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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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To the Honorable Commissioner for Patents: Please record the attached	ed original documents or copy thereof.
Name of conveying party(ies):	2. Name and address of receiving party(ies):
MATT N. MORANO 5 - 8 - 02 KAI NEUMANN	Name: New York Mercantile Exchange, Inc. Internal Address:
Additional name(s) of conveying party(ies) attached? ☐ Yes ■ No	Internal Address.
3. Nature of conveyance:	Street Address: World Financial Center, One North End Avenue City: New York State: NY Zip: 10282-1101
■ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other	Additional name(s) & address(es) attached? ☐ Yes ■ No
Execution Date: May 3, 2002	
4. Application number(s) or patent number(s):	
If this document is being filed together with a new app	lication, the execution date of the application is:
A. Patent Application No(s).	B. Patent No(s).
09971172	
Additional nu	Imbers attached? ☐ Yes ■ No
1	6. Total number of applications and patents
5. Name and address of party to whom correspondence concerning document should be mailed:	involved: 1
Name: David R. Clonts Internal Address: AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.	7. Total fee (37 C.F.R. § 3.41)
Street Address: 711 Louisiana Street Suite 1900 South	8. Deposit account number: 16-2435
City: Houston State: TX Zip: 77002	(Attach duplicate copy of this page if paying hy deposit account)
	T USE THIS SPACE
of the original document	g information is true and correct and any attached copy is a true copy Solution 2 Date
David R. Clonis, Reg. No. 36,768 710/2002 SNINGSS1 00000042 09971172 FC:581 40.00 OP	ling cover sheet, attachments and document: $\underline{4}$
053392.0006 HOUSTON 234242 v1	

ASSIGNMENT

WHEREAS, we, Matt N. Morano, Ian West and Kai Neumann, are joint inventors of IMPLIED MARKET TRADING SYSTEM application for United States Letters Patent Serial No. 09/971,172, filed October 4, 2001; and

WHEREAS, NEW YORK MERCANTILE EXCHANGE, INC. ("NYMEX"), a corporation created and existing under and by virtue of the laws of the State of Delaware, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by NYMEX and for other good and valuable considerations, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to NYMEX, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, reexaminations and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by NYMEX for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted, reexamined or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to NYMEX, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to NYMEX, its successors, assigns, or other legal representatives and that if NYMEX, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reexamination or reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And we do further covenant and agree that we will, at any time upon request, communicate to NYMEX, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 3 day of May, 2002.

Matt Morano
MATT MORANO

Page 1 of 3

STATE OF NEW YORKS
COUNTY OF NEW YORKS
BEFORE ME, the undersigned authority, on this day personally appeared MATT N. MORANO, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.
GIVEN UNDER MY HAND and seal of office this 3 day of Mey, 2002.
Stiellen M. Galish Notary Public, State of New York No. 31-4819103 Qualified in New York County, Commission Expires Output Commission Expires Output NOTARY PUBLIC IN AND FOR THE STATE OF STATE OF Very Output NOTARY PUBLIC IN AND FOR THE STATE OF
* * * * * * * * *
EXECUTED THIS day of, 2002.
IAN WEST
STATE OF §

BEFORE ME, the undersigned authority, on this day personally appeared IAN WEST, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of ______, 2002.

NOTARY PUBLIC IN AND FOR THE STATE OF _____

Page 2 of 3

COUNTY OF _____

EXECUTED THIS _	J day of	May	, 2002.	
		KAINE	UMANN	

STATE OF NEW YORK \$
COUNTY OF NEW YORK \$

BEFORE ME, the undersigned authority, on this day personally appeared KAI NEUMANN, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this ______ day of ______

SUELLEN M. GALISH Notary Public, State of New York No. 31-4819103

Qualified in New York County
Commission Expires

NOTARY PUBLIC IN AND FOR THE

STATE OF

Page 3 of 3

RECORDED: 05/08/2002