

[54] ELECTRONIC SYSTEM FOR ACCESSING GRAPHICAL AND TEXTUAL INFORMATION

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[21] Appl. No.: 817,389

[22] Filed: Jan. 9, 1986

[51] Int. Cl.⁴ 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

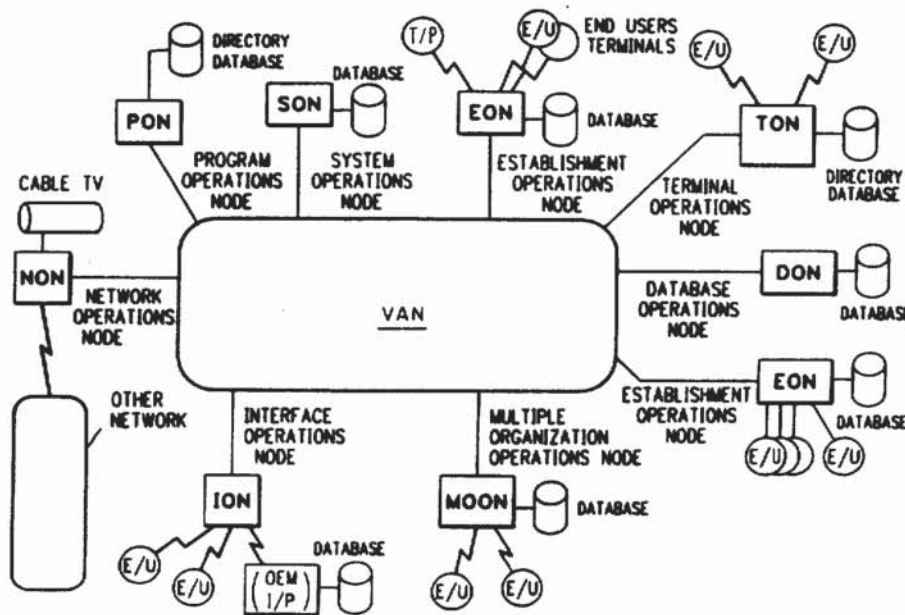
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[57] ABSTRACT

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



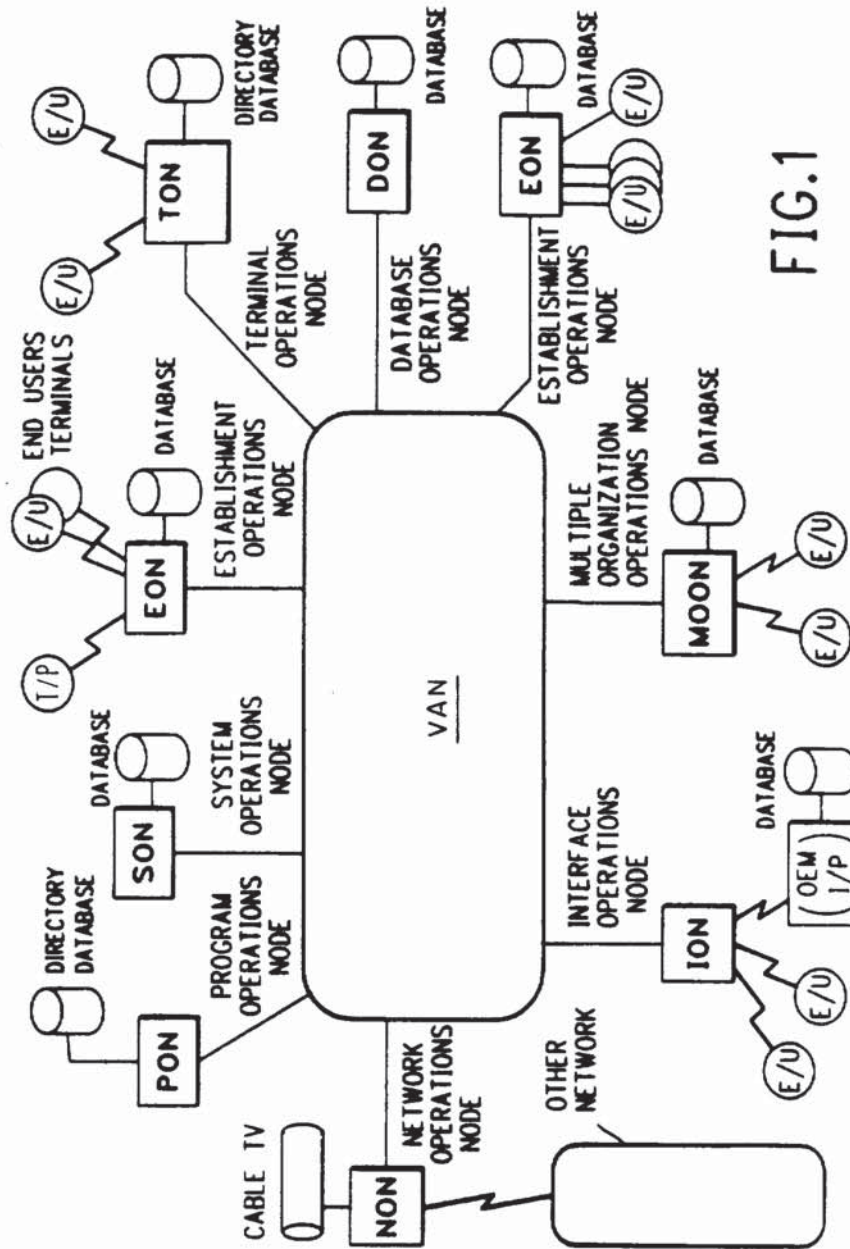
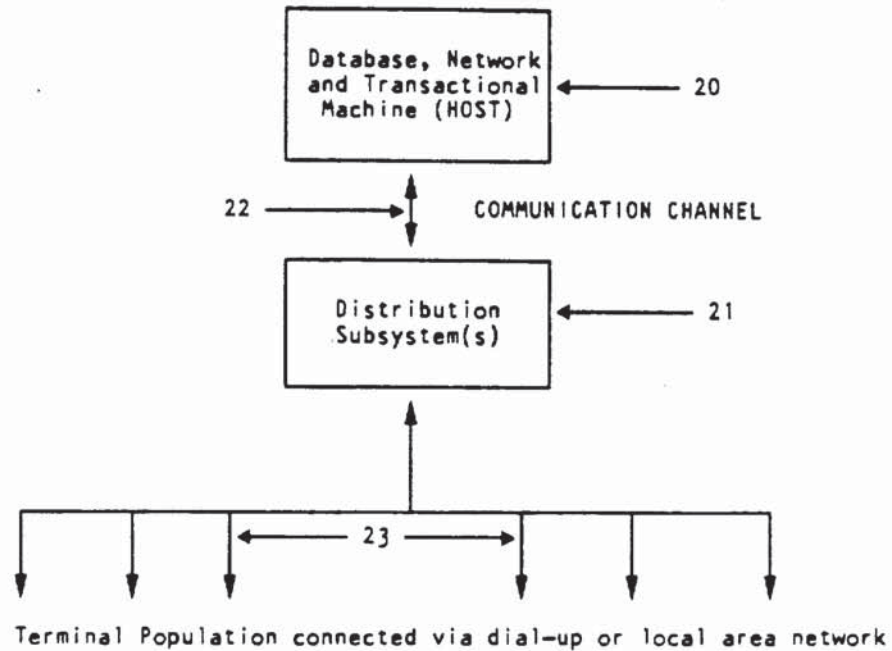


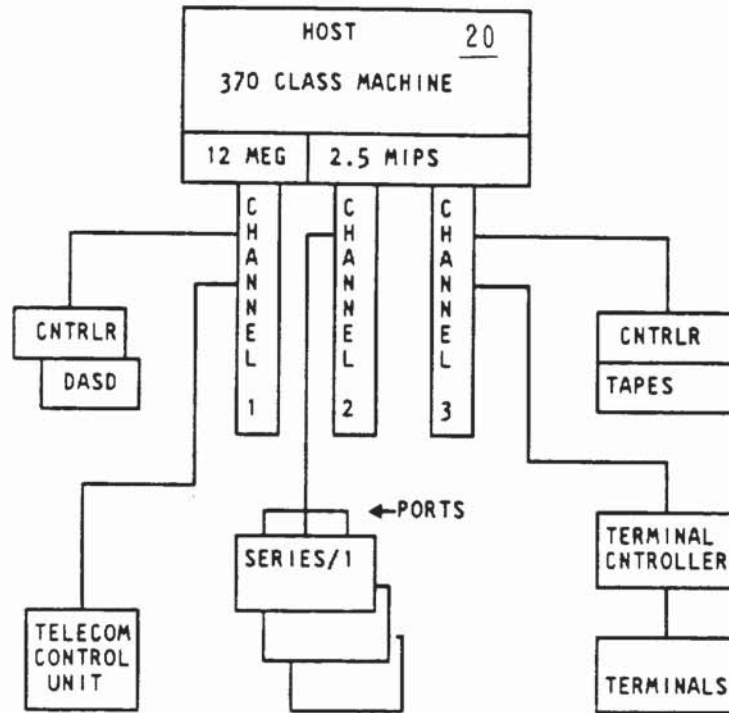
FIG. 1



Overall Architecture of a Videotex Operations Node.

FIG. 2

FIG. 3



Example Hardware Configuration for an ON Host

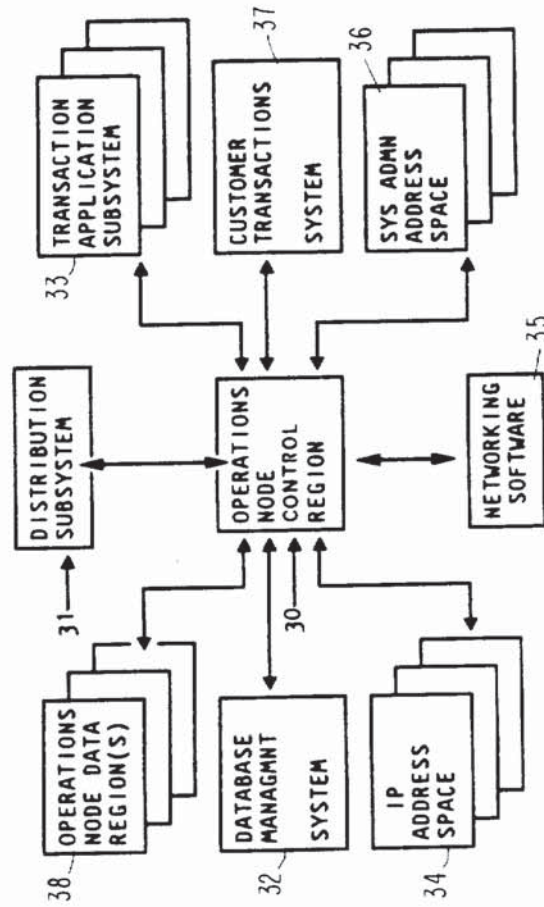


FIG. 4 Relationship of ON-specific software to other example components

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