

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| | |
| Name | Execution Date |
| RUPERT WARMINGTON | 10/06/2016 |
| IAN STOCKS | 10/06/2016 |
| JAMES W. DALE | 09/14/2016 |
| RECEIVING PARTY DATA | |
| Name: | TRADEWEB MARKETS LLC. |
| Street Address: | 1177 AVENUE OF THE AMERICAS |
| City: | NEW YORK |
| State/Country: | NEW YORK |
| Postal Code: | 10036 |
| PROPERTY NUMBERS Total: 4 | |
| Property Type | Number |
| Application Number: | 15006331 |
| Application Number: | 14215992 |
| Application Number: | 61791209 |
| PCT Number: | US2014030369 |
| CORRESPONDENCE DATA | |
| Fax Number: | (212)806-6006 |
| <i>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.</i> | |
| Phone: | 2128065400 |
| Email: | rdorazio@stroock.com |
| Correspondent Name: | STROOCK & STROOCK & LAVAN, LLP. |
| Address Line 1: | 180 MAIDEN LANE |
| Address Line 4: | NEW YORK, NEW YORK 10038 |
| ATTORNEY DOCKET NUMBER: | 649087/0053CON |
| NAME OF SUBMITTER: | JEFFREY MANN |
| SIGNATURE: | /JEFFREY MANN/ |
| DATE SIGNED: | 10/06/2016 |
| Total Attachments: 3 | |

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ASSIGNMENT

WHEREAS, We, **Rupert Warmington**, a citizen of the United Kingdom, having a correspondence address of Loxwood Hall East, Loxwood, Billingshurst, West Sussex RH14 0QP; **Ian Stocks**, a citizen of the United States, having a correspondence address of 68 Brookfield Road, Montclair, NJ, 07043, United States; and **James W. Dale**, having a correspondence address of 60 Weston Park, Thames Ditton, London, KT7 0HL, United Kingdom; hereinafter collectively referred to as **ASSIGNORS**, have invented certain new and useful improvements in **SYSTEM AND METHOD FOR FINANCIAL MATCHING**, for which we filed U.S. Patent Application Serial No. 15/006,331 on January 26, 2016, which is a continuation of U.S. Patent Application No. 14/215,992 filed on March 17, 2014, and we filed International Application No. PCT/US2014/30369, on March 17, 2014, all of which claims the benefit of U.S. Provisional Patent Application No. 61/791,209 filed on March 15, 2013.

WHEREAS, **TRADEWEB MARKETS LLC**, a corporation, having its principal place of business at 1177 Avenue of the Americas, New York, NY 10036, United States, hereinafter referred to as **ASSIGNEE**, is desirous of obtaining the entire right, title and interest in, to and under the improvements and the application in the United States;

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the **ASSIGNORS**, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the **ASSIGNEE**, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the Patents, all improvements therein, and the application thereof and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be or have been granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which have been or may hereafter be filed for the improvements in any country or countries, including or foreign to the United States, and all Letters Patent which may be or have been granted for the improvements in any country or countries, including or foreign to the United States and all extensions, renewals and reissues thereof; and **ASSIGNORS** hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for the improvements to the **ASSIGNEE**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY 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 in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the **ASSIGNEE**, its successors, legal representatives and assigns, any facts known to me respecting the improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the **ASSIGNEE**, its successors, legal representatives

and assigns, to obtain and enforce proper patent protection for the improvements in the United States.

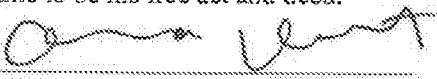
IN TESTIMONY WHEREOF, we have set our hand and seal to this Assignment.

6 October, 2016



Rupert Warmington

On this 6th day of October, 2016 before me, a Solicitor and Commissioner for Oaths, personally appeared Rupert Warmington to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Solicitor and Commissioner for Oaths
EMMA WRIGHT

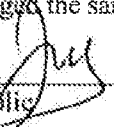
October 6th, 2016



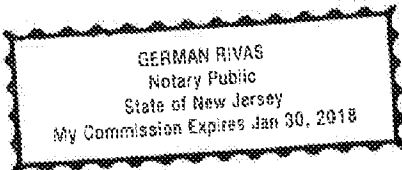
Ian Stocks

State of New Jersey
)ss.:
County of Hudson

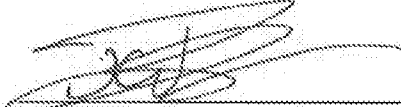
On this 6th day of October, 2016 before me, a Notary Public in and for the State and County aforesaid, personally appeared Ian Stocks to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



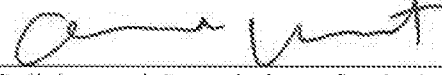
Notary Public



19/9 /2016


James W. Dale

On this 19 day of September, 2016 before me, a Solicitor and Commissioner for Oaths, personally appeared James W. Dale to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.


Solicitor and Commissioner for Oaths
EMMA WRIGHT