### Electronic Version v1.1

Stylesheet Version v1.1

	E:	NEW ASSIGNMENT		
NATURE OF CONV	/EYANCE:	ASSIGNMENT		
CONVEYING PART	ΤΥ DATA			
		Name	Execution Date	
Doan Lam CHEN			10/09/2007	
Michael Allan NEL	SEN		10/10/2007	
Vincent J. ROONE	Y		10/09/2007	
Florence Hon Sheu	ung TANG		10/09/2007	
RECEIVING PART	Y DATA			
Name:	International	Business Machines Corporation	]	
Street Address:	New Orchard			
City:	Armonk			
State/Country:	NEW YORK			
Postal Code: 10504				
	ERS Total: 1	[		
PROPERTY NUMB Property Application Numbe	туре	Number	r	
Property	r Type er:	11872535	r	
Property Application Numbe CORRESPONDEN Fax Number:	7 Type er: CE DATA (310)55	11872535		
Property Application Number CORRESPONDEN Fax Number: <i>Correspondence w</i> Phone:	Type er: CE DATA (310)55 <i>ill be sent via US</i> 310556	11872535 6-7984 <i>Mail when the fax attempt is unsuccessfu</i> 7983		
Property Application Number CORRESPONDEN Fax Number: <i>Correspondence w</i> Phone: Email:	Type er: CE DATA (310)55 <i>ill be sent via US</i> 310556 patricia	6-7984 <i>Mail when the fax attempt is unsuccessful</i> 7983 @ipmatters.com		
Property Application Number CORRESPONDEN Fax Number: <i>Correspondence w</i> Phone: Email: Correspondent Nam	Type er: CE DATA (310)55 <i>ill be sent via US</i> 310556 patricia ne: Rabindu	6-7984 <i>Mail when the fax attempt is unsuccessfu</i> 7983 @ipmatters.com rananth Dutta		
Property Application Number CORRESPONDEN Fax Number: <i>Correspondence w</i> Phone: Email:	r Type er: CE DATA (310)55 <i>ill be sent via US</i> 310556 patricia ne: Rabindi 315 S. I	6-7984 <i>Mail when the fax attempt is unsuccessful</i> 7983 @ipmatters.com		
Property Application Number CORRESPONDEN Fax Number: <i>Correspondence w</i> Phone: Email: Correspondent Nan Address Line 1:	r Type er: CE DATA (310)55 ill be sent via US 310556 patricia ne: Rabindo 315 S. I Beverly	6-7984 <i>Mail when the fax attempt is unsuccessful</i> 7983 @ipmatters.com rananth Dutta Beverly Drive, Suite 210		
Property Application Number CORRESPONDEN Fax Number: <i>Correspondence w</i> Phone: Email: Correspondent Nan Address Line 1: Address Line 4:	Type Type CE DATA (310)55 (310)556 patricia ne: Rabindi 315 S. I Beverly ET NUMBER:	11872535 6-7984 <i>Mail when the fax attempt is unsuccessful</i> 7983 @ipmatters.com rananth Dutta Beverly Drive, Suite 210 Hills, CALIFORNIA 90212		
Property Application Number CORRESPONDENC Fax Number: <i>Correspondence w</i> Phone: Email: Correspondent Nan Address Line 1: Address Line 4:	r Type er: CE DATA (310)55 ill be sent via US 310556 patricia ne: Rabindu 315 S. I Beverly ET NUMBER: TER:	11872535         6-7984 <i>Mail when the fax attempt is unsuccessful</i> 7983         @ipmatters.com         rananth Dutta         Beverly Drive, Suite 210         Hills, CALIFORNIA 90212         TUC920070094US1 (18.232)         Patricia McLaughlin		

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#### ASSIGNMENT

Whereas, we

(1) Doan Lam CHEN	of San Jose, State of CA, and County of Santa Clara
(2) Michael Allan NELSEN	of Longmont, State of CO, and County of Boulder
(3) Vincent J. ROONEY	of Vail, State of AZ, and County of Pima
(4) Florence Hon Sheung TANG	of Mountain View, State of CA, and County of Santa Clara

have invented certain improvements in:

ACQUISITION AND EXPANSION OF STORAGE AREA NETWORK INTEROPERATION RELATIONSHIPS

and executed, respecti	vely, a United States p	patent application therefore on:		
(1) O. C. shar - 07	_, 2007 , (2)	, 2007 , (3)	, 2007 and (4)	, 2007

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM CORPORATION, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign upon to do so by IBM CORPORATION.

Signed and sealed

CITY

DATE

CITY

DATE

SIGNATURE INVENTOR

SIGNATURE

Michael Allan NELSEN

V Doan Lam CHEN

INVENTOR

SIGNATURE

INVENTOR

CHY	(3) at		
DATE	on	, 2007	Vincent J. ROONEY

2007

(1) at San Jose on 10/09 .2

(2) at \_\_\_\_\_

. . . .

on \_\_\_\_\_\_

PATENT REEL: 021221 FRAME: 0230

Page 1 of 2

SIGNATURE INVENTOR

## PATENT Page 2 of 2 REEL: 021221 FRAME: 0231

USBLDLKM

Patent Docket: TUC920070094US1 Firm No. 6018.0232

ASSIGNMENT

Whereas, we

(1) Dosn Lam CHEN

County of Santa Clara

of Longmont, State of CO, and County of Boulder

of San Jose. State of CA, and

(3) Vincent J. ROONEY

(2) Michael Allan NELSEN

of Vail. State of AZ, and County of Pime

(4) Florence Hon Shoung TANG

of Mountain View, State of CA, and County of Santa Clara

have invented certain improvements in:

ACQUISITION AND EXPANSION OF STORAGE AREA NETWORK INTEROPERATION RELATIONSHIPS

and executed, respectively, a United States patent application therefore on:

(1), 2607 , (2)	October	10 <sup>174</sup> , 2007. (3)	, 2007 und (4)	, 2007
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Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called HHM CORPORATION), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged. I, the above named, hereby sell, assign, and transfer to IBM CORPORATION, its successors and assigns, the onlire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM CORPORATION, its successors and assigns; and I hereby agree that IBM CORFORATION may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM CORPORATION.

Signod and sealed

CITY	(1) at		SIGNATURE
DATE	os, 2007	Doan Lam CliffN	INVENTOR
CITY DATE	(2) at <u>Longorout</u> (3) on October 10th, 2007	Auchael Allan NELSEN	SIONATURE INVENTOR
CITY DATE	(3) at	Vincent J. ROONEY	SIGNATURE

PATENT REEL: 021221 FRAME: 0232

Page 1 of 2

USBLDLKM

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Patent Docket: TUC920070094US1 Firm No. 0018.6232

CITY DATE	(4) at		Florence Hon Sheung TANG	SIGNATURE INVENTOR
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#### ASSIGNMENT

Whereas, we

(1) Doan Lam CHEN

(2) Michael Allan NELSEN

County of Santa Clara of Longmont, State of CO, and County of Boulder

of Mountain View, State of CA, and County of Santa Clara

of San Jose, State of CA, and

of Vail.

(3) Vincent J. ROONEY

State of AZ, and County of Pinta

(4) Florence Hon Sheung TANG

bave invented certain improvements in:

ACQUISITION AND EXPANSION OF STORAGE AREA NETWORK INTEROPERATION RELATIONSHIPS

and executed, respectively, a United States patent application therefore on:

() )()()()	(0)	. 2007 , (2)	, 2007 , (3)	10/4	12007	, 2007	and (4)	, 2007
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Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM CORPORATION, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign to do so by IBM CORPORATION.

Signed and sealed

CITY	(1) at		SIGNATURE
DATE	on, 2007	Doan Lam CHEN	INVENTOR
CITY	(2) at		SIGNATURE
DATE	on, 2007	Michael Allan NELSEN	INVENTOR
CITY DATE	(3) at <u>「しとちのん</u> on <u>しょくの</u> , 2007	Vincent J. ROONEY	
	1		PATENT

Page 1 of 2

PATENT REEL: 021221 FRAME: 0234

CITY (4) at \_\_\_\_\_, 2007

Florence Hon Sheung TANG

SIGNATURE INVENTOR

×

#### ASSIGNMENT

Whereas, we

(1) Dean Lam CHEN

of San Jose, State of CA, and County of Santa Clara

of Longmont, State of CO, and County of Boulder

(3) Vincent J. ROONEY

(2) Michael Allan NELSEN

of Vail, State of AZ, and County of Pima

(4) Florence Hon Sheung TANG

of Mountain View, State of CA, and County of Santa Clara

have invented certain improvements in:

ACQUISITION AND EXPANSION OF STORAGE AREA NETWORK INTEROPERATION RELATIONSHIPS

and executed, respectively, a United States patent application therefore on:

	· • •					<i>.</i>
(1)	, 2007	. (2),	2007 , (3)	, 2007 and (4	0 <u>Oct.</u>	<u></u> , 2007

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM CORPORATION, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign upon to do so by IBM CORPORATION.

Signed and sealed

CITY DATE	(1) at, 2007	Doan Lam CHEN	SIGNATURE INVENTOR
CITY DATE	(2) at, 2007	Michael Allan NELSEN	SIGNATURE INVENTOR
CITY DATE	(3) at, 2007	Vincent J. ROONEY	SIGNATURE INVENTOR

PATENT REEL: 021221 FRAME: 0236

Page 1 of 2

(4) at Mountain View Horence Hon Shewy Teng SIGNATURE on Det. 9, 2007 Florence Hon Shewing TANG INVENTOR CITY DATE