Form PTO-1595	· · · · · · · · · · · · · · · · · · ·			
(Rev. 10/02) RECORDATION FOR	RM COVER SHEET U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office			
OMB No. 0651-0027 (exp. 6/30/2005) PATENTS	S ONLY			
Tab settings ⇔⇔⇔	ψ ψ ψ			
	Please record the attached original documents or copy thereof.			
Name of conveying party(ies): John M. Cohn Mark A. Lavin Nakgeuon Seong James A. Culp Jin Fuw Lee Rama N. Singh Ulrich A. Finkler Lars W. Liebmann Leon Stok Fook-Luen Heng Gregory A. Northrop Pieter Wolfgens	Name and address of receiving party(ies) Name: : International Business Machines Corporation Internal Address:			
Additional name(s) of conveying party(les) attached? Yes X No				
3. Nature of conveyance:				
X Assignment				
Other				
Execution Date: <u>Aug. 25, 26, 27, 31, Sept. 7, Oct. 12, 2004</u>	City: Armonk State: NY Zip: 10504 Additional name(s) & address(es) attached? Yes X No			
4. Application number(s) or patent number(s):				
If this document is being filed together with a new application, the	a association data of the application je			
A. Patent Application No.(s) 10/917,193	B. Patent No.(s)			
Additional numbers at	ttached? Yes X No			
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents 1 involved:			
Name <u>: Charles W. Peterson, Jr.</u>				
Law Office of Charles W. Peterson, Jr.	7. Total fee (37 CFR 3.41)\$ 40.00			
Internal Address:	Enclosed			
	X Authorized to be charged to deposit account			
Street Address: Suite 100	8. Deposit account number:			
11703 Bowman Green Dr.	50-0510			
City: <u>Reston</u> State: <u>Virginia</u> Zip: <u>20190</u>	(Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE THIS SPACE				
Statement and signature.				
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.				
Charles W. Peterson, Jr.	November 16, 2004			
Name of Person Signing	Signature Date			
Total number of pages including cover sheet	t, attachments, and documents: 20			

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

Assignment

INVENTOR AND CITY

TITLE

Whereas, I/WE

John M. Cohn

County of Chittenden

James A. Culp County of Chester

Ulrich A. Finkler County of Putnam

Fook-Luen Heng County of Westchester

Mark A. Lavin

County of Westchester

Jin Fuw Lee

County of Westchester

Lars W. Liebmann County of Dutchess

Gregory A. Northrop County of Putnam

Nakgeuon Seong County of Dutchess

Rama N. Singh County of Fairfield

Leon Stok

County of Westchester

Pieter J. Woltgens County of Westchester

have invented certain improvements in

of Richmond

and State of VT

of Downington and State of PA

of Mahopac and State of NY

of Yorktown Heights and State of NY

of Katonah and State of NY

of Yorktown Heights and State of NY

of Poughquag and State of NY

of Putnam Valley and State of NY

of Wappingers Falls and State of NY

of Bethel and State of CT

of Croton on Hudson and State of NY

of Yorktown Heights and State of NY

PHYSICAL DESIGN SYSTEM AND METHOD

and executed herewith, a United States patent application therefor;

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the

Page 2 of 3 IBM Docket: YOR920040209US1

entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

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

CITY AND	at <u>Williston</u> , UT on 8/26, 2004,	John FIRST NAME	M. MIDDLE INITIAL	SIGNATURE Cohn LAST NAME
	Signed and sealed			
CITY AND DATE	at , 2004,	James FIRST NAME	A. MIDDLE INITIAL	SIGNATURE Culp LAST NAME
	Signed and sealed			
CITY AND DATE	at , 2004,	Ulrich FIRST NAME	A. MIDDLE INITIAL	SIGNATURE Finkler LAST NAME
	Signed and sealed	IIIOI WAL	**************************************	
CITY AND DATE	at on , 2004,	Fook-Luen FIRST NAME	MIDDLE INITIAL	SIGNATURE Heng LAST NAME
	Signed and sealed			
CITY AND DATE	at on , 2004,	Mark FIRST NAME	A. MIDDLE INITIAL	signature Lavin Last name

Page 3 of 3 IBM Docket: YOR920040209US1

	Signed and sealed		
CITY AND	at, 2004,	SIGNATUR	Z
DAIB	, ,	Jin Fuw FIRST NAME MIDDLE INITIAL LAST NAME	
	Signed and sealed		
CITY AND	at		
DATE	on , 2004,	Lars W. Liebmann FIRST NAME MIDDLE INITIAL LAST NAME	Ε
	Signed and sealed		
CITY AND	at		_
DATE	on , 2004,	Gregory A. Northrop FIRST NAME MIDDLE INITIAL LAST NAME	£
	Signed and sealed	3	
CITY AND	at		=.
DATE	on , 2004	Nakgeuon Seong FIRST NAME MIDDLE INITIAL LAST NAME	Œ
	Signed and sealed		
CITY AND	at		
DATE	on , 2004	Rama N. Singh FIRST NAME MIDDLE INITIAL LAST NAME	Œ
	Signed and sealed		
CITY AND	at on , 2004	SIGNATU	ים כ
DATE	on , 2004	Leon Stok FIRST NAME MIDDLE INITIAL LAST NAME	/E
	Signed and sealed		
CITY AND	at	SIGNATU	0 5
DATE	on , 2004	Pieter J. Woltgens	X.E.
		FIRST NAME MIDDLE INITIAL LAST NAME	

Assignment

INVENTOR

Whereas, I/WE

AND CITY

John M. Cohn

County of Chittenden

James A. Culp

County of Chester

Ulrich A. Finkler County of Putnam

Fook-Luen Heng

County of Westchester

Mark A. Lavin

County of Westchester

Jin Fuw Lee

County of Westchester

Lars W. Liebmann County of Dutchess

Gregory A. Northrop County of Putnam

Nakgeuon Seong County of Dutchess

Rama N. Singh County of Fairfield

Leon Stok

County of Westchester

Pieter J. Woltgens County of Westchester

have invented certain improvements in

TITLE

PHYSICAL DESIGN SYSTEM AND METHOD

and executed herewith, a United States patent application therefor;

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the

of Richmond

and State of VT

of Downington and State of PA

of Mahopac and State of NY

of Yorktown Heights

and State of NY

of Katonah

and State of NY

of Yorktown Heights

and State of NY

of Poughquag

and State of NY

of Putnam Valley and State of NY

of Wappingers Falls

and State of NY

of Bethel

and State of CT

of Croton on Hudson

and State of NY

of Yorktown Heights

and State of NY

Page 2 of 3 IBM Docket: YOR920040209US1

entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

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

CITY AND	at			
DATE	on , 2004,			SIGNATURE
		John first name	M. MIDDLE INITIAL	Cohn Last name
	Signed and sealed		7	~
CITY AND DATE	at Dans town PA on 12 Oct , 2004,	James FIRST NAME	MIDDLE INITIAL	SIGNATURE Culp LAST NAME
	Signed and sealed	/ TIME NAME	MIDDES INTITAL	TWO 1 NAME
CITY AND	at			
DATE	on , 2004,			SIGNATURE
	Signed and sealed	Ulrich FIRST NAME	A. MIDDLE INITIAL	Finkler Last name
CITY AND	at			
DATE	on , 2004,	-		SIGNATURE
		Fook-Luen first name	MIDDLE INITIAL	Heng LAST NAME
	Signed and sealed			
CITY AND	at			
DATE	on , 2004,	*****		SIGNATURE
		Mark FIRST NAME	A. MIDDLE INITIAL	Lavin Last name

Page 3 of 3 IBM Docket: YOR920040209US1

	Signed and sealed	
CITY AND	at	
DATE	on , 2004,	SIGNATURE
		Jin Fuw Lee FIRST NAME MIDDLE INITIAL LAST NAME
	Signed and sealed	
CITY AND	at	
DATE	on , 2004,	SIGNATURE
		Lars W. Liebmann FIRST NAME MIDDLE INITIAL LAST NAME
	Signed and sealed	
CITY AND	at	
DATE	on , 2004,	SIGNATURE
		Gregory A. Northrop First name middle initial last name
	Signed and sealed	
CITY AND	at	
DATE	on , 2004,	SIGNATURE
		Nakgeuon Seong First name middle initial Last name
	Signed and sealed	
CITY AND	at	
DATE	on , 2004,	SIGNATURE
		Rama N. Singh First name middle initial last name
	Signed and sealed	
CITY AND	at	
DATE	on , 2004,	SIGNATURE
		Leon Stok FIRST NAME MIDDLE INITIAL LAST NAME
	Signed and sealed	
CITY AND	at	
DATE	on , 2004,	SIGNATURE
		Pieter J. Woltgens FIRST NAME MIDDLE INITIAL LAST NAME

Assignment

INVENTOR AND CITY Whereas, I/WE

John M. Cohn

County of Chittenden

James A. Culp

County of Chester

Ulrich A. Finkler County of Putnam

Fook-Luen Heng County of Westchester

Mark A. Lavin

County of Westchester

Jin Fuw Lee

County of Westchester

Lars W. Liebmann County of Dutchess

Gregory A. Northrop County of Putnam

Nakgeuon Seong County of Dutchess

Rama N. Singh County of Fairfield

Leon Stok

County of Westchester

Pieter J. Woltgens County of Westchester

have invented certain improvements in

TITLE

PHYSICAL DESIGN SYSTEM AND METHOD

and executed herewith, a United States patent application therefor;

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having

of Richmond and State of VT

of Downington and State of PA

of Mahopac and State of NY

of Yorktown Heights and State of NY

of Katonah and State of NY

of Yorktown Heights and State of NY

of Poughquag and State of NY

of Putnam Valley and State of NY

of Wappingers Falls and State of NY

of Bethel

and State of CT

of Croton on Hudson and State of NY

of Yorktown Heights and State of NY

a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the

Page 2 of 3

IBM Docket: YOR920040209US1

entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

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

CITY AND DATE	at, 2004,	John FIRST NAME	M. MIDDLE INITIAL	SIGNATURE Cohn LAST NAME
	Signed and sealed			
CITY AND	at on , 2004,			
DATE	on , 2004,	James FIRST NAME	A. MIDDLE INITIAL	Culp LAST NAME
	Signed and sealed			
CITY AND DATE	at Yorktown Heights on 8/25, 2004,	Ulrich FIRST NAME	A. MIDDLE INITIAL	signature Finkler LAST NAME
	Signed and sealed	TIRST NAME	MIDDLE INITIAL	LAST NAME
CITY AND	at Yorktown Heights on 8/21, 2004,	Fook-Luen FIRST NAME	MIDDLE INITIAL	signature Heng Last name
	Signed and sealed			
CITY AND DATE	at YORKTOWN HEIGHTS on 16 AUG, 2004,	Mark FIRST NAME	A. MIDDLE INITIAL	SIGNATURE Lavin LAST NAME

Page 3 of 3 IBM Docket: YOR920040209US1

	Signed and sealed		
CITY AND DATE	at <u>Youktown</u> Heights on Aug 25, 2004,	Jin Fuw FIRST NAME MIDDLE INITIAL	Lee LAST NAME
	Signed and sealed		
CITY AND DATE	at , 2004, Signed and sealed	Lars W. FIRST NAME MIDDLE INITIAL	SIGNATURE Liebmann LAST NAME
CITY AND DATE	on Aug 25, 2004,	Gregory A. FIRST NAME MIDDLE INITIAL	Northrop LAST NAME
	Signed and sealed		
CITY AND	at on , 2004,	Nakgeuon FIRST NAME MIDDLE INITIAL	Seong LAST NAME
CITY AND	Signed and sealed at Yorktown Heights on Any 26, 2004,	Rama N. FIRST NAME MIDDLE INITIAL	Singh LAST NAME
	Signed and sealed		
CITY AND DATE	at on , 2004,	Leon FIRST NAME MIDDLE INITIAL	Stok LAST NAME
	Signed and sealed	34	
CITY AND DATE	at YOKKTOWN HEIGHTS on AUG 31, 2004,		SIGNATURE

PATENT REEL: 015381 FRAME: 0571

FIRST NAME MIDDLE INITIAL

Woltgens

of Richmond

and State of VT

of Downington

and State of PA

and State of NY

and State of NY

and State of NY

and State of NY

of Poughquag and State of NY

of Putnam Valley

of Wappingers Falls

of Croton on Hudson and State of NY

of Yorktown Heights

and State of NY

and State of NY

and State of NY

and State of CT

of Bethel

of Yorktown Heights

of Yorktown Heights

of Mahopac

of Katonah

Assignment

INVENTOR AND CITY Whereas, I/WE

John M. Cohn

County of Chittenden

James A. Culp

County of Chester

Ulrich A. Finkler

County of Putnam

Fook-Luen Heng

County of Westchester

Mark A. Lavin

County of Westchester

Jin Fuw Lee

County of Westchester

Lars W. Liebmann County of Dutchess

Gregory A. Northrop

County of Putnam

Nakgeuon Seong County of Dutchess

Rama N. Singh County of Fairfield

Leon Stok

County of Westchester

Pieter J. Woltgens

County of Westchester

have invented certain improvements in

TITLE

PHYSICAL DESIGN SYSTEM AND METHOD

and executed herewith, a United States patent application therefor;

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the

PATENT

REEL: 015381 FRAME: 0572

Page 2 of 3

IBM Docket: YOR920040209US1

entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

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

	6			
CITY AND DATE	at, 2004,	John	М,	SIGNATURE
		FIRST NAME	MIDDLE INITIAL	LAST NAME
	Signed and sealed			
CITY AND DATE	at on , 2004,			SIGNATURE
	on , 200 4,	James FIRST NAME	A. MIDDLE INITIAL	Culp LAST NAME
	Signed and sealed			
CITY AND	at			
DATE	on , 2004,			SIGNATURE
•		Ulrich FIRST NAME	A. MIDDLE INITIAL	Finkler LAST NAME
	Signed and sealed	THOT MIND	111111111111111111111111111111111111111	111111111111111111111111111111111111111
CITY AND	at			
DATE	on , 2004,			SIGNATURE
		Fook-Luen FIRST NAME	MIDDLE INITIAL	Heng
	Signed and sealed			
CITY AND	at			
DATE	on , 2004,	N-1-		signaturi Lavin
	•	Mark FIRST NAME	A. MIDDLE INITIAL	LAVIN LAST NAME

Page 3 of 3

IBM Docket: YOR920040209US1

	Signed and	a sealed			
army and	at		The second second		
CITY AND DATE	on	, 2004,			SIGNATURE
DRIE	OII	, 2004,	Jin Fuw FIRST NAME	MIDDLE INITIAL	Lee LAST NAME
	Signed an	d sealed			
CITY AND	at <u>Fish i</u> on 7 Sep	Kill New York d. , 2004,	2 W		SIGNATURE
DATE	On 2	, 2004,	Lars FIRST NAME	W. MIDDLE INITIAL	Liebmann LAST NAME
	Signed an	d sealed			
CITY AND	at	2004			SIGNATURE
DATE	on	, 2004,	Gregory FIRST NAME	A. MIDDLE INITIAL	Northrop LAST NAME
	Signed an	nd sealed			
CITY AND	at	2004			SIGNATURE
DATE	on	, 2004,	Nakgeuon FIRST NAME	MIDDLE INITIAL	Seong LAST NAME
	Signed an	nd sealed			
CITY AND	at	2004			с темаширо
DATE	on	, 2004,	Rama FIRST NAME	N. MIDDLE INITIAL	Signature Singh LAST NAME
	Signed ar	nd sealed			
CITY AND	at				
DATE	on	, 2004,	Leon FIRST NAME	MIDDLE INITIAL	Stok LAST NAME
	Signed ar	nd sealed			
CITY AND	at	2004			SIGNATURE
DATE	on	, 2004,	Pieter FIRST NAME	J. MIDDLE INITIAL	Woltgens LAST NAME

Assignment

INVENTOR AND CITY

TITLE

Whereas, I/WE

John M. Cohn County of Chittenden

James A. Culp County of Chester

Ulrich A. Finkler County of Putnam

Fook-Luen Heng County of Westchester

Mark A. Lavin
County of Westchester

Jin Fuw Lee County of Westchester

Lars W. Liebmann County of Dutchess

Gregory A. Northrop County of Putnam

Nakgeuon Seong County of Dutchess

Rama N. Singh County of Fairfield

Leon Stok
County of Westchester

Pieter J. Woltgens County of Westchester

have invented certain improvements in

of Richmond

and State of VT

of Downington and State of PA

of Mahopac and State of NY

of Yorktown Heights and State of NY

of Katonah and State of NY

of Yorktown Heights and State of NY

of Poughquag and State of NY

of Putnam Valley and State of NY

of Wappingers Falls and State of NY

of Bethel and State of CT

of Croton on Hudson and State of NY

of Yorktown Heights and State of NY

PHYSICAL DESIGN SYSTEM AND METHOD

and executed herewith, a United States patent application therefor;

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the

Page 2 of 3 IBM Docket: YOR920040209US1

entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

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

CITY AND DATE	at on , 2004,	John M. Cohn FIRST NAME MIDDLE INITIAL LAST	
	Signed and sealed		
CITY AND	at on , 2004,	James A. Culp FIRST NAME MIDDLE INITIAL LAST	
	Signed and sealed		
CITY AND	at , 2004,	Ulrich A. Fink	
	Signed and sealed	FIRST NAME MIDDLE INITIAL LAST	NAME
CITY AND DATE	at on , 2004,	Fook-Luen Hen FIRST NAME MIDDLE INITIAL LAST	SIGNATURE g NAME
	Signed and sealed		
CITY AND DATE	at , 2004,	Mark A. Lavi FIRST NAME MIDDLE INITIAL LAST	SIGNATURE n name

Page 3 of 3 IBM Docket: YOR920040209US1

	Signed and sealed		
CITY AND	at, 2004,	Jin Fuw	signature
	Signed and sealed	FIRST NAME MIDDLE INITIAL	LAST NAME
CITY AND	at , 2004,	Lars W.	signature Liebmann
	Signed and sealed	FIRST NAME MIDDLE INITIAL	LAST NAME
CITY AND DATE	at, 2004,	Gregory A. FIRST NAME MIDDLE INITIAL	SIGNATURE Northrop LAST NAME
CITY AND DATE	signed and sealed at Hopewell Junction on 8-27, 2004,	Nakgevon First Name MIDDLE INITIAL	Seong LAST NAME
CITY AND DATE	Signed and sealed at on , 2004,	Rama N. FIRST NAME MIDDLE INITIAL	Singh LAST NAME
	Signed and sealed		
CITY AND DATE	at on , 2004,	Leon FIRST NAME MIDDLE INITIAL	Stok LAST NAME
	Signed and sealed		
CITY AND DATE	at on , 2004,	Pieter J. FIRST NAME MIDDLE INITIAL	Woltgens LAST NAME

Assignment

INVENTOR AND CITY Whereas, I/WE

John M. Cohn

County of Chittenden

James A. Culp County of Chester

Ulrich A. Finkler County of Putnam

Fook-Luen Heng County of Westchester

Mark A. Lavin

County of Westchester

Jin Fuw Lee

County of Westchester

Lars W. Liebmann County of Dutchess

Gregory A. Northrop County of Putnam

Nakgeuon Seong County of Dutchess

Rama N. Singh County of Fairfield

Leon Stok

County of Westchester

Pieter J. Woltgens County of Westchester

have invented certain improvements in

of Richmond and State of VT

of Downington and State of PA

of Mahopac and State of NY

of Yorktown Heights and State of NY

of Katonah and State of NY

of Yorktown Heights and State of NY

of Poughquag and State of NY

of Putnam Valley and State of NY

of Wappingers Falls and State of NY

of Bethel

and State of CT

of Croton on Hudson and State of NY

of Yorktown Heights and State of NY

TITLE

PHYSICAL DESIGN SYSTEM AND METHOD

and executed herewith, a United States patent application therefor;

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the

Page 2 of 3 IBM Docket: YOR920040209US1

entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

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

	U			
CITY AND	at on , 2004,	John FIRST NAME	M. MIDDLE INITIAL	SIGNATURE Cohn LAST NAME
CITY AND	Signed and sealed			
DATE	on , 2004,	James FIRST NAME	A. MIDDLE INITIAL	SIGNATURE Culp LAST NAME
	Signed and sealed			
CITY AND	at on , 2004,	Ulrich	Α,	SIGNATURE Finkler
	Signed and sealed	FIRST NAME	MIDDLE INITIAL	LAST NAME
CITY AND DATE	at on , 2004,	Fook-Luen FIRST NAME	MIDDLE INITIAL	SIGNATURE Heng LAST NAME
	Signed and sealed			
CITY AND	at on , 2004,	Mada		SIGNATURE
		Mark FIRST NAME	A. MIDDLE INITIAL	Lavin Last name

Page 3 of 3 IBM Docket: YOR920040209US1

	Signed and scared	
CITY AND	at on , 2004,	SIGNATURE
		Jin Fuw Lee FIRST NAME MIDDLE INITIAL LAST NAME
	Signed and sealed	·
CITY AND	at	
DATE	on , 2004,	Lars W. Liebmann FIRST NAME MIDDLE INITIAL LAST NAME
	Signed and sealed	
CITY AND	at	
DA TE	on , 2004,	Gregory A. Northrop FIRST NAME MIDDLE INITIAL LAST NAME
	Signed and sealed	
CITY AND	at	
DATE	on , 2004,	Nakgeuon Seong FIRST NAME MIDDLE INITIAL LAST NAME
	Signed and sealed	
CITY AND	at on , 2004,	SIGNATURE
DATE	, <u> </u>	Rama N. Singh FIRST NAME MIDDLE INITIAL LAST NAME
	Signed and sealed	. (1
CITY AND	at Fishbill, NY	SIGNATURE
DATE	on sep 07, 2004,	Leon Stok
	Signed and sealed	FIRST NAME MIDDLE INITIAL LAST NAME
CITY AND	at	SIGNATURE
DATE	on , 2004,	Pieter J. Woltgens
		FIRST NAME MIDDLE INITIAL LAST NAME

RECORDED: 11/16/2004