



(12) **United States Patent**
Hunt

(10) **Patent No.:** **US 6,192,398 B1**
(45) **Date of Patent:** **Feb. 20, 2001**

- (54) **REMOTE/SHARED BROWSER CACHE**
- (75) Inventor: **Gary T. Hunt**, Austin, TX (US)
- (73) Assignee: **International Business Machines Corporation**, Armonk, NY (US)
- (*) Notice: Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.
- (21) Appl. No.: **08/953,348**
- (22) Filed: **Oct. 17, 1997**
- (51) **Int. Cl.⁷** **C06F 15/173; C06F 17/30**
- (52) **U.S. Cl.** **709/213; 707/10; 709/218**
- (58) **Field of Search** **395/200.43, 200.33, 395/200.57, 200.47, 200.56; 709/213, 217, 218, 219, 248, 249; 707/10**

5,878,218 * 3/1999 Maddalozzo, Jr. et al. 709/213
 5,944,780 * 8/1999 Chase et al. 709/201

OTHER PUBLICATIONS

C.R. Saravanan, "WWW in DSM" Master's thesis. Univ. of Manitoba, 1997. Univ. of Manitoba Tech. Report TR97-05.*

* cited by examiner

Primary Examiner—Dung C. Dinh
(74) *Attorney, Agent, or Firm*—Jeffrey S. Labaw; Felsman, Bradley, Vaden, Gunter & Dillon, LLP

(57) **ABSTRACT**

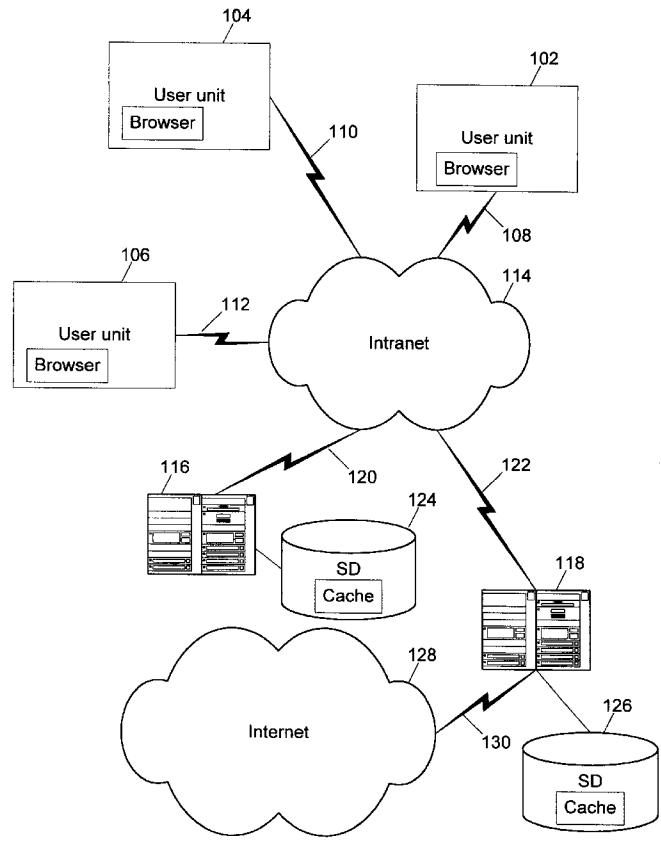
Browsers for different clients in an enterprise are configured to cache pages at least in part in a common file area in a remote, shared file server. Duplication or redundancy in caching pages is thus eliminate, and a larger body of distinct pages may be cached within a given allocation of memory space. Each remote, shared cache includes a shared cache contents data structure including information required to "time-out" pages and to determine if a page is in the process of being loaded or updated by another client sharing the cache. Where multiple caches are supported by the browsers, the remote, shared cache may form part of a local/remote cache hierarchy. When accessing a page, browsers check each cache in a multiple cache configuration, updating all caches as necessary.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,445,174	4/1984	Fletcher	.....	364/200
5,297,265	3/1994	Frank et al.	.....	395/400
5,604,882	2/1997	Hoover et al.	.....	395/448
5,727,159 *	3/1998	Kikinis	.....	395/200.76
5,784,590 *	7/1998	Cohen et al.	.....	711/122
5,787,466 *	7/1998	Berliner	.....	711/117
5,796,973 *	8/1998	Witt et al.	.....	395/384
5,796,974 *	8/1998	Goddard et al.	.....	395/387

30 Claims, 5 Drawing Sheets



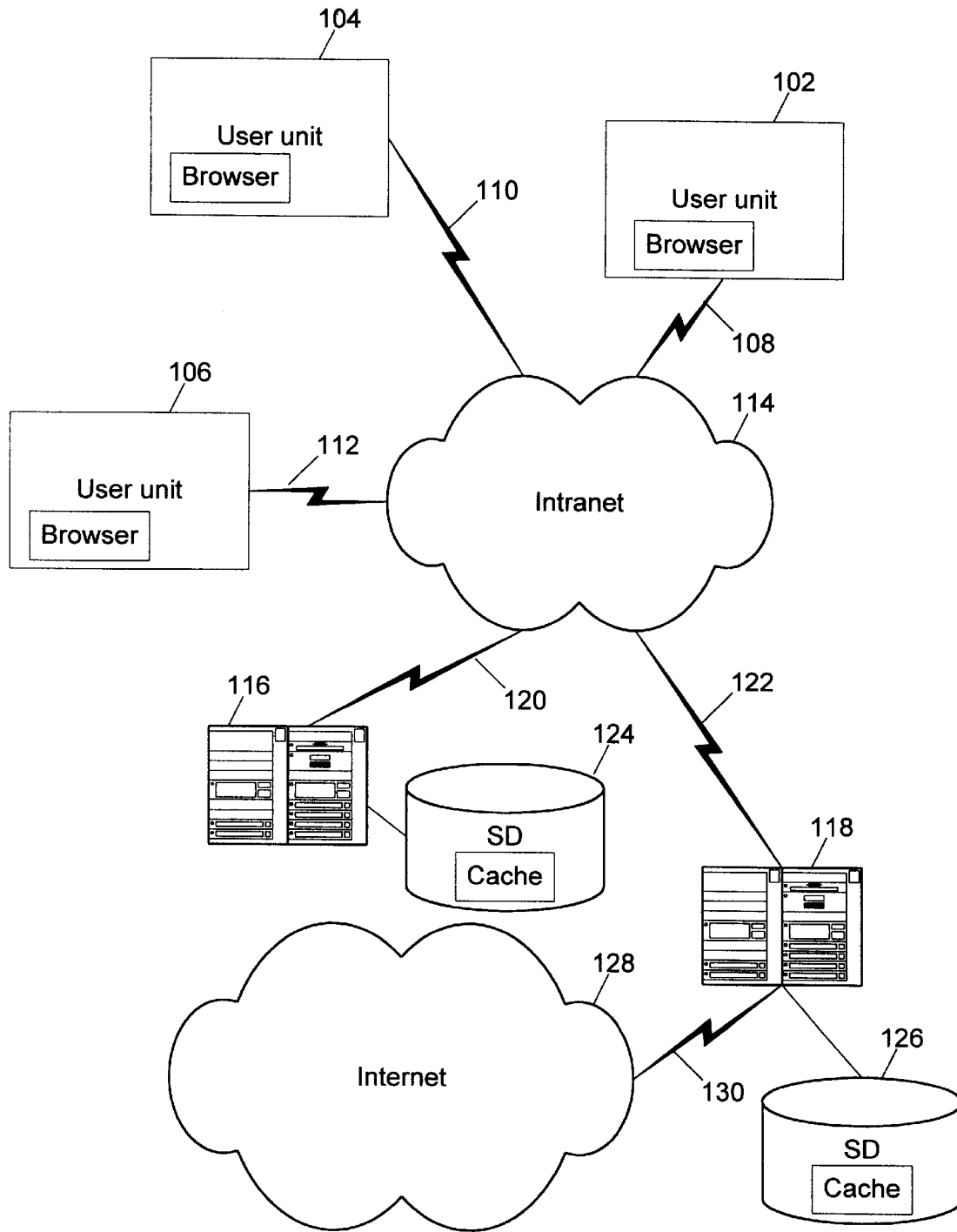


Figure 1

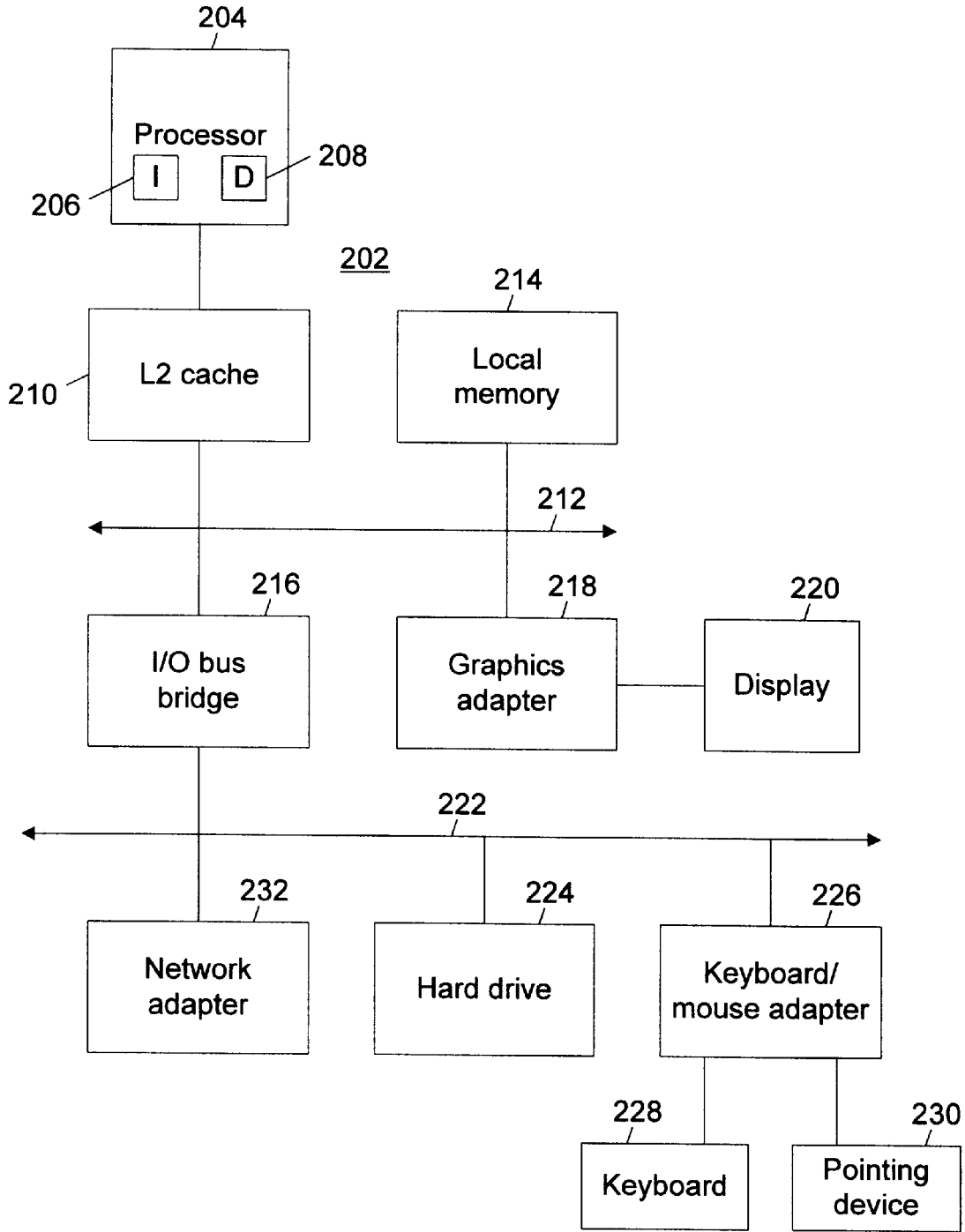


Figure 2

www.irs.com/default.html	04/15/97	✓	

300

Figure 3

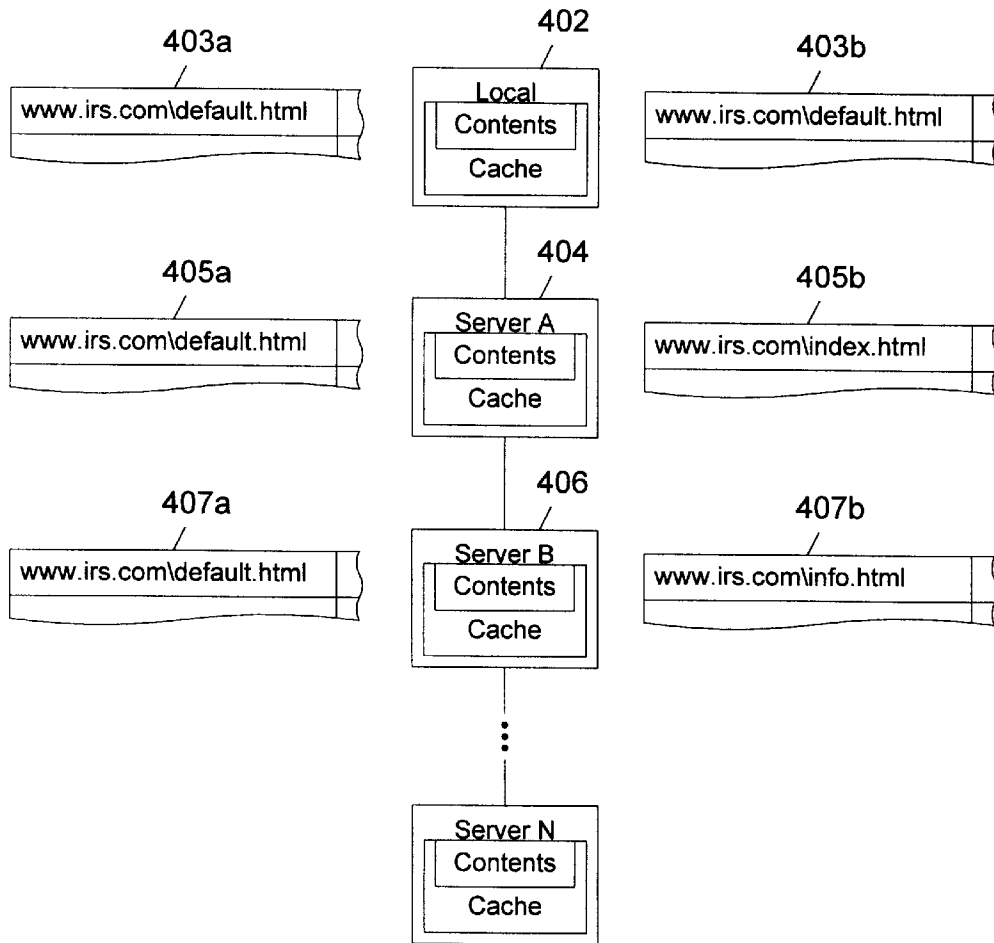


Figure 4

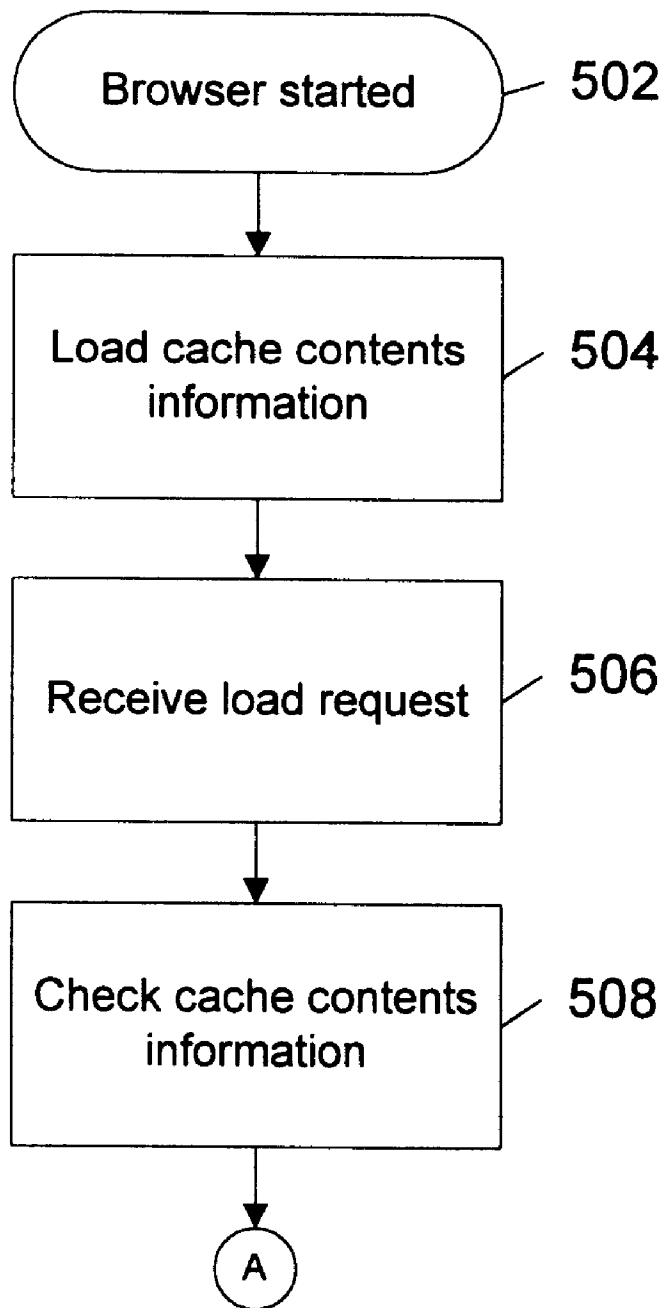


Figure 5A

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.