

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
STEPHEN A. SCHWARZ	12/28/2004
MICHAEL J. BURNS	12/28/2004
RECEIVING PARTY DATA	
Name:	TRADING TECHNOLOGIES INTERNATIONAL, INC.
Street Address:	222 SOUTH RIVERSIDE PLAZA
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City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60606
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16217910
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ATTORNEY DOCKET NUMBER:	041109US08
NAME OF SUBMITTER:	ADAM J. FAIER
SIGNATURE:	/Adam J. Faier/
DATE SIGNED:	12/12/2018
Total Attachments: 3	
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source=041109US08 Assignment#page2.tif	
source=041109US08 Assignment#page3.tif	

ASSIGNMENT

Case No.:
Inventor: Stephen A. Schwarz, Michael J. Burns
Date of Execution
of Application:

Serial No.:

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:

**SYSTEM AND METHOD FOR
PROVIDING MARKET UPDATES IN
AN ELECTRONIC TRADING ENVIRONMENT**

and identified as:

Case No.

in the offices of McDONNELL BOEHNNEN 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.

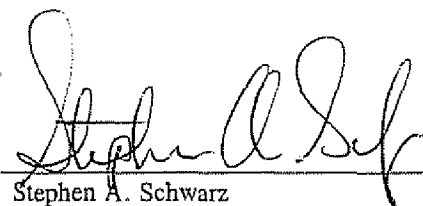
The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

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 28 day of DEC, 2004.


Stephen A. Schwarz

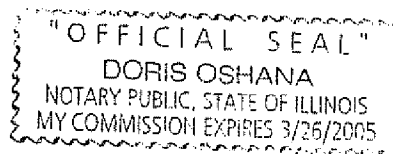
State of Illinois

County of COOK


The foregoing instrument was acknowledged before me this 28th day of

December, 2004 by Stephen Schwarz


NOTARY PUBLIC



WITNESS my hand and seal this 28 day of December, 2004.



Michael J. Burns

State of Illinois

County of COOK

The foregoing instrument was acknowledged before me this 28th day of

December, 2004 by Michael



NOTARY PUBLIC

