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# United States Patent [19]

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**Higgins**

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[54] **SYSTEM FOR DISTRIBUTING, PROCESSING AND DISPLAYING FINANCIAL INFORMATION**

### FOREIGN PATENT DOCUMENTS

1489571 10/1977 United Kingdom ..... 364/408

[75] Inventor: **Gerard M. Higgins**, Staten Island, N.Y.

### OTHER PUBLICATIONS

[73] Assignee: **Merrill Lynch & Company, Inc.**, New York, N.Y.

"Technical Analysis Software Directory", *Wall Street Computer Review*, vol. 2, No. 8, Jun. 1985, 67-70, 72-79. Everest, G. C. *Database Management*. (McGraw-Hill Book Company: New York) 1986, 746.

[21] Appl. No.: **725,951**

Chamoff, M. E. et al. "Dynamic Self-Optimizing Price Lookup for Retail Terminal System", *IBM Tech. Disc. Bull.*, vol. 24, No. 2, Jul. 1981, 976-8.

[22] Filed: **Jun. 27, 1991**

### Related U.S. Application Data

[63] Continuation of Ser. No. 626,339, Jun. 29, 1984, abandoned.

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*Attorney, Agent, or Firm*—Hopgood, Calimafde, Kalil, Blaustein & Judlowe

[51] Int. Cl.<sup>5</sup> ..... **G06F 15/20; G06G 7/52**

[52] U.S. Cl. .... **364/408**

[58] Field of Search ..... 364/408, 229.41, 283.2; 340/825.27; 395/800

### [57] ABSTRACT

### [56] References Cited

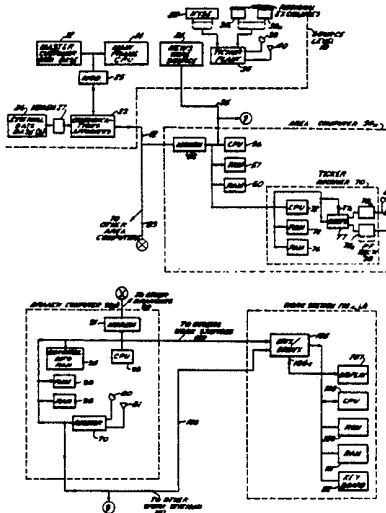
#### U.S. PATENT DOCUMENTS

3,611,294	10/1971	O'Neill et al. ....	340/825.26
3,792,462	2/1974	Casey et al. ....	340/324
3,823,387	7/1974	McClellan .....	340/825.27
3,911,403	10/1975	O'Neill, Jr. ....	364/900
3,976,840	8/1976	Cleveland et al. ....	340/825.26 X
4,008,460	2/1977	Bryant et al. ....	364/200
4,063,031	12/1977	Grunza .....	381/43
4,186,438	1/1980	Benson et al. ....	364/200
4,253,157	2/1981	Kirschner et al. ....	364/900
4,334,270	6/1982	Towers .....	364/408
4,346,442	8/1982	Musmanno .....	364/900
4,376,978	3/1983	Musmanno .....	364/900
4,398,250	8/1983	Hosono .....	364/900 X
4,432,057	2/1984	Daniell et al. ....	364/300
4,473,824	9/1984	Claytor .....	340/825.27 X
4,486,853	12/1984	Parsons .....	364/408 X
4,491,725	1/1985	Pritchard .....	235/375
4,547,851	10/1985	Kurland .....	364/410
4,567,359	1/1986	Lockwood .....	235/381
4,577,062	3/1986	Hilleary et al. ....	179/2 A
4,881,179	11/1989	Vincent .....	364/518

A data processing and communication system distributes and displays financial market ticker, quotation, news and ancillary information via a plurality of stored program controlled work stations. Stock trade executions, quotations and other ticker plant information is communicated in parallel to a hierarchy of system data processing terminals, e.g., those located at area, branch and individual work station locations. Storage media at the several system data processing levels extracts and stores data base information of differing purport and completeness for the disseminated data to support the system work station users.

In accordance with one aspect of the present invention, information characterizing a dynamically changing sub-population of the overall ensemble of market securities is maintained at and becomes immediately available to each work station responsive to the pattern of usage at that specific station. Various derivative tasks, such as security price limit alerts, are user programmable and are activated by the contents of the work station data base.

17 Claims, 5 Drawing Sheets



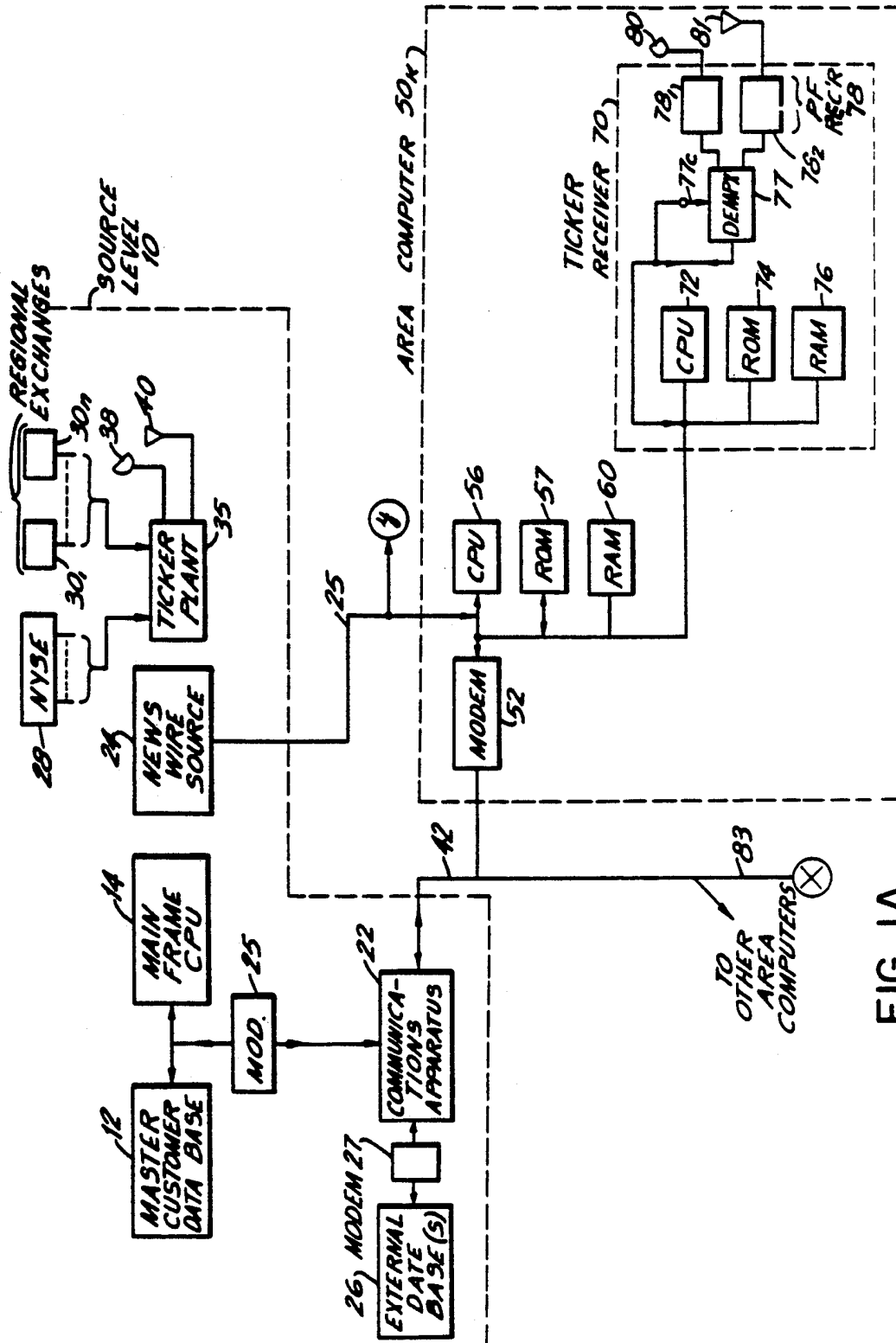


FIG. 1A

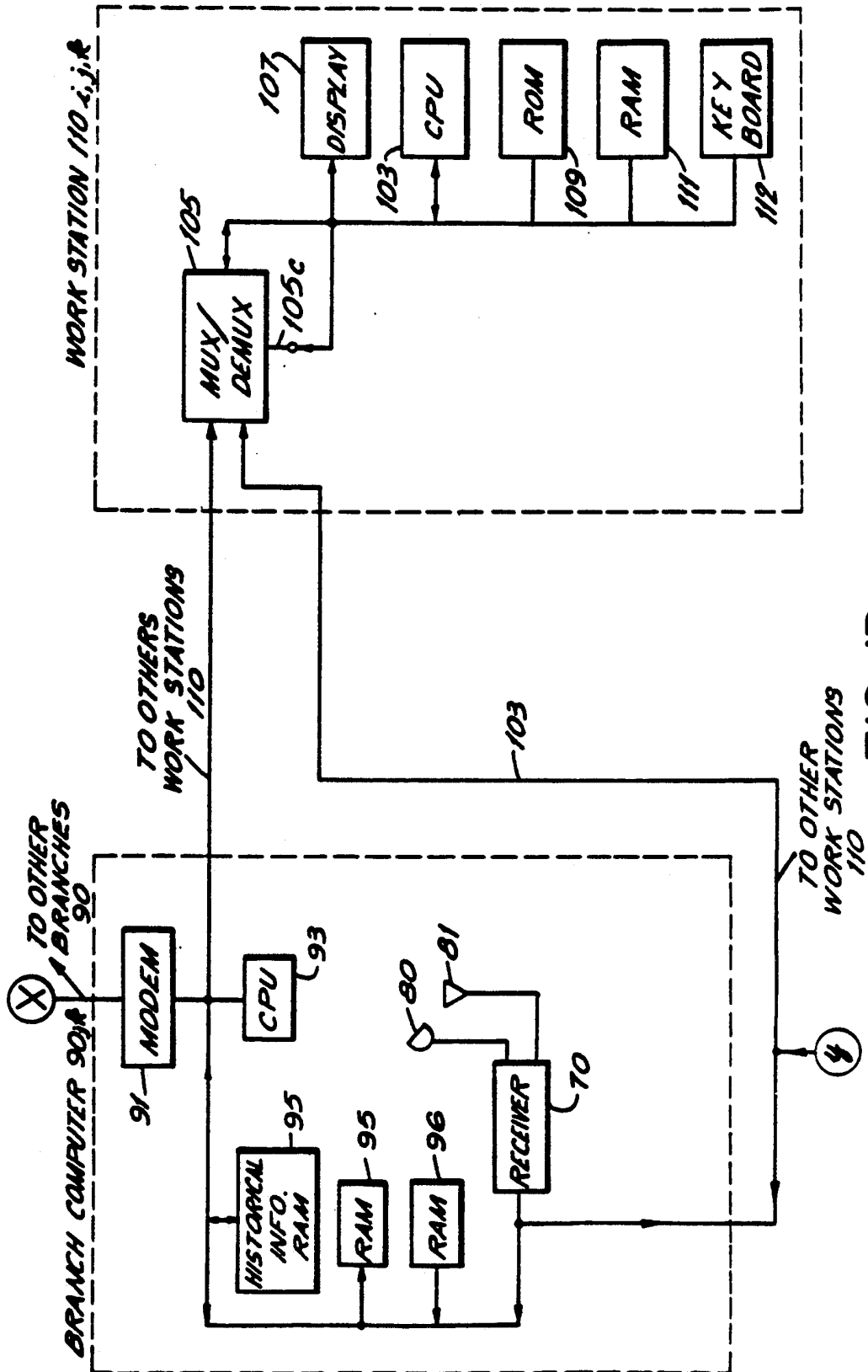


FIG. 1B

107

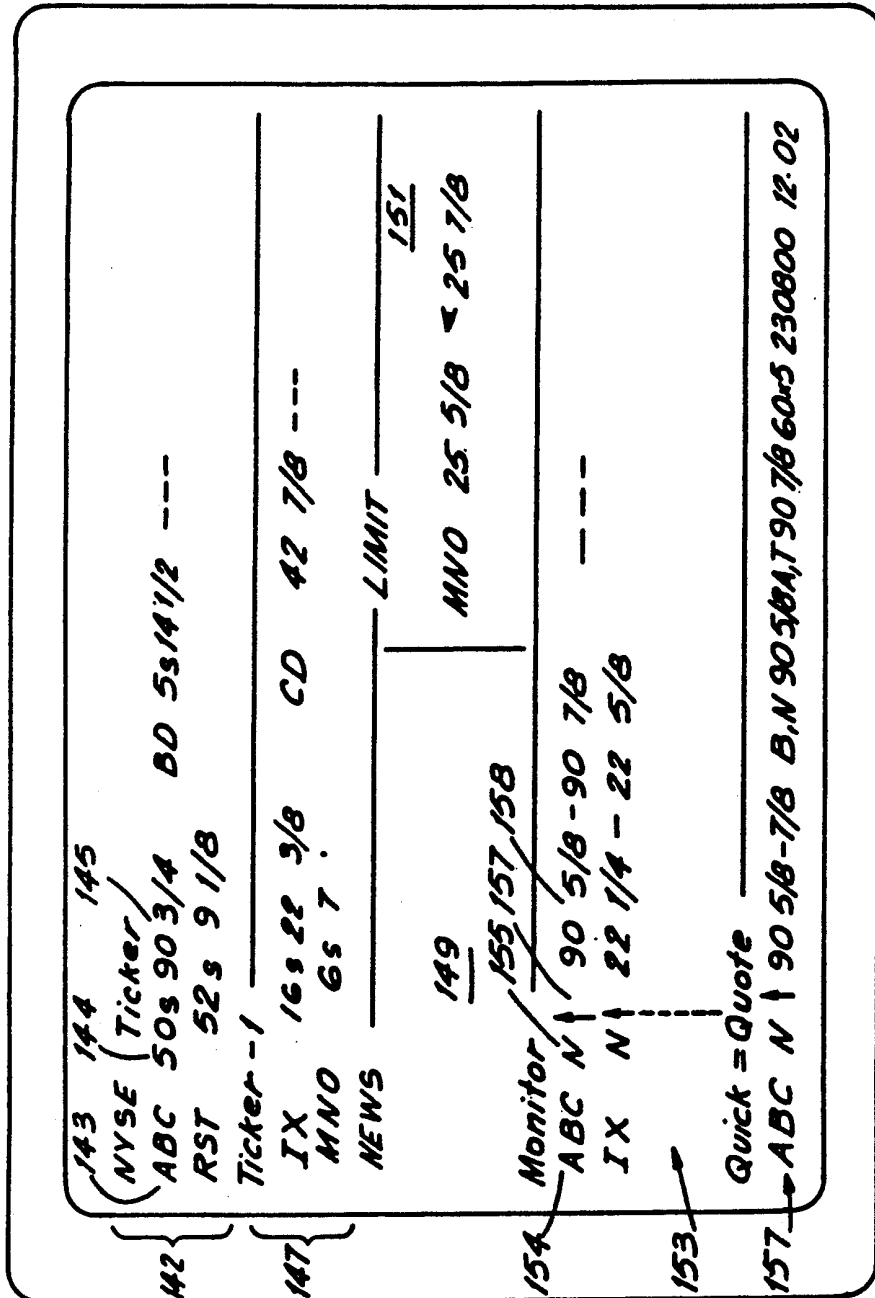


FIG. 2

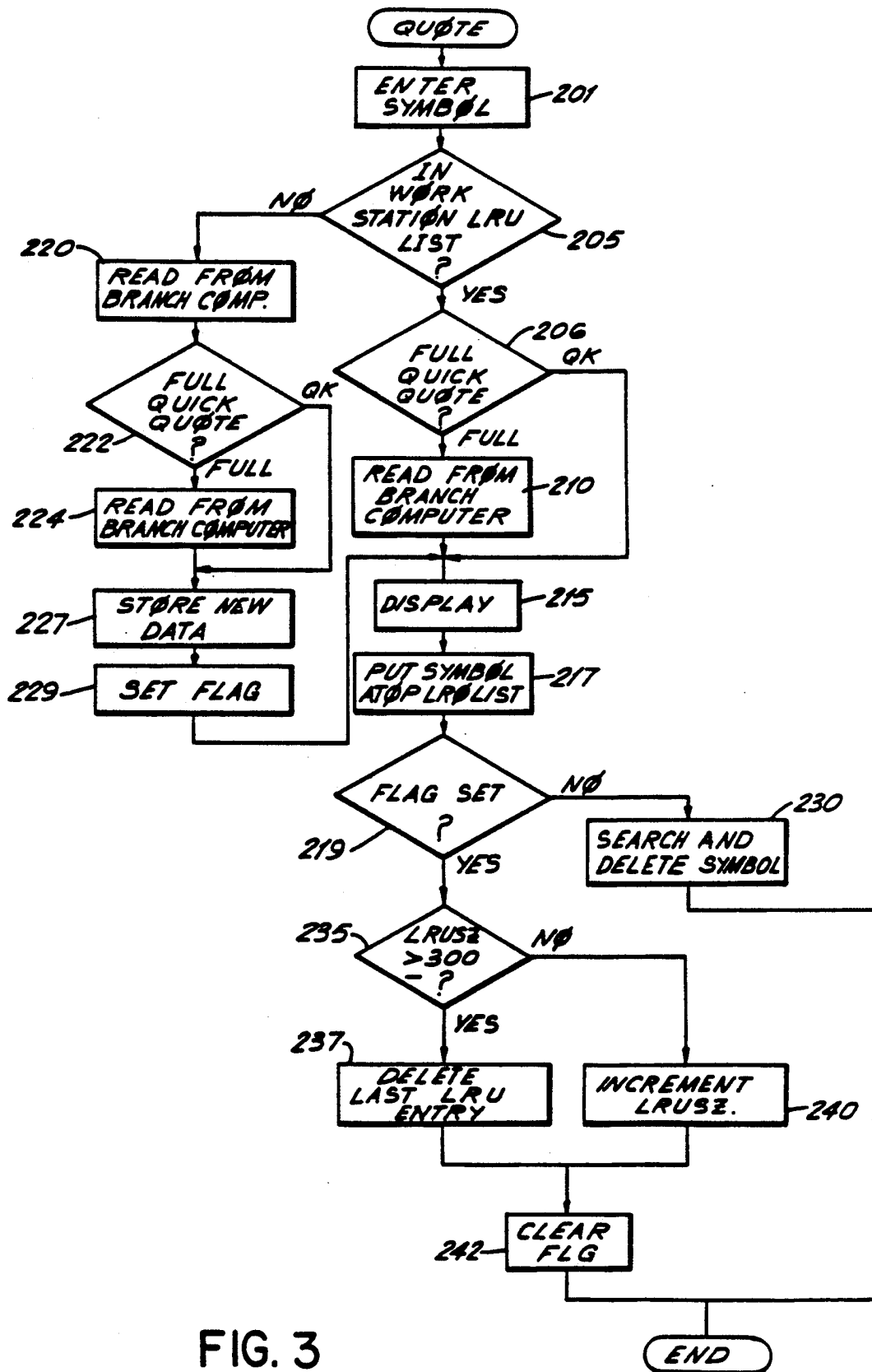


FIG. 3

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