PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
MICHAEL J. BURNS	09/30/2004	
ROBERT A. WEST	09/30/2004	
GERALD J. O'CONNOR	09/30/2004	
STEPHEN J. MURPHY	09/30/2004	
SCOTT F. SINGER	10/05/2005	

RECEIVING PARTY DATA

Name:	Trading Technologies International, Inc.
Street Address:	222 S. Riverside Plaza, Suite 1100
City:	Chicago
State/Country:	ILLINOIS
Postal Code:	60606

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14278193	

CORRESPONDENCE DATA

Fax Number: (312)913-0002

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Email: fuller@mbhb.com

Correspondent Name: MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP

Address Line 1: 300 SOUTH WACKER DRIVE Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	020348CIPAUS04
NAME OF SUBMITTER:	JORI R. FULLER
SIGNATURE:	/Jori R. Fuller/
DATE SIGNED:	05/15/2014

Total Attachments: 5

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ASSIGNMENT

Case No.:

Serial No.:

Inventors: Michael J. Burns, Robert A. West, Gerald J. O'Connor, Stephen J. Murphy

Date of Execution

of Application:

Filing Date:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

Trading Technologies International, Inc., a corporation of the State of Delaware

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

TRADING INTERFACE FOR FACILITATING TRADING OF MULTIPLE TRADEABLE OBJECTS IN AN ELECTRONIC TRADING ENVIRONMENT

and identified as:

Case No.

in the offices of McDonnell Boehnen Hulbert & Berghoff and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest

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all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

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WITNESS my hand and seal this 2 day of		100 T.

State of Illinois

County of Cook

The foregoing instrument was acknowledged before me this 30th day of

September, 2004 by Michael J. Burns

Michael & Burns

SEAL OFFICIAL MARC H. NOBUHATA NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 2/18/2007

WITNESS my hand and seal this 30 day of 521

Robert A

State of Illinois

County of Cook

The foregoing instrument was acknowledged before me this 35th day of

September, 2004 by Robert A. West

"OFFICIAL SEAL MARC H. NOBUHATA NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 2/18/2007

-2 of 2 -

WITNESS my hand and seal this 30 day of Sophenter 2004 State of Illinais County of Cook The foregoing instrument was acknowledged before me this 350 day of Septender 2004 by Gerald J. O'Conner "OFFICIAL SEAL MARC H. NOBUHATA NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 2/18/2007 WITNESS my hand and seal this 3d day of 2004. State of Illine's County of Cook The foregoing instrument was acknowledged before me this 30th day of September 2004 by Stephen J. Murphy "OFFICIAL SEAL" MARC H. NOBUHATA NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 2/18/2007

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ASSIGNMENT

Case No.: 02-348-B Serial No.: 10/954,681

Inventor: Michael J. Burns, Robert A. West,

Gerald J. O'Connor, Stephen J. Murphy, and Scott F. Singer

Date of Execution of Application:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

Filing Date: 09/30/2004

Trading Technologies International, Inc., a corporation of the State of Delaware

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

TRADING INTERFACE FOR FACILITATING TRADING OF MULTIPLE TRADEABLE OBJECTS IN AN ELECTRONIC TRADING ENVIRONMENT

and identified as:

Case No. 02-348-B

in the offices of McDonnell Boehnen Hulbert & Berghoff and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all

other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 5° day of 00° .

UF Singer

State of Jelinee

County of Declare

The foregoing instrument was acknowledged before me this 5th day of

Octable, 2005 by Scott J. Senger

Que P Extracted

"OFFICIAL SEAL"

JILL P. FITZPATRICK

NOTARY PUBLIC, STATE OF ILLINOIS

MY COMMISSION EXPIRES 12/9/2008