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(54) **SYSTEM FOR PERSONALIZING, ORGANIZING AND MANAGING WEB INFORMATION**

(75) Inventors: **Wen-Syan Li**, Fremont, CA (US); **Quoc Vu**, San Jose, CA (US)

(73) Assignee: **NEC Corporation**, Tokyo (JP)

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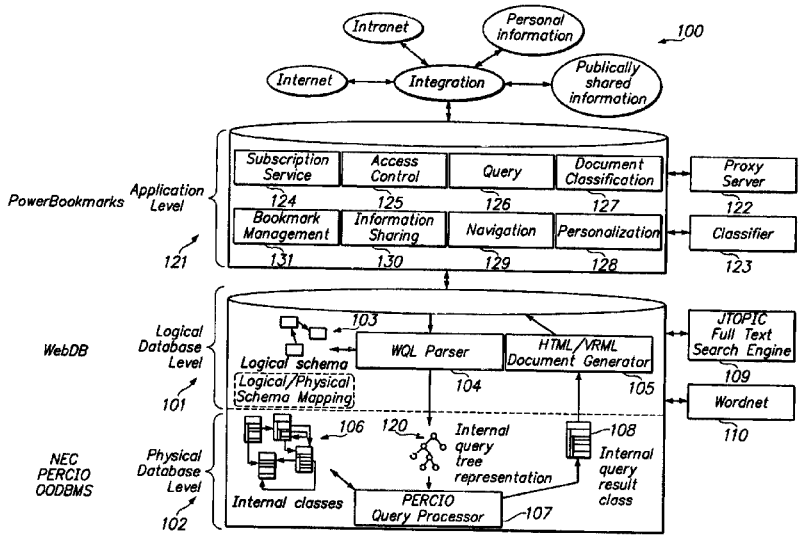
Primary Examiner—Joseph H. Feild
(74) *Attorney, Agent, or Firm*—Sughrue Mion, PLLC

(57) **ABSTRACT**

The present invention provides a hypermedia database for managing bookmarks, which allows a user to organize hypertext documents for querying, navigating, sharing and viewing. In addition, the hypermedia database also provides access control to the information in the database. The hypermedia database of the present invention parses meta-data from bookmarked documents and indexes and classifies the documents. The present invention supports advanced query and navigation of a collection of bookmarks, especially providing various personalized bookmark services. In one embodiment, the present invention utilizes a proxy server to observe a user's access patterns to provide useful personalized services, such as automated URL bookmarking, document refresh, and bookmark expiration. In addition, a user may also specify various preference in bookmark management, e.g., ranking schemes (i.e. by referral, access frequency, or popularity) and navigation tree fan-out. A subscription service which retrieves new or updated documents of user-specified interests is also provided.

44 Claims, 20 Drawing Sheets