# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ARI STUDNITZER	11/06/2013
ZACHARY BONIG	11/06/2013
RYAN EAVY	11/06/2013
FRANK KMIEC	11/06/2013
SCOTT HENDERSON	11/06/2013

#### RECEIVING PARTY DATA

Name:	CHICAGO MERCANTILE EXCHANGE INC.
Street Address:	20 SOUTH WACKER DRIVE
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60606

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17150420

## **CORRESPONDENCE DATA**

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 3122910860

Email: docket-us@lsk-iplaw.com

Correspondent Name: LEMPIA SUMMERFIELD KATZ LLC

Address Line 1: 20 SOUTH CLARK STREET

Address Line 2: SUITE 600

Address Line 4: CHICAGO, ILLINOIS 60606

Tatal Attachments F	
DATE SIGNED:	01/15/2021
SIGNATURE:	/James L. Katz/
NAME OF SUBMITTER:	JAMES L. KATZ
ATTORNEY DOCKET NUMBER:	004672-13018B-US

Total Attachments: 5

PATENT REEL: 054936 FRAME: 0124



PATENT REEL: 054936 FRAME: 0125

## **ASSIGNMENT**

WHEREAS, Ari Studnitzer, Zachary Bonig, Ryan Eavy, Frank Kmiec, and Scott Henderson, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled TRANSACTIONALLY DETERMINISTIC HIGH SPEED FINANCIAL EXCHANGE HAVING IMPROVED, EFFICIENCY, COMMUNICATION, CUSTOMIZATION, PERFORMANCE, ACCESS, TRADING OPPORTUNITIES, CREDIT CONTROLS, AND FAULT TOLERANCE, executed by Assignors on the same date as, or on a date prior to, this Assignment;

WHEREAS, CHICAGO MERCANTILE EXCHANGE INC., a corporation organized and existing under the laws of the State of Illinois, having a place of business at 20 South Wacker Drive, Chicago, IL 60606, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to

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have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assigner will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED:	11/6/2013	
		Ari Studnitzer
DATED:	11/4/13	Zachery Bonjo
DATED:	11/4/2013	
		Ryan Eavy
DATED:	11/6/13	Frank Kmiec
	1 2	Train Armos
DATED:	11/6//3	

STATE OF /LLINO/S ) COUNTY OF COOK ) SS.
COUNTY OF COOK SS.
COUNTY OF  I, ANOTAL HABINA, a Notary Public in and for the County and State aforesaid, do hereby certify that Ari Studnitzer, 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 day of
STATE OF SS.  COUNTY OF COOK SS.  COUNTY OF COOK SS.  County and State aforesaid, do hereby certify that Zachary Bonig, 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 day of
My Commission Expires:  OFFICIAL SEAL JANET P HASINA Notary Public - State of Illinois My Commission Expires Sep 26, 2017

STATE OF IZENIUS
COUNTY OF COOK ) ss.
County and State aforesaid, do hereby certify that Ryan Eavy, 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 day of
STATE OF SS.  COUNTY OF COOK  Ss.  County and State aforesaid, do hereby certify that Frank Kmiec, 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 day of
My Commission Expires: 9/26//7  OFFICIAL SEAL JANET P HABINA Notary Public - State of Illinois

STATE OF 124/VOIS
STATE OF 122/NOTS ) ss.  COUNTY OF COOK ) ss.  I, JANCT 1. HABINA , a Notary Public in and for the
County and State aforesaid, do hereby certify that Scott Henderson, 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
(M) day of NOVIMBER . 2013.
Notary Public
My Commission Expires: 9/26//7
OFFICIAL SEAL JANET P HABINA Notary Public - State of Illinois My Commission Expires Sep 26, 2017