504642035 11/14/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4688755

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD CO	11/10/2017
DHIRAJ SUBHASH BAWADHANKAR	11/13/2017
FLORIAN HUCHEDE	11/10/2017
JOHN BALAAM ALEXANDER KERPEL	11/10/2017
ANDREY LOPATIN	11/14/2017
ROMIL PRADIP PAREKH	11/13/2017
ROBERT WILLIAM TAYLOR	11/10/2017

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:	15812573

CORRESPONDENCE DATA

Fax Number: (312)463-5001

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: 312-463-5000

Email: PTO-30756@bannerwitcoff.com,ksimoni@bannerwitcoff.com,michelle.marsh@cnlegro

Correspondent Name: BANNER & WITCOFF, LTD., ATTORNEYS FOR CL

Address Line 1: 10 SOUTH WACKER DRIVE

Address Line 2: SUITE 3000

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	006119.00553
NAME OF SUBMITTER:	CHARLES L. MILLER
SIGNATURE:	/Charles L. Miller/
DATE SIGNED:	11/14/2017

504642035 PATENT REEL: 044123 FRAME: 0832

Total Attachments: 14 source=ASSIGNMENT#page1.tif source=ASSIGNMENT#page3.tif source=ASSIGNMENT#page3.tif source=ASSIGNMENT#page4.tif source=ASSIGNMENT#page5.tif source=ASSIGNMENT#page6.tif source=ASSIGNMENT#page7.tif source=ASSIGNMENT#page8.tif source=ASSIGNMENT#page9.tif source=ASSIGNMENT#page9.tif source=ASSIGNMENT#page10.tif source=ASSIGNMENT#page11.tif source=ASSIGNMENT#page12.tif source=ASSIGNMENT#page13.tif source=ASSIGNMENT#page13.tif

PATENT REEL: 044123 FRAME: 0833

WHEREAS, we, Richard Co, Dhiraj Subhash Bawadhankar, Florian Huchedé, John Balaam Alexander Kerpel, Andrey Lopatin, Romil Pradip Parekh, and Robert William Taylor (ASSIGNOR) are the inventors of certain inventions and improvements described in a U.S. patent application having the title "Listed Options Position Compression System," which application was filed on November 14, 2017 and assigned Application No. 15/812,573

WHEREAS, Chicago Mercantile Exchange Inc., 20 South Wacker Drive, Chicago, Illinois 60606 (ASSIGNEE), desires to acquire the entire right, title and interest in and to said application, inventions and improvements and any patents that may be granted on or as a result thereof in the United States of America (U.S.) and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged,

We hereby assign, to the above named ASSIGNEE, its successors, assigns and legal representatives (NOMINEES), the entire right, title and interest in and to said application (including the right to claim priority thereto), inventions and improvements throughout the world, and any and all patents, petty patents and utility model patents which may be granted therefor, and all continuations, continuations-in-part, divisions, reissues, extensions, renewals, and any non-provisional based on a provisional thereof (LETTERS PATENT).

And we covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement or do anything in conflict herewith;

And we further covenant and agree that we will without undue delay execute without further consideration all such papers as may be necessary to perfect the title to said application, inventions and improvements, and LETTERS PATENT in the ASSIGNEE or its NOMINEES, and I agree to communicate to said ASSIGNEE or its NOMINEES all known facts respecting said application, inventions, improvements, and LETTERS PATENT, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid ASSIGNEE or its NOMINEES 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 the ASSIGNEE or its NOMINEES;

And we authorize the ASSIGNEE or its NOMINEES to file in my name or their own, as appropriate, application for LETTERS PATENT in any and all countries of the world, and I authorize and request the Commissioner of Patents and Trademarks of the

And, we hereby grant the attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

IN TESTIMONY WHEREOF, the Assignors have executed this Agreement.

PocuSigned by:

11/10/2017	Richard Co
Date	00B5497135BB456
Date	Dhiraj Subhash Bawadhankar
Date	Florian Huchedé
Date	John Balaam Alexander Kerpel
Date	Andrey Lopatin
Date	Romil Pradip Parekh
Date	Robert William Taylor

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Date	Romil Pradip Parekh
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 Date	 Dhiraj Subhash Bawadhankar
11/10/2017	Plonian Hulude
Date	A31113C20D044FB ;
Date	John Balaam Alexander Kerpel
Date	Andrey Lopatin
Date	Romil Pradip Parekh
 Date	Robert William Taylor

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Date	Dhiraj Subhash Bawadhankar
Date	Florian Huchedé
11/10/2017	John Balaam Alexander kerpel
Date	3DC8592F84574D2
Date	Andrey Lopatin
Date	Romil Pradip Parekh
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11/14/2017	andrei Lopatin
Date	6754C6F2B5E3478
Date	Romil Pradip Parekh
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Date	Dhiraj Subhash Bawadhankar
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Doto	John Palence Alexandes Konnal
Date	John Balaam Alexander Kerpel
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11/13/2017	Romil Porekt
Date	1E9CD2017946458, 1rekh
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11/10/2017	Robert Taylor
Date	Robert Taylor

Page 2 of 2

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RECORDED: 11/14/2017