507396415 07/21/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

EPAS ID: PAT7443341 Stylesheet Version v1.2

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

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17869831

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.

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Correspondent Name: LEMPIA SUMMERFIELD KATZ LLC

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Address Line 2: SUITE 600

Address Line 4: CHICAGO, ILLINOIS 60603

ATTORNEY DOCKET NUMBER:	004672-13016C-US	
NAME OF SUBMITTER:	JAMES L. KATZ	
SIGNATURE: /James L. Katz/		
DATE SIGNED:	07/21/2022	

Total Attachments: 4

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> **PATENT** REEL: 060575 FRAME: 0891 507396415

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> PATENT REEL: 060575 FRAME: 0892

ASSIGNMENT

WHEREAS, Ari Studnitzer, Zachary Bonig, Ryan Eavy, and Frank Kmiec, 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	A: M
		Ari Studnitzer
DATED:	11/6/13	Zachary Bonig
DATED:	11/6/2013	
DATED:	11/6/13	Ryan Eavy Frank Kmiec

STATE OF /LHINDIS) COUNTY OF COOK) SS.
COUNTY OF COOK } ss.
1. JANET P. HABIM, 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, 2013.
OFFICIAL SEAL JANET P HABINA Notary Public Notary Public
w) Actimization Exhibits 24h SG SG SG 1
My Commission Expires:
STATE OF /LAINDIC)
STATE OF /LANDIS) COUNTY OF COUNTY OF COUNTY OF
」、 J4Nにて P・州州/A)/A, a Notary Public in and for the
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 1/2/2012 , 2013.
Dajuto Carer
Notary/Public
My Commission Expires: 9/20//7
OFFICIAL SEAL JANET P HABINA Notary Public - State of Illinois
My Commission Expires Sep 28, 2017

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