

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

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(45) **Date of Patent:** **May 14, 2002**

- (54) **NETWORK MEDIA STREAMING**
- (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)
- (73) Assignee: **Geo Interactive Media Group Ltd.**, Givatayim (IL)
- (\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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

(57) **ABSTRACT**

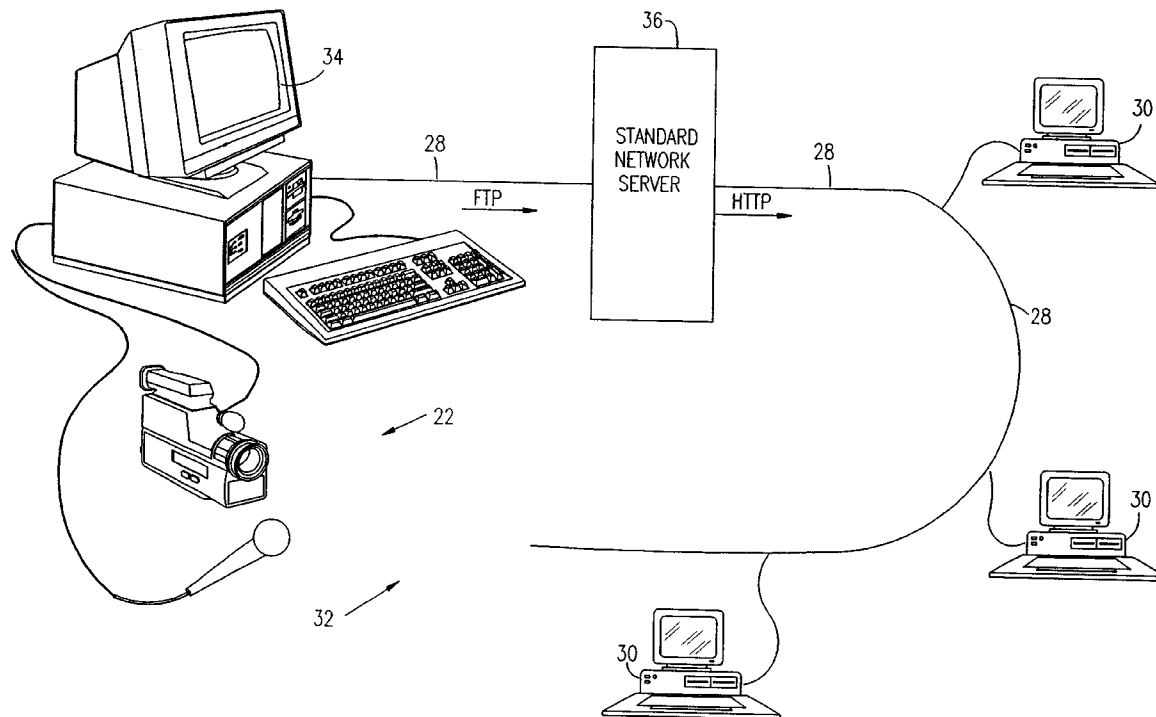
A method for real-time broadcasting from a transmitting computer to one or more client computers over a network, including providing at the transmitting computer a data stream having a given data rate, and dividing the stream into a sequence of slices, each slice having a predetermined data size associated 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.<sup>7</sup>** ..... **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**  
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**41 Claims, 11 Drawing Sheets**

Microfiche Appendix Included  
(2 Microfiche, 138 Pages)



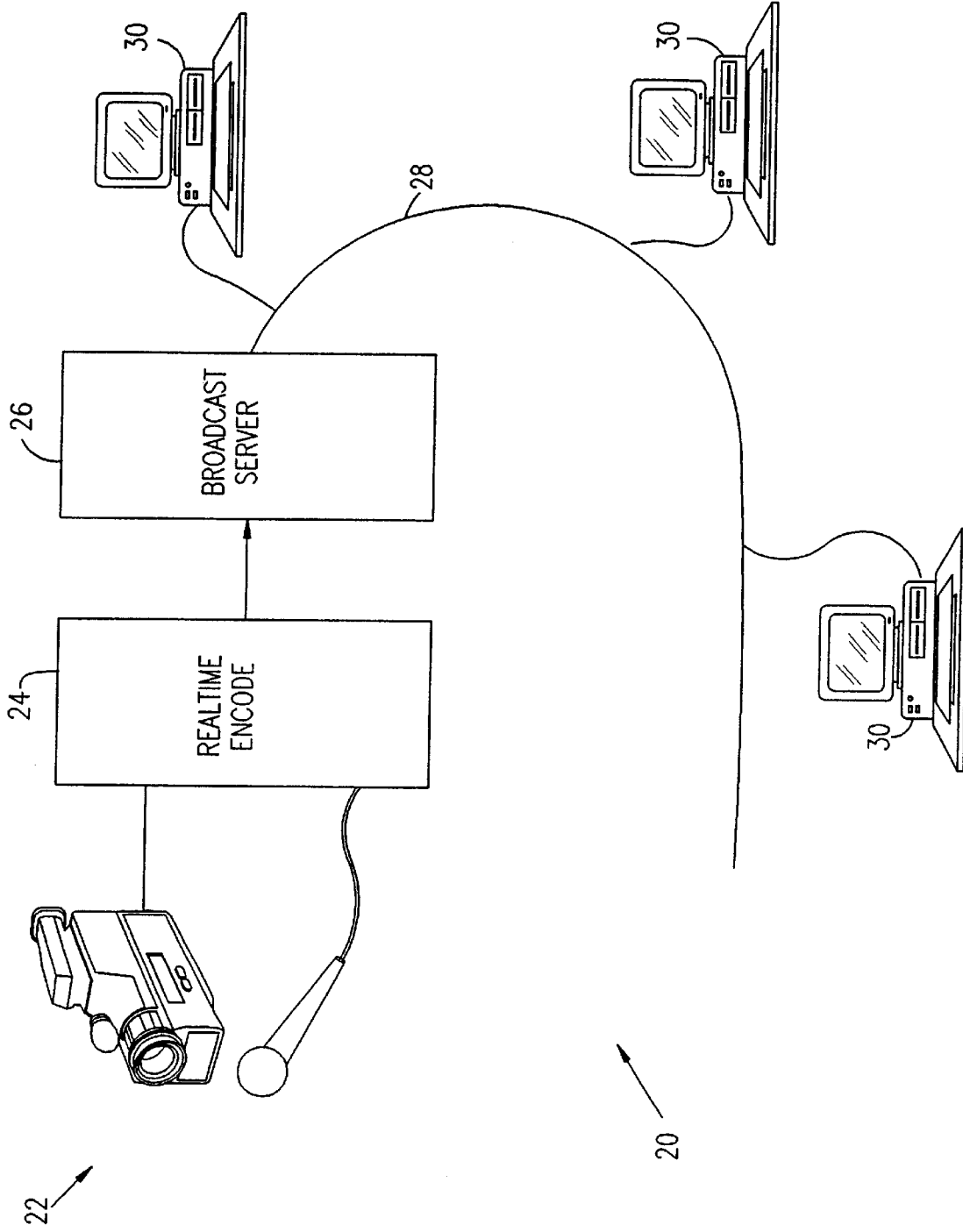


FIG. 1  
PRIOR ART

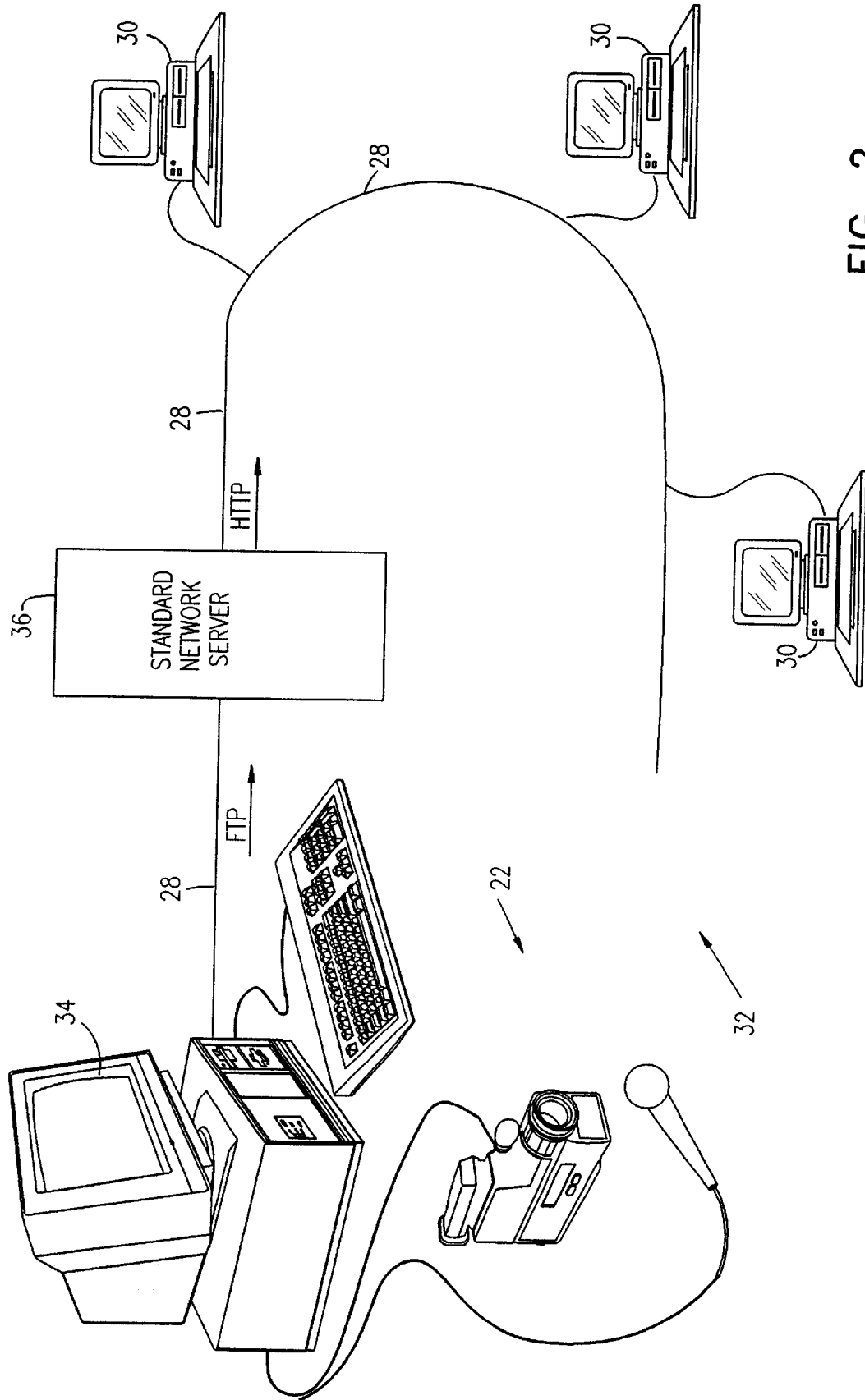


FIG. 2

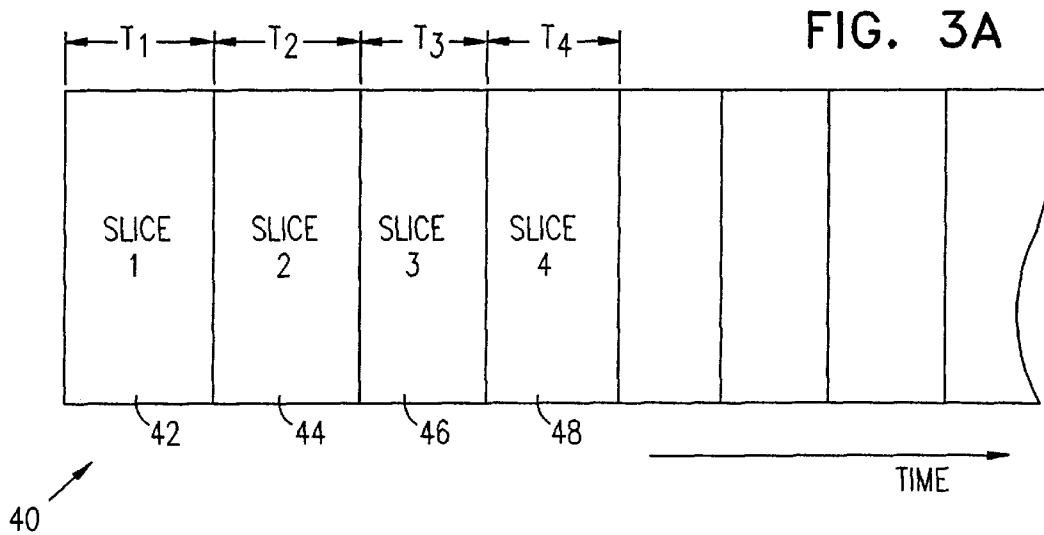


FIG. 3B

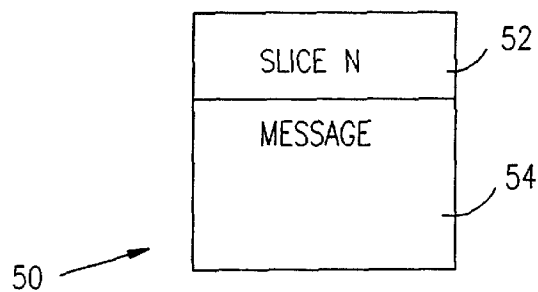
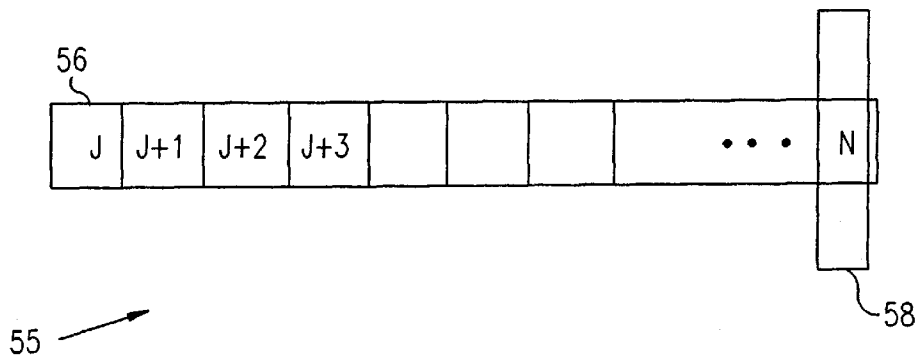


FIG. 3C





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