Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Joel C. Hodes	01/26/2006
John A. Roberts	02/26/2007

RECEIVING PARTY DATA

Name:	Morgan Stanley
Street Address:	1585 Broadway
City:	New York
State/Country:	NEW YORK
Postal Code:	10036

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10865046

CORRESPONDENCE DATA

Fax Number: (412)355-6501

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 412 355-8994

Email: patents@klng.com

Correspondent Name: Michael D. Lazzara

Address Line 1: 535 Smithfield Street

Address Line 2: Henry W. Oliver Building

Address Line 4: Pittsburgh, PENNSYLVANIA 15222-2312

ATTORNEY DOCKET NUMBER:	030346
NAME OF SUBMITTER:	Michael D. Lazzara

Total Attachments: 6

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ASSIGNMENT OF APPLICATION FOR PATENT

(JOINT INVENTORS)

WHE	REAS:
Joel C	C. Hodes residing at 77 Park Avenue, Apt. 36, New York, NY 10016, a citizen of the USA
John .	A. Roberts residing at 24 Trevor Lake Drive, Congers, NY 10920, a citizen of the USA
(full r	names and residential addresses of inventors (including countries of citizenship))
(herei	nafter referred to as ASSIGNORS), have made an invention or discovery entitled:
	STMENT METHODS AND SYSTEMS FOR USE IN ASSOCIATION WITH A PAIRS TRADING STRATEGY of invention or discovery)
	for which application for Letters Patent of the United States has been executed on even date herewith, and
	for which application for Letters Patent of the United States has been filed on <u>June 10, 2004</u> , under <u>Serial No. 10/865,046</u> and
WHE	REAS:
ASSĪ	an Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter referred to as GNEE), is desirous of acquiring the entire right, title and interest in, to and under said invention or discovery, at to and under said United States application, and in, to and under Letters Patent or similar legal protection to

NOW, THEREFORE:

thereof heretofore acquired by ASSIGNEE.

In consideration of the payment by ASSIGNEE to each of ASSIGNORS of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer to and confirm in ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said invention or discovery in the United States and its territorial possessions and in all foreign countries; and to said United States application and any and all other applications on said invention or discovery in whatsoever countries, including any continuations, divisions, substitutes or renewals; and to all Letters Patent, and all reissues, re-examinations, and extensions thereof, or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention or discovery or upon said applications or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and every priority right that is or may be predicated upon or arise from said invention or discovery, said applications and said Letters Patent,

be granted thereon in the United States and in any and all foreign countries, and of confirming the same or any part

WE, SAID ASSIGNORS, hereby authorize and request the Director of the United States Patent and Trademark Office, the Commissioner for Patents of the United States of America, any other United States Official, and/or any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue or transfer all such Letters Patent for said invention or discovery to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

PI-1176228 v1 0806995-0104

WE, SAID ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest herein sold, assigned, transferred, set over and confirmed, and that we have not executed and will not execute any agreement in conflict herewith;

AND WE, SAID ASSIGNORS, hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for Letters Patent in any or all countries on said invention or discovery in our names or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, and may claim the benefits of the International Convention or otherwise claim priority rights;

AND WE, SAID ASSIGNORS, hereby further covenant that we will, at any time when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns: communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to us respecting said invention or discovery or the history thereof, including without limitation the furnishing of any and all documents, photographs, models, samples and other physical exhibits in our control which may be useful for establishing the facts of our conception, disclosures, and reduction to practice of said invention or discovery; execute and deliver to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any and all lawful papers that may be necessary or desirable to perfect the title to the said invention or discovery, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns; if reissues, re-examinations, or other like proceedings involving the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, we will sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation, re-examination and reissue applications so desired, and do all lawful acts requisite for the application for such reissues, re-examinations and the procuring thereof and for the filing of such disclaimers and such applications; and generally do everything possible, including testifying in any legal proceedings, signing all lawful papers and making all rightful oaths, to aid the ASSIGNEE, its successors, legal representatives and assigns. to obtain and enforce proper patent protection for said invention or discovery in all countries, and without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns,

IN WITNESS WHEREOF, I have hereunto affixed my signature on the date and year opposite my signature.

Assignor's Signature:			1/26/2006
-	Name		Date
Assignor's Typed	7-1	2	77 .
Name:	Joel First Name	C. Middle Initial	Hodes Last Name
Citizenship: US			
STATE OF) A ss.: COUNTY OF) W	sew York ew York		
On this 26 /c appeared 50 e described in and who ex the same as his/her own	ecuted the foregoing Assignme	2 606, before me, the und known and known ent, and who duly acknowle	dersigned authority, personally to me to be the individual who is dged to me that he/she executed
Notary Public	J. Hower	e/	

MARY J. HOLLOWELL Notary Public, State of New York No. 01HO6100211 Qualified in Kings County Commission Expires October 14, 2007

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Assignor's Signa	iture:	Name		D - 4 -	
		Name		Date	
Assignor's Type Name:	d	John	А.	Roberts	
		First Name	Middle Initial	Last Name	
Citizenship:					
STATE OF)				
COUNTY OF	ss.:)				
		day of			
		secuted the foregoing Assignme voluntary act and deed.	nt, and who duly acknowled	to me to be the individual who is iged to me that he/she executed	

Dockét No. 030346

ASSIGNMENT OF APPLICATION FOR PATENT (JOINT INVENTORS)

WHEREAS:	
Joel C, Hodes residing at 77 Park Avenue, Apt. 36, New York, NY 10016, a citizen of the USA	
John A. Roberts residing at 15 Astell Street. London, England SW3 3RT, a citizen of the United Kingdom	
(full names and residential addresses of inventors (including countries of citizenship))	
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled;	
INVESTMENT METHODS AND SYSTEMS FOR USE IN ASSOCIATION WITH A PAIRS TRADING STRATEG (title of invention or discovery)	Y
for which application for Letters Patent of the United States has been executed on even date herewith, and	
for which application for Letters Patent of the United States has been filed on <u>June 10, 2004</u> , under <u>Serial No. 10/865,046</u> and	
WHEREAS:	

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (bereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in, to and under said invention or discovery, and in, to and under said United States application, and in, to and under Letters Patent or similar legal protection to be granted thereon in the United States and in any and all foreign countries, and of confirming the same or any part thereof heretofore acquired by ASSIGNEE.

NOW, THEREFORE:

In consideration of the payment by ASSIGNEE to each of ASSIGNORS of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer to and confirm in ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said invention or discovery in the United States and its territorial possessions and in all foreign countries; and to said United States application and any and all other applications on said invention or discovery in whatsoever countries, including any continuations, divisions, substitutes or renewals; and to all Letters Patent, and all reissues, re-examinations, and extensions thereof, or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention or discovery or upon said applications or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and every priority right that is or may be predicated upon or arise from said invention or discovery, said applications and said Letters Patent,

WE, SAID ASSIGNORS, hereby authorize and request the Director of the United States Patent and Trademark Office, the Commissioner for Patents of the United States of America, any other United States Official, and/or any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue or transfer all such Letters Patent for said invention or discovery to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

Pt-1176228 vt 0806995-0104

Docket No. 030346

WE, SAID ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest herein sold, assigned, transferred, set over and confirmed, and that we have not executed and will not execute any agreement in conflict herewith;

AND WE, SAID ASSIGNORS, hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for Letters Patent in any or all countries on said invention or discovery in our names or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, and may claim the benefits of the International Convention or otherwise claim priority rights;

AND WE, SAID ASSIGNORS, hereby further covenant that we will, at any time when called upon to do so by the ASSIONEE, its successors, legal representatives, or assigns: communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to us respecting said invention or discovery or the history thereof, including without limitation the furnishing of any and all documents, photographs, models, samples and other physical exhibits in our control which may be useful for establishing the facts of our conception, disclosures, and reduction to practice of said invention or discovery; execute and deliver to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any and all lawful papers that may be necessary or desirable to perfect the title to the said invention or discovery, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns; if reissues, re-examinations, or other like proceedings involving the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, we will sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation, re-examination and reissue applications so desired, and do all lawful acts requisite for the application for such reissues, re-examinations and the procuring thereof and for the filing of such disclaimers and such applications; and generally do everything possible, including testifying in any legal proceedings, signing all lawful papers and making all rightful oaths, to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, and without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, I have hereunto affixed my signature on the date and year opposite my signature.

Assignor's Signature:						
-			Name		Date	
Assignor's Type Name:	ed	Joel		C.	Hodes	
		F	irst Name	Middle Initial	Last Name	
Citizenship:						
STATE OF)					
COUNTY OF	ss.:)					
On this		day of		, before me, the unc	dersigned authority, personally	
appeared	who ex	ecuted the for	egoing Assignme	ht, and who daily seknowle	to me to be the individual who is dged to me that he/she executed	
the same as his/l	ier own	voluntary act	and deed.	,	-0	
Notary Public						

Witness (Printed Name)

 $\mathcal{I}_{k}(\varphi) = \{ (1, \dots, p) \mid \varphi \in \mathcal{I} \}$

RECORDED: 04/26/2007

Docket No. 030346

IN WITNESS WHER	EOF, I have hereunto affixed my si	ignature on the date and y	ear opposite my signature.	
Assignor's Signature:	Holats Name	wertenderer M	26-04-07	
Assignor's Typed Name:	John	Α	Roberts	
	First Name	Middle Initial	Last Name	
Citizenship: United K	ingdom			
Witness (Signature)	Cles 26-04-07 Date			
SARAH HI	icks			

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