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J.S. DEPARTMENT	OF COMMERCE
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Attorney Docket No.: 102636.57982US

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To the Director of the U.S. Pa	tent and Trademark Office: Please	record the attached documents or the new address(es) below.
Name of conveying party(R. Raymond M	lay	2. Name and address of receiving party(ies) Name: ICAP Services North America LLC
Execution Date(s) 09/21/20 Additional name(s) of conveying par		Street Address: Harborside Financial Center 1100 Plaza Five Jersey City, New Jersey 07311
3. Nature of conveyance: Assignment Security Agreement Government Interest Assig Executive Order 9424, Cor Other		Additional name(s) & address(es) attached? Yes No
4. Application number(s) or	patent number(s): This	document is being filed together with a new application.
A. Patent Application No.(s)		B. Patent Registration No.(s)
11/40	2,466	
	Additional number(s) atta	ached? Yes No
5. Name and address of par correspondence concern		6. Total number of applications and patents involved 1
correspondence concern mailed: Name: Crowell & Moring LL Street Address: Intellectual PO Box 143	ing document should be P Property Group	involved 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
correspondence concern mailed: Name: Crowell & Moring LL Street Address: Intellectual PO Box 143	ing document should be P Property Group	involved 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information
correspondence concern mailed: Name: Crowell & Moring LL Street Address: Intellectual PO Box 143	P Property Group 800 n, DC 20044-4300	involved 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
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correspondence concern mailed: Name: Crowell & Moring LL Street Address: Intellectual PO Box 143 Washington Phone Number: 202-624-256 Fax Number: 202-628-884	P Property Group 800 n, DC 20044-4300	involved 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 ☐ Authorized to be charged by credit card ☐ Authorized to be charged to deposit account ☐ Enclosed ☐ None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers 1007 Expiration Date 10/10
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PATENT REEL: 018353 FRAME: 0298

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by thete presents bereby sells and assigns, unto:

ICAP Services North America LLC Harborside Financial Center, 1100 Plaza Five Jersey City, New Jersey 07311

(hereinafter ASSIGNEE) all right, title and interest in and to his invention relating to: ...

Electronic Trading System and Method for Pricing Transactions to Account for Risk

in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in all countries through the world and through the Patent Cooperation Trouty and/or the European Patent Convention, as set forth in his United States Patent Application (check one):

> executed concurrently hetewith, executed on .

 $\overline{\mathbf{x}}$ Sarial No. 11/402,466, filed April 12, 2006.

and in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term of terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters patent to said ASSIGNER, its successors or assigns in accordance herowith;

Each of the undersigned warrants and opvenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful ouths, testify in any legal proceedings and perform all other lawful acts doamed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Potent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of CROWELL & MORING, L.L.P., or any partner thereof, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

FULL NAME(S) OPINVENTO

Signature: Inventor one: Citizen of

Roymond Ma

RECORDED: 09/28/2006

Dato: 21 SEP, 20

Note: Prime facio svidones of exeqution may optionally be obtained by execution of this document before a U.S. Consul, Notary Public, or before a local officer authorized to administer on he whose authority is proved by a certificate from a U.S. Consul.

PATENT

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