

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2006) RECORDATION FORM COVER SHEET PATENTS ONLY U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

To the honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): John M. Cohn, James A. Culp, Ulrich A. Finkler, Fook-Luen Heng, Mark A. Lavin, Jin Fuw Lee, Lars W. Liebmann, Gregory A. Northrop, Nakgeuon Seong, Rama N. Singh, Leon Stok, Pieter Wolfgens. Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

2. Name and address of receiving party(ies) Name: International Business Machines Corporation Internal Address: Street Address: New Orchard Road City: Armonk State: NY Zip: 10504 Additional name(s) & address(es) attached? [ ] Yes [X] No

3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: Aug. 25, 26, 27, 31, Sept. 7, Oct. 12, 2004

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/917,193 B. Patent No.(s) Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Charles W. Peterson, Jr. Law Office of Charles W. Peterson, Jr. Internal Address: Street Address: Suite 100 11703 Bowman Green Dr. City: Reston State: Virginia Zip: 20190

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [ ] Enclosed [X] Authorized to be charged to deposit account 8. Deposit account number: 50-0510 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. 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. Signature Date: November 16, 2004 Total number of pages including cover sheet, 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

CH \$40.00 500510 10917193

IBM Docket No: YOR920040209US1

## **Assignment**

INVENTOR  
AND CITY

Whereas, I/WE

John M. Cohn  
County of Chittenden

of Richmond  
and State of VT

James A. Culp  
County of Chester

of Downingtown  
and State of PA

Ulrich A. Finkler  
County of Putnam

of Mahopac  
and State of NY

Fook-Luen Heng  
County of Westchester

of Yorktown Heights  
and State of NY

Mark A. Lavin  
County of Westchester

of Katonah  
and State of NY

Jin Fuw Lee  
County of Westchester

of Yorktown Heights  
and State of NY

Lars W. Liebmann  
County of Dutchess

of Poughquag  
and State of NY

Gregory A. Northrop  
County of Putnam

of Putnam Valley  
and State of NY

Nakgeuon Seong  
County of Dutchess

of Wappingers Falls  
and State of NY

Rama N. Singh  
County of Fairfield

of Bethel  
and State of CT

Leon Stok  
County of Westchester

of Croton on Hudson  
and State of NY

Pieter J. Woltgens  
County of Westchester

of Yorktown Heights  
and State of NY

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

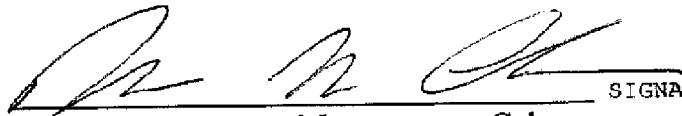
IBM Docket: YOR920040209US1

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.

Signed and sealed

CITY AND DATE at Williston, VT on 8/26, 2004,

 SIGNATURE  
John M. Cohn  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
James A. Culp  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Ulrich A. Finkler  
FIRST NAME MIDDLE INITIAL LAST NAME

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CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Fook-Luen Heng  
FIRST NAME MIDDLE INITIAL LAST NAME

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CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

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SIGNATURE  
Mark A. Lavin  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Jin Fuw Lee  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Lars W. Liebmann  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Gregory A. Northrop  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Nakgeuon Seong  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Rama N. Singh  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Leon Stok  
FIRST NAME MIDDLE INITIAL LAST NAME

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CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Pieter J. Woltgens  
FIRST NAME MIDDLE INITIAL LAST NAME

IBM Docket No: YOR920040209US1

## *Assignment*

INVENTOR  
AND CITY

Whereas, I/WE

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County of Chittenden

of Richmond  
and State of VT

James A. Culp  
County of Chester

of Downingtown  
and State of PA

Ulrich A. Finkler  
County of Putnam

of Mahopac  
and State of NY

Fook-Luen Heng  
County of Westchester

of Yorktown Heights  
and State of NY

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County of Dutchess

of Poughquag  
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County of Dutchess

of Wappingers Falls  
and State of NY

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County of Fairfield

of Bethel  
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of Croton on Hudson  
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Pieter J. Woltgens  
County of Westchester

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have invented certain improvements in

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CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
John M. Cohn  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at Darlington PA on 12 OCT, 2004,

\_\_\_\_\_  
SIGNATURE  
James A. Culp  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Ulrich A. Finkler  
FIRST NAME MIDDLE INITIAL LAST NAME

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CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Fook-Luen Heng  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Mark A. Lavin  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Jin Fuw Lee  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

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on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Lars W. Liebmann  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

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on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Gregory A. Northrop  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

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CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Nakgeuon Seong  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Rama N. Singh  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Leon Stok  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

Signed and sealed

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on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Pieter J. Woltgens  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

IBM Docket No: YOR920040209US1

### **Assignment**

INVENTOR  
AND CITY

Whereas, I/WE

John M. Cohn  
County of Chittenden

of Richmond  
and State of VT

James A. Culp  
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of Downingtown  
and State of PA

Ulrich A. Finkler  
County of Putnam

of Mahopac  
and State of NY

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County of Westchester

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County of Dutchess

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and State of NY

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and State of NY

Nakgeuon Seong  
County of Dutchess

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and State of NY

Rama N. Singh  
County of Fairfield

of Bethel  
and State of CT

Leon Stok  
County of Westchester

of Croton on Hudson  
and State of NY

Pieter J. Woltgens  
County of Westchester

of Yorktown Heights  
and State of NY

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TITLE

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IBM Docket: YOR920040209US1

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Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
John M. Cohn  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE


Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
James A. Culp  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE


Signed and sealed

CITY AND DATE at Yorktown Heights on 8/25, 2004,

  
\_\_\_\_\_  
Ulrich A. Finkler  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

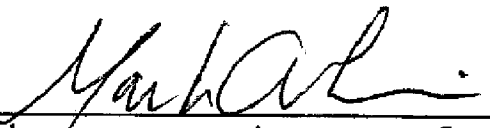
Signed and sealed

CITY AND DATE at Yorktown Heights on 8/31, 2004,

  
\_\_\_\_\_  
Fook-Luen Heng  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

Signed and sealed

CITY AND DATE at YORKTOWN HEIGHTS, NY on 26 AUG., 2004,

  
\_\_\_\_\_  
Mark A. Lavin  
FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE

Signed and sealed

CITY AND DATE at Yorktown Heights  
on Aug 25, 2004,

Jin Fuw Lee SIGNATURE  
Jin Fuw Lee  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Lars W. Liebmann  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at Yorktown Heights  
on Aug 25, 2004,

Gregory A. Northrop SIGNATURE  
Gregory A. Northrop  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Nakgeun Seong  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at Yorktown Heights  
on Aug 26, 2004,

Rama N. Singh SIGNATURE  
Rama N. Singh  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
Leon Stok  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at YORKTOWN HEIGHTS  
on AUG 31, 2004,

Pieter J. Woltgens SIGNATURE  
Pieter J. Woltgens  
FIRST NAME MIDDLE INITIAL LAST NAME

IBM Docket No: YOR920040209US1

### **Assignment**

INVENTOR AND CITY	Whereas, I/WE	
	John M. Cohn	of Richmond
	County of Chittenden	and State of VT
	James A. Culp	of Downington
	County of Chester	and State of PA
	Ulrich A. Finkler	of Mahopac
	County of Putnam	and State of NY
	Fook-Luen Heng	of Yorktown Heights
	County of Westchester	and State of NY
	Mark A. Lavin	of Katonah
	County of Westchester	and State of NY
	Jin Fuw Lee	of Yorktown Heights
	County of Westchester	and State of NY
	Lars W. Liebmann	of Poughquag
	County of Dutchess	and State of NY
	Gregory A. Northrop	of Putnam Valley
	County of Putnam	and State of NY
	Nakgeuon Seong	of Wappingers Falls
	County of Dutchess	and State of NY
	Rama N. Singh	of Bethel
	County of Fairfield	and State of CT
	Leon Stok	of Croton on Hudson
	County of Westchester	and State of NY
	Pieter J. Woltgens	of Yorktown Heights
	County of Westchester	and State of NY

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

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

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Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
John M. Cohn  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
James A. Culp  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Ulrich A. Finkler  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Fook-Luen Heng  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Mark A. Lavin  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Jin Fuw Lee  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at Fishkill, New York  
on 7 Sept., 2004,

\_\_\_\_\_  
SIGNATURE  
Lars W. Liebmann  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Gregory A. Northrop  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Nakgeun Seong  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Rama N. Singh  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_  
on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Leon Stok  
FIRST NAME MIDDLE INITIAL LAST NAME

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\_\_\_\_\_  
SIGNATURE  
Pieter J. Woltgens  
FIRST NAME MIDDLE INITIAL LAST NAME

IBM Docket No: YOR920040209US1

**Assignment**

INVENTOR AND CITY	Whereas, I/WE John M. Cohn County of Chittenden	of Richmond and State of VT
	James A. Culp County of Chester	of Downingtown and State of PA
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	Mark A. Lavin County of Westchester	of Katonah and State of NY
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	Lars W. Liebmann County of Dutchess	of Poughquag and State of NY
	Gregory A. Northrop County of Putnam	of Putnam Valley and State of NY
	Nakgeuon Seong County of Dutchess	of Wappingers Falls and State of NY
	Rama N. Singh County of Fairfield	of Bethel and State of CT
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CITY AND DATE at \_\_\_\_\_  
 on \_\_\_\_\_, 2004, \_\_\_\_\_ SIGNATURE  
 John M. Cohn  
 FIRST NAME MIDDLE INITIAL LAST NAME

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\_\_\_\_\_  
SIGNATURE  
Jin Fuw Lee  
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CITY AND DATE at \_\_\_\_\_  
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\_\_\_\_\_  
SIGNATURE  
Lars W. Liebmann  
FIRST NAME MIDDLE INITIAL LAST NAME

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\_\_\_\_\_  
SIGNATURE  
Gregory A. Northrop  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at Hopewell Junction  
on 8-27, 2004,

Nakgeun Seong  
SIGNATURE  
Nakgeun Seong  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

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\_\_\_\_\_  
SIGNATURE  
Rama N. Singh  
FIRST NAME MIDDLE INITIAL LAST NAME

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SIGNATURE  
Leon Stok  
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Pieter J. Woltgens  
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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), desires to acquire the

**PATENT**  
**REEL: 015381 FRAME: 0578**

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.

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
John M. Cohn  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
James A. Culp  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Ulrich A. Finkler  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Fook-Luen Heng  
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed

CITY AND DATE at \_\_\_\_\_ on \_\_\_\_\_, 2004,

\_\_\_\_\_  
SIGNATURE  
Mark A. Lavin  
FIRST NAME MIDDLE INITIAL LAST NAME

