



- [54] REAL TIME PARSER FOR DATA PACKETS IN A COMMUNICATIONS NETWORK
- [75] Inventors: Santosh K. Hasani, Nashua, N.H.; Satish L. Rege, Groton; Mark F. Kempf, Stow, both of Mass.
- [73] Assignee: Digital Equipment Corporation, Maynard, Mass.
- [21] Appl. No.: 838,678
- [22] Filed: Apr. 9, 1997

4,905,138	2/1990	Bourne	395/650
4,941,089	7/1990	Fischer	364/200
4,979,167	12/1990	McCool	370/85.4
4,991,133	2/1991	David et al.	364/900
5,056,058	10/1991	Hirata et al.	364/900
5,058,110	10/1991	Beach et al.	370/85
5,067,104	11/1991	Krishnakumar et al.	395/375
5,228,083	7/1993	Lozowick et al.	380/9
5,235,644	8/1993	Gupta et al.	380/40
5,249,292	9/1993	Chiappa	395/650
5,361,353	11/1994	Carr et al.	395/700

Related U.S. Application Data

- [63] Continuation of Ser. No. 365,993, Dec. 29, 1994, abandoned, which is a continuation of Ser. No. 814,997, Dec. 27, 1991, abandoned.
- [51] Int. Cl.⁶ G06F 13/00
- [52] U.S. Cl. 395/200.2; 370/392
- [58] Field of Search 395/800, 200.15, 395/200.2, 840, 841, 851, 853, 182.13; 370/252, 351, 353, 389, 392, 401, 402; 380/3, 4, 9, 28, 37, 42, 49, 50

References Cited

U.S. PATENT DOCUMENTS

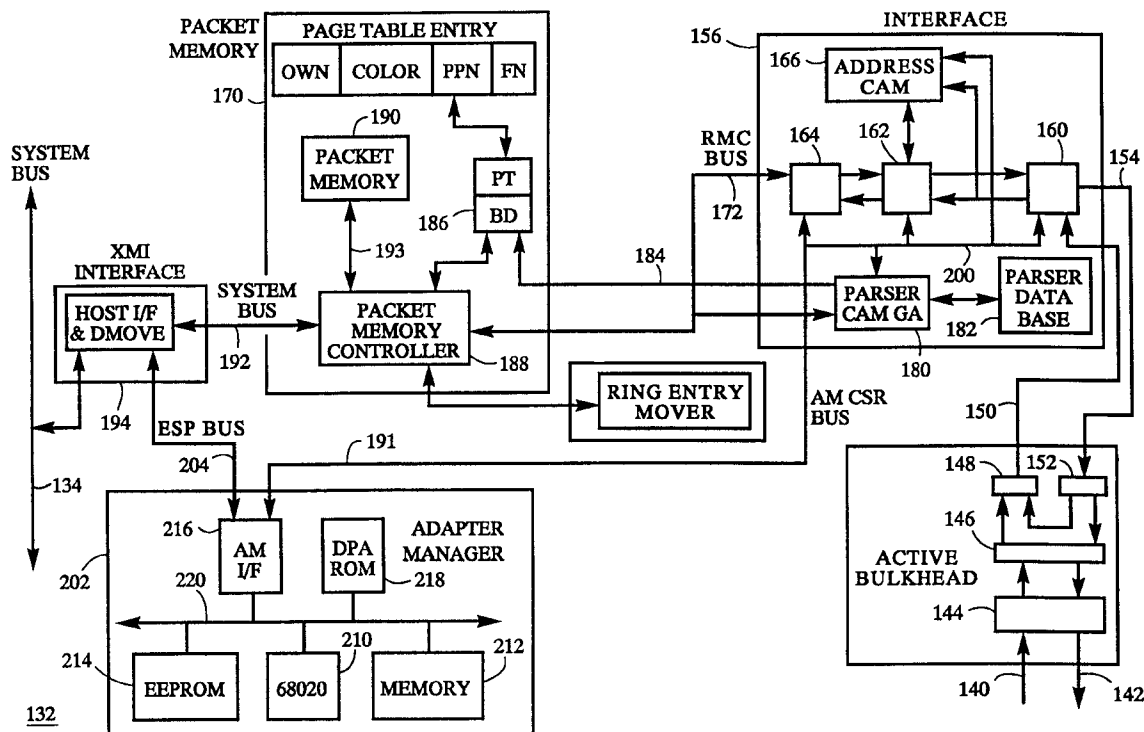
- 4,839,891 6/1989 Kobayashi et al. 370/94

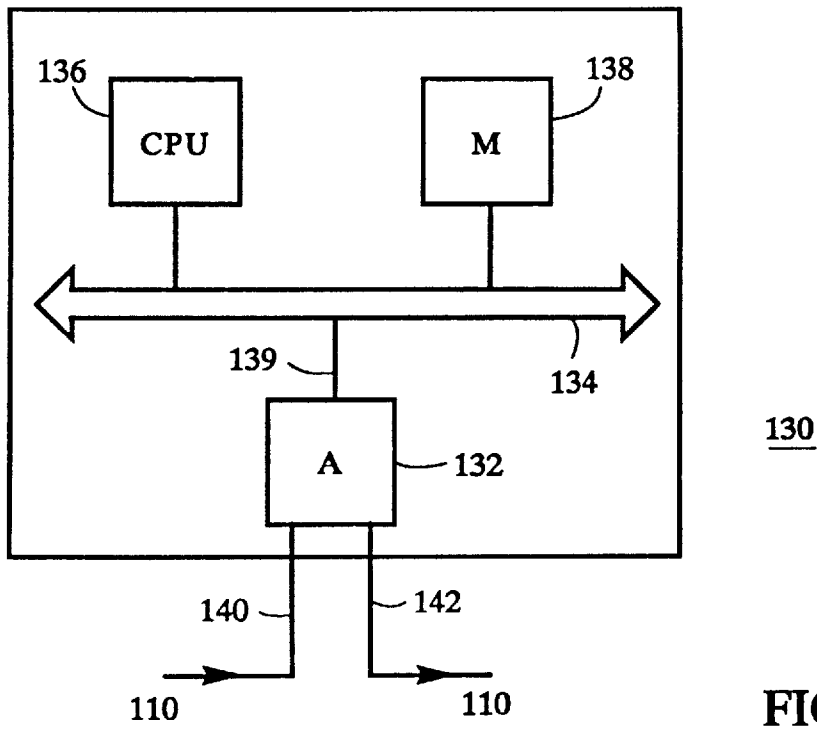
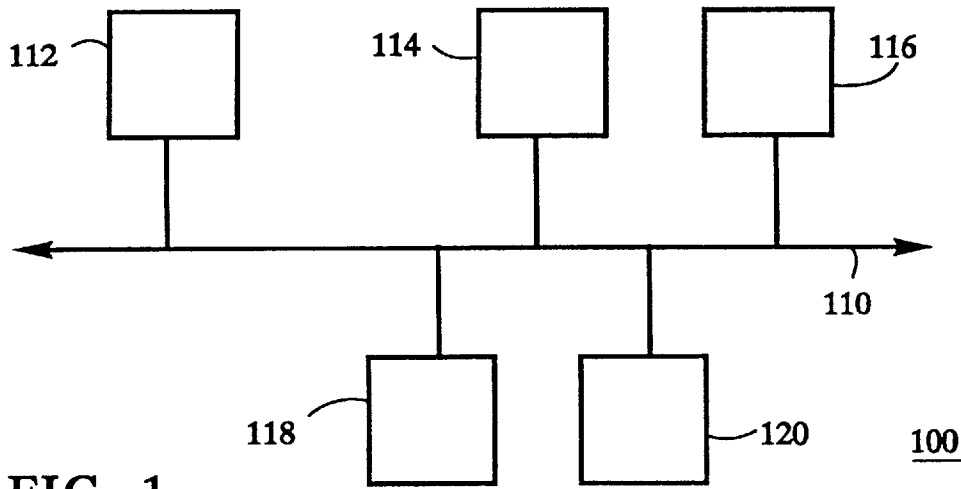
Primary Examiner—Alpesh M. Shah
Attorney, Agent, or Firm—Christine M. Kuta; A. Sidney Johnston

[57] ABSTRACT

A parser for reading bits of a packet has a set of logic circuits implemented in a computer chip; a memory interacting with the computer chip, the memory providing first data to the set of logic circuits; means for reading bits from any field of packet into the set of logic circuits, the bits providing second data to the set of logic circuits; means, responsive to the first data and the second data, for the logic circuits to interpret bits of the packet.

13 Claims, 21 Drawing Sheets





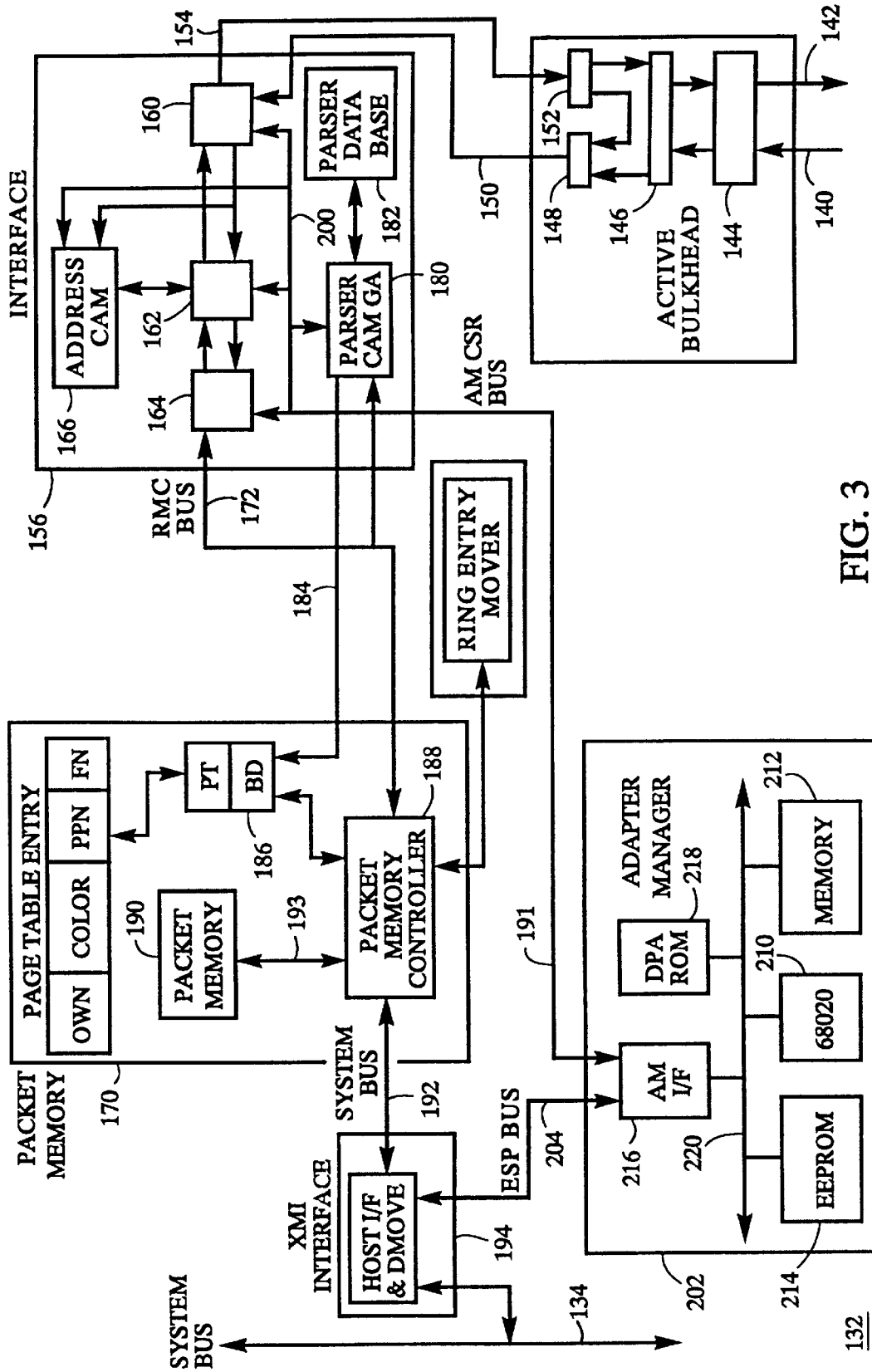
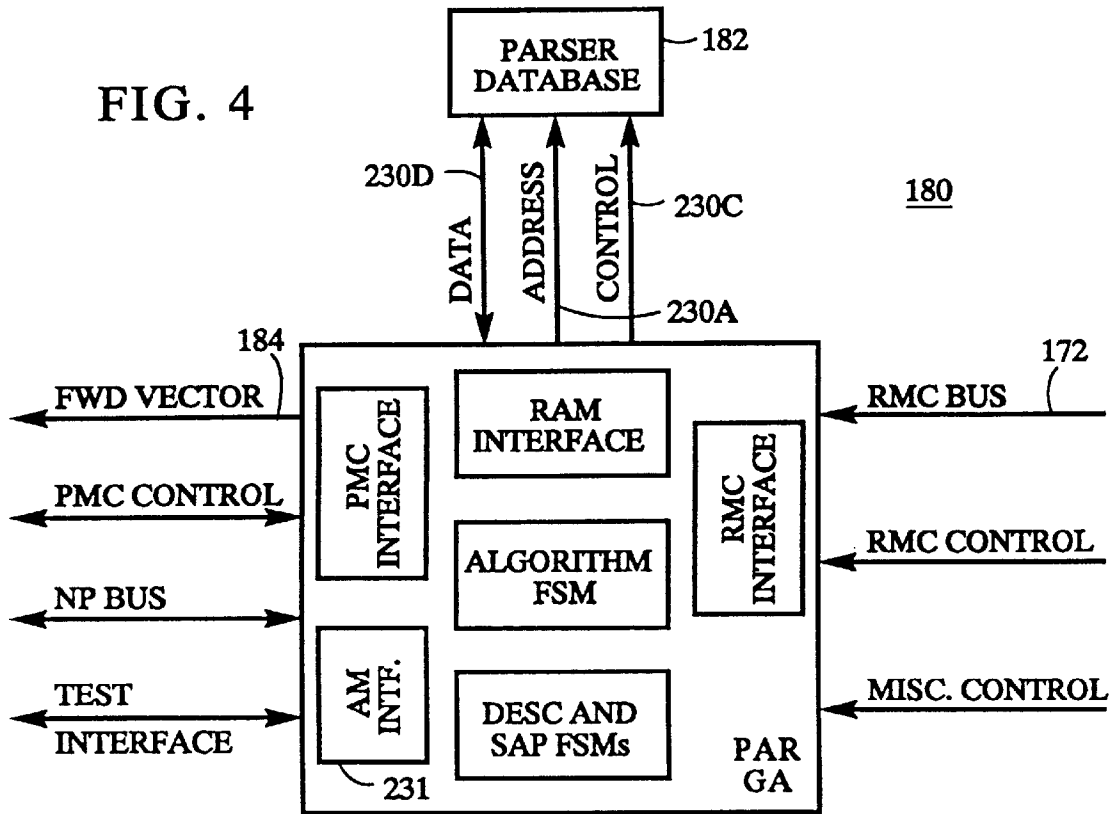


FIG. 3

132

FIG. 4



15	14	13	12	11	10	9	8	7	6	5	4	0
PAR	COL	DIS	HOST	TYPE	UNK	MD	SOP	EOP	UINDEX			

FIG. 6

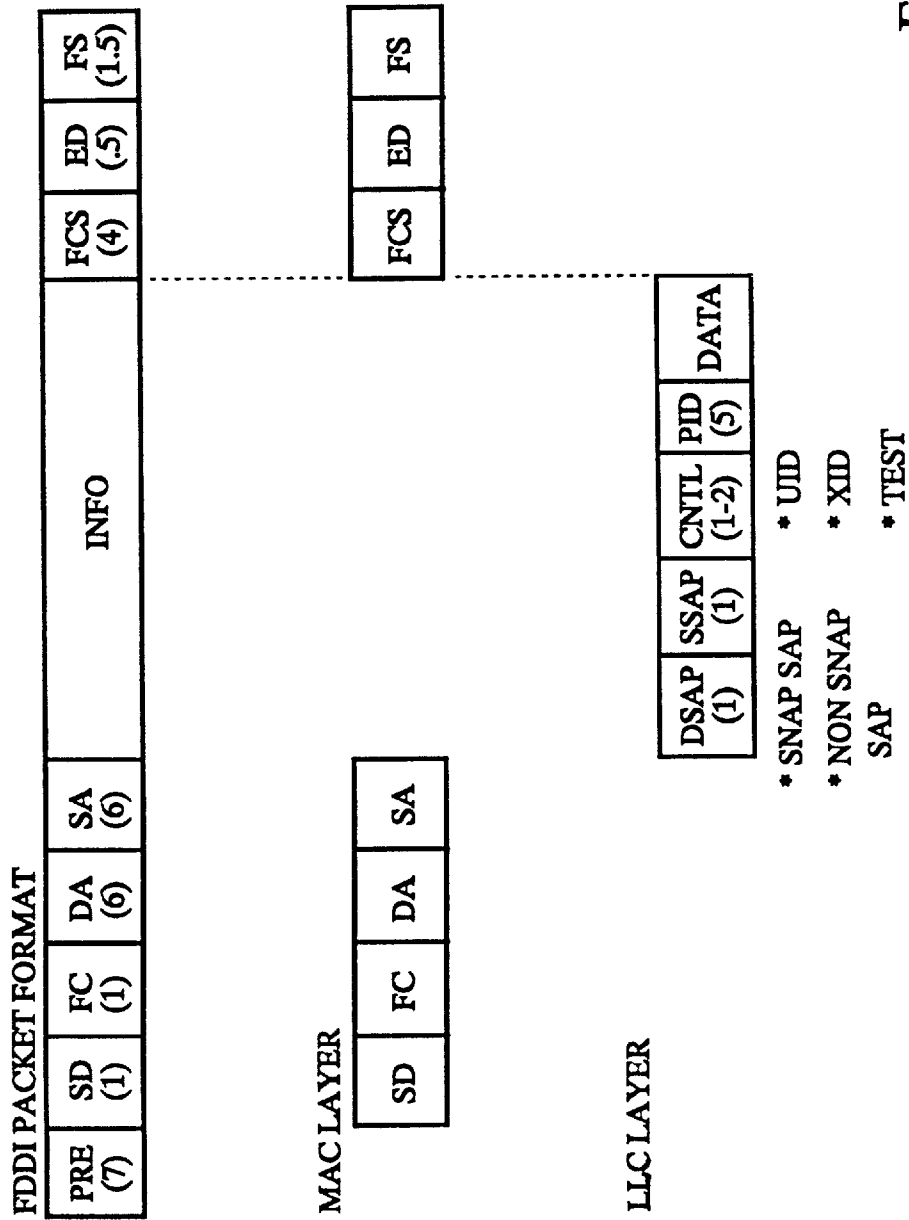


FIG. 5A

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.