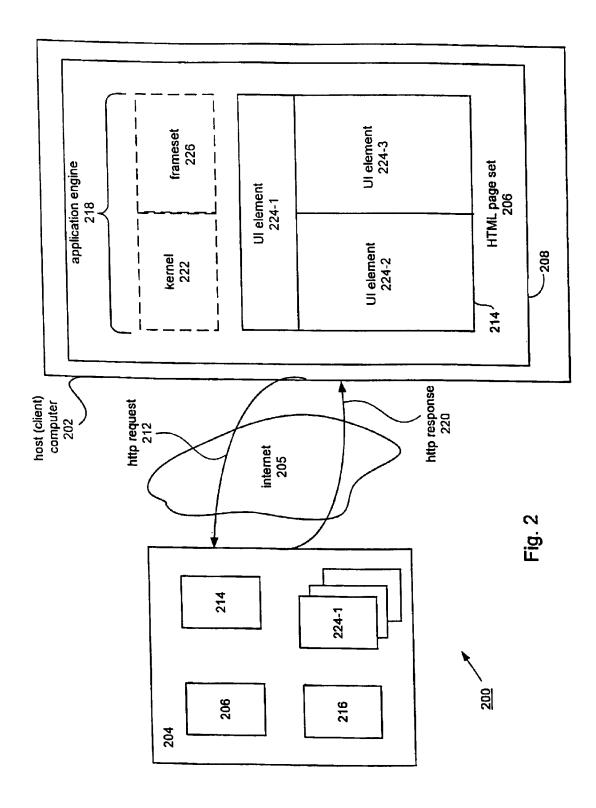
11 Claims, 7 Drawing Sheets













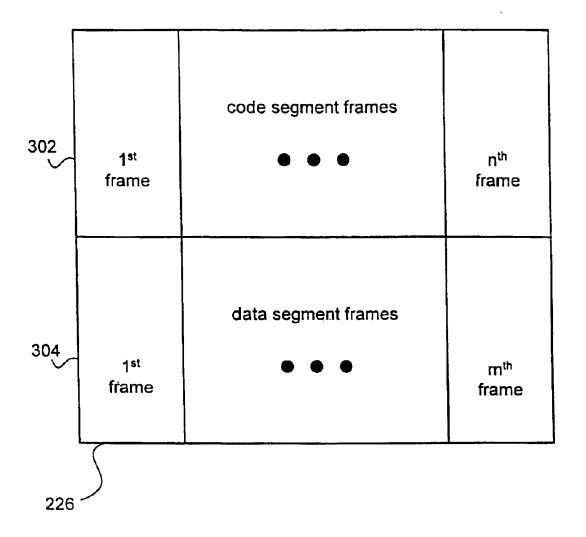
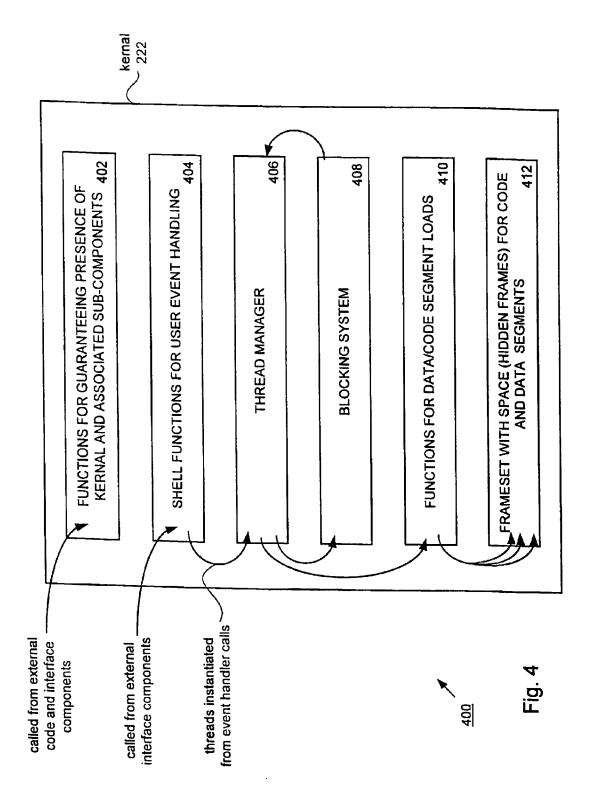


Fig. 3





DOCKET A L A R M

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.

