



US00D538815S

(12) **United States Design Patent** (10) **Patent No.:** **US D538,815 S**  
**Noviello et al.** (45) **Date of Patent:** **\*\* Mar. 20, 2007**

(54) **USER INTERFACE FOR AN ELECTRONIC TRADING SYSTEM FOR A COMPUTER SCREEN**

FOREIGN PATENT DOCUMENTS

(76) Inventors: **Joseph C. Noviello**, 180 W. 20th St., Apt. 7M, New York, NY (US) 10011; **Howard W. Lutnick**, 11 E. 71st St., New York, NY (US) 10021; **Kevin M. Foley**, 55 E. 86th St., Apt. 15C, New York, NY (US) 10028; **Michael Sweeting**, Innes House, 10 Ayling Lane, Aldershot (GB), GU11 3LZ; **William P. Gill**, 230 E. 71st St., Apt. 2E, New York, NY (US) 10021

WO	WO 90/11571	10/1990
WO	WO 99/19821	4/1999
WO	WO 00/52619	9/2000
WO	WO 01/16852 A2	3/2001
WO	WO 01/22315 A2	3/2001
WO	WO 03/090032	10/2003
WO	WO 03/107121	12/2003

(\*\*) Term: **14 Years**

OTHER PUBLICATIONS

(21) Appl. No.: **29/229,341**

“GL Trade (General Terms and Conditions)”, GL Trade, 2001, pp. 1–20.

(22) Filed: **May 5, 2005**

“The Eurex derivatives exchange: structure and characteristics”, Economic and Financial Computing, 2001, vol. 11, No. 3, pp. 118–147.

(51) **LOC (8) Cl.** ..... **14-04**

Zaloom C., “Trading the Numbers: Calculation and Ambiguity in the Pits and on the Screen”, SSRC Corporation as a Social Institution Workshop, May 2001, pp. 1–34.

(52) **U.S. Cl.** ..... **D14/485**

Zaloom, C. “Ambiguous Numbers: Technology and Trading in Global Financial Markets”, 2001, pp. 1–46.

(58) **Field of Classification Search** ..... D14/485–493;  
705/37, 36 R, 35, 75, 38, 27, 14; 715/803,  
715/807, 788–790; 345/619, 440

“USPTO Presentation: Evolution of The Nasdaq Stock Market Inc.”, Nasdaq, Nov. 8, 2001, pp. 1–15.

See application file for complete search history.

(Continued)

(56) **References Cited**

*Primary Examiner*—M. H. Tung

*Assistant Examiner*—Susan Moon Lee

U.S. PATENT DOCUMENTS

(74) *Attorney, Agent, or Firm*—Antonio Papageorgiou; Cantor Fitzgerald, L.P. Innovation Division

4,483,364 A	11/1984	Ayler	
4,756,154 A	7/1988	Minardi et al.	
5,024,058 A	6/1991	Shekleton et al.	
5,136,501 A	8/1992	Silverman et al.	
5,297,031 A	3/1994	Gutterman et al.	
5,799,151 A	8/1998	Hoffer	
5,835,896 A	11/1998	Fisher et al.	
D402,283 S	* 12/1998	Anderson et al. ....	D14/486
6,014,627 A	1/2000	Togher et al.	
6,014,643 A	1/2000	Minton	
6,058,379 A	5/2000	Odom et al.	
6,110,227 A	* 8/2000	Marcelais et al. ....	717/170
6,115,698 A	9/2000	Tuck et al.	

(57) **CLAIM**

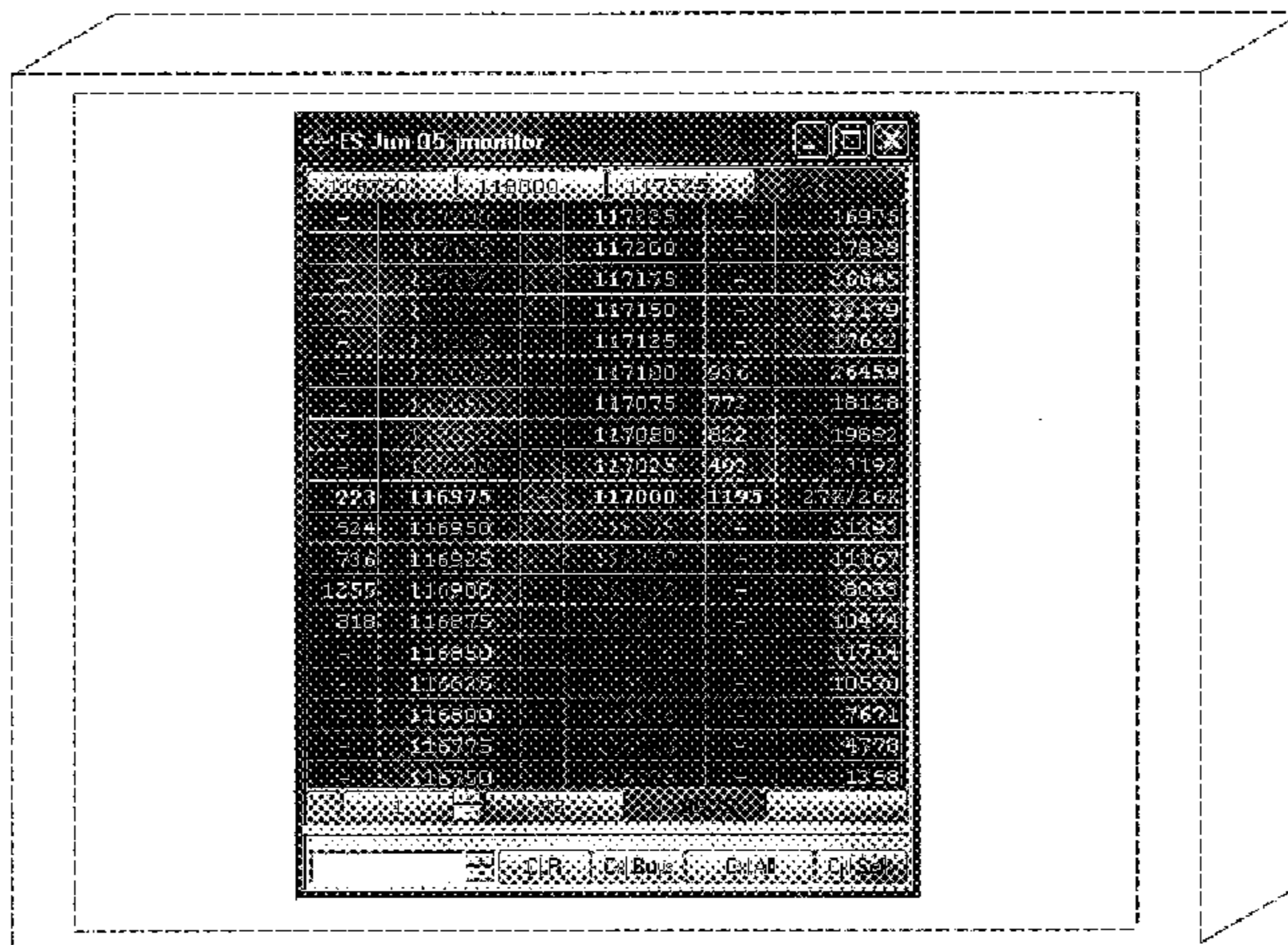
The ornamental design for a user interface for an electronic trading system for a computer screen, as shown and described.

**DESCRIPTION**

The single FIGURE is a front view of a user interface for an electronic trading system for a computer screen. The subject matter shown in broken line represents unclaimed environmental structure which is shown for illustrative purposes and forms no part of the claimed design.

(Continued)

**1 Claim, 1 Drawing Sheet**



U.S. PATENT DOCUMENTS

6,209,004	B1 *	3/2001	Taylor	715/500
6,211,880	B1	4/2001	Impink, Jr.	
6,343,278	B1	1/2002	Jain et al.	
6,408,282	B1	6/2002	Buist	
6,418,419	B1	7/2002	Nieboer et al.	
6,493,507	B2	12/2002	Salyer	
6,560,580	B1	5/2003	Fraser et al.	
6,766,304	B2	7/2004	Kemp, II et al.	
6,772,132	B1	8/2004	Kemp, II et al.	
6,810,415	B2 *	10/2004	Allen et al.	709/219
6,834,130	B1 *	12/2004	Niikawa et al.	382/305
6,850,907	B2	2/2005	Lutnick et al.	
6,938,011	B1	8/2005	Kemp et al.	
6,993,504	B1	1/2006	Friesen et al.	
6,996,779	B2 *	2/2006	Meandzija et al.	715/736
2002/0023038	A1	2/2002	Fritsch et al.	
2002/0023040	A1 *	2/2002	Gilman et al.	705/37
2002/0026404	A1 *	2/2002	Thompson	705/37
2002/0035534	A1 *	3/2002	Buist et al.	705/37
2002/0038279	A1 *	3/2002	Samuelson et al.	705/37
2002/0059131	A1 *	5/2002	Goodwin et al.	705/37
2002/0077955	A1 *	6/2002	Ramm	705/37
2002/0091615	A1 *	7/2002	Salvani	705/37
2002/0091623	A1 *	7/2002	Daniels	705/37
2002/0091624	A1 *	7/2002	Glodjo et al.	705/37
2002/0092012	A1 *	7/2002	Shah	717/170
2002/0099644	A1	7/2002	Kemp et al.	
2002/0107782	A1 *	8/2002	Greenberg et al.	705/37
2002/0120555	A1 *	8/2002	Lerner	705/37
2002/0138401	A1	9/2002	Allen et al.	
2002/0143690	A1	10/2002	Mahajan et al.	
2002/0161690	A1 *	10/2002	McCarthy et al.	705/37
2002/0174056	A1 *	11/2002	Sefein et al.	705/37
2002/0178104	A1 *	11/2002	Hausman	705/37
2002/0194103	A1 *	12/2002	Nabe	705/37
2002/0194115	A1 *	12/2002	Nordlicht et al.	705/37
2002/0198815	A1 *	12/2002	Greifeld et al.	705/37
2003/0004853	A1	1/2003	Ram et al.	
2003/0009411	A1	1/2003	Ram et al.	
2003/0018561	A1 *	1/2003	Kitchen et al.	705/37
2003/0023536	A1 *	1/2003	Hollerman et al.	705/37
2003/0030626	A1 *	2/2003	Matsuda et al.	345/173
2003/0033239	A1 *	2/2003	Gilbert et al.	705/37
2003/0033240	A1 *	2/2003	Balson et al.	705/37
2003/0036972	A1 *	2/2003	Zamma et al.	705/26
2003/0041000	A1 *	2/2003	Zajac et al.	705/37
2003/0065581	A1 *	4/2003	Takada	705/26
2003/0065608	A1 *	4/2003	Cutler	705/37
2003/0069826	A1 *	4/2003	Guidi et al.	705/37
2003/0069834	A1 *	4/2003	Cutler	705/37
2003/0069836	A1 *	4/2003	Penney et al.	705/37
2003/0088479	A1 *	5/2003	Wooten et al.	705/26
2003/0088509	A1 *	5/2003	Wilton et al.	705/37
2003/0093362	A1 *	5/2003	Tupper et al.	705/37
2003/0097325	A1	5/2003	Friesen et al.	
2003/0101126	A1 *	5/2003	Cheung et al.	705/37
2003/0101129	A1 *	5/2003	Waddell et al.	705/37
2003/0120584	A1 *	6/2003	Zarefoss et al.	705/37
2003/0126069	A1 *	7/2003	Cha	705/37
2003/0149654	A1 *	8/2003	Harrington et al.	705/37
2003/0154157	A1 *	8/2003	Kokis et al.	705/37
2003/0172024	A1 *	9/2003	Kokis et al.	705/37
2003/0177085	A1 *	9/2003	Buckwalter et al.	705/37
2003/0182469	A1 *	9/2003	Lok et al.	709/328
2003/0195829	A1 *	10/2003	Oberuc	705/36
2003/0200167	A1 *	10/2003	Kemp et al.	705/37
2003/0220845	A1 *	11/2003	Chu et al.	705/26
2003/0220867	A1 *	11/2003	Goodwin et al.	705/37
2003/0225660	A1 *	12/2003	Noser et al.	705/36
2003/0236708	A1 *	12/2003	Marsh	705/26

2003/0236737	A1 *	12/2003	Kemp et al.	705/37
2004/0006526	A1 *	1/2004	Ihm	705/37
2004/0006530	A1 *	1/2004	Allamon et al.	705/37
2004/0015431	A1 *	1/2004	May	705/37
2004/0030628	A1 *	2/2004	Takamoto et al.	705/36
2004/0049446	A1 *	3/2004	Seljeseth	705/37
2004/0054614	A1 *	3/2004	Tell et al.	705/37
2004/0059659	A1 *	3/2004	Safaei et al.	705/35
2004/0064381	A1 *	4/2004	Mizumachi et al.	705/27
2004/0064397	A1 *	4/2004	Lynn et al.	705/37
2004/0070624	A1	4/2004	Fushimi et al.	
2004/0078310	A1 *	4/2004	Shaffer	705/35
2004/0078317	A1 *	4/2004	Allen et al.	705/37
2004/0083155	A1 *	4/2004	Zhang et al.	705/37
2004/0103054	A1	5/2004	Singer	
2004/0117292	A1	6/2004	Brumfield et al.	
2005/0125328	A1	6/2005	Schluetter	
2005/0192887	A1	9/2005	Triplett	
2006/0015436	A1	1/2006	Burns et al.	
2006/0037038	A1	2/2006	Buck	

OTHER PUBLICATIONS

“The SWX Platform and Associated Systems”, Swiss Exchange, Nov. 2002.

“Royalblue Fidessa Products & Services”, Royalblue, 2003, presentation.

“Quick Reference Guide Trading—Eurex Release 6.0”, Eurex Communications, Mar. 2003, pp. 5–85, Switzerland.

“SWX Trading System Windows User Manual”, Swiss Exchange, Ver. 2.4.0.5, Apr. 1, 2004.

Declaration of Brendan Bradley, Nov. 18, 2004, Case No. 04 C 5312.

GL Trade, “Invoice (rental period Jan. 1, 2005 to Mar. 31, 2005)”, GL Consultants, Inc, Jan. 10, 2005, pp. 1–9.

Court Order, US District Court, Northern District of Illinois, Feb. 9, 2005, Case No. 04–CV–5312.

Deposition of Robert McCausland, Apr. 7, 2005, Case No. 04 CV–5312.

Deposition of Junius Peake, Jun. 3, 2005, Case No. 04 C 5312.

“Traders’ Manual”, CATS (Computer Assisted Trading System).

“APT: A Trading System For The Future”, LIFFE.

“Pats PTS Client”, PAT Systems Ltd., Ver. 2.1f, pp. 1–16.

Rubyx for LIFFE Connect, “The Iris trading front–end for futures”, IRIS, pp. 1–4.

Rubyx for LIFFE Connect, “The trading screen that sets the standards”, IRIS.

“The Oak System, On–Line Trading From Prime Time Investment Services”, Prime Time Investment Services, Chicago Board of Trade, pp. 1–18.

MarketWatch Screenshot.

“OBMS: Order Book Management System for Exchange Traded Derivatives”, Trinitech Systems Inc.

“Trader’s Manual”, MEFF Electronic System, Ver. 5.66, pp.1–141.

“Welcome to the Arizona Stock Exchange, The Online Stock Auction”, Arizona Stock Exchange, www.AZX.com, presentation.

“SWX Screen Shots”, Swiss Exchange.

Sales R., “Two Trading Roads Diverge.(London International Financial Futures and Options Exchange)(Company Operations)”, Wall Street & Technology, Jun. 1998, vol. 16, No. 6, pp. 32–35.

- “Futures/Options Trading System Guidelines for Operating the Trading Terminals”, Tokyo Stock Exchange, Aug. 1998, pp. 1–15, 16E.
- “Introducing Globex 2 From the CME: Now You Can Trade CMU Contracts Any Way You Want To”, Futures Magazine, Sep. 1998.
- Kharouf J., “Exchanges put on new game faces”, Futures, Oct. 1998, pp. 86–88 and 92.
- “MFWS Member firm Workstation User Documentation”, Task Management, Inc., Ver. 1.2, Nov. 16, 1998, pp. 1–121.
- Kharouf J. et al., “A Trading Room With A View”, Futures, Nov. 1998, pp. 66–70 and 72.
- Nybo P.A. et al., “The 1998 Review of Electronic Transaction Systems in the U.S. Fixed Income Securities Markets”, The Bond Market Association, Nov. 1998, pp. 1–23.
- “Swiss Exchange SWX TS User Manual”, Swiss Exchange, Version 2.1, Dec. 1998, pp. 1–249.
- Bergman B., “Are Futures Trading Pits History?”, Commodity Research Bureau, 1999, Vol. 8, No. 3.
- Weber B., “Screen-Based Trading in Futures Markets: Recent Developments and Research Propositions”, Proceedings of the 32nd Hawaii International Conference on System Sciences, IEEE Computer Society, 1999, vol. 7, pp. 1–10.
- Loebbecke C., “Electronic Trading in On-line Delivered Content”, Proceedings of the 32nd Hawaii International Conference on System Sciences, IEEE Computer Society, 1999, vol. 5, pp. 1–10.
- Tsang R., “Open outcry and electronic trading in futures exchanges”, Bank of Canada Review, 1999, pp. 21–39.
- “X Trader Product Information”, Trading Technologies International Inc., 1999, pp. 2–3.
- “Trading Pad”, GL Trade, 1999, pp. 1–8.
- Maruanaga et al., “Market microstructure and market liquidity”, Bank of Japan, 1999, pp. 1–28 and abstract.
- “The Application Program Interface (API) Reference Manual For LIFFE Connect”, LIFFE, Release 3.3, Jan. 1999, Table of Contents and Appendix F.
- “Power Wars”, Futures, Apr. 1999, vol. 28, No. 4, pp. 28–29.
- GL Trade, “(LIFFE Connect for Futures) User Guide V4.51”, GL Trade, Jun. 1999, pp. 1–53.
- Arvedlund E., “Coming Soon to Your PC: The Options Pit”, TheStreet, Jun. 10, 1999.
- GL Trade, “Guide: GL WIN et Logiciels complementaires”, GL Trade, Oct. 1999, pp. 1–25.
- Nybo P.A. et al., “eCommerce in the U.S. Fixed Income Markets: The 1999 Review of Electronic Transactions Systems”, The Bond Market Association, Nov. 1999, pp. 1–35.
- Carter J., “Electronic trading”, Electronic Trading Special Report Risk, Nov. 1999.
- “Tokyo Stock Exchange 50th Anniversary Materials System Edition”, Tokyo Stock Exchange, vol. Apr. 1989 through Mar. 1999, Jul. 31, 2000.
- “Downloading the Terminal Program and Sending the Replacement for the Guidelines for Operating the Trading Terminals”, Tokyo Stock Exchange, Jan. 2000, pp. 12–13.
- “Liffe moves to computer screen trading. (Company Business and Marketing)”, Computer Weekly, Apr. 27, 2000, p. 4.
- “Schedule #23 Software and Services Chosen By The Client (GL WIN Trading stations)”, Client Future Path LLC, 2001, pp. 1–2.
- “TIFFE Annual Report 1996”, The Tokyo International Financial Futures Exchange (TIFFE), 1996, screen shot.
- Schwartz R.A. et al., “Combining Quote-Driven and Order-Driven Trading Systems in Next-Generation Stock Markets: An Experimental Investigation”, Center for Digital Economy Research, Stern School of Business, Jul. 1996, Working Paper IS-96-13, pp. 1–28.
- “Trading System User Documentation”, Trading Technologies Inc., 1997, p. 35.
- “Annual Report 1997”, The Tokyo International Financial Futures Exchange (TIFFE), 1997, cover page and pp. 1, 17, and 18.
- Cavaletti C., “Electronic Order Routing”, Futures, Feb. 1997, pp. 68–70.
- “CQG for Windows”, Futures Magazine, Feb. 1997.
- “Introduction to TSE Computer Systems”, Tokyo Stock Exchange, Jun. 1997, presentation.
- “Screen Shots Patsystems Canned Demo”, Patsystems, Ver. 1.0, 1997, pp. 1–15.
- Johnson M., “Swiss upgrade the hard way—Despite delays, Exchange automation project succeeds”, Computerworld, Apr. 7, 1997, vol. 31, No. 14, pp. 69–70.
- Sales R., “CME & CBOT lead the charge for futures industry standards. (Chicago Mercantile Exchange, Chicago Board of Trade) (Company Operations) (Cover Story)”, Wall Street & Technology, Apr. 1997, vol. 15, No. 4.
- Hoffman T., “Trade faster. (flat-panel displays used in the American Stock Exchange’s Amex Option Display Book computerized trading process)(Company operations)”, Computerworld, Aug. 25, 1997, vol. 31, No. 34, pp. 39–40.
- “SYCOM Implementation of ITC Specification Version 2.1”, Task Management, Inc., Ver. 1.1, Sep. 30, 1997.
- “Next-Generation Futures Options Trading System”, The Tokyo Stock Exchange, Business Systems Department, Sep. 1997, pp. 1–18.
- Nybo P.A. et al., “A Review of Electronic Trading Systems in the U.S. Fixed Income Securities Markets”, The Bond Market Association, Oct. 1997, pp. 1–5.
- Clemons E. K. et al., “Information Technology and Screen-Based Securities Trading: Pricing the Stock and Pricing the Trade”, Management Science, Dec. 1997, vol. 43, No. 12, pp. 1693–1708.
- Sales R., “Eurex pushes futures goliaths to after-hours upgrades. (unified European market for futures trading)(Industry Trend or Event)”, Wall Street & Technology, Dec. 1997, vol. 15, No. 12, pp. 58–62.
- Schwartz R. et al., “Next-Generation Securities Market Systems: An Experimental Investigation of Quote-Driven and Order-Driven Trading”, Journal of Management Information Systems, 1997, vol. 14, No. 2, pp. 57–79.
- “Trade Futures Online With Interactive Brokers”, Interactive Brokers LLC, 1998.
- “SYCOM Trader Guide”, SFE Corporation Limited, 1998, pp. 1–50.
- “Futures Online”, Futures Magazine, 1998 Guide to Computerized Trading, 1998, p. 30.
- “PTS Client 1.1 Beta H.1”, Patsystems, Mar. 31, 1998, pp. 1–6.
- Demarchi M. et al., “Equity Trading Systems in Europe—A survey of recent changes”, Feb. 1998.
- Hunter R., “The End Of Open Outcry?”, DerivativesStrategy, Mar. 1998.
- “Trading System User Documentation”, Trading Technologies, Apr. 1, 1998, Release 3.10, pp. 4–89.

- “CBOT and Eurex announce trading alliance. (Chicago Board of Trade)(Company Business and Marketing)”, Wall Street & Technology, May 1998, vol. 16, No. 5, p. 22.
- Sales R., “Alliance threatens Liffe’s open outcry.(standards for London International Financial Futures and Options Exchange)(Company Business and Marketing)”, Wall Street & Technology, May 1998, vol. 16, No. 5, pp. 32–35.
- Neo B.S., “The implementation of an electronic market for pig trading in Singapore”, Journal of Strategic Information Systems, Nov. 1992, vol. 1, No. 5, pp. 278–288.
- Schmerken, I., “Off-exchange trading chips away at NYSE”, Wall Street & Technology, Dec. 1992, vol. 10, No. 4, pp. 42–47.
- Corcella K., “Automated Execution As Springboard to Growth”, Wall Street & Technology, 1993, vol. 12, No. 3, pp. 12–14.
- “TIFFE Annual Report 1993”, The Tokyo International Financial Futures Exchange (TIFFE), 1993, screen shot.
- “Annual Report 1993”, The Tokyo International Financial Futures Exchange (TIFFE), 1993, cover page.
- “LIFFE: The second decade”, Wall Street & Technology, Jan. 1993, vol. 10, No. 6, pp. 46–48.
- Weber B., “Information Technology in the Major International Financial Markets”, Center for Digital Economy Research, Stern School of Business, Apr. 7, 1993, Working Paper IS-93-12, pp. 1–43.
- Weber B., “Transparency and Bypass in Electronic Financial Markets”, Center for Digital Economy Research, Stern School of Business, Jun. 10, 1993, Working Paper IS-93-15, pp. 1–22.
- Kulkosky V., “Making Connections In Off-Exchange Trading”, Wall Street & Technology, Oct. 1993, vol. 11, No. 5, pp. 14–17.
- Grody A.D. et al., “Past, Present and Future: The Evolution and Development of Electronic Financial Markets”, Center for Digital Economy Research, Stern School of Business, Nov. 1993, Working Paper IS-95-21, pp. 1–16.
- Smith, C.R., “Tossing Out Tickets”, Wall Street & Technology, May 1994, vol. 11, No. 13, pp. 52–55.
- Lefoll J., “Couts de transaction et parite des options sur actions du SOFFEX (Transactions costs and parity for options on stocks of SOFFEX)”, Societe de Statistique de Paris, 1994, pp. 19–38.
- Schmerken I., “Exports from the Promised Land to Wall Street”, Wall Street & Technology, May 1994, vol. 11, No. 13, pp. 22–24.
- Clarke R., “Case Study: OM Financial Derivative Exchanges”, Xamax Consultancy Pty Ltd, Jun. 19, 1994, pp. 1–12.
- Lehmann et al., “Trading and Liquidity on the Tokyo Stock Exchange: A Bird’s Eye View”, Journal of Finance, Jul. 1994, vol. 49, No. 3, pp. 951–984.
- Richardson P., “Can Chicago wire the clock? (Chicago Board of Trade’s after-hours trading systems)”, Wall Street & Technology, Oct. 1994, vol. 12, No. 4, pp. 34–38.
- “Investdata Manual”, Telekurs, 1995, Edition ’94/E, pp. 1–92.
- Niemeyer J. et al., “An Empirical Analysis of the Trading Structure at the Stockholm Stock Exchange”, Stockholm School of Economics, Jan. 16, 1995, Working Paper No. 44, pp. 1–35.
- Rockoff T.E. et al., “Design of an Internet-based system for remote Dutch auctions”, Internet Research—Electronic Networking Applications and Policy, Jan. 1995, vol. 5, No. 4, pp. 10–16.
- “TIFFE Annual Report 1995”, The Tokyo International Financial Futures Exchange (TIFFE), 1995, screen shot.
- “The OM CLICK Trade User’s Guide—for Windows NT”, OM Gruppen AB, Draft Ver. 1.0–1, Apr. 1995, pp. 1–9, 11–17, 19–25, 27, 33, 35–38, 39–47 and 49–51.
- Elliott M., “Prepackaged Yield Curve Trades”, Derivatives Strategy, Sep. 1995.
- Hamao et al., “Securities Trading in the Absence of Dealers: Trades, and Quotes on the Tokyo Stock Exchange”, The Review of Financial Studies, vol. 8, No. 3, Fall 1995, pp. 849–878.
- “Late but hopeful, Intex looks for summer start up”, Intex, Futures World, Jun. 14, 1984, pp. 1–3.
- “Automated trading works: now for the next hurdle”, Automation, Futures World, Nov. 22, 1984, pp. 1–3.
- “MEFF Screen Shot”, MEFF, 1985.
- Hakansson et al., “On the Feasibility of Automated Market Making by a Programmed Specialist”, The Journal of Finance, Mar. 1985, vol. 40, No. 1, pp. 1–20.
- Mazzella D.P., “Workstations for financial services professionals”, Wall Street Computer Review, May 1986, vol. 3, No. 8, pp. 51, 52, 54–56 and 58.
- Jouzaitis C., “Tiny Intex still awaits big break”, Chicago Tribune, Jul. 13, 1987, Sec. 4, p. 3.
- Schmerken I., “How Computer Assisted Trading is Making the Toronto Stock Exchange Purr”, Wall Street Computer Review, Dec. 1987, pp. 71–78, 97.
- Landis, “Multi-Talented System Opens Windows for Trader’s World”, Wall Street Computer Review, Apr. 1988, pp. 86–89, 93.
- Hill et al., “Equity Trading, Program Trading, Portfolio Insurance, Computer Trading and All That”, Financial Analysts Journal, Jul.–Aug. 1988, vol. 44, No. 4, pp. 29–38.
- “Chicago Mercantile Exchange”, Globex, Mar. 30, 1989, pp. 1–15.
- “Annual Report 1989”, The Tokyo International Financial Futures Exchange (TIFFE), 1989, cover page.
- Penrose P., “Breathing Liffe into futures”, Banking Technology, Apr. 1989, pp. 46–47.
- Matthew, “OTC Success Spurs Specialized Trading Systems”, Wall Street Computer Review, Sep. 1989, pp. 26–28, 32, 34, 36 and 38.
- Bucken M., “Stock traders ponder ‘Make’ or ‘Buy’ choice”, Software Magazine, Dec. 1989, vol. 9, No. 15, pp. 75–77.
- “Aurora”, Chicago Board of Trade, 1990.
- “Broker Workstation”, Chicago Board of Trade, 1990.
- Dator J., “Futures of Japan”, 4th Annual Asia-Pacific Studies Forum, Apr. 28, 1990, pp. 1–6.
- “International Organization of Securities Commissions, Report of the Technical Committee: Screen-Based Trading Systems for Derivative Products”, Commodity Futures Law Reports, Jun. 1990, vol. 5–91, No. 404, pp. 37, 845–859.
- Schmerken I., “The Bulls and Bears come Out at Night; electronic Trading”, Wall Street Computer Review, Sep. 1990, vol. 7, No. 12, pp. 14, 20, 22, 62, 64, 66, 68, 70, 72 and 77.
- Schmerken I., “Canadian Brokerage Hedges with On-Line Expertise”, Wall Street Computer Review, Dec. 1990, pp. 66, 68 and 69.

Michaels G., "Software Review by the Center for Advanced Technology, Columbia University", Wall Street Computer Review, Aug. 1991, pp. 53 and 55.

Michaels J., "Is the Pen Mightier Than The Phone?", Wall Street Computer Review, Sep. 1991, pp. 52 and 54.

Schmerken I., "O'Connor lifts the cover: O'Connor & Associates is sharing its trading technology with Swiss Bank Corp.", Wall Street Computer Review, Oct. 1991, vol. 9, No. 1, pp. 38-40.

"Detailed Design Document Exhibit S", Task Management, Inc., Feb. 28, 1992, pp. 1-401.

"Dictionary of Derivatives", Euromoney, Jun. 1992, pp. 52-54.

Parry J., "New Electronic Bourse", Financial Technology Insight, Jun. 1992, pp. 12-13.

Brennan P.J., "For sale: stock exchange systems", Wall Street & Technology, Aug. 1992, vol. 9, No. 12, pp. 43-45.

"CATS Project Notice—79—3", CATS Traders' Manual, The Toronto Stock Exchange, Mar. 15, 1979.

Grummer E.M. et al., "Preliminary Feasibility Study for BERMUDEX (Ltd.) An Automated International Exchange for Bermuda", Nov. 1980, pp. 1-127, Hamilton, Bermuda.

"Functional Specifications Intex", Intex, Aug. 1981, pp. 1-52.

"Free form order entry would use the following syntax . . .", Intex Document (Keystroke Description), 1982.

"How are Markets Displayed?", Intex Document (Market Display Description), 1982.

"Terminal Key Strokes and special keys . . .", Intex Document, 1982, pp. 1 5.

"Proposed Screen Formats", Intex, Jun. 1982, pp. 1-3. Figures: Market Summary, Single Contract Month, Spreads, Trading Screen, Jan. 4, 1983.

"Intex Trading Screens", 1983, two pages.

\* cited by examiner

