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Gutterman et al.

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### [54] METHOD AND APPARATUS FOR ORDER MANAGEMENT BY MARKET BROKERS

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Ill.

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[22] Filed: Mar. 6, 1990

 [51] Int. Cl.5
 G06F 15/20

 [52] U.S. Cl.
 364/408; 364/406

 [58] Field of Search
 364/408, 412, 406

[56] References Cited

## U.S. PATENT DOCUMENTS

4,677,552	6/1987	Sibley, Jr	364/408
4,760,527	7/1988	Sidley	364/412
4,903,201	2/1990	Wagner	364/408
4,942,616	7/1990	Linstroth et al	364/408
4,980,826	12/1990	Wagner	364/408
5,038,284	8/1991	Kramer	364/408
5,101,353	3/1992	Lupien et al	364/408

#### OTHER PUBLICATIONS

"Unisys introduces PC-based quotation system for stockbrokers at Securities Industry trade show in New York", Feb. 10, 1988, article from Dialog File 649-Newswire ASAP ®.

"GTE Telenet and Reveal Software Inc. have cooperated in developing a complete broker's workstation software package", Jan. 22, 1985, article from Diaglog File 649-Newswire ASAP ®.

Bucken, M. "Stock traders ponder Make or Buy choice", Software Magazine, vol. 9, No. 15, Dec. 1989, 75-77. (abstract of article).

Mazzella, D. P. "Workstations for financial services professionals", *Wall Street Computer Review*, vol. 3, No. 8, May 1986, 51-58 (abstract of article).

Nathans, L. "Can computers help Merrill take possession of the field?", Wall Street Computer Review, vol. 3, No. 5, Feb. 1986, 35-39 (abstract of article).

"Software alliance unveils system to help banks trade securities", American Banker, Nov. 17, 1987, 14 (abstract of article).

"StarLAN chosen to link Hutton branches", PC Week, May 12, 1987, c241, (abstract of article).

"Unisys: Unisys broadens commitment to securities industry with snapnet back office administrative system", Nov. 7, 1989, article from Diaglog File 610-Businesswire.

Lyons, D. J. "Brokers tuning in to intelligent workstations", PC Week, vol. 4, Oct. 6, 1987, 187.

"Stratus to use Apollo's network computing system to link workstations, OLTP computers", Apr. 26, 1988, article from Diaglog File 610-Businesswire.

"SAEF 2. Product Overview," (date unknown).

I. Schmerken, "How Computer Assisted Trading is Making the Toronto Stock Exchange Purr," Wall Street Computer Review, (Dec. 1987) pp. 71-78, 97.

Computer Review, (Dec. 1987) pp. 71-78, 97. Anon., "SOFFEX Management Summary," Swiss Options and Financial Futures Exchange Ltd. (1987).

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### [57] ABSTRACT

There is provided a broker workstation for managing orders in a market for trading commodities, securities, securities options, futures contracts and futures options and other items including: a device for selectively displaying order information; a computer for receiving the orders and for controlling the displaying device; and a device for entering the orders into the computer; wherein the displaying device comprises a device for displaying selected order information about each incoming order, a device for displaying a representation of an order deck and a device for displaying a total of market orders. In another aspect of the invention, there is provided in a workstation having a computer, a device for entering order information into the computer and a device for displaying the order information entered, a method for managing orders in a market for trading commodities, securities, securities options, futures contracts and futures options and the like comprising the steps of: selectively displaying order information incoming to the workstation; accepting or rejecting orders corresponding to the incoming order information displayed; displaying accepted order information in a representation of a broker deck; and selectively displaying a total of orders at the market price.

### 13 Claims, 8 Drawing Sheets

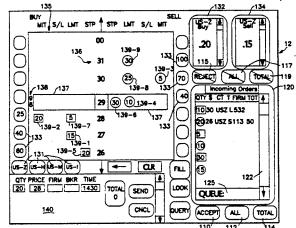
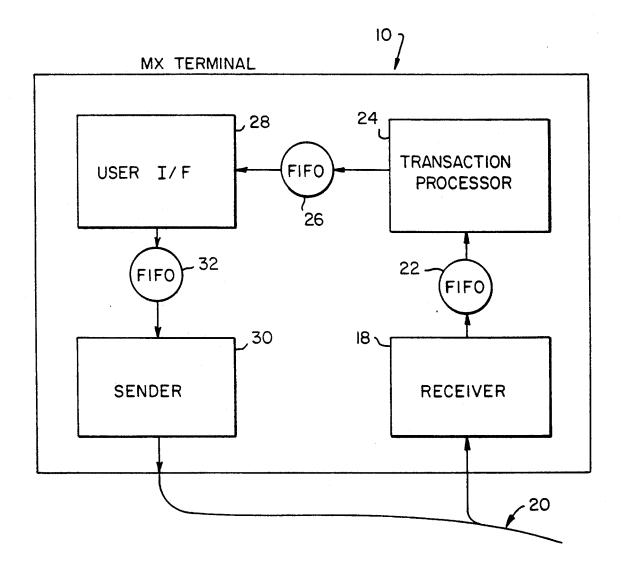
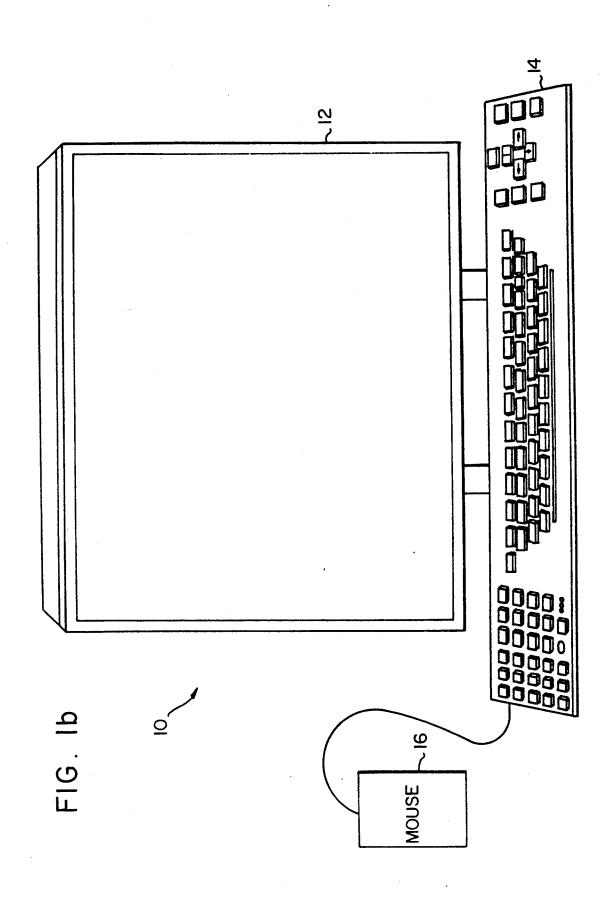




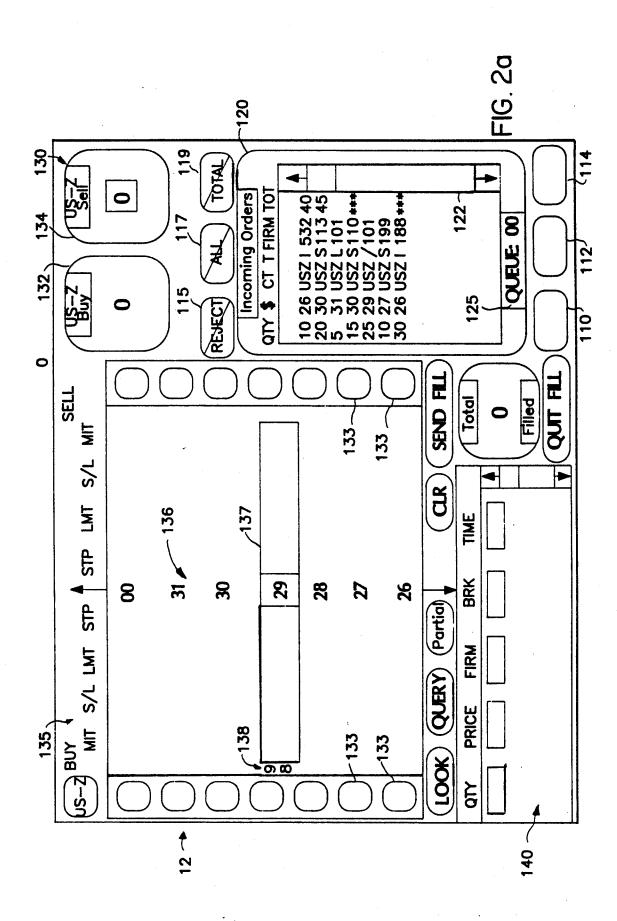
FIG. la



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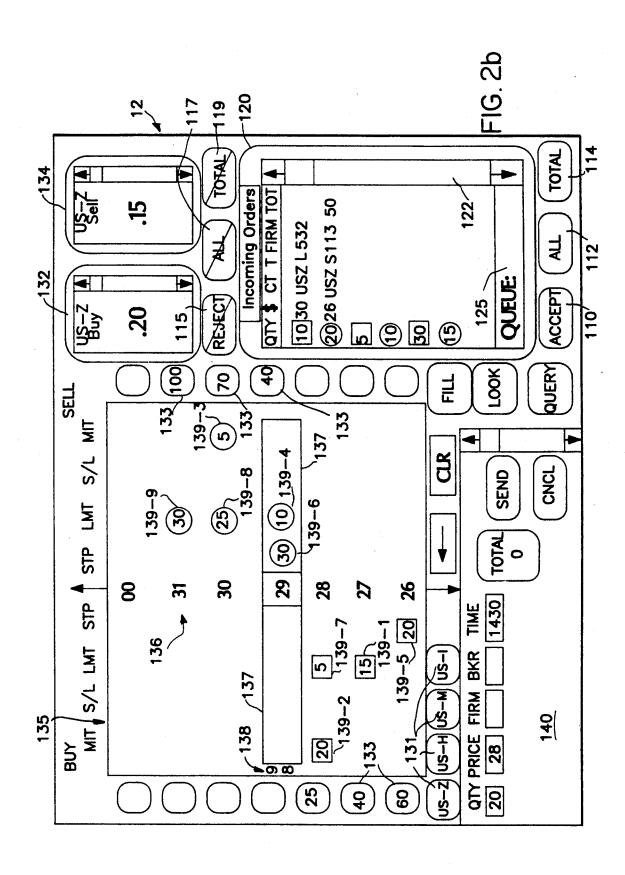


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