

**PATENT ASSIGNMENT**

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 Stylesheet Version v1.1

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| <b>SUBMISSION TYPE:</b>  | NEW ASSIGNMENT                     |
| <b>NATURE OF CONVEYANCE:</b>   | ASSIGNMENT                         |
| <b>CONVEYING PARTY DATA</b>  |                                    |
| <b>Name</b>  | <b>Execution Date</b>              |
| Lime Brokerage Holding LLC   | 04/21/2011                         |
| <b>RECEIVING PARTY DATA</b>  |                                    |
| <b>Name:</b>   | Lime Brokerage LLC                 |
| <b>Street Address:</b>   | 271 Waverly Oaks Road, Suite 400   |
| <b>City:</b>   | Waltham                            |
| <b>State/Country:</b>  | MASSACHUSETTS                      |
| <b>Postal Code:</b>  | 02452                              |
| <b>PROPERTY NUMBERS Total: 7</b>   |                                    |
| <b>Property Type</b>   | <b>Number</b>                      |
| Application Number:  | 12706579                           |
| Application Number:  | 12829742                           |
| Application Number:  | 12829583                           |
| Application Number:  | 12982317                           |
| PCT Number:  | US1121370                          |
| Application Number:  | 13087906                           |
| PCT Number:  | US1133335                          |
| <b>CORRESPONDENCE DATA</b>   |                                    |
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| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> |                                    |
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| <b>Correspondent Name:</b>   | George J. Jakobsche                |
| <b>Address Line 1:</b>   | 125 Summer Street                  |
| <b>Address Line 2:</b>   | Sunstein Kann Murphy & Timbers LLP |
| <b>Address Line 4:</b>   | Boston, MASSACHUSETTS 02110-1618   |

**CH \$280.00 12706579**

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|--|---------------------|
| ATTORNEY DOCKET NUMBER:  | 3538/001            |
| NAME OF SUBMITTER:   | George J. Jakobsche |
| Total Attachments: 3<br>source=rd3538_001_az#page1.tif<br>source=rd3538_001_az#page2.tif<br>source=rd3538_001_az#page3.tif |                     |

## PATENT ASSIGNMENT

WHEREAS, Lime Brokerage Holding LLC (hereinafter "Assignor"), a Delaware limited liability company, having a place of business at 625 Broadway, 12th Floor, New York, NY 10012, is the owner of the inventions disclosed in the United States patent applications and United States patents on the schedule attached hereto and incorporated herein by reference as Exhibit A and in and to such patent applications and such patents;

WHEREAS, Lime Brokerage LLC (hereinafter "Assignee"), a Delaware limited liability company, having a place of business at 271 Waverly Oaks Road, Suite 400, Waltham, MA 02452, is desirous of acquiring the entire right, title and interest in and to such inventions, patent applications and patents;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does hereby sell, assign and transfer to Assignee, its successors and assigns, its entire right, title and interest in and to such inventions, such patent applications and such patents and any patents, and any reissues and extensions thereof, which issue or have issued in any country upon patent applications which correspond with any of such applications or patents or any divisional, continuation-in-whole, or continuation-in-part thereof, including the right to sue and collect for past infringement; the same to be held and enjoyed by Assignee for its own use, and for the use of its legal representatives, to the full term for which such patents have been granted as fully and entirely as the same would have been held by Assignor had this assignment not been made.

Assignor does hereby further covenant and agree that it will not execute any writing or do any act whatsoever conflicting with these presents, and that Assignor, its successors and assigns, will at any time upon request without further additional consideration, but at the expense of Assignee, its successors and assigns, execute such additional writings and do such additional acts as Assignee, its successors and assigns, may determine as necessary or desirable in

the enjoyment of this grant, and in any proceedings or transactions involving such inventions, patent applications or patents.

IN WITNESS WHEREOF, Assignor has caused this Patent Assignment to be executed as of the date indicated below.

Lime Brokerage Holding LLC  
625 Broadway  
12th Floor  
New York, NY 10012

By: *Michael Richter*  
Name: Michael Richter  
Title: Chief Financial Officer

Date: 21 April 2011

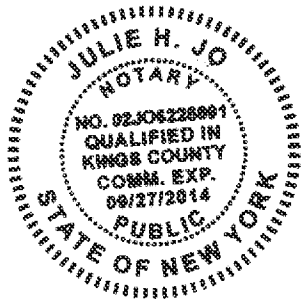
**CERTIFICATE OF ACKNOWLEDGMENT**

STATE OF New York  
COUNTY OF Kings

Before me, the undersigned, a Notary Public in and for the county aforesaid, on this 21 day of April, 2011, Michael Richter personally appeared and who being by me duly sworn, deposes and says that he is the Chief Financial Officer of Lime Brokerage Holding LLC and that he is authorized to sign and has signed the foregoing instrument as Chief Financial Officer and that he acknowledges such signing to be the free act and deed of Lime Brokerage Holding LLC.

*Julie H. Jo*  
Notary Public

My Commission Expires:



**EXHIBIT A**

| <b>Attorney<br/>Docket No.</b> | <b>Appl. No.</b> | <b>Date Filed</b> | <b>Reel/Frame</b>          | <b>Date of<br/>Assignment<br/>Recordal</b> | <b>Inventor(s)</b>      | <b>Title of Invention</b>  |
|--------------------------------|------------------|-------------------|----------------------------|--|-------------------------|--|
| 3538/103                       | 12/706,579       | 2/16/2010         | 024099/0758                | 3/18/2010                                  | Lemaire, <i>et al.</i>  | Rate-Adaptive Bundling of Data in a Packetized Communication System                    |
| 3538/105                       | 12/829,742       | 7/2/2010          | 025452/0448<br>025605/0393 | 12/6/2010<br>12/28/2010                    | Lavoie, <i>et al.</i>   | Brokerage Transaction Server and Method Using Encapsulated Messages                    |
| 3538/106                       | 12/829,583       | 7/2/2010          | 024656/0847                | 7/9/2010                                   | Lavoie, <i>et al.</i>   | Brokerage Transaction Server and Method Using Encapsulated Messages                    |
| 3538/107                       | 12/982,317       | 12/30/2010        | 026154/0499                | 4/20/2011                                  | Vinokour, <i>et al.</i> | Trading Order Validation System and Method and High-Performance Trading Data Interface |
| 3538/107WO                     | PCT/US11/21370   | 1/14/2011         | 026154/0499                | 4/20/2011 <sup>1</sup>                     | Vinokour, <i>et al.</i> | Trading order Validation System and Method and High-Performance Trading Data Interface |
| 3538/108                       | 13/087,906       | 4/15/2011         | 026154/0499                | 4/20/2011                                  | Vinokour, <i>et al.</i> | High-Performance Trading Data Interface and Trading Data Distribution Protocol         |
| 3538/108WO                     | PCT/US11/33335   | 4/21/2011         | 026154/0499                | 4/20/2011 <sup>2</sup>                     | Vinokour, <i>et al.</i> | High-Performance Trading Data Interface and Trading Data Distribution Protocol         |

<sup>1</sup> See assignment of U.S. Pat. Appl. No. 12/982,317.

<sup>2</sup> See assignment of U.S. Pat. Appl. No. 12/982,317.