

FORM PTO-1595

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**Paul J. Callaway, Sunil Kiran Cutinho,
Stephen M. Goldman and
Agnes Shanthi Thiruthuvadoss**

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date(s): **6/16/06, 6/15/06, 6/21/06 and
6/20/06**

2. Name and address of receiving party(ies)

Name: **Chicago Mercantile Exchange Inc.**

Internal Address:

Street Address: **20 South Wacker Drive**City: **Chicago** State: **IL** ZIP: **60606**Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

11/388,159

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **William E. Lewis**Internal Address: **Ryan, Mason & Lewis, LLP**Street Address: **90 Forest Avenue**City: **Locust Valley** State: **NY** ZIP: **11560**6. Total number of applications and patents involved: 17. Total Fee (37 CFR 3.41)..... \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number **50-0510**

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

William E. Lewis

Reg. No. 39,274

Signature

July 7, 2006

Date

Total number of pages including cover sheet, attachments, and document: 5

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

**Mail Stop Assignment Recordation Services
Director of the U.S. Patent and Trademark Office
P.O. Box 1450**

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YOR920060115US1

700274367

PATENT
REEL: 017900 FRAME: 0928

CH \$40.00 600610 11388159

Attorney Docket No. YOR920060115US1**ASSIGNMENT**

Whereas, we

Inventor
and City(1) **Paul J. Callaway**
County of Cookof Chicago
and State of Illinois(2) **Sunil Kiran Cutinho**
County of Cookof Park Ridge
and State of Illinois(3) **Stephen M. Goldman**
County of Lakeof Lake Forest
and State of Illinoisand (4) **Agnes Shanthi Thiruthuvadoss**
County of Cookof Chicago
and State of Illinois

have invented certain improvements in

TITLE

**METHODS AND SYSTEMS FOR PARTITIONING DATA IN PARALLEL
PROCESSING SYSTEMS**described in United States patent application Serial No. 11/388,159, filed on March 23, 2006 and
executed onDATE THAT
ABOVE-NAMED
INVENTORS
SIGNED THE
DECLARATION(1) June 14 2006 (2) June 15, 2006 (3) June 21 2006
and (4) June 20 2006.

Whereas, CHICAGO MERCANTILE EXCHANGE Inc., a corporation organized and existing under the laws of the State of Delaware, having a place of business at 20 South Wacker Drive, Chicago, Illinois 60606, (hereinafter called CME) desires to acquire the entire right, title and interest in and to the patent application and inventions and improvements described above, and to any United States and foreign patents to be obtained therefore;

NOW THEREFORE, for a valuable consideration, receipt whereof by the inventors is hereby acknowledged, we the above named, hereby sell, assign, and transfer to CME, its successors and assigns, the entire right, title and interest in the patent application, invention therein disclosed, and improvements thereto for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions and improvements set forth in said application to CME, its successors and assigns; and we hereby agree that CME may apply for foreign Letters Patent on said invention; and we will without undue delay execute without further consideration all such papers as may be necessary in connection with the United States and foreign applications when called upon to do so by CME; and we agree to communicate to CME all known facts respecting said application, inventions, improvements, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid CME to obtain and enforce for their own benefit patent protection for said application, inventions and improvements in any and all countries, all at the expense, however, of CME.

PATENT

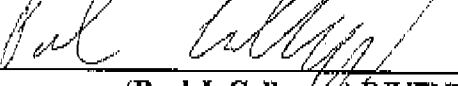
Page 1 of 2

REEL: 017900 FRAME: 0929

Attorney Docket No. YOR920060115US1


IN TESTIMONY WHEREOF, the Assignors have executed the Assignment.

CITY Signed
DATE (1) at Chicago, IL
on June 16, 2006.



(Paul J. Callaway) INVENTOR
SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed
DATE (2) at Chicago, IL
on June 15, 2006.



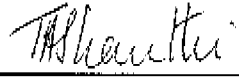
(Sunil Kiran Cutinho) INVENTOR
SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

CITY and Signed
DATE (3) at Chicago, IL
on June ____, 2006.



(Stephen M. Goldman) INVENTOR
SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed
DATE (4) at Chicago, IL
on June 20, 2006.



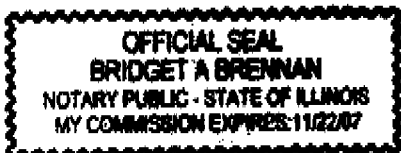
(Agnes Shanthi Thiruthuvadoss) INVENTOR
SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

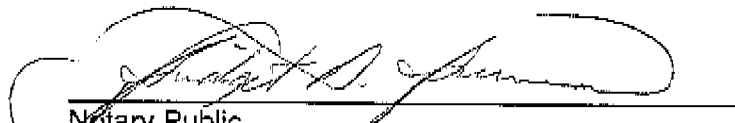
Ryan, Mason & Lewis, LLP
90 Forest Avenue
Locust Valley, New York 11560
(516) 759-2722

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, Bridget A. Brennan, a Notary Public in and for the County and State aforesaid, do hereby certify that STEPHEN M. GOLDMAN, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 21 day of June, 2006.






Notary Public
My Commission Expires: November 22, 2007

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, Bridget A. Brennan, a Notary Public in and for the County and State aforesaid, do hereby certify that AGNES SHANTHI THIRUTHUVADOSS, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 20 day of June, 2006.



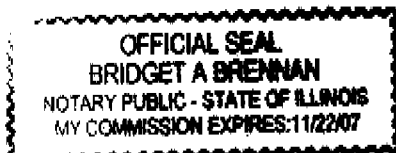



Notary Public
My Commission Expires: November 22, 2007

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, Bridget A. Brennan, a Notary Public in and for the County and State aforesaid, do hereby certify that PAUL J. CALLAWAY, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 16th day of June, 2006.





Notary Public
My Commission Expires: November 22, 2007

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, Bridget A. Brennan, a Notary Public in and for the County and State aforesaid, do hereby certify that SUNIL KIRAN CUTINHO, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 15th day of June, 2006.





Notary Public
My Commission Expires: November 22, 2007