



(12) **United States Patent**
Gustman

(10) **Patent No.:** **US 6,199,060 B1**
(45) **Date of Patent:** ***Mar. 6, 2001**

(54) **METHOD AND APPARATUS MANAGEMENT OF MULTIMEDIA ASSETS**

(75) Inventor: **Samuel Gustman**, Santa Monica, CA (US)

(73) Assignee: **Survivors of THW Shoah Visual History Foundation**, Los Angeles, CA (US)

(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

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.: **09/076,504**

(22) Filed: **May 12, 1998**

Related U.S. Application Data

(62) Division of application No. 08/678,727, filed on Jul. 10, 1996, now Pat. No. 5,813,014.

(51) **Int. Cl.⁷** **G06F 17/30**

(52) **U.S. Cl.** **707/3; 707/1; 707/2; 707/4; 707/5; 707/104; 709/216**

(58) **Field of Search** 707/104, 1, 2, 707/3, 4, 5; 370/338, 395, 367, 452, 231; 395/500, 200.7, 38, 49, 79; 345/352; 709/216; 710/74; 712/220

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,192,999 3/1993 Graczyk et al. 348/552
5,241,671 8/1993 Reed et al. 707/104

(List continued on next page.)

OTHER PUBLICATIONS

IEEE publication, "Database interoperability support in multimedia applications architecture and methodology" by W. A. Gray et al., The Institute of Electrical Engineers, Dept. of Computer Science, UK, pp. 2/1-2/6, Jan. 1998.*

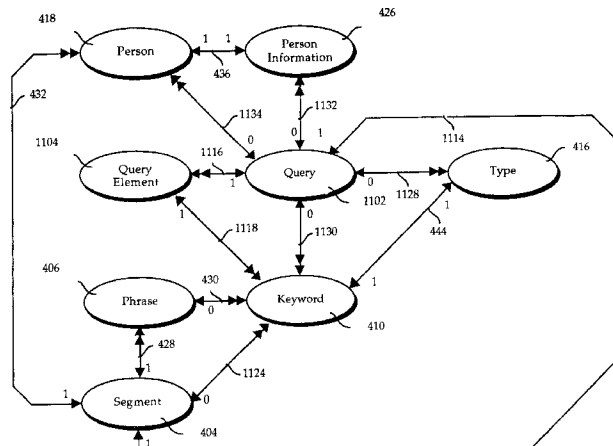
(List continued on next page.)

Primary Examiner—Thomas G. Black
Assistant Examiner—Diane D. Mizrahi
(74) *Attorney, Agent, or Firm*—The Hecker Law Group

(57) **ABSTRACT**

The invention is a generalized solution for management of multimedia assets. Generalized interfaces are used between a browser component, indexing server, archive server, tertiary storage manager, and method player components. The generalized interface defines a communication protocol that can be used by any browser, indexing server, archive server, tertiary storage manager, or method player component. Thus, system components supplied by multiple vendors can be interconnected to form a multimedia system that communicates using the generalized interfaces of the invention. A browser component can accept input such as search requests and display multimedia data. An indexing server component includes a data catalogue that catalogues multimedia data. The catalogue can be used to identify catalogue elements associated with data that can satisfy a search request. A search mechanism is used to identify the desired multimedia data. A search mechanism can create additional catalogues that are a subset of the catalogue provided on the indexing server. An archive server identifies a tertiary storage manager that manages the store containing the multimedia data. The tertiary storage manager retrieves the corresponding multimedia data from its store and sends it to a method play which plays it in a display region of the browser. The invention retains the content and results of a search such that it is only necessary to perform a search once. Search elements are used to store the content of a search, i.e., search criteria. A segment element is used to store the results of a search.

18 Claims, 24 Drawing Sheets



U.S. PATENT DOCUMENTS

5,283,638	2/1994	Enberg et al.	348/14
5,283,819	2/1994	Glick et al.	379/93
5,297,249	3/1994	Bernstein et al.	384/14
5,307,456	4/1994	MacKay	345/328
5,402,499	3/1995	Robison et al.	381/119
5,404,506	4/1995	Fujisawa et al.	707/4
5,428,730 *	6/1995	Baker	395/154
5,434,592	7/1995	Dinwiddie, Jr. et al.	345/133
5,436,898	7/1995	Bowen et al.	370/352
5,450,581	9/1995	Bergen et al.	707/9
5,530,852	6/1996	Meske, Jr. et al.	709/206
5,608,900	3/1997	Dockter et al.	707/102
5,630,121	5/1997	Braden-Harder et al.	707/102
5,649,185	7/1997	Antognini et al.	707/9

5,649,186	7/1997	Ferguson	707/10
5,754,784 *	5/1998	Garland	395/200.49
5,774,698 *	6/1998	Olnowich	395/500

OTHER PUBLICATIONS

IEEE publication, "Content based navigation in a open hypermedia environment" by P.H. Lewis et al., The Institute of Electrical Engineers, Department of Electronics and Computer Science, UK pp. 5/1-5/6, Jan. 1995.*

Musei Vaticani, Internet, (<http://www.virtual.co.il/orgs/archival/bookintr.htm>), pp 1-10, Dec. 8, 1994.

The Judaica Archival Project, Internet, (<http://www.virtual.co.il/orgs/archiva/bookintr.htm>), pp 1-11, Apr. 1996.

* cited by examiner

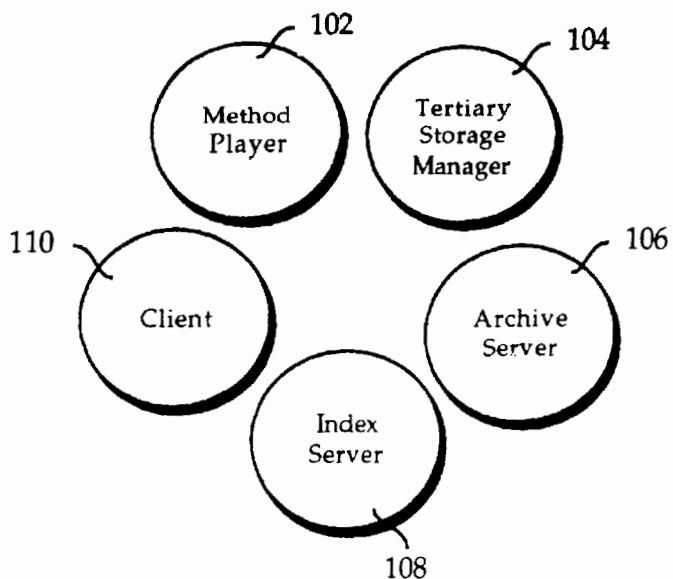


FIG. 1A

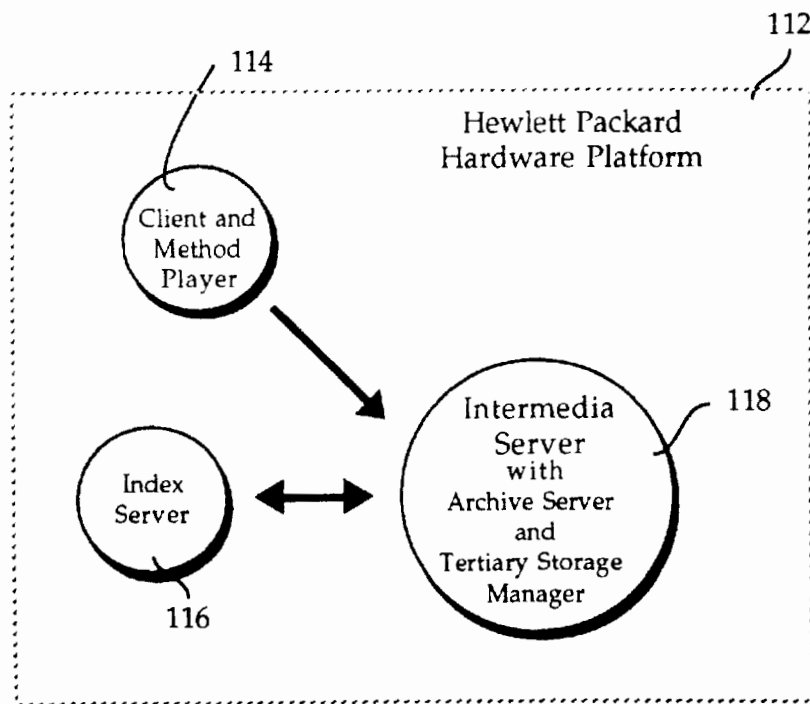


FIG. 1B

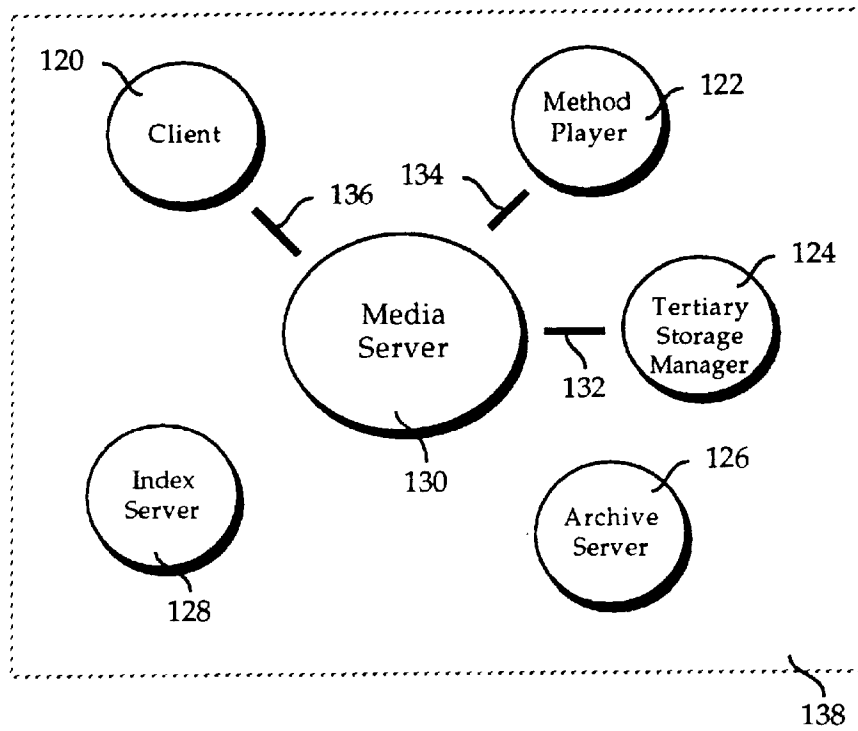


FIG. 1C

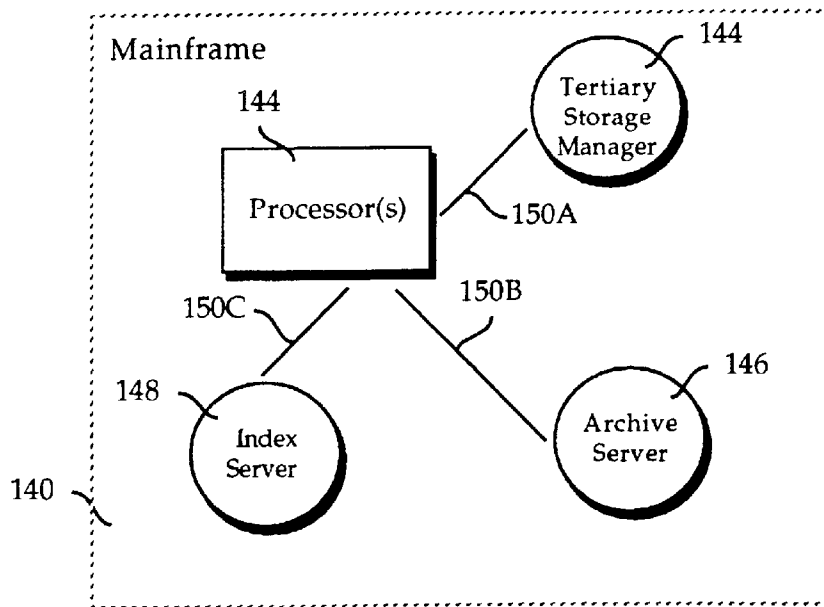


FIG. 1D

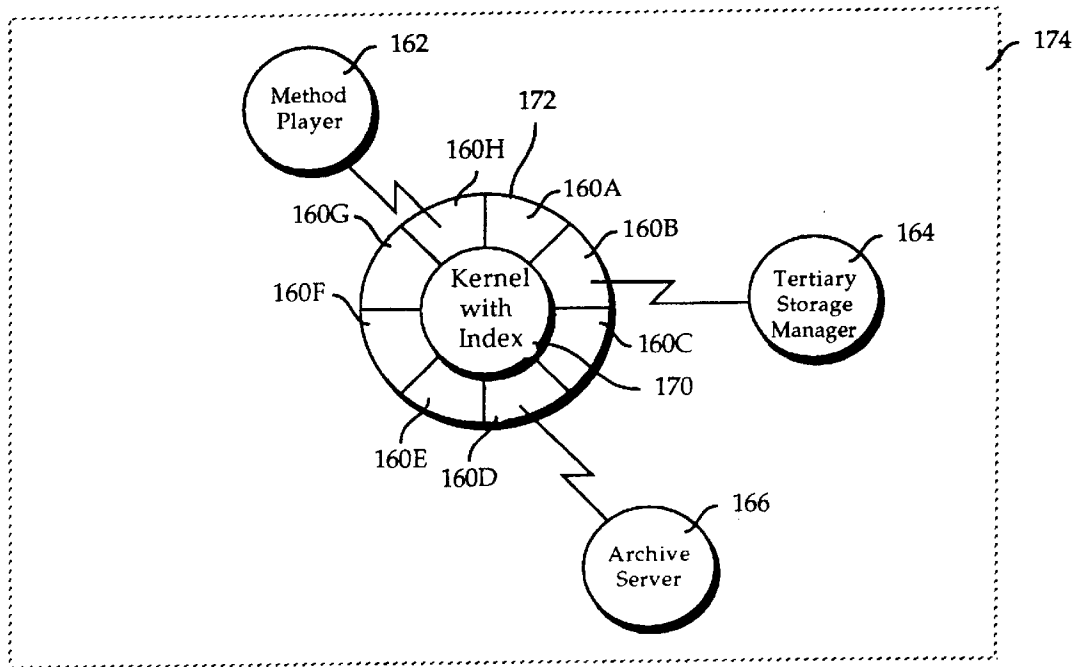


FIG. 1E

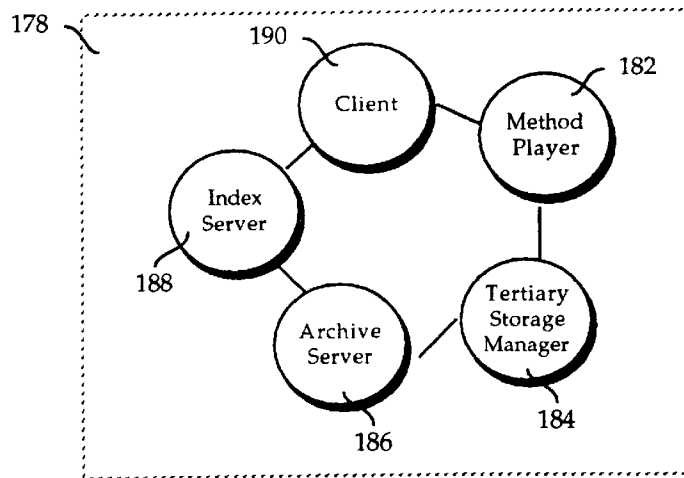


FIG. 1F

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.