



US006389473B1

(12) **United States Patent**
Carmel et al.

(10) **Patent No.:** **US 6,389,473 B1**
(45) **Date of Patent:** **May 14, 2002**

(54) **NETWORK MEDIA STREAMING**

5,404,446 A 4/1995 Bowater et al. 345/537
5,841,432 A 11/1998 Carmel et al. 707/500.1

(75) Inventors: **Sharon Carmel; Tzur Daboosh**, both of Giv'atayim; **Eli Reifman**, Rishon le Zion; **Naftali Shani; Ziv Eliraz**, both of Tel Aviv; **Dror Ginsberg**, Karkur; **Edan Ayal**, Kfar Saba, all of (IL)

Primary Examiner—Robert B. Harrell

(74) *Attorney, Agent, or Firm*—Ladas & Parry

(73) Assignee: **Geo Interactive Media Group Ltd.**, Givatayim (IL)

(57) **ABSTRACT**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

A method for real-time broadcasting from a transmitting computer to one or more client computers over a network, including providing at the transmitting computer a data stream having a given data rate, and dividing the stream into a sequence of slices, each slice having a predetermined data size associated therewith. The slices are encoded in a corresponding sequence of files, each file having a respective index, and the sequence is uploaded to a server at an upload rate generally equal to the data rate of the stream, such that the one or more client computers can download the sequence over the network from the server at a download rate generally equal to the data rate.

(21) Appl. No.: **09/275,703**

(22) Filed: **Mar. 24, 1999**

(30) **Foreign Application Priority Data**

Mar. 24, 1998 (IL) 123819

(51) **Int. Cl.**⁷ **G06F 13/00**

(52) **U.S. Cl.** **709/231**

(58) **Field of Search** 707/500.1; 709/200, 709/231, 236, 246, 247; 382/236, 239; 375/240.12

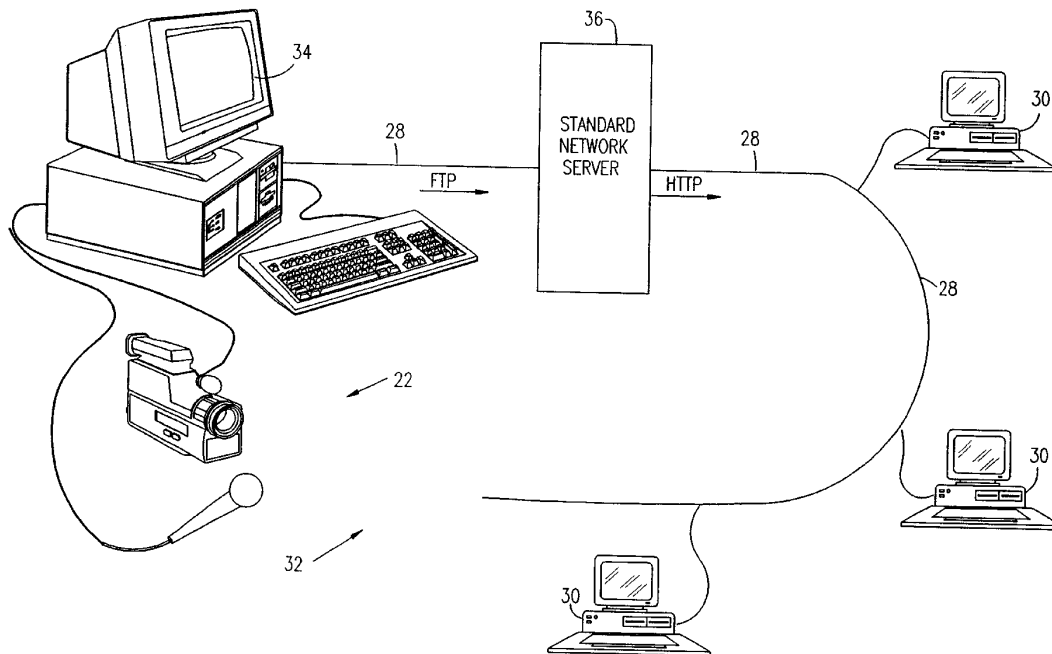
(56) **References Cited**

U.S. PATENT DOCUMENTS

5,267,334 A 11/1993 Normille et al. 382/236

41 Claims, 11 Drawing Sheets

Microfiche Appendix Included
(2 Microfiche, 138 Pages)



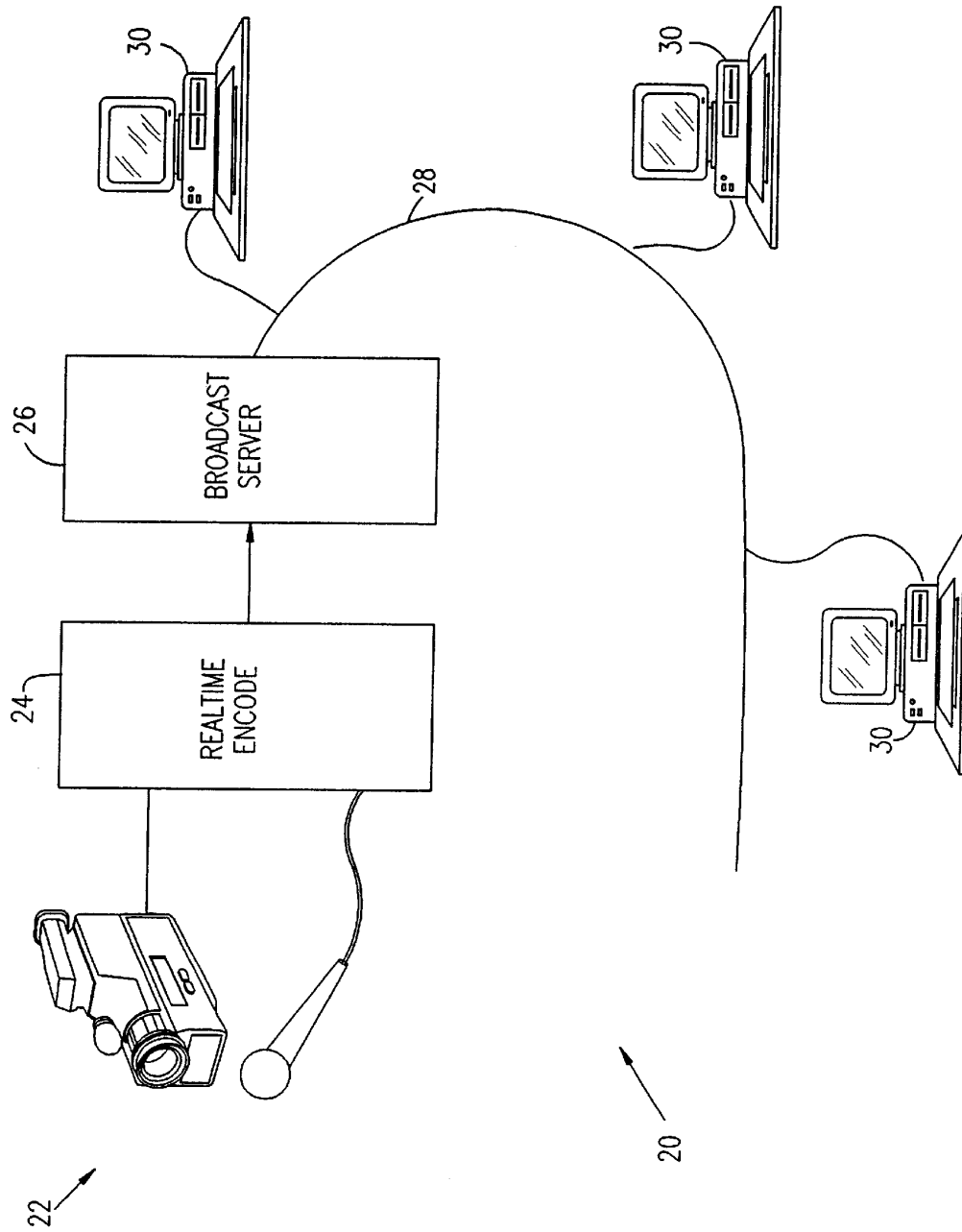


FIG. 1
PRIOR ART

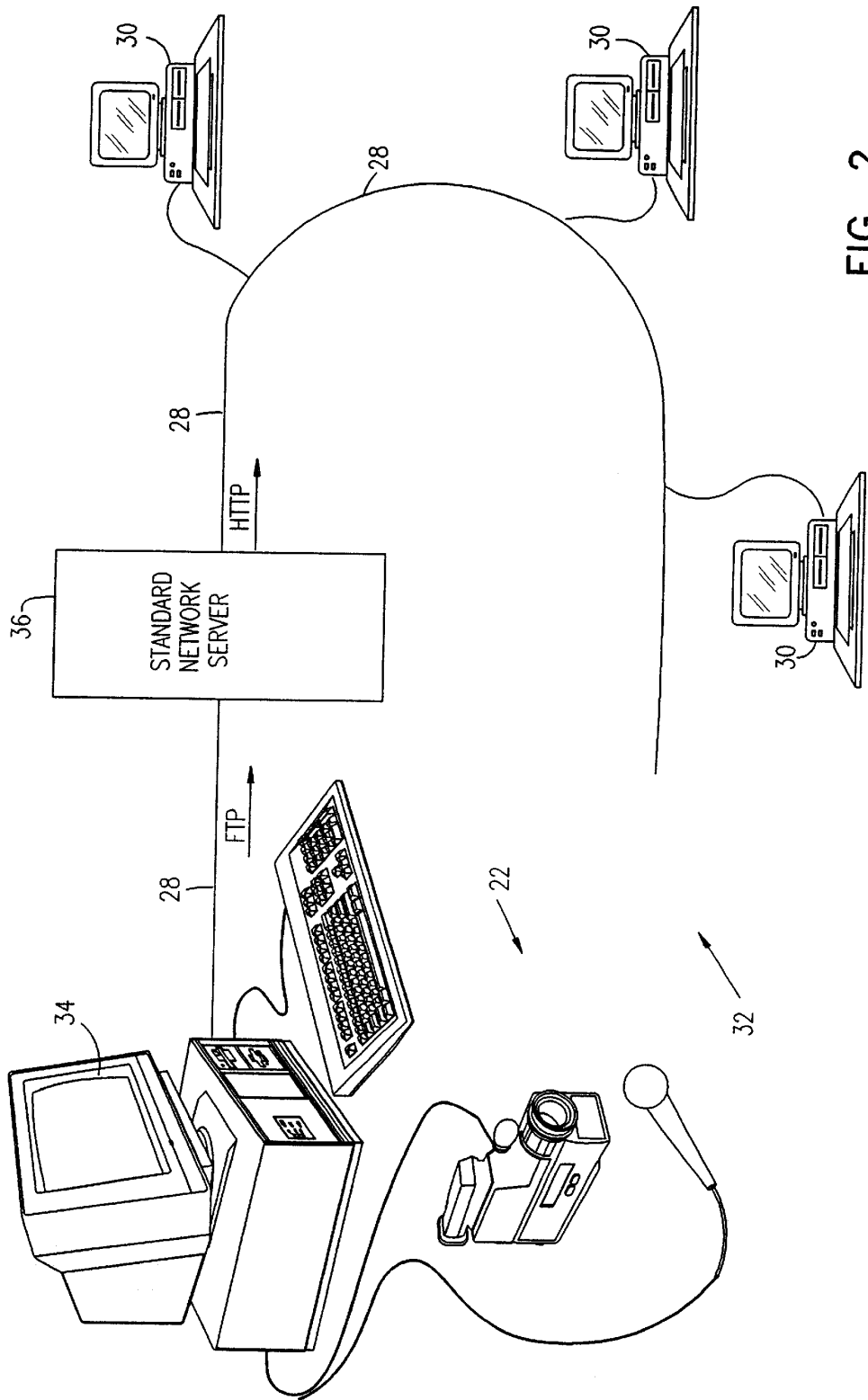
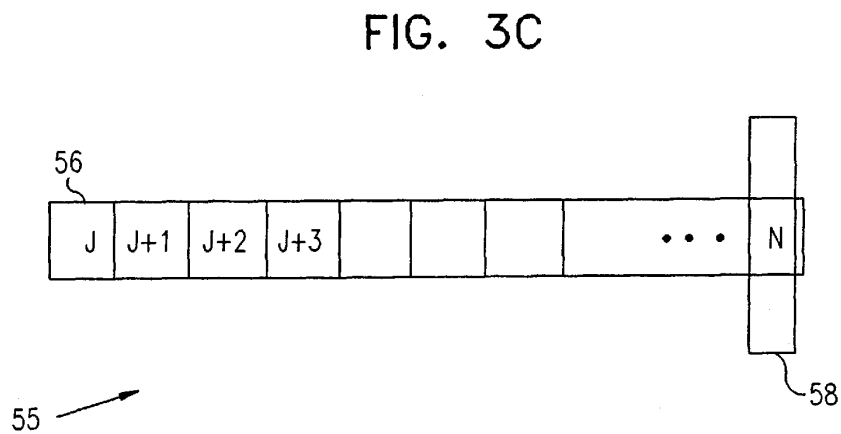
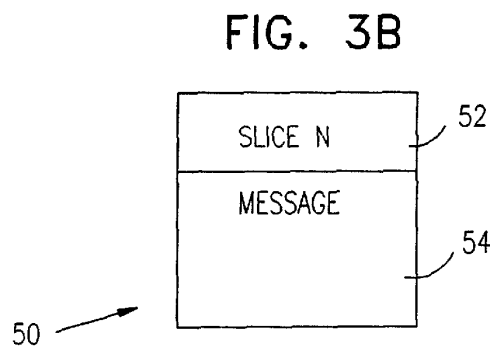
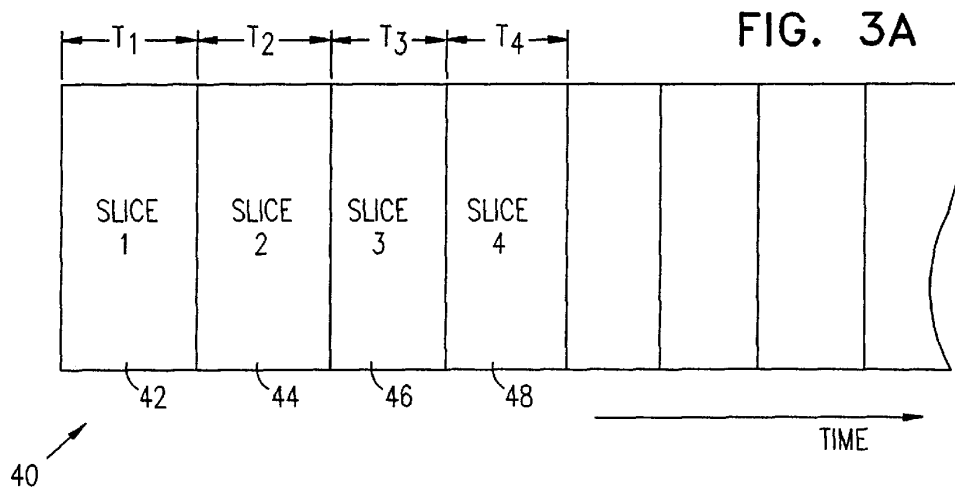


FIG. 2



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.