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Kemp, II et al.

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(54) CLICK BASED TRADING WITH INTUITIVE GRID DISPLAY OF MARKET DEPTH

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Related U.S. Application Data

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` ′	2000.								

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(51) Int. Cl.⁷ G06F 17/60

345/814

(56)References Cited

U.S. PATENT DOCUMENTS

4,674,044 A 4,750,135 A		Kalmus et al
5,038,284 A	8/1991	Kramer
5,077,665 A		Silverman et al 364/408
5,136,501 A 5,270,922 A		Silverman et al 364/408 Higgins
5,297,031 A		Gutterman et al.
5,297,032 A	3/1994	Trojan et al.
5,689,651 A	11/1997	Lozman

5,774,877 A 6/1998 Patterson, Jr. et al. 5,793,301 A 8/1998 Patterson, Jr. et al.

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

WO	WO 98/49639	11/1998
WO	WO 99/19821	4/1999
WO	WO 99/30259	6/1999
WO	WO 99/53424	10/1999
WO	WO 00/52619	9/2000
WO	WO 00/62187	10/2000
WO	WO 00/65510	11/2000
WO	WO 01/16830	3/2001
WO	WO 01/16852	3/2001
WO	WO 01/22315	3/2001
WO	WO 01/88808	11/2001

OTHER PUBLICATIONS

Patsystems News Release, Patsystems Launches J Trader, Nov. 6, 2001.*

www.tradingtechnologies.com/products/xtrade_full.html (viewed May 22, 2001) <Jun. 9, 2000.

Kharouf, A trading room with a view, Fututes, 27, 11—Nov.

USPTO Presentation, NASDAQ, Nov. 8, 2001, enclosed pp.

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(57)ABSTRACT

A method and system for reducing the time it takes for a trader to place a trade when electronically trading on an exchange, thus increasing the likelihood that the trader will have orders filled at desirable prices and quantities. The "Mercury" display and trading method of the present invention ensure fast and accurate execution of trades by displaying market depth on a vertical or horizontal plane, which fluctuates logically up or down, left or right across the plane as the market prices fluctuates. This allows the trader to trade quickly and efficiently.

40 Claims, 6 Drawing Sheets

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1011		- 72	20		33	97		
1012		×	10		115	96		
1013		- 0)		_			
1014		10	1H		32	95		
	>	50	3H		27	94		
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1019				23		84		
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1021				125		82		
	-			21		81	-	

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US 6,766,304 B2 Page 2

	U.S	. PATENT	DOCUMENTS		6,131,087 A	10/2000	Luke et al.
					6,134,535 A	10/2000	Belzberg
5,797,00			Patterson, Jr. et al.		6,195,647 B1	2/2001	Martyn et al.
5,845,260	5 A		Lupien et al.		6,272,474 B1	8/2001	Garcia
5,915,24	5 A	6/1999	Patterson, Jr. et al.		6.278.982 B1	8/2001	Korhammer et al.
5,924,082	2 A	7/1999	Silverman et al.		6,282,521 B1	8/2001	Howorka
5,924,08	3 A	7/1999	Silverman et al	705/37	6,408,282 B1	6/2002	
5,963,92	3 A	10/1999	Garber	705/37	2002/0023038 A1	2/2002	Fritsch et al.
6,012,040	5 A	1/2000	Lupien et al.		2002/0055899 A1		Williams
6,014,64	3 A	1/2000	Minton	705/37	2002,00000033 111	0,2002	***************************************
6,098,05	1 A	8/2000	Lupien et al.		* cited by examine	r	

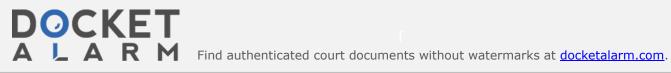
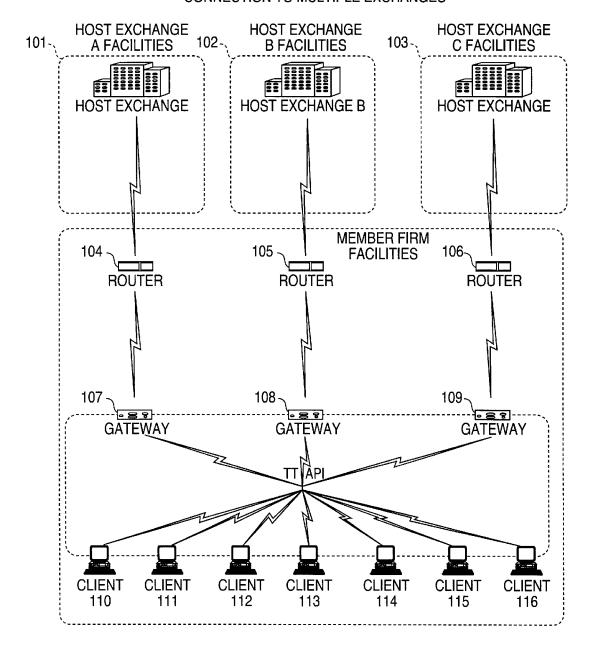


FIG. 1

CONNECTION TO MULTIPLE EXCHANGES





8230 LastPrc | LastQty 489 7627 AskPrc | AskQtv 815 600 2456 800 205 2 7629 7630 7631 7632 7627 204 7626 7625 7624 7623 7622 **BidPrc** 203 Contract Depth BidQt 500 500 500 500 785 202 201 CDHO 0 m 4 m



FIG. 3

[SYCOM FGBL DEC99]
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1009		L 3			104	99		
1010		R	5		24	98		
1011		720			33	97		
1012		X	10		115	96		
1013		1	0					
1014		10	1H		32	95		
		50	3H		27	94		
1007 <	S 0 W 24	1K	5H		63	93		
1007	S 0 W 7	CLR			45	92		
1015		×	10		28	91		
1016		_ 17	\neg		20	90	10	1000
	B 0 W 15	(CXL	18		89		<u></u> 1020
1008 〈	B 0 W 13	+	-	97		88		
1017		<u> </u>	ET 0	30		87		
1018	B 0 W 17	NFT	REAL	43		86		
		/ _		110		85		
1019				23		84		
				31		83		
1021				125		82		
				21		81		
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