

FORM PTO-159

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1. Name of conveying party(ies):

**Solomon Assefa, Michael C. Gaidis,
Sivananda K. Kanakasabapathy,
John P. Hummel and David W. Abraham**

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: **New Orchard Road**City: **Armonk** State: **NY** ZIP: **10504**Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date(s): **11/22/05, 11/22/05, 11/22/05,
11/28/05 and 11/23/05**

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)

B. Patent No.(s)

11/333,997Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Wayne L. Ellenbogen**Internal Address: **Ryan, Mason & Lewis, LLP**Street Address: **90 Forest Avenue**City: **Locust Valley** State: **NY** ZIP: **11560**6. Total number of applications and patents involved: 17. Total Fee (37 CFR 3.41)..... \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number **50-0510**


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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.

Wayne L. Ellenbogen

Reg. No. 43602


Signature
February 6, 2006

Date

Total number of pages including cover sheet, attachments, and document: 5

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YOR920050391US1

700241712

PATENT
REEL: 017238 FRAME: 0970

CH \$40.00 500510 11333997

Attorney Docket No. YOR920050391US1**ASSIGNMENT**

Whereas, we

Inventor
and City(1) **Solomon Assefa**
County of Westchesterof Elmsford
and State of New York(2) **Michael C. Gaidis**
County of Dutchessof Wappingers Falls
and State of New York(3) **Sivananda K. Kanakasabapathy**
County of Dutchessof Hopewell Junction
and State of New York(4) **John P. Hummel**
County of Dutchessof Millbrook
and State of New Yorkand (5) **David W. Abraham**
County of Westchesterof Croton-on-Hudson
and State of New York

have invented certain improvements in

TITLE

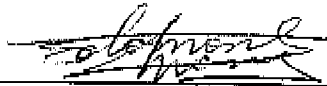
**UTILIZING SIDEWALL SPACER FEATURES TO FORM
MAGNETIC TUNNEL JUNCTIONS IN AN INTEGRATED CIRCUIT**

and executed a United States patent application therefor on

DATE THAT
INVENTORS
SIGNED THE
DECLARATION(1) 11/22/05 2005 (2) 11/22/05 2005 (3) 22nd November 2005 (4) _____ 2005
and (5) 11/23/05 2005.

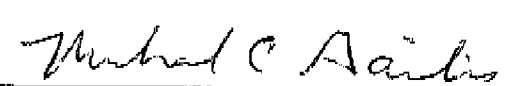
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, Armonk, New York 10504, (hereinafter called IBM) desires to acquire the entire right, title and interest in the said application and invention, and to any United States and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

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 application 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.

Attorney Docket No. YOR920050391US1CITY
DATESigned
(1) at _____, NY
on 11/22/05 2005,

(Solomon Assefa) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

SIGNATURE

CITY
DATESigned
(2) at _____, NY
on 11/24/05 2005,

(Michael C. Gaidis) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

SIGNATURE

CITY
DATESigned
(3) at _____, NY
on 22 November 2005,

(Sivananda K. Kanakasabapathy) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

SIGNATURE

CITY
DATESigned
(4) at _____, NY
on _____ 2005,

(John P. Hummel) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

SIGNATURE

CITY and
DATESigned
(5) at _____, NY
on 11/23 2005,

(David W. Abraham) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

SIGNATURE

Ryan, Mason & Lewis, LLP
90 Forest Avenue
Locust Valley, New York 11560
(516) 759-2722

Attorney Docket No. YOR920050391US1**ASSIGNMENT**

Whereas, we

Inventor
and City(1) Solomon Assefa
County of Westchesterof Elmsford
and State of New York(2) Michael C. Gaidis
County of Dutchessof Wappingers Falls
and State of New York(3) Sivananda K. Kanakasubapathy
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have invented certain improvements in

TITLE

**UTILIZING SIDEWALL SPACER FEATURES TO FORM
MAGNETIC TUNNEL JUNCTIONS IN AN INTEGRATED CIRCUIT**

and executed a United States patent application therefor on

DATE THAT (1) _____ 2005 (2) _____ 2005 (3) _____ 2005 (4) 1/28/ 2005
INVENTORS
SIGNED THE and (5) _____ 2005.
DECLARATION

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, 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;

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 application 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.

Page 1 of 2

PATENT
REEL: 017238 FRAME: 0973

Attorney Docket No. YOR920050391US1

CITY
DATE Signed
(1) at _____, NY
on _____ 2005, _____ SIGNATURE
(Solomon Assefa) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY
DATE Signed
(2) at _____, NY
on _____ 2005, _____ SIGNATURE
(Michael C. Gaidis) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY
DATE Signed
(3) at _____, NY
on _____ 2005, _____ SIGNATURE
(Sivananda K. Kanakasabapathy) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY
DATE Signed
(4) at Albany, NY
on 11/28 2005, John P. Hummel SIGNATURE
(John P. Hummel) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY and
DATE Signed
(5) at _____, NY
on _____ 2005, _____ SIGNATURE
(David W. Abraham) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Ryan, Mason & Lewis, LLP
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Locust Valley, New York 11560
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Page 2 of 2