# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Robert Bradway	07/13/2005
Michael Tory	08/11/2005
Nicolas Turner	08/15/2005
Simon Smith	07/11/2005
Thomas Lefebvre	07/19/2005
Stuart Turner	07/12/2005
Wayne Woo	09/14/2005
David Rowland	07/20/2005
Ryan Yap	07/14/2005

#### **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:	11125442

## **CORRESPONDENCE DATA**

Fax Number: (412)355-6501

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

Phone: 412 355-8244
Email: patents@klng.com
Correspondent Name: Robert A. Muha
Address Line 1: 535 Smithfield Street
Address Line 2: Henry W. Oliver Building

PATENT REEL: 016594 FRAME: 0766

500052359

Address Line 4: Pittsburgh, PENNSYLVANIA 15222-2312

NAME OF SUBMITTER:

Robert A. Muha

Total Attachments: 63

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**PATENT** 

REEL: 016594 FRAME: 0767

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# (JOINT INVENTORS)

WHEREAS:
Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
Thomas Lefebvre residing at 22, rue Hoche, 92499, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a
citizen of the UK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
SYSTEMS AND METHODS FOR CONDUCTING AN INTERACTIVE FINANCIAL SIMULATION
(title 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 executed on even date herewith, an

for which application for Letters Patent of the United States has been filed on May 10, 2005, under Serial No. 11/125,442 and WHEREAS:

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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

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.

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 WHERE	OF, I have hereunto affixed my	signature on the date and ye	ar opposite my signature.
Assignor's Signature:	LobeRX. Gas	ulvæy	13-July-05 Date
	Name		Date
Assignor's Typed Name:	Robert		Bradway
	First Name	Middle Initial	Last Name
Citizenship: USA			
STATE OF )			
COUNTY OF )			
	day of,		
described in and who e	xecuted the foregoing Assignment voluntary act and deed.	nt, and who duly acknowled	lged to me that he/she executed
Notary Public			
IN WITNESS WHERE Assignor's Signature:	EOF, I have hereunto affixed my	signature on the date and ye	
	Name		Date
Assignor's Typed			
Name:	Michael		Tory
	First Name	Middle Initial	Last Name
Citizenship: Canada			
STATE OF ) ss.:			
COUNTY OF )			
On this	day of,	, before me, the und	ersigned authority, personally to me to be the individual who is dged to me that he/she executed
described in and who ethe same as his/her ow	executed the foregoing Assignment roluntary act and deed.	ent, and who duly acknowled	dged to me that he/she executed
Notary Public			

IN WITNESS WHERE	OF, I have hereunto affixed my	signature on the date and ye	ar opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Nicolas		Turner
Name.	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF ) ss.:			
COUNTY OF )			
On this	day of	, before me, the und	ersigned authority, personally to me to be the individual who is
described in and who e	executed the foregoing Assignment of the foregoing Assignm	ent, and who duly acknowled	iged to the that hershe executed
Notary Public			
IN WITNESS WHERI	EOF, I have hereunto affixed my	signature on the date and y	ear opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Simon		Smith
ivanic.	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF )			
COUNTY OF )			
On thisappeareddescribed in and who	day ofexecuted the foregoing Assignm	before me, the und , known and known , known and known ent, and who duly acknowle	dersigned authority, personally a to me to be the individual who is edged to me that he/she executed
the same as his/her ow	vn voluntary act and deed.		
Notary Public			

Assignor's Signature:	Name		Date
Assignor's Typed	Warma		Woo
Name:	Wayne First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF ) ss.:			
COUNTY OF )			
On this	day of,	before me, the under	ersigned authority, personally to me to be the individual who is
described in and who	executed the foregoing Assignment voluntary act and deed.	ent, and who duly acknowled	dged to me that he/she executed
the same as his/her ow	n volumely avvisue 2002		
Notary Public	EOF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
Notary Public		signature on the date and yo	ear opposite my signature. Date
Notary Public IN WITNESS WHER Assignor's Signature: Assignor's Typed	EOF, I have hereunto affixed my  Name	signature on the date and ye	Date
Notary Public IN WITNESS WHER Assignor's Signature: Assignor's Typed	EOF, I have hereunto affixed my	signature on the date and ye	
Notary Public IN WITNESS WHER Assignor's Signature: Assignor's Typed Name:	EOF, I have hereunto affixed my Name Thomas		Date Lefebvre
Notary Public  IN WITNESS WHER  Assignor's Signature:  Assignor's Typed  Name:  Citizenship: France  STATE OF	EOF, I have hereunto affixed my Name Thomas		Date Lefebvre
Notary Public IN WITNESS WHER Assignor's Signature: Assignor's Typed	EOF, I have hereunto affixed my Name Thomas		Date Lefebvre
Notary Public  IN WITNESS WHER  Assignor's Signature:  Assignor's Typed Name:  Citizenship: France  STATE OF ) ss.: COUNTY OF )	EOF, I have hereunto affixed my Name  Thomas  First Name	Middle Initial	Date Lefebvre

Assignor's Signature:	Name		Date
Assignor's Typed	Stuart		Turner
Name:	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF ) ss.:			
COUNTY OF )			
appeared	executed the foregoing Assignme	, known and known	to me to be the individual who is
the same as his/her ow	n voluntary act and deed.		
the same as his/her ow	n voluntary act and deed.		
the same as his/her ow Notary Public	EOF, I have hereunto affixed my	signature on the date and y	ear opposite my signature.
the same as his/her ow Notary Public		signature on the date and y	ear opposite my signature. Date
the same as his/her ow  Notary Public  IN WITNESS WHER	EOF, I have hereunto affixed my	signature on the date and y	
the same as his/her ow  Notary Public  IN WITNESS WHER  Assignor's Signature:  Assignor's Typed	EOF, I have hereunto affixed my  Name  David		Date Rowland
the same as his/her ow  Notary Public  IN WITNESS WHER  Assignor's Signature:  Assignor's Typed Name:  Citizenship: UK  STATE OF	EOF, I have hereunto affixed my  Name  David		Date Rowland
Notary Public  IN WITNESS WHER  Assignor's Signature:  Assignor's Typed  Name:  Citizenship: UK	EOF, I have hereunto affixed my  Name  David		Date Rowland

			Name		Date
Assignor's Typ	ed				
Name:		Ryan			Yap
			First Name	Middle Initial	Last Name
Citizenship: UI	ζ.				
STATE OF	)				
COUNTY OF	ss.: )				
On thisappeared		day of _		, before me, the under	ersigned authority, personally to me to be the individual who is
	l who ex	ecuted the	foregoing Assignme	ent and who duly acknowled	ged to me that he/she executed
the same as his	her our	voluntary of	oregoing Assigning	ent, and who duly acknowled	ged to me that ne/sne executed

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

# (JOINT INVENTORS)

W	H	ER	E.	4.5	₹:

Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
Thomas Lefebvre residing at 22, rue Hoche, 92499, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a citizen of the UK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
SYSTEMS AND METHODS FOR CONDUCTING AN INTERACTIVE FINANCIAL SIMULATION (title 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 May 10, 2005, under Serial No. 11/125,442 and WHEREAS:

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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

PI-1390644 v1 0806995-0163

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.

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 WHERE	EOF, I have hereunto affixed my	signature on the date and year	r opposite my signature.
Assignor's Signature:			
	Name		Date
Assignor's Typed Name:	Robert		Bradway
T (dillo)	First Name	Middle Initial	Last Name
Citizenship: USA			
STATE OF )			
COUNTY OF )			
On thisappeared	day of,	, before me, the under	rsigned authority, personally o me to be the individual who is
described in and who e	xecuted the foregoing Assignment to voluntary act and deed.	ent, and who duly acknowledg	ged to me that he/she executed
Notary Public			
IN WITNESS WHERE Assignor's Signature:	SOF, I have hereunto affixed my		r opposite my signature.
	Name	)	Date
Assignor's Typed Name:	Michael		Tory
ivaliie.	First Name	Middle Initial	Last Name
Citizenship: Canada			
STATE OF )			
COUNTY OF )			
On thisappeareddescribed in and who ex	day of	, before me, the under , known and known to	signed authority, personally me to be the individual who is ed to me that he/she executed
	voluntary act and deed.	,	
Notary Public			

Assignor's Signature:	Name		Date
A '			
Assignor's Typed Name:	Nicolas		Turner
Ivallie.	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF ) ss.:			
COUNTY OF )			
On thisappeared	day of,	, before me, the und	ersigned authority, personally to me to be the individual who is
described in and who e	xecuted the foregoing Assignment voluntary act and deed.		
are surrie as mounci and			
are same as morner owl	·		
Notary Public	OF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
Notary Public IN WITNESS WHERE		signature on the date and ye	ear opposite my signature.
Notary Public IN WITNESS WHERE		signature on the date and ye	ear opposite my signature. Date
Notary Public  IN WITNESS WHERE  Assignor's Signature:  Assignor's Typed	COF, I have hereunto affixed my	signature on the date and ye	Date
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Notary Public  IN WITNESS WHERE  Assignor's Signature:  Assignor's Typed  Name:	OF, I have hereunto affixed my s  Name  Simon		Date Smith
Notary Public  IN WITNESS WHERE  Assignor's Signature:	OF, I have hereunto affixed my s  Name  Simon		Date Smith
Notary Public  IN WITNESS WHERE Assignor's Signature: Assignor's Typed Name: Citizenship: UK	OF, I have hereunto affixed my s  Name  Simon		Date Smith
Notary Public  IN WITNESS WHERE Assignor's Signature: Assignor's Typed Name:  Citizenship: UK  STATE OF ) ss.: COUNTY OF )	Name  Simon  First Name	Middle Initial	Date Smith Last Name
Notary Public  IN WITNESS WHERE Assignor's Signature: Assignor's Typed Name:  Citizenship: UK  STATE OF ) ss.: COUNTY OF )	Name  Simon  First Name	Middle Initial	Date Smith

IN WITNESS WHEREOI	F, I have hereunto affixed my signa	iture on the date and year op	posite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Wayne First Name	Middle Initial	Woo Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
appeared	cuted the foregoing Assignment, an	, known and known to me	to be the individual who is
Notary Public  IN WITNESS WHEREOF  Assignor's Signature:	F, I have hereunto affixed my signa	ture on the date and year op	posite my signature.
Assignor's Typed Name:	Name  Thomas  First Name	Middle Initial	Date  Lefebvre  Last Name
Citizenship: France			
STATE OF ) ss.: COUNTY OF )			
On this appeared described in and who executhe same as his/her own vo	_day of,  suted the foregoing Assignment, an oluntary act and deed.	, before me, the undersign , known and known to me d who duly acknowledged t	ed authority, personally to be the individual who is o me that he/she executed

IN WITNESS W	VHEREC	OF, I have h	ereunto affixed n	ny signature oi	a the date and	year opposite my signature.
Assignor's Sign	ature:	***************************************	Name	**************************************		Date
Assignor's Type Name:	ed	Stuart	First Name	Mid	dle Initial	Turner Last Name
Citizenship: UK						
STATE OF	) ss.: )					
appeared	who exc	ecuted the f	oregoing Assignr	, kno	own and know	ndersigned authority, personally on to me to be the individual who is ledged to me that he/she executed
Notary Public				_		
IN WITNESS W	VHEREC	OF, I have h	ereunto affixed n	ny signature or	1 the date and	year opposite my signature.
Assignor's Signa	ature:		Name		-	Date
Assignor's Type Name:	ed	<u>David</u>	First Name	Mid	dle Initial	Rowland Last Name
Citizenship: UK						
STATE OF COUNTY OF	) ss.: )					
On thisappeareddescribed in and the same as his/h	who exe	day of ecuted the f voluntary a	oregoing Assignment and deed.	, , bef , kno nent, and who	ore me, the un own and know duly acknowle	ndersigned authority, personally on to me to be the individual who is edged to me that he/she executed

IN WITNESS W	/HEREO	F, I have he	ereunto affixed my signa	ture on the date and year op	pposite my signature.
Assignor's Signa	ature:		Name		Date
Assignor's Type Name:	d	Ryan			Yap
Citizenship: UK		F	First Name	Middle Initial	Last Name
STATE OF	) ss.:				
On this	who exe	cuted the fo	oregoing Assignment, an	, before me, the undersign _, known and known to me d who duly acknowledged t	to be the individual who is
Notary Public					

## (JOINT INVENTORS)

WHEREAS:
Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
Thomas Lefebvre residing at 22, rue Hoche, 92499, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a citizen of the UK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
CYCTEMS AND METHODS FOR CONDICTING AN INTERACTIVE FINANCIAL SIMIL ATION

(title 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 May 10, 2005, under

<u>Serial No. 11/125,442</u> and WHEREAS:

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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

PI-1390644 v1 0806995-0163

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.

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.

Assignor's Sign	іаппте:			
		Name	The second secon	Date
Assignor's Typ	ed			
Name:		Robert		Bradway
		First Name	Middle Initial	Last Name
Citizenship: US	A			
STATE OF	) ss.:			
COUNTY OF	)			
On thisappeared		day of	, before me, the und	ersigned authority, personally to me to be the individual who is
described in and	l who ex	ecuted the foregoing Assignr voluntary act and deed.	nent, and who duly acknowled	lged to me that he/she executed
Notary Public		***************************************	_	
			ny signature on the date and ye	
Assignor's Sign	ature:	DF, I have hereunto affixed m	ny signature on the date and ye	ear opposite my signature. Date
Assignor's Sign Assignor's Type	ature:	Name	ny signature on the date and ye	Date
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Assignor's Sign Assignor's Type Name:	ature:	Name <u>Michael</u>		Date Tory
Assignor's Sign Assignor's Type Name: Citizenship: Car	ature: ed nada	Name <u>Michael</u>		Date Tory
IN WITNESS V Assignor's Sign Assignor's Type Name: Citizenship: Car STATE OF COUNTY OF	ature:	Name <u>Michael</u>		Date Tory
Assignor's Sign Assignor's Type Name: Citizenship: Car STATE OF COUNTY OF On this	ature: ed nada ) ss.: )	Name  Michael  First Name  day of	Middle Initial  , before me, the under	Date Tory

IN WITNESS V	WHEREC	DF, I have hereunto affixed r	ny signature on the date and year o	opposite my signature.
Assignor's Sign	nature:	105		5 9/95
Assignor's Typ Name:	ed	Nicolas  First Name	Middle Initial	Date  Turner  Last Name
Citizenship: UK	Σ.			
STATE OF COUNTY OF	) ss.: )			
appeareddescribed in and	l who exe	day ofecuted the foregoing Assignated voluntary act and deed.	, before me, the undersign, known and known to ment, and who duly acknowledged	gned authority, personally ne to be the individual who is to me that he/she executed
Notary Public			_	
IN WITNESS V	WHEREC	F, I have hereunto affixed n	ny signature on the date and year o	opposite my signature.
Assignor's Sign	ature:	Name		Date
Assignor's Type Name:	ed	Simon First Name	Middle Initial	Smith Last Name
Citizenship: UK				
STATE OF COUNTY OF	) ss.: )			
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Notary Public			•	

	Name		Date
Assignor's Typed			
Name:	Wayne		Woo
	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF )			
COUNTY OF )			
On this	day of,	, before me, the und	ersigned authority, personally
appeared		, known and known	to me to be the individual who is dged to me that he/she executed
described in and who	executed the foregoing Assignme	ent, and who duly acknowled	dged to me that he/she executed
the same as his/her ow	n voluntary act and deed.		
Notary Public			
Notary Public			
•	EOF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
IN WITNESS WHERI	EOF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
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IN WITNESS WHERI Assignor's Signature: Assignor's Typed Name:	Name Thomas		Date Lefebvre
IN WITNESS WHERI Assignor's Signature: Assignor's Typed Name: Citizenship: France	Name Thomas		Date Lefebvre
IN WITNESS WHERI Assignor's Signature: Assignor's Typed Name: Citizenship: France STATE OF ss.:	Name Thomas		Date Lefebvre
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IN WITNESS WHERD Assignor's Signature: Assignor's Typed Name: Citizenship: France STATE OF ) ss.: COUNTY OF )	Name  Thomas  First Name	Middle Initial	Date Lefebvre

Assignor's Signatu		Name		Date
Assignor's Typed				
Name:	Stuart	**************************************		Turner
		First Name	Middle Initial	Last Name
Citizenship: UK				
STATE OF )				
COUNTY OF )	s.:			
On this	day of		, before me, the und	ersigned authority, personally
appeared			, known and known	to me to be the individual who is
described in and with the same as his/her	no executed the own voluntary	foregoing Assignment act and deed.	ent, and who duly acknowled	lged to me that he/she executed
Notary Public		***************************************		
·	EREOF, I have	hereunto affixed my	signature on the date and ye	ear opposite my signature.
·		hereunto affixed my	signature on the date and ye	ear opposite my signature.
IN WITNESS WH		hereunto affixed my Name	signature on the date and ye	ear opposite my signature. Date
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IN WITNESS WHI Assignor's Signatur Assignor's Typed	re:	Name		Date Rowland
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IN WITNESS WHITAGE Assignor's Signatur Assignor's Typed Name: Citizenship: UK STATE OF	re:	Name		Date Rowland
IN WITNESS WHITALE Assignor's Signature Assignor's Typed Name:  Citizenship: UK  STATE OF )  SS  COUNTY OF )	David_	Name First Name	Middle Initial	Date  Rowland  Last Name
IN WITNESS WHITALE Assignor's Signature Assignor's Typed Name:  Citizenship: UK  STATE OF )  SS  COUNTY OF )	David_	Name First Name	Middle Initial	Date Rowland

IN WITNESS V	VHEREC	F, I have he	ereunto affixed m	ny signatu	re on the date and y	year opposite my signature.
Assignor's Sign	ature:	<u></u>	Name	· · · · · · · · · · · · · · · · · · ·		Date
Assignor's Type Name:	ed	Ryan		NY TYY 'NY Y WARANGAMANANANANANANANANANANANANANANANANANA		Yap
		I	irst Name		Middle Initial	Last Name
Citizenship: UK						
STATE OF	) ss.:					
COUNTY OF	)					
appeared				· · · · · · · · · · · · · · · · · · ·	known and known	dersigned authority, personally 1 to me to be the individual who is
				nent, and	who duly acknowle	edged to me that he/she executed
the same as his/I	ner own	voluntary ac	t and deed.			
Notary Public				-		

#### (JOINT INVENTORS)

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W	н	H.I	< t	٠.А	

Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
Thomas Lefebvre residing at 22, rue Hoche, 92499, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a citizen of the UK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
SYSTEMS AND METHODS FOR CONDUCTING AN INTERACTIVE FINANCIAL SIMULATION (title 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 May 10, 2005, under Serial No. 11/125,442 and WHEREAS:

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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

PI-1390644 v1 0806995-0163

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.

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.

Assignor's Signature:			
Assignor's Signature.	Name	Water and the state of the stat	Date
Assignor's Typed			
Name:	Robert First Name	Middle Initial	Bradway Last Name
	First Name	Middle imilai	Last Name
Citizenship: USA			
STATE OF )			
COUNTY OF )			
On thisappeared	day of,	before me, the und	ersigned authority, personally to me to be the individual who i
described in and who	executed the foregoing Assignment vn voluntary act and deed.	ent, and who duly acknowled	liged to me that he/she executed
Notary Public			
·		v signature on the date and ye	ear opposite my signature.
IN WITNESS WHER		r signature on the date and ye	ear opposite my signature. Date
IN WITNESS WHER Assignor's Signature: Assignor's Typed	Name	v signature on the date and ye	
IN WITNESS WHER Assignor's Signature:	Name <u>Michael</u>		Date Tory
IN WITNESS WHER Assignor's Signature: Assignor's Typed	Name	r signature on the date and ye	Date
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name: Citizenship: Canada	Name <u>Michael</u>		Date Tory
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name:	Name <u>Michael</u>		Date Tory
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name: Citizenship: Canada STATE OF	Name <u>Michael</u>		Date Tory
IN WITNESS WHER  Assignor's Signature:  Assignor's Typed Name:  Citizenship: Canada  STATE OF ) ss.: COUNTY OF )  On this	Name  Michael  First Name	Middle Initial , before me, the unde	Date  Tory Last Name  ersigned authority, personally
IN WITNESS WHER  Assignor's Signature:  Assignor's Typed Name:  Citizenship: Canada  STATE OF ) ss.: COUNTY OF )  On this	Name  Michael  First Name	Middle Initial , before me, the unde	Date  Tory Last Name  ersigned authority, personally to me to be the individual who i

IN WITNESS WHERE	OF, I have hereunto affixed my	signature on the date and ye	ar opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Nicolas First Name	Middle Initial	Turner Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
On this	ecuted the foregoing Assignme	before me, the unde , known and known t nt, and who duly acknowled	ersigned authority, personally to me to be the individual who is ged to me that he/she executed
Notary Public			
IN WITNESS WHEREC	OF, I have hereunto affixed my	signature on the date and yes	ar opposite my signature.
Assignor's Typed Name:	Name Simon First Name	Middle Initial	/ Date Smith Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
the same as his/her own	day of, ecuted the foregoing Assignment voluntary act and deed.	before me, the unde, known and known to the think, and who duly acknowleds	rsigned authority, personally o me to be the individual who is ged to me that he/she executed
Notary Public			

IN WITNESS W	HEREC	OF, I have hereunto affi	xed my signat	ure on the date an	d year opposite my signature.
Assignor's Signa	iture:	Name		_	Date
Assignor's Type Name:	d	Wayne First Name		Middle Initial	Woo Last Name
Citizenship: UK					
STATE OF	) ss.: )				
described in and	who exe		ssignment, and		undersigned authority, personally wn to me to be the individual who is wledged to me that he/she executed
Notary Public	HEREC	P, I have hereunto affi	xed my signat	ure on the date an	d year opposite my signature.
Assignor's Signa	ture:	Name	***************************************		Date
Assignor's Type Name:	đ	Thomas First Name		Middle Initial	Lefebvre Last Name
Citizenship: Fra	nce				
STATE OF	) ss.: )				
On thisappeareddescribed in and the same as his/h	who exe	day ofday of	ssignment, and	before me, the u _, known and kno I who duly acknow	andersigned authority, personally wn to me to be the individual who is vledged to me that he/she executed

Assignor's Signature:			
g	Name	entropy and the second	Date
Assignor's Typed			
Name:	Stuart		Turner
	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF ) ss.:			
COUNTY OF )			
On this	day of		ersigned authority, personally
appeared		, known and known	to me to be the individual who is
	xecuted the foregoing Assignment voluntary act and deed.	ent, and who duly acknowled	lged to me that he/she executed
Notary Public			
·	EOF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
·		signature on the date and ye	
IN WITNESS WHERE	EOF, I have hereunto affixed my	signature on the date and yo	ear opposite my signature. Date
IN WITNESS WHERE		signature on the date and ye	
IN WITNESS WHERE Assignor's Signature: Assignor's Typed	Name	signature on the date and you	Date
IN WITNESS WHERE Assignor's Signature: Assignor's Typed	Name David		Date Rowland
IN WITNESS WHERE Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF	Name David		Date Rowland
IN WITNESS WHERE Assignor's Signature: Assignor's Typed Name: Citizenship: UK	Name David		Date Rowland
IN WITNESS WHERE Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF ) ss.: COUNTY OF )	Name  David  First Name	Middle Initial	Date  Rowland  Last Name
IN WITNESS WHERE Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF ) ss.: COUNTY OF )	Name  David  First Name	Middle Initial	Date Rowland

IN WITNESS V	VHERE	OF, I have here	unto affixed my	signature on the date and ye	ear opposite my signature.
Assignor's Sign	ature:	Managara Palan Santa Managara and Angara Santa San	Name		Date
Assignor's Typ Name:	ed	Ryan			Yap
		Fir	st Name	Middle Initial	Last Name
Citizenship: UK	- h.				
STATE OF	)				
COUNTY OF	ss.: )				
On this		day of		, before me, the unde	ersigned authority, personally to me to be the individual who is
described in and the same as his/		ecuted the fore	going Assignme		ged to me that he/she executed
Notary Public		<del></del>	***		

# (JOINT INVENTORS)

WHEREAS:
Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
Thomas Lefebvre residing at 22, rue Hoche, 92499, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a citizen of the UK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
SYSTEMS AND METHODS FOR CONDUCTING AN INTERACTIVE FINANCIAL SIMULATION (title of invention or discovery)  for which application for Letters Patent of the United States has been executed on even date herewith, and

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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

for which application for Letters Patent of the United States has been filed on May 10, 2005, under

#### NOW, THEREFORE:

Serial No. 11/125,442 and

thereof heretofore acquired by ASSIGNEE.

 $\boxtimes$ 

WHEREAS:

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

PI-1390644 v1 0806995-0163

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.

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 WHERE	OF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Robert First Name	Middle Initial	Bradway Last Name
Citizenship: USA			
STATE OF ) ss.: COUNTY OF )			
appeared	day of, xecuted the foregoing Assignment	known and known	ersigned authority, personally to me to be the individual who is lged to me that he/she executed
	voluntary act and deed.	,	-
Notary Public			
IN WITNESS WHERE Assignor's Signature:	OF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
	Name		Date
Assignor's Typed Name:	Michael First Name	Middle Initial	Tory Last Name
Citizenship: Canada			
STATE OF ) ss.: COUNTY OF )			
appeared described in and who ex	day of xecuted the foregoing Assignment voluntary act and deed.	, before me, the unde , known and known ent, and who duly acknowled	ersigned authority, personally to me to be the individual who is ged to me that he/she executed
Notary Public			

IN WITNESS WHER	EOF, I have hereunto arrixed my	signature on the date and ye	car opposite my signature.
Assignor's Signature:	Name	M-1-1-1	Date
Assignor's Typed Name:	Nicolas First Name	Middle Initial	Turner Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
appeareddescribed in and who	executed the foregoing Assignment voluntary act and deed.	, known and known	to me to be the individual who is
Notary Public			
IN WITNESS WHER	EOF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Simon First Name	Middle Initial	Smith Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
the same as his/her ov	executed the foregoing Assignment voluntary act and deed.	, before me, the und , known and known ent, and who duly acknowled	ersigned authority, personally to me to be the individual who is lged to me that he/she executed
Notary Public			

	organizate our area date and y	ear opposite my signature.
Name	<u>·                                      </u>	4 SE7 2005 Date
Wayne First Name	WF Middle Initial	Woo Last Name
day of, ecuted the foregoing Assignme voluntary act and deed.	, before me, the und , known and known ent, and who duly acknowled	ersigned authority, personally to me to be the individual who is lged to me that he/she executed
DF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
Name		Date
Thomas First Name	Middle Initial	<u>Lefebvre</u> Last Name
day of, ecuted the foregoing Assignmen	, before me, the under , known and known nt, and who duly acknowled	ersigned authority, personally to me to be the individual who is lged to me that he/she executed
		Name  Wayne  First Name  Middle Initial

	Name		Date
Assignor's Typed	Ctuart		Turner
Name:	Stuart First Name	Middle Initial	Turner  Last Name
Citizenship: UK			
STATE OF ) ss.:			
COUNTY OF )			
On this	day of,	, before me, the und	lersigned authority, personally
appeared	executed the foregoing Assignment	, known and known	to me to be the individual who is
ine same as marner of	wn voluntary act and deed.		
Notary Public			
IN WITNESS WHER	EOF, I have hereunto affixed my	y signature on the date and y	ear opposite my signature.
IN WITNESS WHER		y signature on the date and y	ear opposite my signature. Date
IN WITNESS WHER Assignor's Signature: Assignor's Typed	Name David		Date Rowland
IN WITNESS WHER Assignor's Signature: Assignor's Typed	Name	y signature on the date and yo	Date
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name:	Name David		Date Rowland
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name: Citizenship: UK	Name David		Date Rowland
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF ) ss.:	Name David		Date Rowland
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF ) ss.: COUNTY OF )	Name  David  First Name	Middle Initial	Date  Rowland  Last Name
Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF ) ss.: COUNTY OF )	Name  David  First Name	Middle Initial	Date Rowland

IN WITNESS W	/HEREC	F, I have h	ereunto affixed my sig	nature on the date and year	opposite my signature.
Assignor's Sign	ature:		Name		Date
Assignor's Type	:đ	Ryan			Yap
			First Name	Middle Initial	Last Name
Citizenship: UK					
STATE OF	) ss.:				
COUNTY OF	)				
appeared	who exe	cuted the fe	oregoing Assignment,		gned authority, personally ne to be the individual who is I to me that he/she executed
Notary Public			E		

### (JOINT INVENTORS)

WHEREAS:
Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
00 ( post - code change)
Thomas Lefebvre residing at 22, rue Hoche, 92489, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a citizen of the UK
Citizen of the OK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
THE PROPERTY OF THE PROPERTY O
SYSTEMS AND METHODS FOR CONDUCTING AN INTERACTIVE FINANCIAL SIMULATION
(title 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 May 10, 2005, under Serial No. 11/125,442 and WHEREAS:

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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

PI-1390644 v1 0806995-0163

PATENT REEL: 016594 FRAME: 0804

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.

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.

	Name		Date
	Name		Date
Assignor's Typed	Dahant		Bradway
Name:	Robert First Name	Middle Initial	Last Name
Citizenship: USA			
STATE OF ) ss.:			
COUNTY OF )			
appeared described in and who ex	day of xecuted the foregoing Assignm n voluntary act and deed.	, known and known	ersigned authority, personally to me to be the individual who is lged to me that he/she executed
Notary Public			
IN WITNESS WHERE Assignor's Signature:	EOF, I have hereunto affixed m	y signature on the date and yo	
	EOF, I have hereunto affixed m	y signature on the date and yo	ear opposite my signature. Date
		y signature on the date and your signature on the date and you signature of the date and you sig	
Assignor's Signature: Assignor's Typed	Name <u>Michael</u>		Date Tory
Assignor's Signature: Assignor's Typed Name:	Name <u>Michael</u>		Date Tory
Assignor's Signature:  Assignor's Typed Name:  Citizenship: Canada  STATE OF ) ss.: COUNTY OF )	Name <u>Michael</u>	Middle Initial	Date  Tory  Last Name

Assignor's Signature:	Name		Date
Assignor's Typed Name:	Nicolas		Turner
	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF )			
COUNTY OF )			
On thisappeared	day of,	, before me, the und	ersigned authority, personally to me to be the individual who is
described in and who e	executed the foregoing Assignment	ent, and who duly acknowled	dged to me that he/she executed
the same as his/her ow	n voluntary act and deed.		
the same as his/her ow	n voluntary act and deed.		
the same as his/her ow Notary Public	n voluntary act and deed.  EOF, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
the same as his/her ow  Notary Public  IN WITNESS WHERI		signature on the date and yo	ear opposite my signature. Date
the same as his/her ow  Notary Public  IN WITNESS WHERI  Assignor's Signature:  Assignor's Typed	BOF, I have hereunto affixed my	signature on the date and yo	
the same as his/her ow  Notary Public  IN WITNESS WHERI  Assignor's Signature:  Assignor's Typed	BOF, I have hereunto affixed my	signature on the date and you	Date
the same as his/her ow  Notary Public  IN WITNESS WHERI  Assignor's Signature:  Assignor's Typed  Name:	BOF, I have hereunto affixed my Name Simon		Date Smith
the same as his/her ow  Notary Public  IN WITNESS WHERI  Assignor's Signature:  Assignor's Typed  Name:  Citizenship: UK	BOF, I have hereunto affixed my Name Simon		Date Smith
the same as his/her ow  Notary Public  IN WITNESS WHERI  Assignor's Signature:  Assignor's Typed  Name:  Citizenship: UK  STATE OF  ss.:	BOF, I have hereunto affixed my Name Simon		Date Smith
the same as his/her ow  Notary Public  IN WITNESS WHERI  Assignor's Signature:  Assignor's Typed  Name:  Citizenship: UK  STATE OF )  ss.:  COUNTY OF )	BOF, I have hereunto affixed my Name Simon First Name	Middle Initial	Date Smith

IN WITNESS WHEREO	F, I have hereunto affixed my sign	ature on the date and year op	posite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Wayne First Name	Middle Initial	Woo Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
appeared	day of, cuted the foregoing Assignment, a oluntary act and deed.	, known and known to me	to be the individual who is
Notary Public			
IN WITNESS WHEREO	F, I have hereunto affixed my sign	ature on the date and year op	oposite my signature.
Assignor's Signature:	Wame		July bots Date
Assignor's Typed Name:	Thomas First Name	Middle Initial	Lefebvre Last Name
Citizenship: France			
STATE OF ) ss.: COUNTY OF )			
On thisappeareddescribed in and who execute same as his/her own v	day of, cuted the foregoing Assignment, a oluntary act and deed.	before me, the undersign known and known to me nd who duly acknowledged t	ned authority, personally to be the individual who is to me that he/she executed

Assignor's Signature:	Name		Date
Assignor's Typed Name:	Stuart		Turner
ivame.	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
On thisappeared	day of,	, before me, the und	lersigned authority, personally to me to be the individual who is
the same as ms/her ow	n voluntary act and deed.		
Notary Public			
IN WITNESS WHER	EOF, I have hereunto affixed my	signature on the date and y	
IN WITNESS WHER. Assignor's Signature: Assignor's Typed	Name	signature on the date and y	Date
IN WITNESS WHER Assignor's Signature:		signature on the date and y	
IN WITNESS WHER. Assignor's Signature: Assignor's Typed Name:	Name David		Date Rowland
IN WITNESS WHER. Assignor's Signature: Assignor's Typed Name: Citizenship: UK	Name David		Date Rowland
IN WITNESS WHER. Assignor's Signature: Assignor's Typed Name: Citizenship: UK	Name David		Date Rowland
IN WITNESS WHER.  Assignor's Signature:  Assignor's Typed  Name:  Citizenship: UK  STATE OF  ss.:  COUNTY OF	Name  David  First Name	Middle Initial	Date Rowland

IN WITNESS W	HEREO	F, I have he	ereunto affixed my signa	ture on the date and year	opposite my signature.
Assignor's Signa	ature:		Name		Date
Assignor's Type Name:	d	Ryan			Yap
		I	First Name	Middle Initial	Last Name
Citizenship: UK					
STATE OF	) ss.:				
COUNTY OF	)				
appeared	who exe	cuted the fo	oregoing Assignment, an	, known and known to 1	gned authority, personally ne to be the individual who is d to me that he/she executed
Notary Public					

### (JOINT INVENTORS)

WHEREAS:
Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
Thomas Lefebvre residing at 22, rue Hoche, 92499, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a citizen of the UK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
SYSTEMS AND METHODS FOR CONDUCTING AN INTERACTIVE FINANCIAL SIMULATION

(title 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 May 10, 2005, under Serial No. 11/125,442 and

WHEREAS:

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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:

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PI-1390644 v1 0806995-0163

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.

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.

Assignor's Signature:			
	Name		Date
Assignor's Typed	n.1.		D. J
Name:	Robert First Name	Middle Initial	Bradway Last Name
Citizenship: USA			
STATE OF )			
COUNTY OF )			
On this	day of	, before me, the und , known and known	ersigned authority, personally to me to be the individual who is
			lged to me that he/she executed
described in and who	executed the foregoing Assignment of the contract and deed.	ent, and who duly acknowled	
described in and who ethe same as his/her ow	executed the foregoing Assignment	nt, and wno duly acknowled	
described in and who e the same as his/her ow Notary Public	executed the foregoing Assignment of the contract and deed.  EOF, I have hereunto affixed my		ear opposite my signature.
described in and who e the same as his/her ow Notary Public	executed the foregoing Assignment of the contract and deed.		
described in and who ethe same as his/her ow  Notary Public  IN WITNESS WHERD  Assignor's Signature:  Assignor's Typed	executed the foregoing Assignment of the North Residual R		ear opposite my signature. Date
described in and who ethe same as his/her ow  Notary Public  IN WITNESS WHERD  Assignor's Signature:  Assignor's Typed	executed the foregoing Assignment of the contract and deed.  EOF, I have hereunto affixed my		ear opposite my signature.
described in and who ethe same as his/her ow  Notary Public  IN WITNESS WHER  Assignor's Signature:  Assignor's Typed  Name:	executed the foregoing Assignment of the North Assignm	signature on the date and yo	ear opposite my signature. Date Tory
described in and who e the same as his/her ow Notary Public	executed the foregoing Assignment of the North Assignm	signature on the date and yo	ear opposite my signature. Date Tory
described in and who ethe same as his/her ow Notary Public  IN WITNESS WHER! Assignor's Signature: Assignor's Typed Name: Citizenship: Canada	executed the foregoing Assignment of the North Assignm	signature on the date and yo	ear opposite my signature. Date Tory

	Name	-	Date
Assignor's Typed			
Name:	Nicolas		Turner
	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF )			
ss.:			
COUNTY OF )			
On this	day of,	, before me, the und	ersigned authority, personally
appeared		, known and known	to me to be the individual who is
	executed the foregoing Assignment of the voluntary act and deed.	ent, and who duly acknowled	lged to me that he/she executed
Notary Public			
IN WITNESS WHERE	EOF, I have hereunto affixed my	signature on the date and ye	ear annocite my cianature
			ar opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Signature: Assignor's Typed			Date
Assignor's Signature:	Name Simon First Name	Middle Initial	
Assignor's Signature: Assignor's Typed	Simon		Date Smith
Assignor's Signature: Assignor's Typed Name:	Simon		Date Smith
Assignor's Signature: Assignor's Typed Name: Citizenship: UK	Simon		Date Smith
Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF	Simon		Date Smith
Assignor's Signature:  Assignor's Typed Name:  Citizenship: UK  STATE OF ) ss.: COUNTY OF )	Simon First Name	Middle Initial	Date Smith Last Name
Assignor's Signature:  Assignor's Typed Name:  Citizenship: UK  STATE OF ) ss.: COUNTY OF )	Simon First Name	Middle Initial	Date Smith Last Name
Assignor's Signature:  Assignor's Typed Name:  Citizenship: UK  STATE OF ) ss.: COUNTY OF )  On this appeared described in and who e	Simon First Name	Middle Initial	Date Smith

IN WITNESS WHEREC	F, I have hereunto affixed m	y signature on the date and ye	ear opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Wayne First Name	Middle Initial	Woo Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
appeared	ecuted the foregoing Assignm	, known and known	ersigned authority, personally to me to be the individual who is dged to me that he/she executed
Notary Public  IN WITNESS WHEREC  Assignor's Signature:		ey signature on the date and y	
Assignor's Typed Name:	Name  Thomas  First Name	Middle Initial	Date <u>Lefebvre</u> Last Name
Citizenship: France			
STATE OF ) ss.: COUNTY OF )			
On thisappeareddescribed in and who exe the same as his/her own v	day ofecuted the foregoing Assignment of the foregoing act and deed.	, , , before me, the und , known and known ent, and who duly acknowled	ersigned authority, personally to me to be the individual who is dged to me that he/she executed

IN WITNESS W	HEKE	OF, I have hereunto affixed r	my signature on the date and	year opposite my signature.
Assignor's Signa	ature:	SATIO		12/7/05
		Name	Administration of the analysis of the	Date
Assignor's Type Name:	đ	Stuart		Turner
		First Name	Middle Initial	Last Name
Citizenship: UK				
STATE OF	) ss.:			
COUNTY OF	)			
On thisappeared		day of	, before me, the u	ndersigned authority, personally vn to me to be the individual who is
		ecuted the foregoing Assigm voluntary act and deed.	ment, and who duly acknow	ledged to me that he/she executed
Notary Public	HERE	OF, I have hereunto affixed n	— my signature on the date and	year opposite my signature.
Assignor's Signa	iture:			
		Name		Date
Assignor's Type Name:	d	<u>David</u>		Rowland
		First Name	Middle Initial	Last Name
Citizenship: UK				
STATE OF	) ss.:			
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On thisappeared		day of	, before me, the ur	ndersigned authority, personally on to me to be the individual who is ledged to me that he/she executed
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Assignor's Sign	ature:	Name		Date
Assignor's Type	ed	Ryan		Yap
		First Name	Middle Initial	Last Name
Citizenship: UK				
STATE OF	)			
COUNTY OF	ss.: )			
On this				ersigned authority, personally to me to be the individual who is
	who ex		ment, and who duly acknowled	lged to me that he/she executed
appeareddescribed in and	who ex		, known and known	to me to be the individual wi

## (JOINT INVENTORS)

WHEREAS:
Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
Thomas Lefebvre residing at 22, rue Hoche, 92499, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a citizen of the UK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
SYSTEMS AND METHODS FOR CONDUCTING AN INTERACTIVE FINANCIAL SIMULATION (title 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 May 10, 2005, under Serial No. 11/125,442 and WHEREAS:

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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

PI-1390644 v1 0806995-0163

PATENT REEL: 016594 FRAME: 0818

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.

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.

	, known and known	Date  Bradway  Last Name  ersigned authority, personally to me to be the individual who is diged to me that he/she executed
oing Assignment, a	, before me, the und , known and known	Last Name  ersigned authority, personally to me to be the individual who is
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nto affixed my sign	nature on the date and yo	ear opposite my signature.  Date
Name	Middle Initial	Tory Last Name
		ersigned authority, personally to me to be the individual who is lged to me that he/she executed
1	Name	Name Middle Initial  , , , before me, the und

Assignor's Signatu	re:	Name		Date
Assignor's Typed Name:	Nicolas	First Name	Middle Initial	Turner Last Name
Citizenship: UK		I not ivanic	widthe initial	Dast Name
STATE OF ) SCOUNTY OF )	s.:			
On thisappeareddescribed in and when the same as his/her	day of ho executed the f own voluntary a	oregoing Assignment and deed.	, before me, the unde , known and known t ent, and who duly acknowled	rsigned authority, personally o me to be the individual who is ged to me that he/she executed
Notary Public				
IN WITNESS WH	EREOF, I have h	ereunto affixed my	signature on the date and yea	ar opposite my signature.
Assignor's Signatu	re:	Name		Date
Assignor's Typed Name:	Simon	First Name	Middle Initial	Smith Last Name
Citizenship: UK				
STATE OF ) SS COUNTY OF )	s.:			
On thisappeareddescribed in and what the same as his/her	day of no executed the f own voluntary a	oregoing Assignment and deed.	, before me, the under , known and known to ent, and who duly acknowledg	rsigned authority, personally o me to be the individual who is ged to me that he/she executed
Notary Public				

IN WITNESS WHEREO	F, I have hereunto affixed my signat	ture on the date and year op	posite my signature.
Assignor's Signature:	Name	e Nor	Date
Assignor's Typed Name:	Wayne First Name	Middle Initial	Woo Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
appeared	day of, cuted the foregoing Assignment, and oluntary act and deed.	, known and known to me	to be the individual who is
Notary Public IN WITNESS WHEREOI	F, I have hereunto affixed my signat	ure on the date and year op	posite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Thomas First Name	Middle Initial	Lefebyre Last Name
Citizenship: France			
STATE OF ) ss.: COUNTY OF )			
On thisappeareddescribed in and who execute same as his/her own vo	day of,  suted the foregoing Assignment, and bluntary act and deed.	_, before me, the undersign _, known and known to me who duly acknowledged to	ed authority, personally to be the individual who is o me that he/she executed

Assignor's Signature:	Name		Date
Assignor's Typed			
Name:	Stuart		Turner
	First Name	Middle Initial	Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
On this	day of,	, before me, the und	lersigned authority, personally to me to be the individual who is
	n voluntary act and deed.	•	dged to me that he/she executed
Notary Public			
•	EOF, I have here into affixed my		_
IN WITNESS WHER	EOF, I have hereunto affixed my Name		ear opposite my signature.  O-JUY-20-5  Date
Notary Public  IN WITNESS WHER  Assignor's Signature:  Assignor's Typed  Name:	Name  David	<u></u>	Date  Rowland
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name:	Name		Date
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name: Citizenship: UK	Name  David	<u></u>	Date  Rowland
IN WITNESS WHERE Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF ss.:	Name  David	<u></u>	Date  Rowland
IN WITNESS WHER Assignor's Signature: Assignor's Typed Name: Citizenship: UK STATE OF ) ss.: COUNTY OF )	Name  David  First Name	Middle Initial	Date  Rowland

IN WITNESS V	VHERE	OF, I have he	reunto affixed my	signature on the date and y	vear opposite my signature.
Assignor's Sign	ature:		Name		Date
Assignor's Type Name:	ed	Ryan		2011 2011	Yap
Citizenship: UK		ŀ	irst Name	Middle Initial	Last Name
STATE OF	) ss.:				
COUNTY OF	)				
appeared	l who ex	ecuted the fo	regoing Assignme	, known and known	dersigned authority, personally a to me to be the individual who is adged to me that he/she executed
Notary Public		······································			

## (JOINT INVENTORS)

W	$\mathbf{H}$	ER	$\mathbf{E}_{I}$	A	S	
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Robert Bradway residing at 42 Kensington Square, London W8 5HP, UK, a citizen of the USA
Michael Tory residing at 4 Pembridge Place, London W2 4XB, UK a citizen of Canada
Nicolas Turner residing at 13 Wymond Street, London SW15 1DY, UK, a citizen of the UK
Simon Smith residing at 58 Richmond Avenue, Islington, London, UK a citizen of the UK
Wayne Woo residing at Flat 7, Bellamys Court, Abbotshade Road, London SE16 5RF, UK, a citizen of the UK
Thomas Lefebvre residing at 22, rue Hoche, 92499, Courbevoie, France a citizen of France
Stuart Turner residing at Yew Tree House, Six Mile Bottom Road, West Wratting, Cambridge, CB1 5NE, UK, a
citizen of the UK
David Rowland residing at 15 Freame House, Cunard Crescent, London N21 2TJ, UK a citizen of the UK
Ryan Yap residing at 119 Consort Court, 31 Wrights Lane, London W8 5SN, United Kingdom a citizen of the UK
(full names and residential addresses of inventors (including countries of citizenship))
(hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled:
SYSTEMS AND METHODS FOR CONDUCTING AN INTERACTIVE FINANCIAL SIMULATION
(title 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 May 10, 2005, under Serial No. 11/125,442 and WHEREAS:

Morgan Stanley with an office at 1585 Broadway, New York, New York 10036 (hereinafter 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

PI-1390644 v1 0806995-0163

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.

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 V	VHERE(	OF, I have hereunto a	ffixed my sign	ature on the date and	d year opposite my signature.
Assignor's Sign	ature:				D
		Nam	е		Date
Assignor's Type	ed	Robert			Bradway
ivanio.		First Nam	ne	Middle Initial	Last Name
Citizenship: US	A				
STATE OF	)				
COUNTY OF	ss.: )				
On thisappeared	VAVESTICAL	day of		, before me, the t	undersigned authority, personally wn to me to be the individual who is
described in and		ecuted the foregoing voluntary act and dee	Assignment, a	nd who duly acknow	vledged to me that he/she executed
Notary Public			-		
IN WITNESS V		OF, I have hereunto a		ature on the date and	d year opposite my signature.  Date
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Assignor's Type Name:	ea	Michael			Tory
		First Nan	ie .	Middle Initial	Last Name
Citizenship: Car	nada				
STATE OF	) ss.:				
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On thisappeared	11.	day of	Assissment	, before me, the u	undersigned authority, personally wn to me to be the individual who is vledged to me that he/she executed
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IN WITNESS W	HEREO	r, i have hereumo arr	ixed my signatt	re on the date and	r year opposite my signature.
Assignor's Signa	iture:	Name	es es es en este de la del de la companya de la circa en este del		Date
Assignor's Type Name:	d	Nicolas First Name	•	Middle Initial	Turner Last Name
Citizenship: UK					
STATE OF	) ss.: )				
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Notary Public			-		
IN WITNESS W	HEREO	F, I have hereunto aff	ĩxed my signatu	re on the date and	year opposite my signature.
Assignor's Signa	iture:	Name			Date
Assignor's Type Name:	đ	Simon First Name	}	Middle Initial	Smith Last Name
Citizenship: UK					
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Notary Public					

IN WITNESS WHEREC	F, I have hereunto affixed my	signature on the date and ye	ar opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Wayne First Name	Middle Initial	Woo Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
appeared	cuted the foregoing Assignme	, known and known t	rsigned authority, personally o me to be the individual who is ged to me that he/she executed
Notary Public  IN WITNESS WHEREO  Assignor's Signature:	F, I have hereunto affixed my	signature on the date and yea	ar opposite my signature.
Assignor's Typed Name:	Name		Date Lefebvre
Citizenship: France	First Name	Middle Initial	Last Name
STATE OF ) ss.: COUNTY OF )			
On thisappeareddescribed in and who exe the same as his/her own v	day of, before me, the undersigned authority, personally, known and known to me to be the individual who is cuted the foregoing Assignment, and who duly acknowledged to me that he/she executed coluntary act and deed.		

IN WITNESS WHEREOF	F, I have hereunto affixed my signa	ature on the date and year o	opposite my signature.
Assignor's Signature:	Name		Date
Assignor's Typed Name:	Stuart First Name	Middle Initial	Turner Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
appeared	day of, cuted the foregoing Assignment, and oluntary act and deed.	, known and known to n	ne to be the individual who is
Notary Public IN WITNESS WHEREOR	F, I have hereunto affixed my signa	ature on the date and year o	opposite my signature.
Assignor's Signature:	Name	Manage of the second	Date
Assignor's Typed Name:	David First Name	Middle Initial	Rowland Last Name
Citizenship: UK			
STATE OF ) ss.: COUNTY OF )			
On thisappeareddescribed in and who executhe same as his/her own vo	day of, cuted the foregoing Assignment, are oluntary act and deed.	, before me, the undersig , known and known to n nd who duly acknowledged	gned authority, personally ne to be the individual who is to me that he/she executed

IN WITNESS W	VHEREC	F, I have her	reunto affixed my signat	ture on the date and year	opposite my signature.	
Assignor's Signature:		Name			14 July 05 Date	
			Ivanic		Bute	
Assignor's Typed Name:		Ryan Yap		Yap		
			irst Name	Middle Initial	Last Name	
Citizenship: UK						
STATE OF	)					
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On thisday of, appeared described in and who executed the foregoing Assignment, a		known and known to me to be the individual who is				
the same as his/l						
Notary Public						