



(12) **United States Patent**
Hunt

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(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.

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(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

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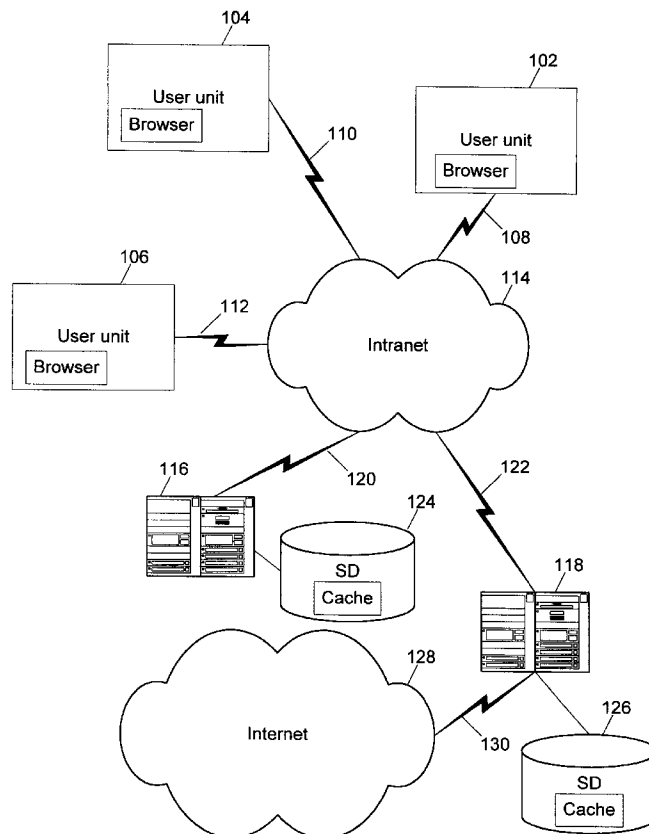
Primary Examiner—Dung C. Dinh

(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.

30 Claims, 5 Drawing Sheets



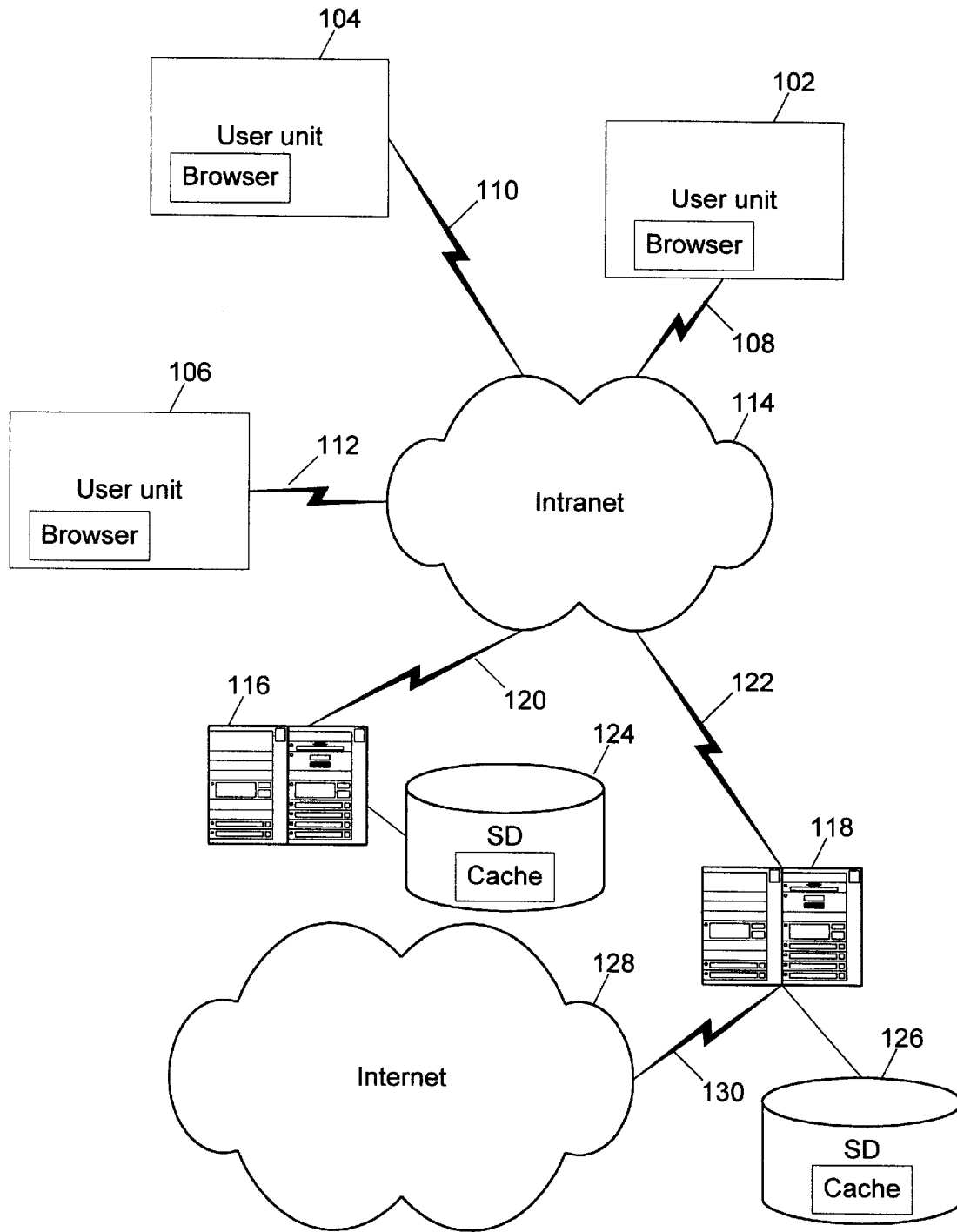


Figure 1

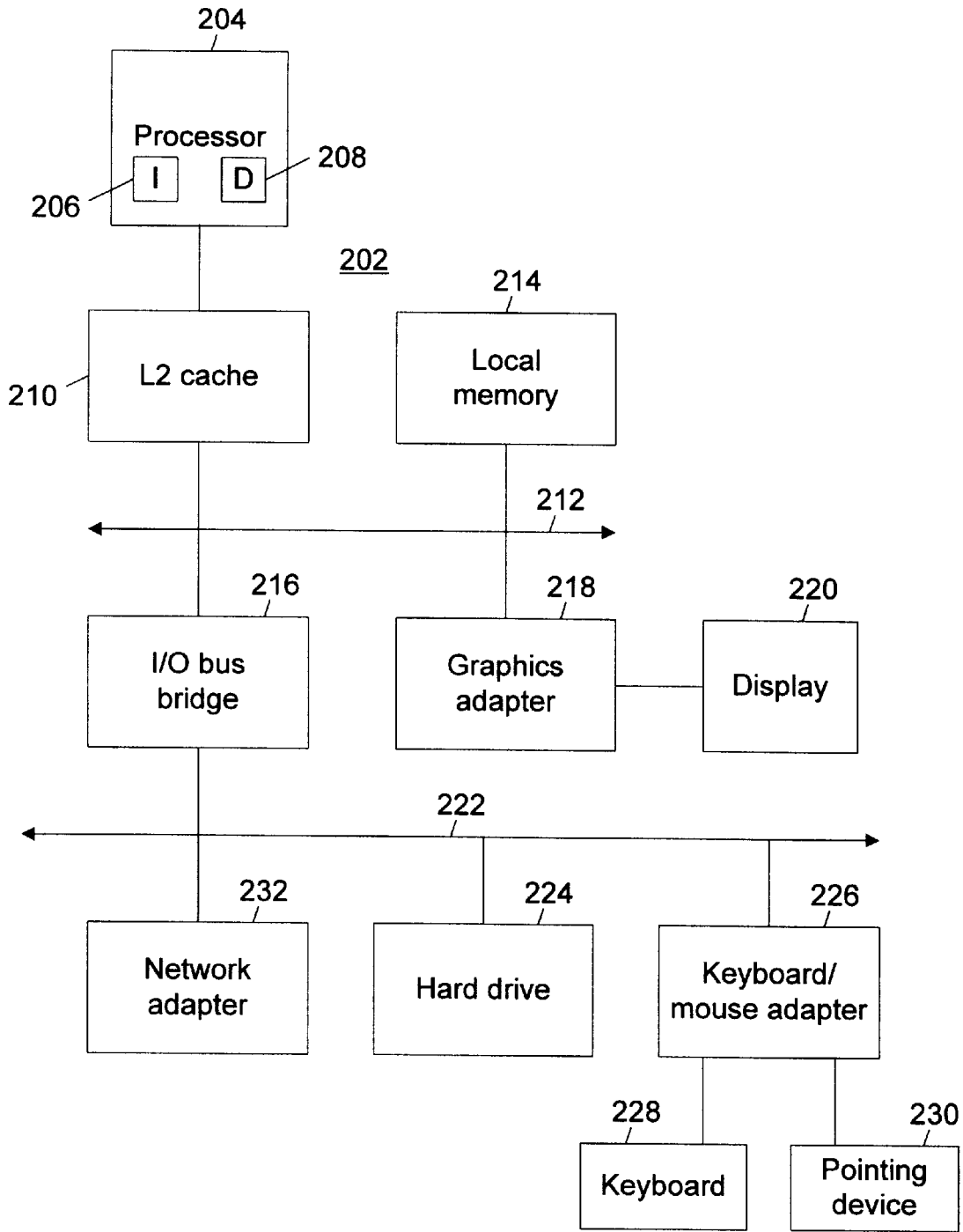


Figure 2

| | | | |
|---------------------------------|-----------------|----------|-----|
| 302 www.irs.com/default.html | 304 04/15/97 | 306 ✓ | 308 |
| | | | |
| | | | |
| | | | |
| | | | |

300

Figure 3

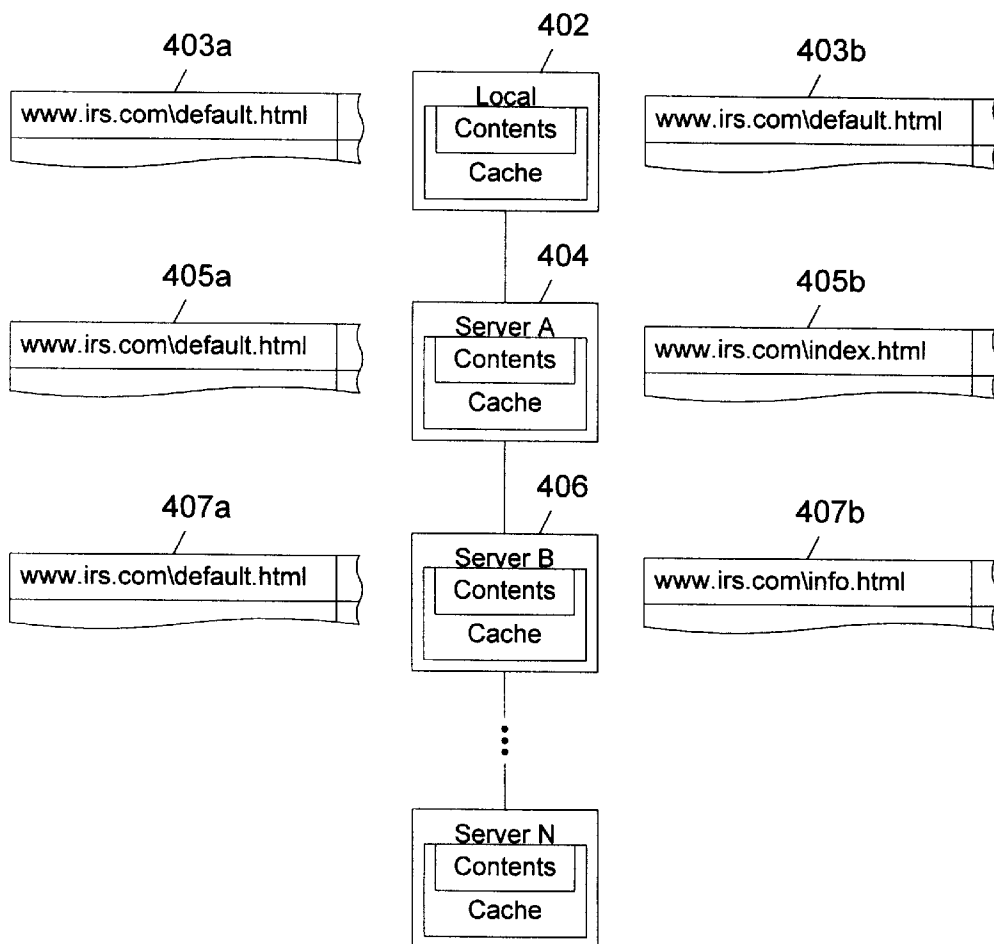


Figure 4

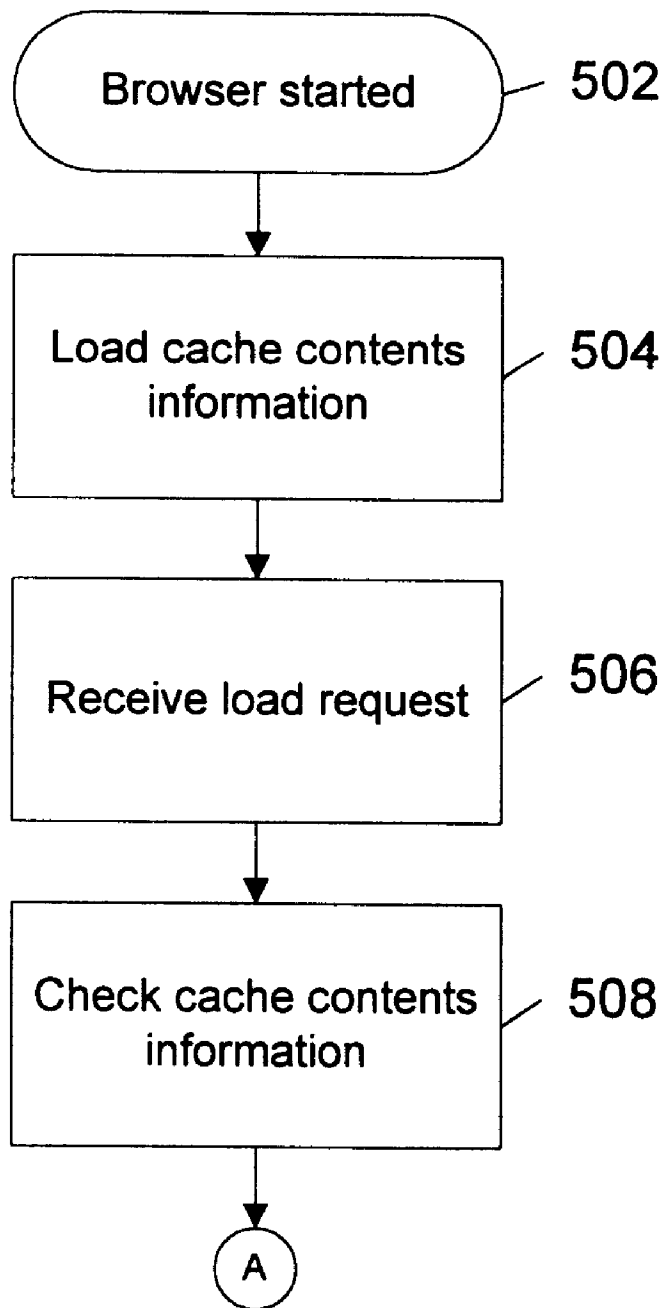


Figure 5A

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