# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5967509

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

# **CONVEYING PARTY DATA**

Name	Execution Date
FATEEN SHARABY	12/04/2017
SRIRAM A. RAJU DATLA	12/04/2017
DHIRAJ SUBHASH BAWADHANKAR	12/04/2017
JOHN CHARLES REDFIELD	12/05/2017
JUSTIN YEONG-JUIN LEE	12/05/2017

# **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:	16792973

# **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, michelle.marsh@cmegroup.com

**Correspondent Name:** LEMPIA SUMMERFIELD KATZ LLC

20 SOUTH CLARK STREET Address Line 1:

SUITE 600 Address Line 2:

Address Line 4: CHICAGO, ILLINOIS 60603

ATTORNEY DOCKET NUMBER:	004672-17548B-US
NAME OF SUBMITTER:	JAMES L. KATZ
SIGNATURE:	/James L. Katz/
DATE SIGNED:	02/18/2020
	•

**Total Attachments: 10** 

**PATENT** REEL: 051841 FRAME: 0510

source=Assignment#page1.tif	
source=Assignment#page2.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#page10.tif	
source=Assignment#page10.tif	

PATENT REEL: 051841 FRAME: 0511

WHEREAS, we, Fateen Sharaby, Sriram A. Raju Datla, Dhiraj Subhash Bawadhankar, John Charles Redfield and Justin Yeong-Juin Lee (ASSIGNOR) are the inventors of certain inventions and improvements described in a U.S. patent application having the title **ADAPTIVE COMPRESSION OF STORED DATA**, which application was filed on 12/5/2017 and assigned Application No. 15/832,244 ;

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 United States, and any proper official of any country, to issue to said ASSIGNEE or its

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.

12/4/2017	Fatur Sharaby Fatorial Sharaby
Date	Fateen-Sharaby
Date	Sriram A. Raju Datla
Date	Dhiraj Subhash Bawadhankar
Date	John Charles Redfield
Date	Justin Yeong-Juin Lee

WHEREAS, we, Fateen Sharaby, Sriram A. Raju Datla, Dhiraj Subhash Bawadhankar, John Charles Redfield and Justin Yeong-Juin Lee (ASSIGNOR) are the inventors of certain inventions and improvements described in a U.S. patent application having the title **ADAPTIVE COMPRESSION OF STORED DATA**, which application was filed on 12/5/2017 and assigned Application No. 15/832,244

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 United States, and any proper official of any country, to issue to said ASSIGNEE or its

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.

Date	Fateen Sharaby
12/4/2017	Srivan Datla
Date	Srifan A. Raju Datla
Date	Dhiraj Subhash Bawadhankar
Date	John Charles Redfield
Date	Justin Yeong-Juin Lee

WHEREAS, we, Fateen Sharaby, Sriram A. Raju Datla, Dhiraj Subhash Bawadhankar, John Charles Redfield and Justin Yeong-Juin Lee (ASSIGNOR) are the inventors of certain inventions and improvements described in a U.S. patent application having the title **ADAPTIVE COMPRESSION OF STORED DATA**, which application was filed on 12/5/2017 and assigned Application No. 15/832,244 ;

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 United States, and any proper official of any country, to issue to said ASSIGNEE or its

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.

Date	Fateen Sharaby
Date	Sriram A. Raju Datla
12/4/2017 Date	Docusigned by:  towadhankar  Dhirajo Surbhash Bawadhankar
Date	John Charles Redfield
Date	Justin Yeong-Juin Lee

WHEREAS, we, Fateen Sharaby, Sriram A. Raju Datla, Dhiraj Subhash Bawadhankar, John Charles Redfield and Justin Yeong-Juin Lee (ASSIGNOR) are the inventors of certain inventions and improvements described in a U.S. patent application having the title **ADAPTIVE COMPRESSION OF STORED DATA**, which application was filed on 12/5/2017 and assigned Application No. 15/832,244 ;

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 United States, and any proper official of any country, to issue to said ASSIGNEE or its

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.

Date	Fateen Sharaby
Dut	Odina A. Bail Balla
Date	Sriram A. Raju Datla
Date	
12/5/2017	DocuSigned by:  2 RAM
Date	John Charles Redfield
Date	Justin Yeong-Juin Lee

WHEREAS, we, Fateen Sharaby, Sriram A. Raju Datla, Dhiraj Subhash Bawadhankar, John Charles Redfield and Justin Yeong-Juin Lee (ASSIGNOR) are the inventors of certain inventions and improvements described in a U.S. patent application having the title **ADAPTIVE COMPRESSION OF STORED DATA**, which application was filed on 12/5/2017 and assigned Application No. 15/832,244

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 United States, and any proper official of any country, to issue to said ASSIGNEE or its

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.

Date	Fateen Sharaby
Date	Sriram A. Raju Datla
Date	Dhiraj Subhash Bawadhankar
Date	John Charles Redfield
12/5/2017	Justin Lu
Date	ี้ ปัยชน่างชัยอาดู-Juin Lee

Page 2 of 2

18860843\_1 BW/CME

**RECORDED: 02/18/2020**