

[54] ELECTRONIC SYSTEM FOR ACCESSING GRAPHICAL AND TEXTUAL INFORMATION

[75] Inventors: Seraphin B. Calo, Peekskill; Krishnamurthi Kannan, Yorktown Heights; Suk S. Soo, Mount Kisco; Thomas G. Burket, Pleasantville; John W. Wiley, Jr., Yorktown Heights, all of N.Y.

[73] Assignee: International Business Machines Corporation, Armonk, N.Y.

[21] Appl. No.: 817,389

[22] Filed: Jan. 9, 1986

[51] Int. Cl.<sup>4</sup> ..... G06F 13/00  
 [52] U.S. Cl. .... 364/900  
 [58] Field of Search ... 364/200 MS File, 900 MS File; 358/85, 86, 142; 370/89, 86, 90, 60, 58, 54, 85, 103, 104; 340/717, 721, 711, 703, 797; 379/94, 221, 40, 50, 200, 100, 94, 96

[56] References Cited

U.S. PATENT DOCUMENTS

4,337,483	6/1982	Guillou .....	358/114
4,337,485	6/1982	Chambers .....	358/147
4,379,947	4/1983	Warner .....	179/1
4,479,196	10/1984	Ferrer et al. ....	364/900
4,533,948	8/1985	McNamara et al. ....	358/86
4,555,781	11/1985	Baldry et al. ....	370/60
4,649,533	3/1987	Chorley et al. ....	370/58
4,691,340	9/1987	Maeda et al. ....	379/96

OTHER PUBLICATIONS

Kumamoto et al. "Captain System." Japan Telecommunication Review (Jul. 1980), pp. 215-222.

Marti et al. "The Antiope Videotex System." IEEE Transaction on Computer Electronics, vol. CE-25, No. 3 (Jul. 1979), pp. 327-333.

Robinson et al. "Touch-Tone Teletext a Combined Teletext-Viewdata System." IEEE Transactions on Computer Electronics, vol. CE-25, No. 3 (Jul. 1979), pp. 298-303.

J. P. Gray, "Network Services in Systems Network Architecture," IEEE Transactions on Communications, vol. COM-25, No. 1, pp. 104-116, Jan. 1977.

Primary Examiner—David Y. Eng

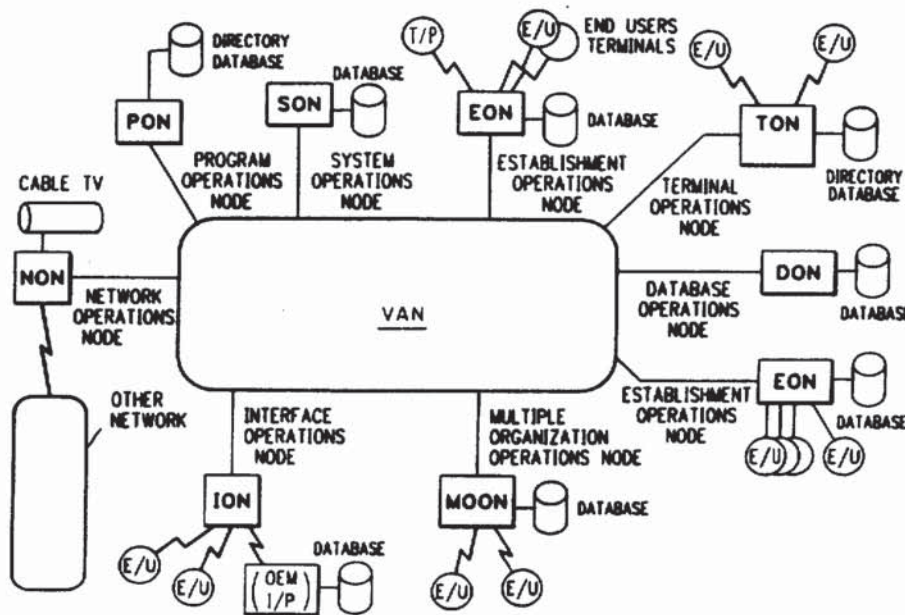
Assistant Examiner—Robert B. Harrell

Attorney, Agent, or Firm—Thomas P. Dowd; Marc D. Schechter

[57] ABSTRACT

An architecture for the implementation of an information utility for accessing information and executing transactions on an interactive basis between Videotex databases and individual end user terminals, some or all of which may be remotely located with respect to each other. The utility may be associated with a Videotex Application Network (VAN) and includes a combination of distributed, semiautonomous Operations Nodes (ONs), each characterized by (1) one or more affiliated users, (2) the inclusion of some form of database, and (3) one or more customized application programs, and each is also capable of "standalone" operation. Each database comprises pages of control information and displayable data. Each node comprises a directory of databases at other nodes.

50 Claims, 12 Drawing Sheets



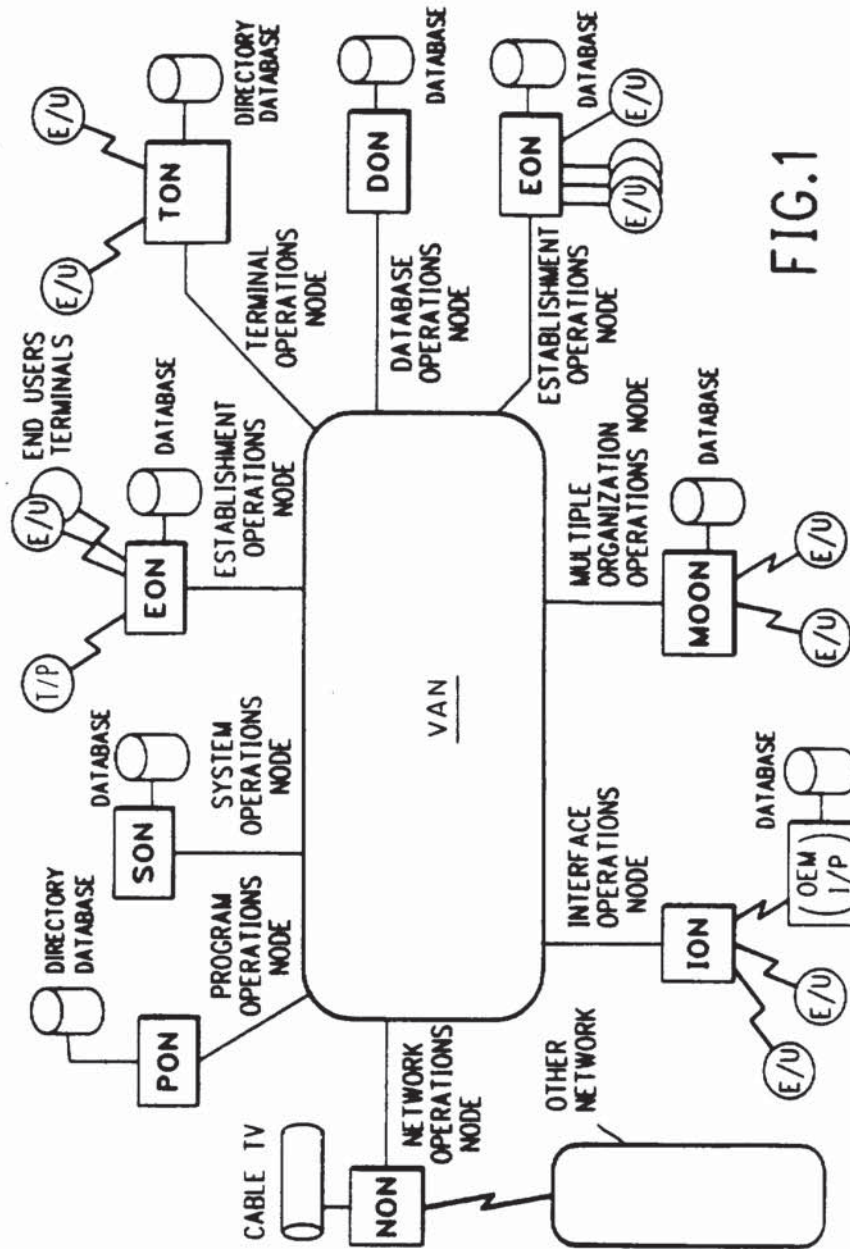
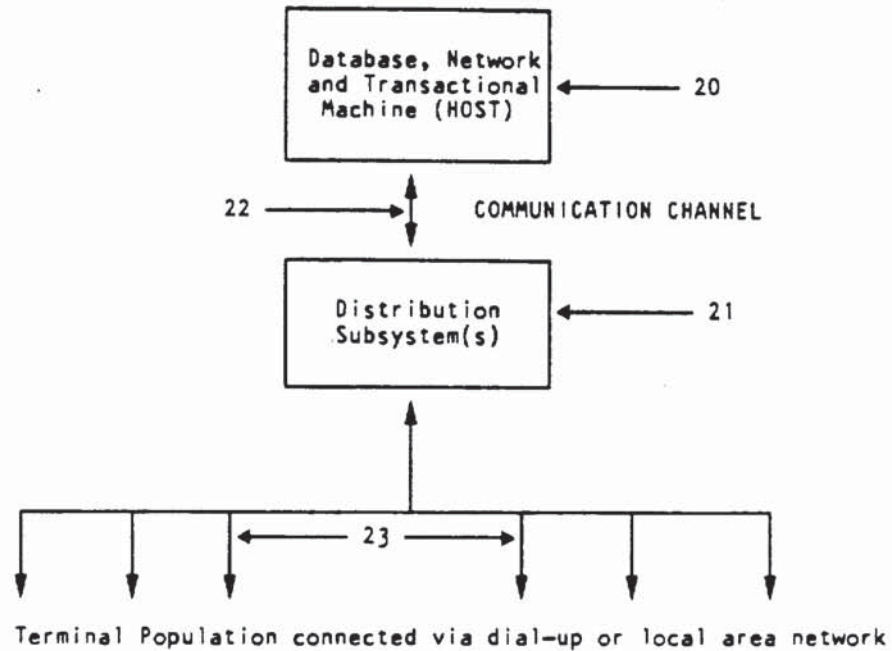


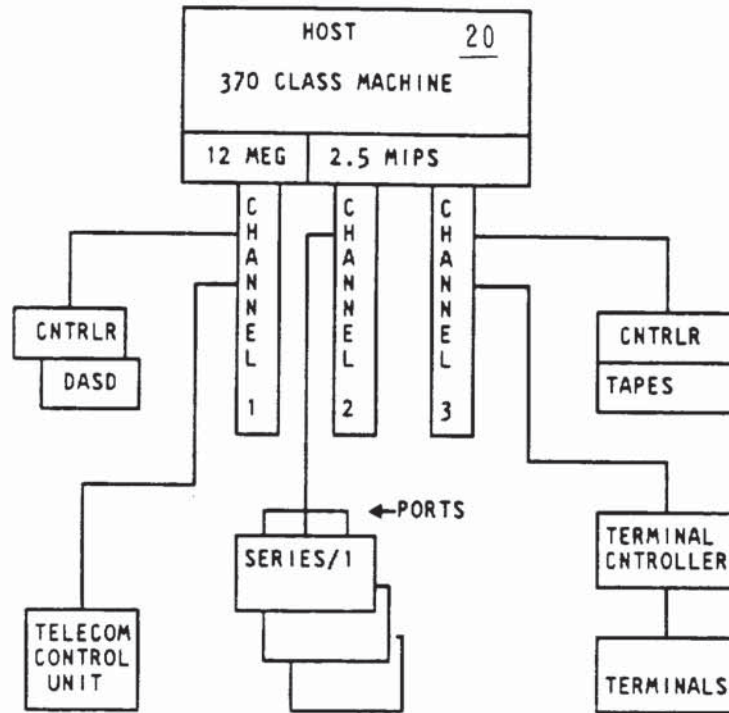
FIG. 1



Overall Architecture of a Videotex Operations Node.

FIG. 2

FIG. 3



Example Hardware Configuration for an ON Host

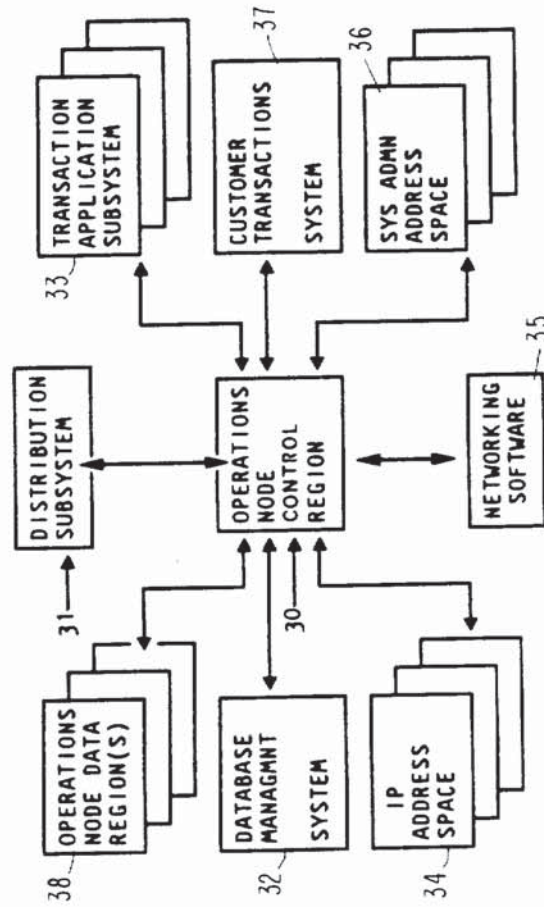


FIG. 4 Relationship of ON-specific software to other example components



# 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.