## 504697063 12/20/2017 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4743785

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
DANIEL R. FITZPATRICK		03/09/2007	
DANIEL GEOFFREY KRAMER 04/		04/11/2007	
JAMES WORDEN TOF	FEY		03/13/2007
RECEIVING PARTY D	ATA		
Name:	THOMSO	N FINANCIAL LLC	
Street Address:	195 BRO	195 BROADWAY	
City:	NEW YOF	NEW YORK	
State/Country:	NEW YOF	NEW YORK	
Postal Code:	10007		
PROPERTY NUMBERS	6 Total: 1		
Property Type		Number	
Application Number: 1324		2567	
Application Number:	13	3242567	
CORRESPONDENCE I Fax Number: <i>Correspondence will b</i>	DATA De sent to th provided; i sh TH CC NE	<i>he e-mail address first; if that is un</i> <i>if that is unsuccessful, it will be se</i> nannon.fritsche@thomsonreuters.cor HOMSON REUTERS GLOBAL RESC OMPANY EUHOFSTRASSE 1 340 BAAR, SWITZERLAND	ent via US Mail. n
CORRESPONDENCE I Fax Number: <i>Correspondence will &amp;</i> <i>using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4:	DATA De sent to the provided; i sh TH CC NE 63 UMBER:	he e-mail address first; if that is un if that is unsuccessful, it will be se annon.fritsche@thomsonreuters.cor HOMSON REUTERS GLOBAL RESC OMPANY EUHOFSTRASSE 1 840 BAAR, SWITZERLAND TRM-S&T_024_US2	ent via US Mail. n
CORRESPONDENCE I Fax Number: <i>Correspondence will L using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER:	DATA De sent to the provided; i sh TH CC NE 63 UMBER:	he e-mail address first; if that is un if that is unsuccessful, it will be se nannon.fritsche@thomsonreuters.cor HOMSON REUTERS GLOBAL RESC OMPANY EUHOFSTRASSE 1 840 BAAR, SWITZERLAND	ent via US Mail. n
CORRESPONDENCE I Fax Number: <i>Correspondence will L using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER:	DATA De sent to the provided; i sh TH CC NE 63 UMBER:	he e-mail address first; if that is un if that is unsuccessful, it will be se annon.fritsche@thomsonreuters.cor HOMSON REUTERS GLOBAL RESC OMPANY EUHOFSTRASSE 1 840 BAAR, SWITZERLAND TRM-S&T_024_US2	ent via US Mail. n
CORRESPONDENCE I Fax Number: <i>Correspondence will L using a fax number, if</i> Email: Correspondent Name: Address Line 1:	DATA De sent to the provided; i sh TH CC NE 63 UMBER:	he e-mail address first; if that is un if that is unsuccessful, it will be se annon.fritsche@thomsonreuters.cor HOMSON REUTERS GLOBAL RESC OMPANY EUHOFSTRASSE 1 340 BAAR, SWITZERLAND TRM-S&T_024_US2 SHANNON FRITSCHE	ent via US Mail. n

source=TRM-ST\_024\_us1 - Fitzpatrick, Kramer and Toffey to Financial#page5.tif source=TRM-ST\_024\_us1 - Fitzpatrick, Kramer and Toffey to Financial#page6.tif

SCHWEGMAN, LUNDBERG, WOES

@002/007

## RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 1962.010US1	Patent and Trademark	Offic
To the Director of the U.S. Patent and Trademark Office: Ple	rase record the attached original documents or coast there	of
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):	<u>vı.</u>
Daniel R. Fitzpatrick, Daniel Geoffrey Kramer and James	Name: Thomson Financial LLC	
Worden Toffey	Street Address: 195 Broadway	
Additional name(s) of conveying party(ies) attached?	City: New York State: NY Zip: 10007	
[ ]Yes [X]No	Additional name(s) & address(es) attached? []Yes [	` <b>V</b> ]NI
3. Nature of conveyance:		โระไรส
[X] Assignment [] Merger		
[] Security Agreement [] Change of Name		
[] Other		
Exception Date: March 9, 2007, April 11, 2007, March		
13, 2007		
<ol><li>Application number(s) or patent number(s);</li></ol>		
If this document is being filed together with a new application	a, the execution date of the application is:	
A. Patent Application No.(s)	B. Patent No.(s)	
Serial No. 60/721,747, filed September 29, 2005 Serial No. 11/540,501, filed September 29, 2006		
Serial No. PCT/US2006/037857 filed September 29, 2006	2006	
Additional numbers attached? []Yes [X]No 5. Name and address of party to whom correspondence	6. Total number of applications and patents involve	
concerning document should be mailed:	7. Total fee (37 CFR 3.41):\$-49-09 /20.00	i Zst
Name: <u>Eduardo E. Drake</u>	[]Enclosed	
Address:	[X]Authorized to be charged to deposit accou	int
Schwegman, Lundberg, Woessner & Khith, P.A. P.O. Box 2938	19-0743	
Minneapolis, MN 55402-0938	<ol> <li>Please charge any additional fees or credit any or payments to our Deposit Account No.: 19-0743</li> </ol>	ver
	payments to our explosit Account No.: 19-0745	
DO NOT USE	THIS SPACE	
. Statement and signature.		
To the best of my knowledge and belief, the foregoing inform of the original document.	ation is true and correct and any attached copy is a true of	ору
Eduardo E. Drake/Rcg. No. 40,594	Att 1 25 dl. 2001	•
Jame of Person Signing	Sighature Date	
Tota	I number of pages including cover sheet: 6	
fail documents to be recorded with required cover sheet infor	A CONTRACTOR OF A CONTRACTOR O	
Commissioner of Patents and Trademarks fail Stop Assignment Recordation Services		
2.O. Box 1450 Alexandria, VA 22313-1450		
	PATENT	
700326761	REEL: 019350 FRAME: 010	8

## ASSIGNMENT

WHEREAS, We, <u>Daniel R. Fitzpatrick</u>, residing at <u>51 Parkview Terrace</u>, <u>Summit, NI</u> <u>07901</u>, and <u>Daniel Geoffrey Kramer</u>, residing at <u>3 Pinewood Road</u>, <u>Manchester</u>, <u>MA 01944</u>, and <u>Robert Manuel Moitoso</u>, residing at <u>55 Upland Road</u>, <u>Marshfield</u>, <u>MA 02050</u>, and <u>James Worden</u> <u>Toffey</u>, residing at <u>30 Pembroke Road</u>, <u>Summit</u>, <u>NJ 07901</u>, made certain new and useful inventions and improvements for which a US Provisional Patent Application was filed on <u>September 29, 2005</u> under application no. <u>60/721,747</u> entitled <u>FINANCIAL-INFORMATION</u> <u>SYSTEMS</u>, <u>METHODS</u>, <u>INTERFACES</u>, <u>AND SOFTWARE</u>: and for which a U.S. Patent Application was filed on <u>September 29, 2006</u>, which application was assigned U.S. patent application serial number <u>11/540,501</u>, and is entitled <u>IOI-BASED BLOCK TRADING</u> <u>SYSTEMS</u>, <u>METHODS</u>, <u>INTERFACES</u>, <u>AND SOFTWARE</u>; and for which an international patent application was filed on <u>September 29, 2006</u> which application was assigned international application number <u>PCT/US2006/037857</u> which is entitled <u>IOI-BASED BLOCK</u> <u>TRADING SYSTEMS AND METHODS</u>;

AND WHEREAS, <u>Thomson Financial LLC</u>, a corporation organized and existing under and by virtue of the laws of the State of <u>Delaware</u>, and having an office and place of business at <u>195 Broadway</u>, <u>New York</u>, <u>NY 10007</u> (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignce as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

> PATENT REEL: 019350 FRAME: 0109

SCHWEGMAN, LUNDBERG, WOES

@004/007 \_

Docket No: 1962.010US1
Serial Number : 11/540,501
Filing Date : September 29, 2006
Pare 2 of 5

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have have , 2007.	hereunto set my hand this $2^{4}$ day of
2	1At -
01 1	Dauiel R. Fitzpatrick
STATE OF New Terry	
)35	
COUNTY OF HUDSON	
On this 9th day of March	2007 before me personally appeared <u>Daniel R.</u>
Fitzpatrick, to me known and known to me to be th	e person described in and who executed the foregoing
instrument, and he/she duly acknowledged to me th	at he/she executed the same for the uses and purposes
therein set forth.	
	$\sim$ $\sim$

[SEAL]

Netary Public

. . **. .** .

PATENT REEL: 019350 FRAME: 0110

Ø 005/007

Docket No: 1962.010051 Scrial Number : 11/540,501 Filing Date : September 29, 2006 Page 3 of 5

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_\_\_

STATE OF Massachusette )ss COUNTY OF

Daniel G. Kramer

On this <u>//</u>\_\_\_\_\_ day of <u>\_\_\_\_\_\_</u>, 2007 before me personally appeared <u>Daniel G.</u> <u>Kramer</u>, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

PATENT REEL: 019350 FRAME: 0111

@008/007 \_\_\_\_

.

	· .		
IN TESTIM	ONY WHEREOF, 1 ha	ve hercunto set my hand this day of	
	<b>_, 20</b> 07.	· · · · · · · · · · · · · · · · · · ·	
			92 - 32 · . •
STATE OF		Robert M. Moitoso	
	)\$5		
COUNTY OF	)		
On this	day of		
Accession of the second s		, 2007 before me personally appeared Rob	<u>ert M.</u>
Moitoso, to me known an	d known to me to be th	, 2007 before me personally appeared Rob e person described in and who executed the fo	Proning
<u>Moitoso,</u> to me known an instrument, and he/she du	d known to me to be th	2007 before me personally appeared <u>Rob</u> e person described in and who executed the fo that he/she executed the same for the uses an	Proning
Moitoso, to me known an	d known to me to be th	e person described in and who executed the fo	Proning
<u>Moitoso,</u> to me known an instrument, and he/she du	d known to me to be th	e person described in and who executed the fo	Proning
<u>Moitoso,</u> to me known an instrument, and he/she du	d known to me to be th	e person described in and who executed the fo	Proning
Maitoso, to me known an instrument, and he/she du therein set forth.	d known to me to be th	e person described in and who executed the for that he/she executed the same for the uses and	Proning
Maitoso, to me known an instrument, and he/she du therein set forth.	d known to me to be th	e person described in and who executed the fo	Proning
Maitoso, to me known an instrument, and he/she du therein set forth.	d known to me to be th	e person described in and who executed the for that he/she executed the same for the uses and	Proning
Maitoso, to me known an instrument, and he/she du therein set forth.	d known to me to be th	e person described in and who executed the for that he/she executed the same for the uses and	Proning
Maitoso, to me known an instrument, and he/she du therein set forth.	d known to me to be th	e person described in and who executed the for that he/she executed the same for the uses and	Proning
Maitoso, to me known an instrument, and he/she du therein set forth.	d known to me to be th	e person described in and who executed the for that he/she executed the same for the uses and	Proning
Maitoso, to me known an instrument, and he/she du therein set forth.	d known to me to be th ly acknowledged to me	e person described in and who executed the fo that he/she executed the same for the uses and Notary Public	Proning
Maitoso, to me known an instrument, and he/she du therein set forth.	d known to me to be th ly acknowledged to me	e person described in and who executed the for that he/she executed the same for the uses and	Proning

PATENT REEL: 019350 FRAME: 0112

٠,

2007/007

Docket No: 1962,010US1	
Serial Number : 11/540,50	1
Filing Date : September 29	
Page 5 of 5	,

IN TESTIMONY WHEREOF, I ha	we here unto set my hand this $13^{1/2}$ day of
STATE OF New Terrey )SS COUNTY OF Nudson	James W. Toffey
On this 13th day of March	, 2007 before me personally appeared lames W.
instrument, and he/she duly acknowledged to me	person described in and who executed the foregoing that he/she executed the same for the uses and purposes
therein set forth.	that has she executed the same for the uses and purposes
[SEAL]	- D L Elframar
000000000000000000000000000000000000000	Notary Fastic Dorg las FASEDMAN
	Attorney at Can State of New Terrey

PATENT REEL: 019350 FRAME: 0113

PATENT REEL: 044447 FRAME: 0788

RECORDED: 05/25/2007

RECORDED: 12/20/2017