Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	SUBMISSION TYPE: NEW ASSIGNMENT				
NATURE OF CONVEY	ANCE:		ASSIGNMENT		
CONVEYING PARTY	DATA				
	Name Execution Date				
David Rutter				10/24/2006	
Kathryn Duffy				11/09/2006	
John Hendy				02/01/2007	
Anant Verma				10/24/2006	
RECEIVING PARTY D	ATA				
Name:	Morgan Stan	ley			
Street Address:	1585 Broadw				
City:	New York				
State/Country:	NEW YORK				
Postal Code:	10036				
PROPERTY NUMBER	S Total: 1				
Property Ty	/pe		Number		
Application Number:		11519	9378		
CORRESPONDENCE	DATA				
Fax Number: (412)355-6501 Correspondence will be sent via US Mail when the fax attempt is unsuccessful.					
Phone:	412 355				
Email:	patents(
Address Line 1:	Correspondent Name: Mark G. Knedeisen Address Line 1: 535 Smithfield Street				
Address Line 1: 555 Similaried Street Address Line 2: Henry W. Oliver Building					
Address Line 4: Pittsburgh, PENNSYLVANIA 15222-2312					
ATTORNEY DOCKET NUMBER: 030838CIP					
NAME OF SUBMITTER:			Mark G. Knedeisen		
PATENT					

REEL: 018851 FRAME: 0123

Total Attachments: 16

source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page1.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page2.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page3.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page4.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page5.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page6.tif source=PI-#1719282-v1-Assignment 030838CIP (318085-1 02 05 2007 09 14 28 AM)#page7.tif source=PI-#1719282-v1-Assignment 030838CIP (318085-1 02 05 2007 09 14 28 AM)#page8.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page9.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page10.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page11.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page12.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page13.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page14.tif source=PI-#1719282-v1-Assignment_030838CIP_(318085-1_02_05_2007_09_14_28_AM)#page15.tif source=PI-#1719282-v1-Assignment 030838CIP (318085-1_02_05_2007_09_14_28_AM)#page16.tif

(JOINT INVENTORS)

WHEREAS:

David Rutter, residing at 1117 E 57th St., Brooklyn, NY 11234, a citizen of the United Kingdom

Kathryn Duffy, residing at 316 Kerneys Cove, Briarcliff Manor, NY 10510, a citizen of the United States

John Hendy, residing at 9 Holly Mews, Berkeley Heights, NJ 07922, a citizen of the United Kingdom

Anant Verma, residing at 21 Mea Drive, Berkeley Heights, NJ 07922 a citizen of India

(full names and residential addresses of inventors (including countries of citizenship)) (hereinafter referred to as ASSIGNORS), have made an invention or discovery entitled: <u>ORGANIZATIONAL REFERENCE DATA AND ENTITLEMENT SYSTEM WITH ENTITLEMENT</u> <u>GENERATOR</u>

(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 <u>September 12, 2006</u> under Serial No. <u>11/519.378</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 discovery or upon said applications or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and every priority right that is or may be predicated upon or arise from said invention or discovery, said applications and said Letters Patent,

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

PI-1654858 vi 0806995-0277

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.

-2-

Assignor's Signatur	re:Naine	Hitte.		10/24/2006 Date
Assignor's Typed Name:	David First Name	e Mi	ddle Initial	Rutter Last Name
Citizenship: United	l Kingdom			
STATE OF) COUNTY OF)	: Oats	he- or		
the same as his/her	own voluntary act and deed	kr Assignment, and who d. NOTAR Ou Commis	nown and known o duly acknowle LISA CHAVEZ Y PUBLIC, State o No. 01 CH60631 Jallited in Queens ssion Expires Augu	of New York 40 County
Assignor's Signatur	e:Name			Date
Assignor's Typed Name:	<u>Kathryn</u> First Name	> Mic	ddle Initial	Duffy Last Name
Citizenship: USA				
STATE OF) ss COUNTY OF)	.:			
appeared described in and wh	day of o executed the foregoing A own voluntary act and deed	, kn ssignment, and who	fore me, the und lown and known b duly acknowled	lersigned authority, personally to me to be the individual who is dged to me that he/she executed

Notary Public

Assignor's Sign	ature:			
		Name		Date
Assignor's Type Name:	d	John		Hendy
		First Name	Middle Initial	Last Name
Citizenship: Un	ited King	dom		
STATE OF	}			
COUNTY OF	ss.:)			
				ersigned authority, personally
	who exec	cuted the foregoing Assignme oluntary act and deed.	ent, and who duly acknowled	to me to be the individual who is ged to me that he/she executed
Notary Public				
IN WITNESS W	HEREO	F, I have hereunto affixed my	/ signature on the date and ye	ar opposite my signature.
Assignor's Sign	ature:			
- "		Name		Date
Assignor's Type Name:	d	Anant		Verma
144440		First Name	Middle Initial	Last Name
Citizenship: Ind	lia			
STATE OF)			
COUNTY OF	ss.:)			
On this		_day of	before me, the unde	rsigned authority, personally to me to be the individual who is
described in and the same as his/l	who exec ier own v	cuted the foregoing Assignme oluntary act and deed.	ent, and who duly acknowled	to me to be the individual who is ged to me that he/she executed

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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.

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Assignor's Signature:			
0 0	Name		Date
Assignor's Typed Name:	David		Rutter
	First Name	Middle Initial	Last Name
Citizenship: United Kinge	lom		
STATE OF)			
SS.: COUNTY OF)			
On this appeared described in and who exec the same as his/her own vo	uted the foregoing Assign	_,, before me, the und , known and known ment, and who duly acknowle	lersigned authority, personally to me to be the individual who is dged to me that he/she executed
Notary Public		-	
IN WITNESS WHEREOF	, I have hereunto affixed n	by signature on the date and y	ear opposite my signature.
Assignor's Signature:	Kalige K.	Duffy -	11/9/06 Date
Assignor's Typed Name:	<u>Kathryn</u> First Name	Middle Initial	Duffy
Citizenship: USA	Phist Ivalle	Millie muar	Last Name
STATE OF)			
COUNTY OF)			
) K - DUEFY ated the foregoing Assignm	, known and known nent, and who duly acknowled NATALIJA KASAI Notary Public, State of No. 01KA60736	New York 46
		Qualified in Queens Commission Expires Septe	mber 6, 20 <u>1</u> 0

Assignor's Signature:			
	Name		Date
Assignor's Typed Name:	John		Hendy
	First Name	Middle Initial	Last Name
Citizenship: United King	gdom		
STATE OF)			
COUNTY OF)			
On this appeared	day of,	, before me, the und	ersigned authority, personally to me to be the individual who is lged to me that he/she executed
described in and who exe the same as his/her own y	cuted the foregoing Assignme oluntary act and deed.	ent, and who duly acknowled	iged to me that he/she executed
Notary Public			
IN WITNESS WHEREO	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:	Anant		Verma
	First Name	Middle Initial	Last Name
Citizenship: India			
STATE OF)			
ss.: COUNTY OF)			
On this appeared	_day of,	, before me, the unde	rsigned authority, personally o me to be the individual who is
described in and who exec	cuted the foregoing Assignme	ut, and who duly acknowled	ged to me that he/she executed
the same as his/her own v	oluntary act and deed.		

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Assignor's Sig	nature:			
		Name		Date
Assignor's Typ	bed			
Name:		David		Rutter
		First Name	Middle Initial	Last Name
Citizenship: U	nited Kin	gdom		
STATE OF)			
COUNTY OF	ss.:)			
On this		day of	, before me, the und	ersigned authority, personally
appeared			, known and known	to me to be the individual who i dged to me that he/she executed
Notary Public	WHEREC)F, I have hereunto affixed my	signature on the date and ye	ear opposite my signature.
Notary Public IN WITNESS V			signature on the date and ye	ear opposite my signature.
Notary Public IN WITNESS V)F, I have hereunto affixed my Name	signature on the date and ye	ear opposite my signature. Date
Notary Public IN WITNESS V Assignor's Sigr Assignor's Typ	ature:	Name	signature on the date and ye	
Notary Public IN WITNESS V Assignor's Sigr Assignor's Typ	ature:	Name Kathryn		
Notary Public IN WITNESS V Assignor's Sigr Assignor's Typ	ature:	Name	signature on the date and ye	Date
Notary Public IN WITNESS V Assignor's Sigr Assignor's Typ Name:	nature: ed	Name Kathryn		Date
Notary Public IN WITNESS V Assignor's Sigr Assignor's Typ Name: Citizenship: US	nature: ed A	Name Kathryn		Date
Notary Public IN WITNESS V Assignor's Sigr Assignor's Typ Name: Citizenship: US STATE OF	ature: ed	Name Kathryn		Date
Notary Public IN WITNESS V Assignor's Sigr Assignor's Typ Name: Citizenship: US STATE OF COUNTY OF	ed A) ss.:)	Name <u>Kathryn</u> First Name	Middle Initial	Date Duffy Last Name
Assignor's Sigr Assignor's Typ Name: Citizenship: US STATE OF COUNTY OF	ed A) ss.:)	Name <u>Kathryn</u> First Name day of	Middle Initial	Date Duffy Last Name

Assignor's Signature:	Name		2/1/2007 Date
Assignor's Typed Name:	John First Name	Middle Initial	Hendy Last Name
Citizenship: United Kingo	dom		
STATE OF)	ewyork		
COUNTY OF	ueens		
On this <u>John H</u> appeared <u>John H</u> addescribed in and who exec	day of <u>FEbruary</u> 2 endy uted the foregoing Assignment,	<u>20 7</u> before me, the unde , known and known and who duly acknowled	ersigned authority, personally to me to be the individual who is ged to me that he/she executed
the same as his/her own vo	oluntary act and deed.	LISA (NOTARY PUBLIC No. 01Cl Qualified in C	CHAVEZ 5, State of New York H6063140 Rueens County
IN WITNESS WHEREOF	, I have hereunto affixed my sig	nature on the date and ye	es August 27, 2009 ar opposite my signature.
Assignor's Signature:			
	Name		Date
Assignor's Typed Name:	Anant		Verma
Citizenship: India	First Name	Middle Initial	Last Name
STATE OF)			
ss.: COUNTY OF)			
appeared	_day of,,,,,,,	, known and known t	o me to be the individual who is
the same as his/her own vo			

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PI-1654858 v1 0806995-0277

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	ature:			
		Name		Date
Assignor's Type	ed			
Name:		David		Rutter
		First Name	Middle Initial	Last Name
Citizenship: Un	ited Kin	gdom		
STATE OF)			
COUNTY OF	ss.;)			
COUNTION	,			
On this		day of,	, before me, the unde	ersigned authority, personally
appeared			, known and known	to me to be the individual who is ged to me that he/she executed
described in and	l who ex	ecuted the foregoing Assignme	nt, and who duly acknowled	ged to me that he/she executed
the same as his/l	her own	voluntary act and deed.		
Notary Public				
IN WITNESS W	VHERE	DF, I have hereunto affixed my	signature on the date and ve	ar opposite my signature
Tte Artistropp .	* *********	or, i have hereding arrived my	arginature out the date and ye	at opposite my signature.
Assignor's Sign	ature:			
reation a rieu		Name		Date
		INAMIG		Date
Assignor's Type	t			
	20	TZ a them we		Duffy
Name:		Kathryn	N #1 # 38 . T. 145 . 1	
		First Name	Middle Initial	Last Name
Citizenship: US.	A			
OT TO OF	ι.			
STATE OF)			
	SS.:			
COUNTY OF)			
On this		day of	, before me, the unde	ersigned authority, personally
appeared		-	, known and known t	to me to be the individual who is
		ecuted the foregoing Assignme	nt, and who duly acknowled	ged to me that he/she executed
the same as his/l	ier own	voluntary act and deed.	,	

Assignor's Signature:			
	Name		Date
Assignor's Typed			
Name:	John		Hendy
	First Name	Middle Initial	Last Name
Citizenship: United Kin	ngdom		
STATE OF)			
COUNTY OF)			
described in and who er	day of ecuted the foregoing Assig voluntary act and deed.	known and know , known and know nment, and who duly acknow	ndersigned authority, personally on to me to be the individual who is ledged to me that he/she executed
Notary Public			
IN WITNESS WHERE	OF, I have hereunto affixed	i my signature on the date and	year opposite my signature.
Assignor's Signature:	Quant In Name	hund	10/24/06. Date
Assignor's Typed Name:	Anant First Name	Middle Initial	Verma Last Name
Citizenship: India			
STATE OF) ss.: COUNTY OF)	new york Queens		
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On this appeared described in and who ex the same as his/her own	ecuted the foregoing Assig	, KHOWH AHU MION	ndersigned authority, personally on to me to be the individual who is ledged to me that he/she executed
Lind Che Notary Public	quez		
	\bigcirc	LISA CHAVEZ NOTARY PUBLIC, State of New No. 01CH6063140	n York

Qualified in Queens County Commission Expires August 27, 2009

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