



US005461711A

United States Patent [19]

Wang et al.

[11] Patent Number: **5,461,711**

[45] Date of Patent: **Oct. 24, 1995**

[54] **METHOD AND SYSTEM FOR SPATIAL ACCESSING OF TIME-BASED INFORMATION**

[75] Inventors: **Weijia Wang**, Sunnyvale; **Sean M. White**, San Francisco, both of Calif.

[73] Assignee: **Interval Research Corporation**, Palo Alto, Calif.

[21] Appl. No.: **172,637**

[22] Filed: **Dec. 22, 1993**

[51] Int. Cl.⁶ **G06F 3/02**

[52] U.S. Cl. **395/161; 395/155; 395/154; 395/159; 345/156; 345/173**

[58] **Field of Search** 395/155, 154, 395/161, 152, 119, 160, 159; 345/173, 156, 179, 180

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,752,836 6/1988 Blanton et al. 395/152 X
4,943,866 7/1990 Barker et al. 395/155 X
4,964,004 10/1990 Barker 345/156 X

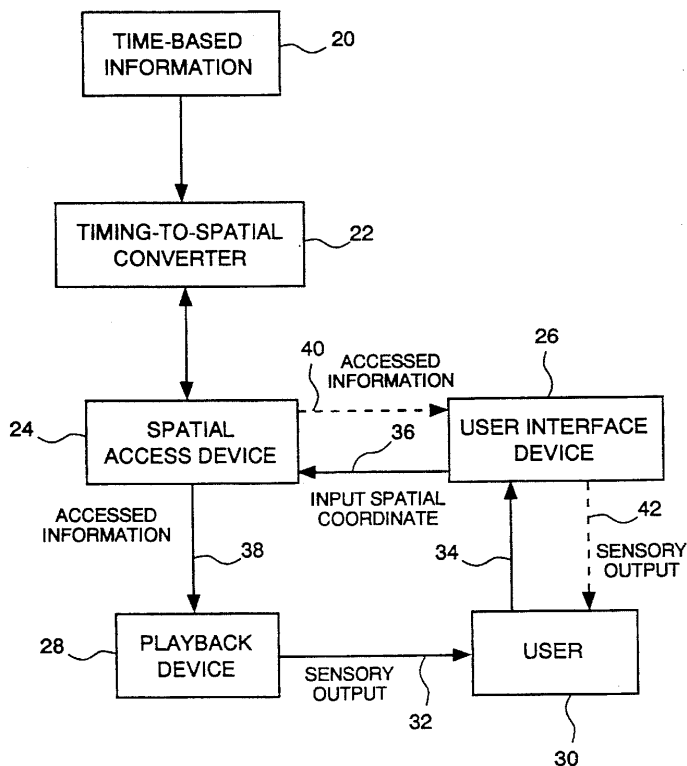
5,109,482 4/1992 Bohrman 395/154
5,191,645 3/1993 Carlucci et al. 395/159
5,202,961 4/1993 Mills et al. 395/159
5,388,197 2/1995 Rayner 395/154
5,404,444 4/1995 Billings 395/161

Primary Examiner—Raymond J. Bayerl
Attorney, Agent, or Firm—Brooks & Kushman

[57] **ABSTRACT**

A method and system for accessing time-based information based on spatial coordinate information obtained from a user. Time-based information is mapped into a spatial representation by mapping and transforming the timing of time-based information segments to spatial coordinates. Such spatial coordinates could be either one, two, or three dimensional. With this mapping, segments of time-based information can be associated with different parts of a spatial object, a spatial representation, or different position of a spatial movement. These segments can be accessed by the user by physical inputs in such a fashion that the kinesthetic or touching memory of the user can be relied upon to re-access information and to create a sense of the whole in the information.

44 Claims, 7 Drawing Sheets



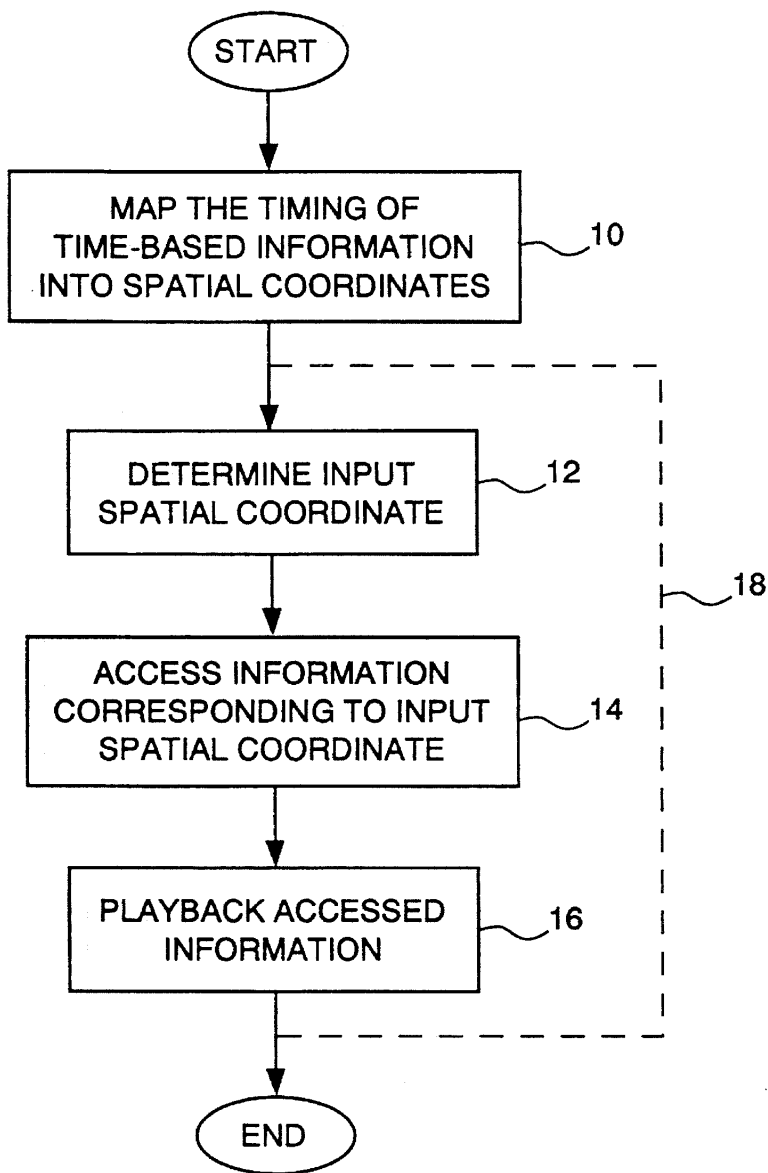


FIG. 1

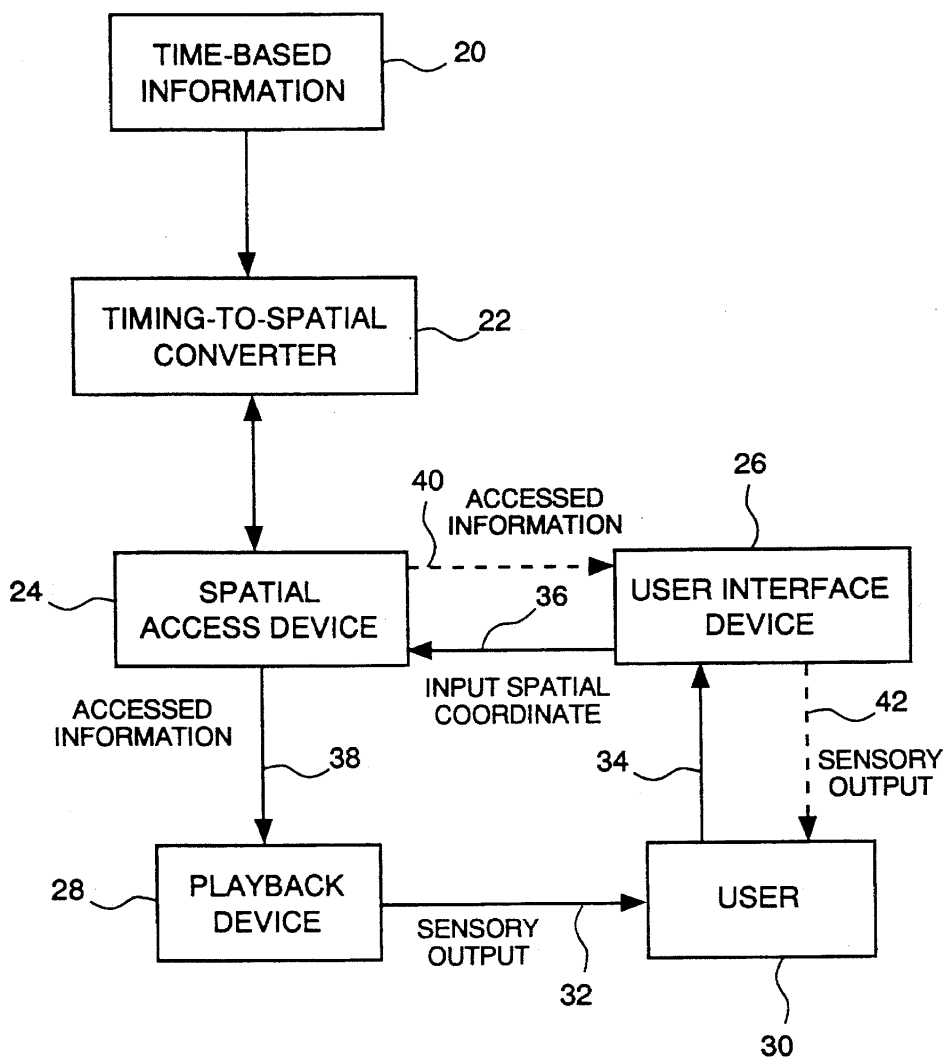
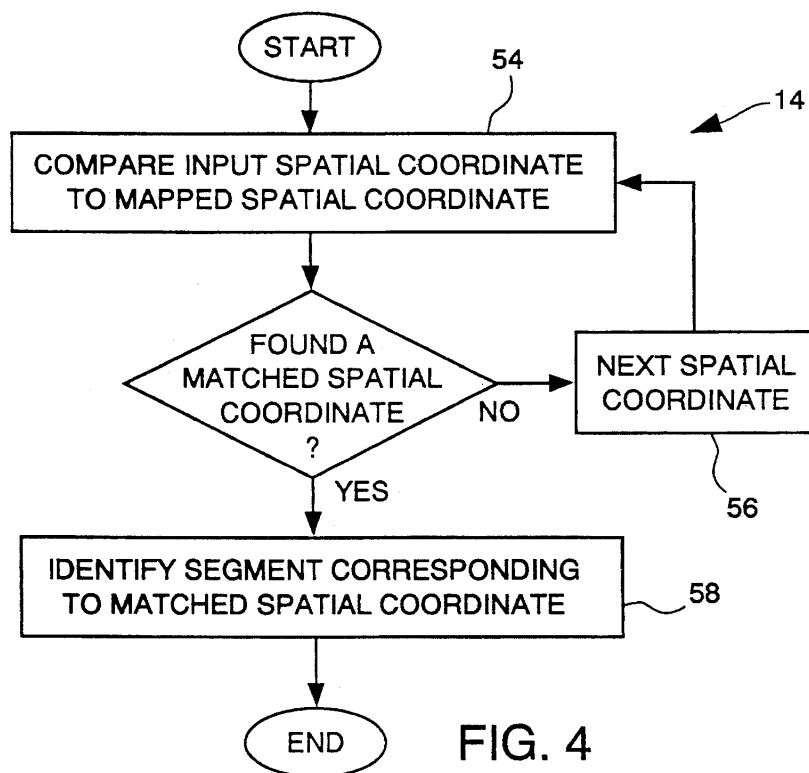
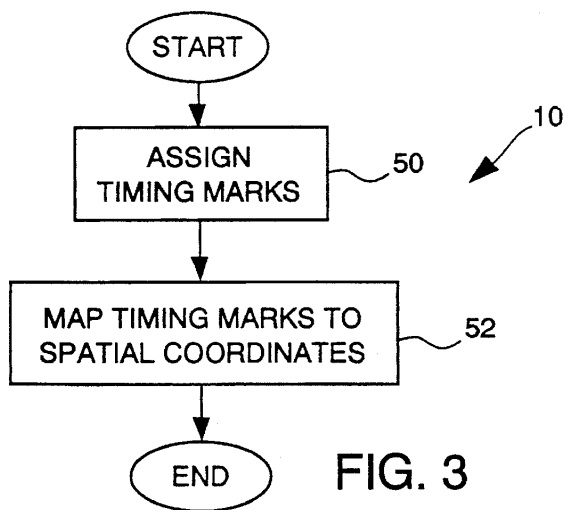


FIG. 2



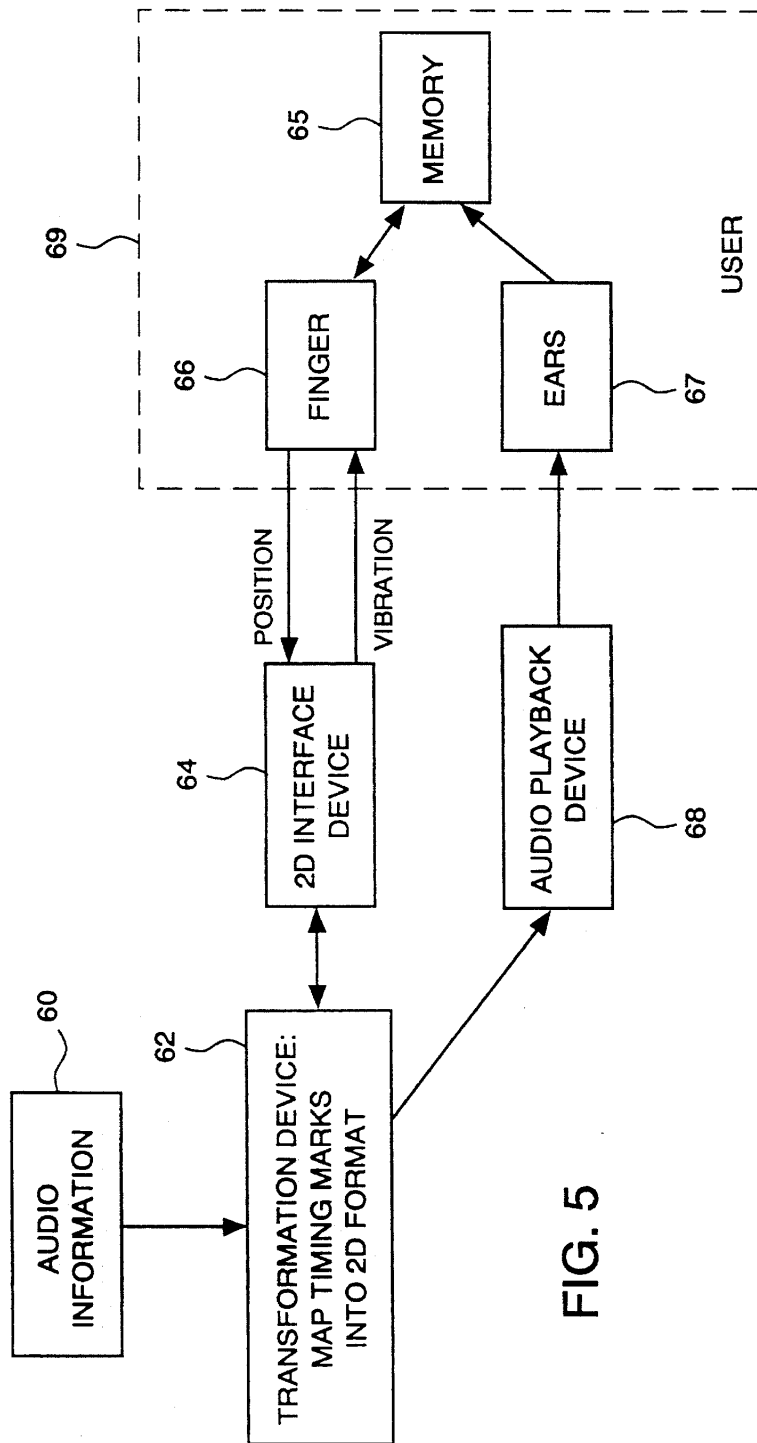


FIG. 5

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.