

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5440759

|   |   |
|---|---|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT  |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT  |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>   |
| JAMES A. A. O'HAGAN   | 11/29/2010  |
| BRIAN ANDREYKO  | 11/29/2010  |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | ICAP SERVICES NORTH AMERICA LLC   |
| <b>Street Address:</b>  | HARBORSIDE FINANCIAL CENTER, 1100 PLAZA FIVE  |
| <b>City:</b>  | JERSEY CITY   |
| <b>State/Country:</b>   | NEW JERSEY  |
| <b>Postal Code:</b>   | 07311   |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>   |
| <b>Application Number:</b>  | 13212524  |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  |   |
| <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> |   |
| <b>Phone:</b>   | 213.443.7506  |
| <b>Email:</b>   | daniel.wityak@arentfox.com, patentdocket@arentfox.com,<br>michelle.marsh@cmegroup.com |
| <b>Correspondent Name:</b>  | ARENT FOX LLP   |
| <b>Address Line 1:</b>  | 555 WEST FIFTH STREET, 48TH FLOOR   |
| <b>Address Line 4:</b>  | LOS ANGELES, CALIFORNIA 90013   |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 036453.00725  |
| <b>NAME OF SUBMITTER:</b>   | DANIEL WITYAK   |
| <b>SIGNATURE:</b>   | /Daniel Wityak/   |
| <b>DATE SIGNED:</b>   | 03/26/2019  |
| <b>Total Attachments: 1</b>   |   |
| source=Assignment1#page1.tif  |   |

PROVISIONAL PATENT APPLICATION ASSIGNMENT

Provisional Application Number: 61/375,352

Title of Invention: ANONYMOUS TRADING SYSTEM

Application Filing Date: August 20, 2010

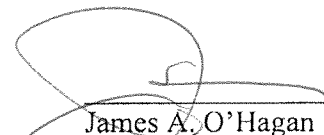
File Number: E3331.0717

WHEREAS, I (we), James A. O'Hagan and Brian Andreyko, as assignor(s), have invented an improvement in ANONYMOUS TRADING SYSTEM which is described in the above-identified provisional application for patent in the United States; and


WHEREAS, ICAP Services North America LLC., having a place of business at Harborside Financial Center 1100, Plaza 5, Jersey City, New Jersey 07311, U.S.A., as assignee, is desirous of acquiring all rights, title and interests in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I (we), as assignor(s), hereby sell, assign, transfer and set over to said assignee all of my (our) rights, title and interest in the United States and all other countries in and to said invention and to said provisional application for patent and any applied for or granted U.S. or foreign application (filed under any International Agreement, Treaty or Convention for the protection of Intellectual Property) claiming priority to said provisional application including, without limitation, all original (first filed, divisional or continuation), reexamination and extensions thereof, substitute or reissue applications and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for ourselves and our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all regular, divisional, continuation, reissue and other applications for Patent on said invention and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said invention, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.

Date: 29/11/10

  
James A. O'Hagan

Date: 29/11/10

  
Brian Andreyko

DOCSNY-441649v1