



US005404361A

United States Patent [19]

[11] Patent Number: **5,404,361**

Casorso et al.

[45] Date of Patent: **Apr. 4, 1995**

[54] **METHOD AND APPARATUS FOR ENSURING DATA INTEGRITY IN A DYNAMICALLY MAPPED DATA STORAGE SUBSYSTEM**

[75] Inventors: **Anthony J. Casorso**, Westminster;
David P. Haldeman, Broomfield,
both of Colo.

[73] Assignee: **Storage Technology Corporation**,
Louisville, Colo.

[21] Appl. No.: **919,897**

[22] Filed: **Jul. 27, 1992**

[51] Int. Cl.⁶ **H03M 13/00**

[52] U.S. Cl. **371/40.1; 395/575**

[58] Field of Search **371/40.1, 21.6, 10.1,
371/21.1, 9.1, 51.1, 2.2; 395/425, 400, 575**

[56] References Cited

U.S. PATENT DOCUMENTS

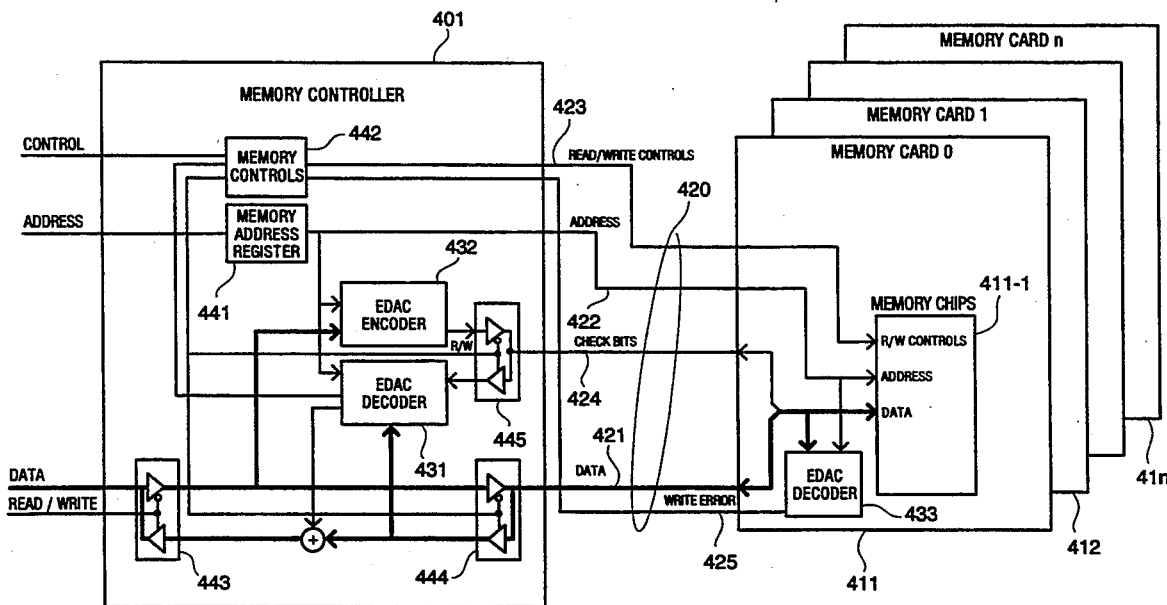
4,716,605 4/1990 Beardsley et al. 395/425
5,077,736 12/1991 Dunphy, Jr. et al. 371/10.1
5,210,866 3/1993 Milligan et al. 395/575

Primary Examiner—Charles E. Atkinson
Assistant Examiner—Phung Chung
Attorney, Agent, or Firm—Duft, Graziano & Forest

[57] ABSTRACT

The dynamically mapped data storage subsystem generates a two error correction, three error detection code of extent sufficient to cover not only the data but also the corresponding memory address for each data record stored therein. The error correction code is transmitted and stored with the data within the data storage subsystem to ensure the integrity of both the data and its memory address.

10 Claims, 6 Drawing Sheets



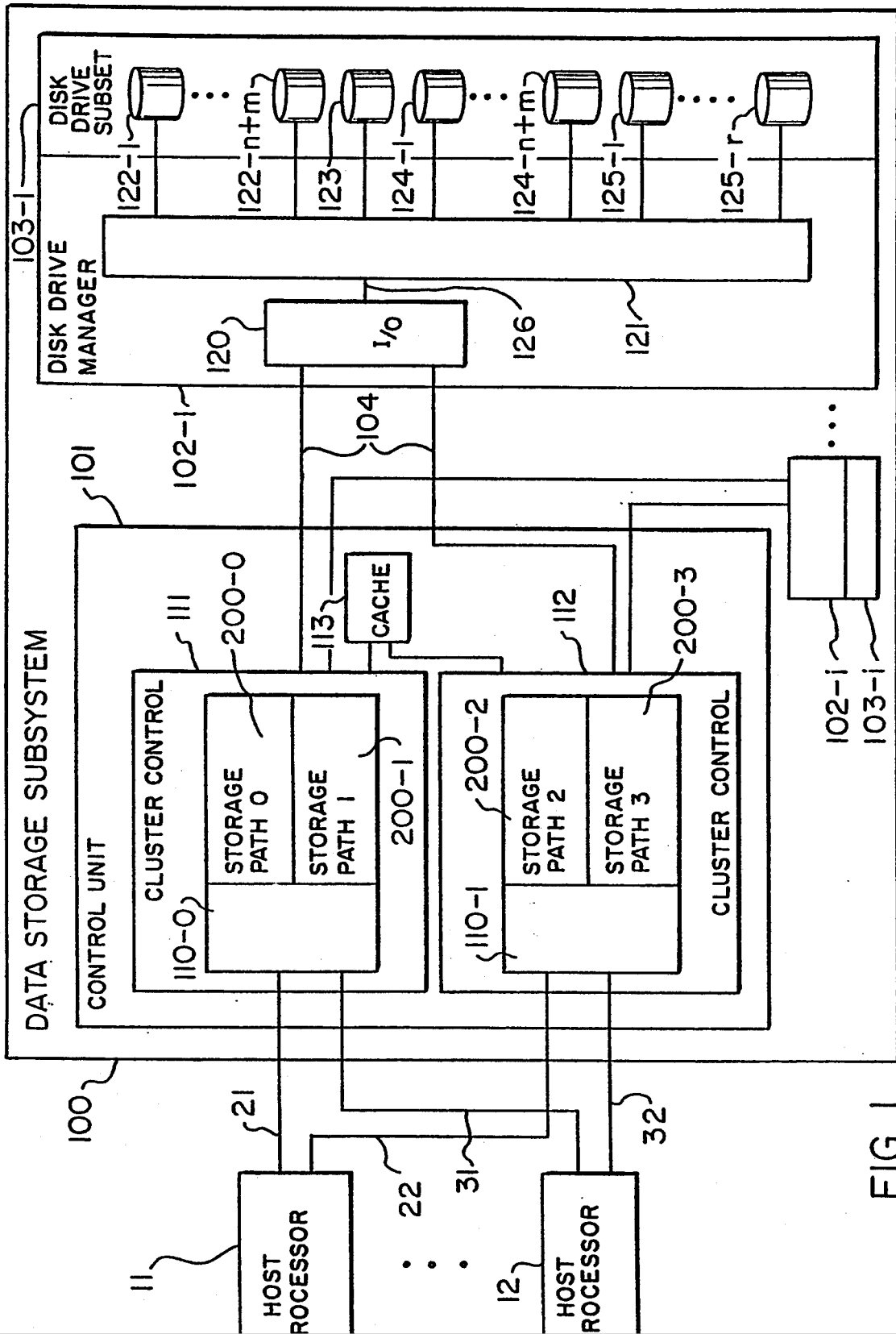


FIG. 1.

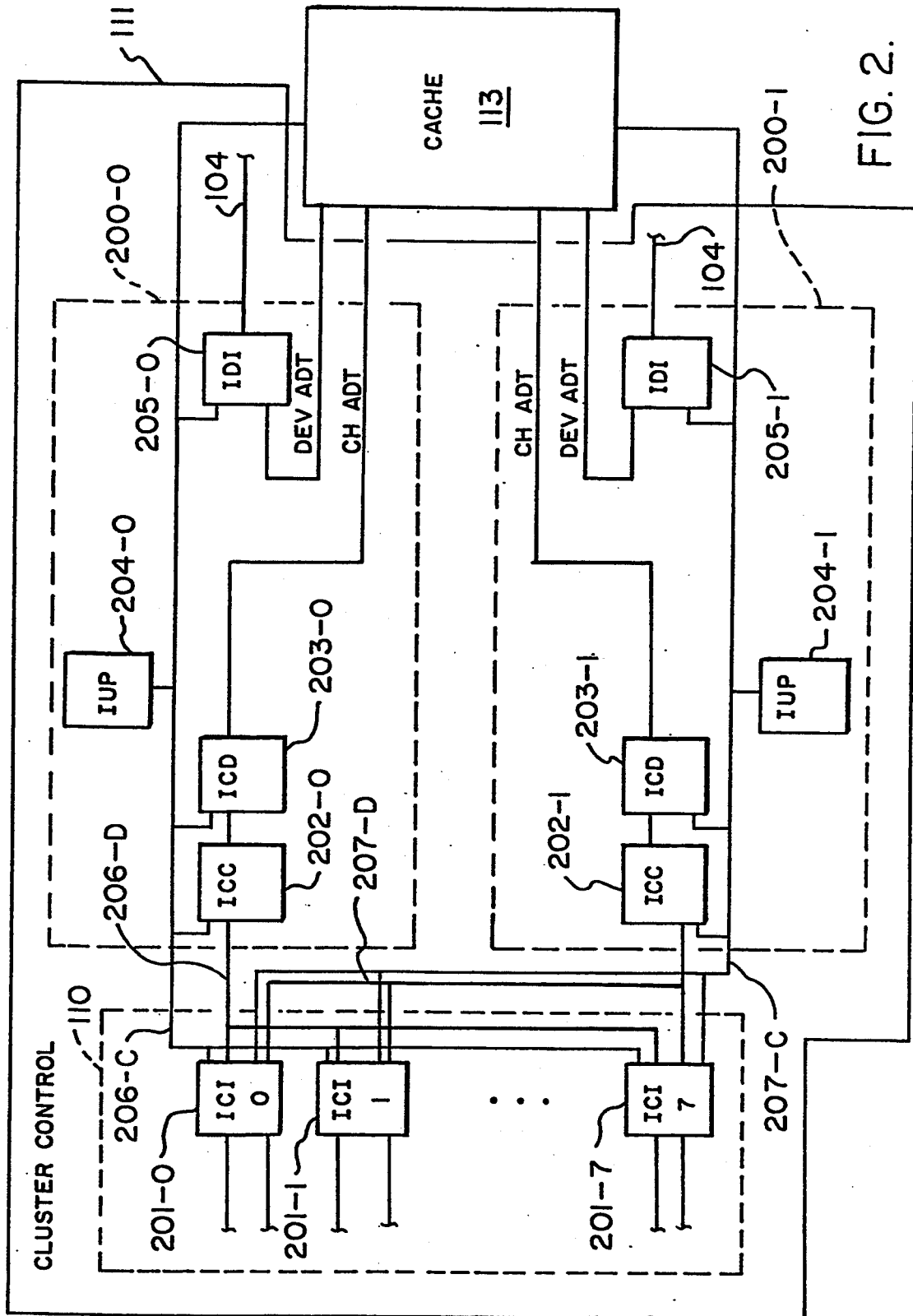


FIG. 2.

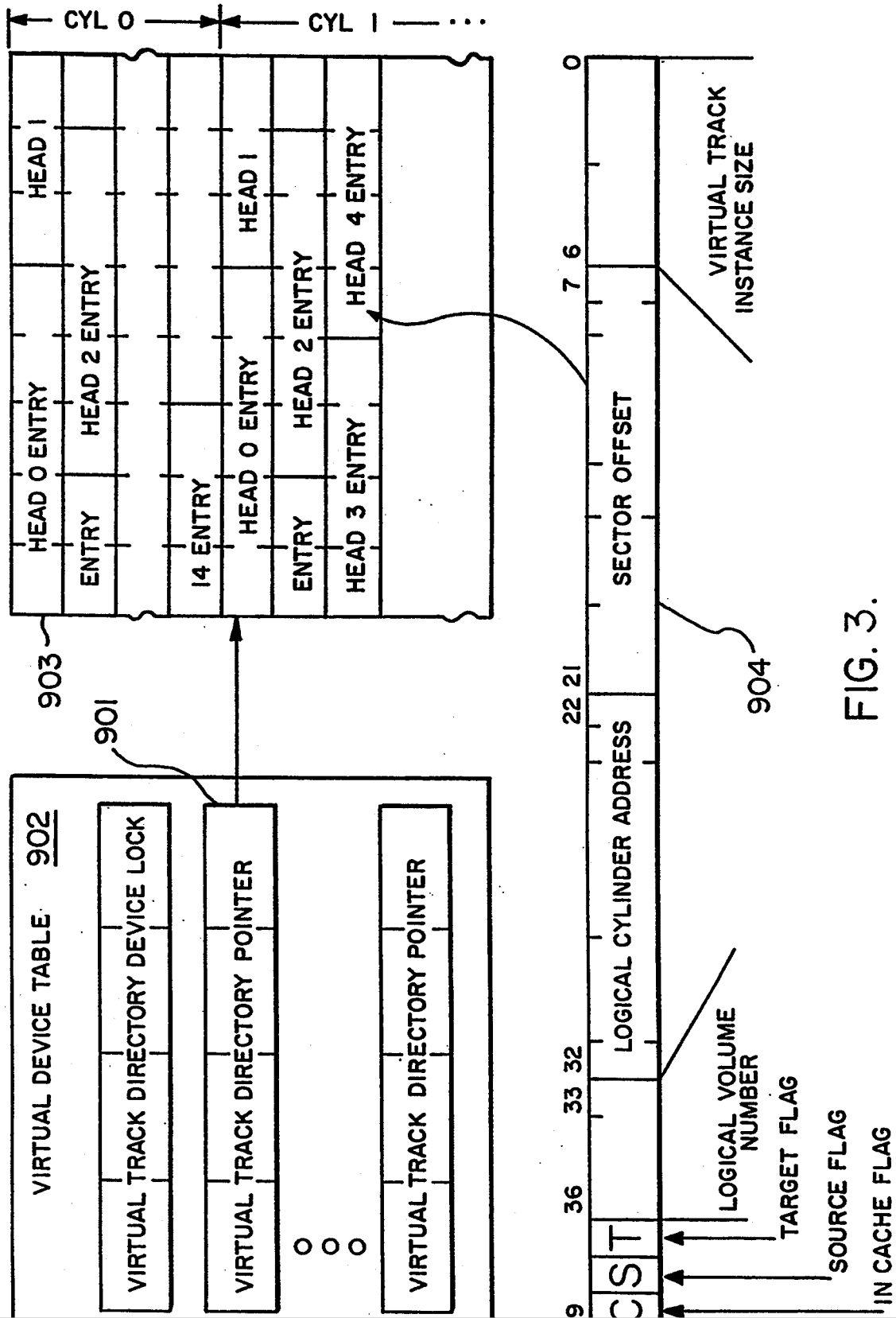


FIG. 3.

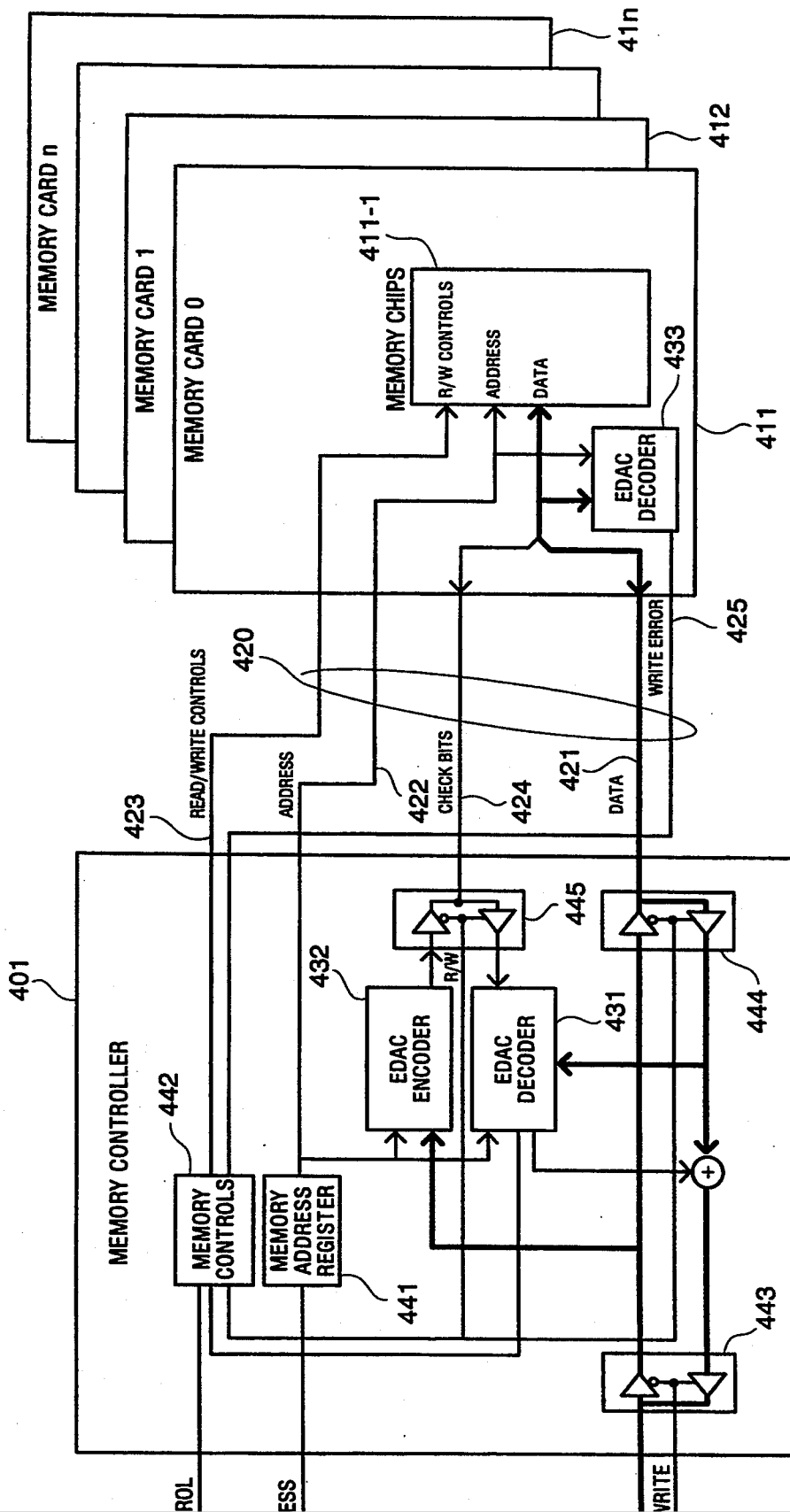


FIG. 4

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.