506248005 09/11/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6294750

| SUBMISSION TYPE:      | NEW ASSIGNMENT |  |
|-----------------------|----------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |  |

#### **CONVEYING PARTY DATA**

| Name          | Execution Date |
|---------------|----------------|
| YAOTIAN ZHANG | 06/15/2016     |

## **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: | 15192203 |

### **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 60603

| ATTORNEY DOCKET NUMBER: | 004672-16005A-US |
|-------------------------|------------------|
| NAME OF SUBMITTER:      | JAMES L. KATZ    |
| SIGNATURE:              | /James L. Katz/  |
| DATE SIGNED:            | 09/11/2020       |

# **Total Attachments: 6**

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> PATENT REEL: 053749 FRAME: 0473

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# **ASSIGNMENT**

WHEREAS, Seo Wook Jang, Jeon Ho Cho, Bo Miao, Cham Hong Po, Yaotian Zhang, Panagiotis Xythalis, and Matthew Morano, and, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled DYNAMIC VALUATION SYSTEM USING OBJECT RELATIONSHIPS AND COMPOSITE OBJECT DATA, 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 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 Assignor 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: |           |                     |
|--------|-----------|---------------------|
|        |           | Seo Wook Jang       |
| DATED: |           |                     |
|        |           | Jeon Ho Cho         |
| DATED: |           |                     |
|        |           | Bo Miao             |
| DATED: |           |                     |
|        |           | Cham Hong Po        |
| DATED: | 6/15/2016 | Colon               |
|        |           | Yaotian Zhang       |
| DATED: |           |                     |
|        |           | Panagiotis Xythalis |
| DATED: |           |                     |
|        |           | Matthew Morano      |

- 2 -

| STATE OF   | )                         |   |
|--|---------------------------|---|
| COUNTY OF  | ) ;                       | SS.   |
| me to be the same person what appeared before me this day in delivered the said instrument purposes therein set forth. | hose<br>per<br>as<br>F, I | , a Notary Public in and for the reby certify that Seo Wook Jang, personally known to be name is subscribed to the foregoing instrument, rson and acknowledged that (s)he signed, sealed and his/her free and voluntary act for the uses and have hereunto set my hand and Notarial Seal, this, 2016. |
|  |                           | Notary Public   |
| My Commission Expires:   |                           |   |
| STATE OF   | )                         |   |
| COUNTY OF  | ) :                       | <b>55</b> .   |
| me to be the same person what appeared before me this day in delivered the said instrument purposes therein set forth. | hos<br>per<br>as<br>F, I  |   |
|  |                           | Notary Public   |
| My Commission Expires:   |                           | •   |

| STATE OF   | )                         | cc                      |  |
|--|---------------------------|-------------------------|--|
| COUNTY OF  | )                         | SS.                     |  |
| be the same person whose na<br>before me this day in person a<br>the said instrument as his/her<br>set forth.      | ame<br>nd<br>free<br>DF,  | e is s<br>ackr<br>e and | , a Notary Public in and for the y certify that Bo Miao, personally known to me to subscribed to the foregoing instrument, appeared nowledged that (s)he signed, sealed and delivered d voluntary act for the uses and purposes therein ve hereunto set my hand and Notarial Seal, this, 2016. |
|  |                           |                         | Notary Public  |
| My Commission Expires:   |                           |                         |  |
| STATE OF COUNTY OF   | )                         | SS.                     |  |
| me to be the same person vappeared before me this day in delivered the said instrument purposes therein set forth. | vho<br>n pe<br>t a<br>DF, | se rersor<br>s his      | , a Notary Public in and for the y certify that Cham Hong Po, personally known to name is subscribed to the foregoing instrument, and acknowledged that (s)he signed, sealed and s/her free and voluntary act for the uses and ve hereunto set my hand and Notarial Seal, this, 2016.          |
|  |                           |                         | Notary Public  |
| My Commission Expires:   |                           |                         |  |

| STATE OF  | )<br>) ss.   |  |
|---|--|--|
| COUNTY OF   | ) 55.  |  |
| I, Lelson   | YAOTIA   | AN ZHANG , a Notary Public in and for the  |
| me to be the same person wappeared before me this day in delivered the said instrument purposes therein set forth.                  | rhose nam<br>person ar<br>as his/he<br>F, I have   | certify that Yaotian Zhang, personally known to<br>me is subscribed to the foregoing instrument,<br>and acknowledged that (s)he signed, sealed and<br>her free and voluntary act for the uses and<br>hereunto set my hand and Notarial Seal, this                                |
|   |  | Notary Public  |
| My Commission Expires:  |  |  |
| STATE OF  | )  |  |
| COUNTY OF   | ) ss.<br>)   |  |
| known to me to be the same<br>instrument, appeared before me<br>sealed and delivered the said if<br>and purposes therein set forth. | e person<br>e this day i<br>nstrument<br>F, I have | , a Notary Public in and for the by certify that Panagiotis Xythalis, personally whose name is subscribed to the foregoing in person and acknowledged that (s)he signed, it as his/her free and voluntary act for the uses hereunto set my hand and Notarial Seal, this _, 2016. |
|   |  | Notary Public  |
| My Commission Expires:  |  |  |

| STATE OF  | )  |
|---|--|
| COUNTY OF   | ) ss.<br>)   |
| to me to be the same person vappeared before me this day in delivered the said instrument purposes therein set forth. | , a Notary Public in and for the hereby certify that Matthew Morano, personally known whose name is subscribed to the foregoing instrument, person and acknowledged that (s)he signed, sealed and as his/her free and voluntary act for the uses and, I have hereunto set my hand and Notarial Seal, this, 2016. |
|   | Notary Public  |
| My Commission Expires   |  |

**RECORDED: 09/11/2020**