

Form PTO-1595
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03-17-2000

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

1. Name of conveying party(ies):Stephan Alan COHEN
Timothy Joseph DALTON
John Anthony FITZSIMMONS
Stephen McConnell GATES
Lynne M. GIGNAC
Paul Charles JAMISON
Kang-Wook LEE
Sampath PURUSHOTHAMAN
Darryl D. RESTAINO
Eva SIMONYI
Horatio Seymour WILDMAN

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No**2. Name and address of receiving party(ies):**Name: International Business Machines Corporation

Internal Address: _____

Street Address: P.O. Box 218City: Yorktown Heights State: NY Zip: 10598Additional name(s) & address(es) attached: ☐ Yes ☒ No**3. Nature of conveyance:**☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____Execution Date: 1/24/00, 1/26/00 and 1/27/00**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: 1/24/00, 1/26/00 & 1/27/00

A. Patent Application No.(s)

B. Patent No.(s)

09/502729

Additional numbers attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**Name: Rocco S. Barrese, Esq.

International Address: _____

Street Address: DILWORTH & BARRESE333 Earle Ovington Blvd.City: Uniondale State: NY Zip: 11553**6. Total number of applications and patents involved: 1****7. Total fee (37 C.F.R. §3.41): \$40.00**☐ Enclosed
☒ Authorized to be charged to deposit account**8. Deposit account number:**50-0510/IBM (Yorktown Heights)

(Attach duplicate copy of this page if paying by deposit account)

03/16/2000 DNGUYEN 00000184 500510 09502729

01 FC:581

(40.00 CH)

PATENT

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or ☐ U.S. Patent
By : ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR(S):

(Inventor(s) or person(s) or entity(es) who own the invention)

Stephan Alan COHEN,
Timothy Joseph DALTON,
John Anthony FITZSIMMONS,
Stephen McConnell GATES,

Lynne M. GIGNAC,
Paul Charles JAMISON,
Kang-Wook LEE,
Sampath PURUSHOTHAMAN,

Darryl D. RESTAINO,
Eva SIMONYI, and
Horatio Seymour WILDMAN

(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)

Recorded on _____

Reel _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

International Business Machines Corporation

(Type or print name of ASSIGNEE)

P.O. Box 218

Address

Yorktown Heights, NY 10598

U.S.A.

Nationality

(Assignment of Invention [16-3]-- page 1 of 4)

PATENT
REEL: 010608 FRAME: 0693

and the successors, assigns and legal representatives of the ASSIGNEE

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest for the United States and its territorial possessions

(check the following box if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,
in and to any and all improvements which are disclosed in the invention entitled:

DIFFUSION BARRIER LAYER AND SEMICONDUCTOR DEVICE CONTAINING SAME

and which is found in

- (a) ☒ U.S. patent application executed on even date herewith.
- (b) ☐ U.S. patent application executed on _____.
- (c) ☐ U.S. application Serial No. _____ filed on _____.
- (d) ☐ U.S. Patent No. _____ issued _____.

☐ A change of address to which correspondence is to be sent regarding
patent maintenance fees is being sent separately.

(e) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation,
continuation-in-part, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination
thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or
entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts
and documents relating to said invention and said Letters Patent and legal equivalents as may be known and
accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto
and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or
affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters
Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.


(Assignment of Invention [16-3]-- page 2 of 4)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this _____ (Date of signing).

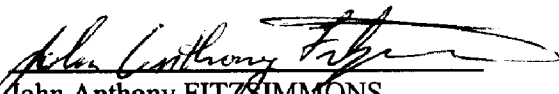
WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above.


Stephan Alan COHEN

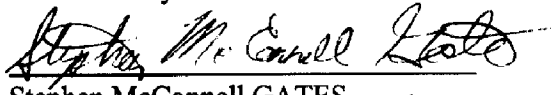
1/24/00
Dated


Timothy Joseph DALTON

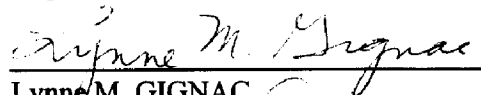
1/26/00
Dated


John Anthony FITZSIMMONS

1/26/00
Dated


Stephen McConnell GATES

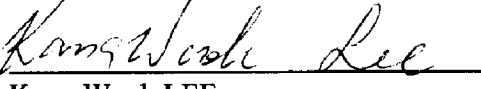
1/24/00
Dated


Lynne M. GIGNAC

1/24/2000
Dated


Paul Charles JAMISON

1/26/2000
Dated


Kang-Wook LEE

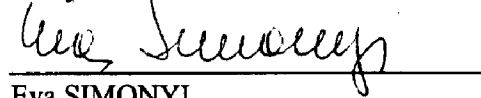
1/24/00
Dated


Sampath PURUSHOTHAMAN

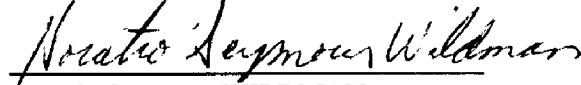
1/24/2000
Dated


Darryl D. RESTAINO

1/26/2000
Dated


Eva SIMONYI

1/24/00
Dated


Horatio Seymour WILDMAN

1/27/00
Dated

(Assignment of Invention [16-3]-- page 3 of 4)

If ASSIGNOR is a legal entity complete the following information

Type or print the name of the above person
authorized to sign on behalf of ASSIGNOR

Title


NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

☒ [X] Notarization or Legalization Page Added.

(Assignment of Invention [16-3]-- page 4 of 4)

STATE OF New York
SS:
COUNTY OF Westchester

On this 24th day of January, 2000 before me personally appeared **Kang-Wook LEE** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

LUCILLE FOURGEOT
NOTARY PUBLIC, State of New York
No. 4502670
Qualified in Westchester County, N.Y.
Commission Expires 06/30/2001

STATE OF New York
SS:
COUNTY OF Westchester

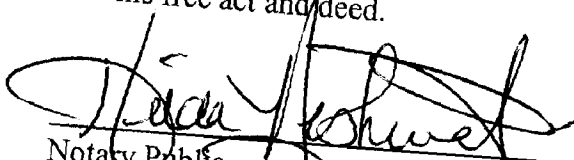
On this 24th day of Jan., 2000 before me personally appeared **Sampath PURUSHOTHAMAN** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

LUCILLE FOURGEOT
NOTARY PUBLIC, State of New York
No. 4502670
Qualified in Westchester County, N.Y.
Commission Expires 06/30/2001

STATE OF New York
SS:
COUNTY OF Dutchess

On this 24th day of Jan., 2000 before me personally appeared **Darryl D. RESTAINO** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.

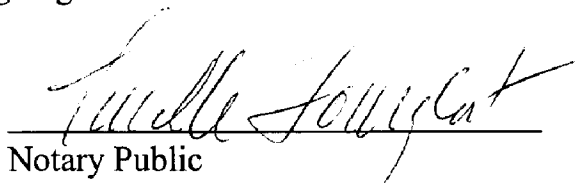

Notary Public
HILDA NESHEIWAT
Notary Public, State of New York
No. 0TNE5013143
Qualified in Dutchess County
Term Expires: 07/15/01

STATE OF New York

SS:

COUNTY OF Westchester

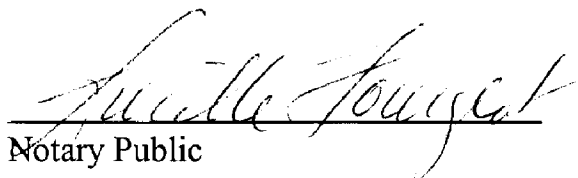
On this 24th day of January, 2000 before me personally appeared **Stephen McConnell GATES** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

LUCILLE FOURGEOT
NOTARY PUBLIC, State of New York
No. 4502670
Qualified in Westchester County
Commission Expires 06/30/2001

STATE OF New York
SS:
COUNTY OF Westchester

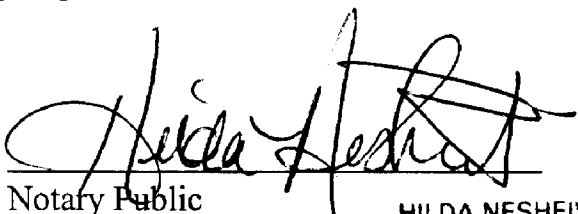
On this 24th day of Jan., 2000 before me personally appeared **Lynne M. GIGNAC** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

LUCILLE FOURGEOT
NOTARY PUBLIC, State of New York
No. 4502670
Qualified in Westchester County
Commission Expires 06/30/2001

STATE OF New York
SS:
COUNTY OF Dutchess

On this 24th day of Jan., 2000 before me personally appeared **Paul Charles JAMISON** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

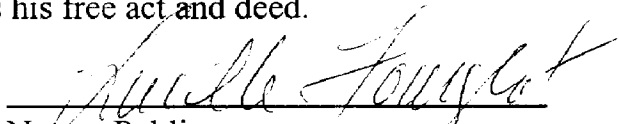
HILDA NESHEIWAT
Notary Public, State of New York
No. 01NE5013143
Qualified in Dutchess County
Term Expires: 07/15/01

STATE OF New York

ss:

COUNTY OF Westchester

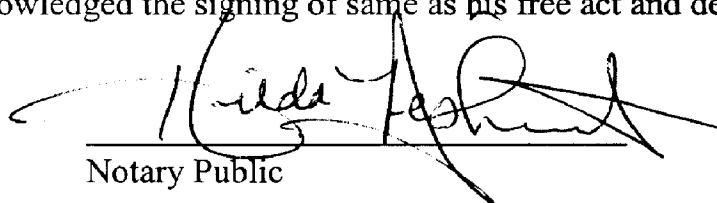
On this 24th day of Jan., 2000 before me personally appeared **Eva SIMONYI** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

LUCILLE FOURGEOT
NOTARY PUBLIC, State of New York
No. 4502670
Qualified in Westchester Count.
Commission Expires 06/30/2001

STATE OF New York
ss:
COUNTY OF Dutchess

On this 27th day of Jan., 2000 before me personally appeared **Horatio Seymour WILDMAN** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

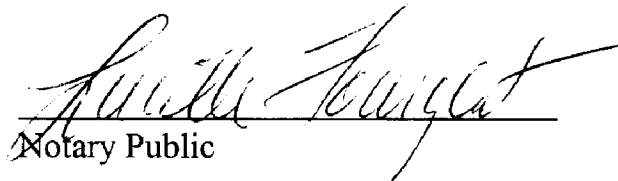
HILDA NESHEIWAT
Notary Public, State of New York
No. 01140013143
Qualified in Dutchess County
Term Expires: 07/15/01

STATE OF New York

SS:

COUNTY OF Westchester

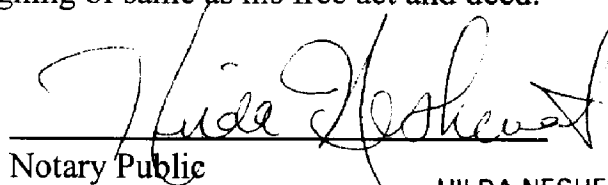
On this 24th day of January, 2000 before me personally appeared **Stephan Alan COHEN** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

LUCILLE FOURGEOT
NOTARY PUBLIC, State of New York
No. 4502670
Qualified in Westchester County
Commission Expires 06/30/2001

STATE OF New York
SS:
COUNTY OF Dutchess

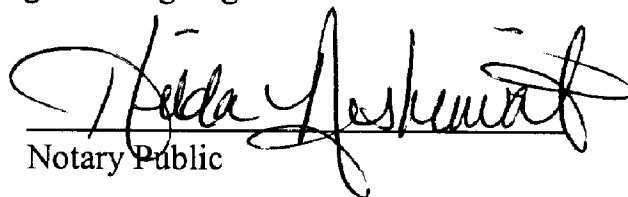
On this 26th day of Jan., 2000 before me personally appeared **Timothy Joseph DALTON** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

HILDA NESHEIWAT
Notary Public, State of New York
No. 01NE5013143
Qualified in Dutchess County
Term Expires: 07/15/2001

STATE OF New York
SS:
COUNTY OF Dutchess

On this 26th day of January 2000 before me personally appeared **John Anthony FITZSIMMONS** to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.


Notary Public

HILDA NESHEIWAT
Notary Public, State of New York
No. 01NE5013143
Qualified in Dutchess County
Term Expires: 07/15/2001

DO NOT USE THIS SPACE

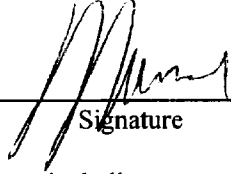
9. Statement and signature.

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.

Rocco S. Barrese

Registration No. 25,253

Name of Person Signing



Signature

February 11, 2000

Date

Total number of pages including cover sheet, attachments and documents: 10

OMB No. 0651-0011 (ex. 4/94)

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