

FORM PTO-1595

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1. Name of conveying party(ies):

**John Edward Barth, Jr., Paul C. Parries,
William Robert Reohr and
Matthew R. Wordeman**

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

☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date(s): 10/11/05, 10/14/05, 8/18/05, 8/18/05

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

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)

11/190,542

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

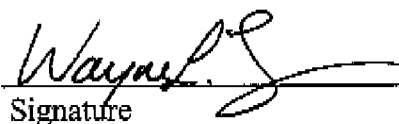
Name: **Wayne L. Ellenbogen**Internal Address: **Ryan, Mason & Lewis, LLP**Street Address: **90 Forest Avenue**City: **Locust Valley** State: **NY** ZIP: **11560**6. Total number of applications and patents involved: 17. Total Fee (37 CFR 3.41)..... \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit 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. 43,602


SignatureOctober 14, 2005

Date

Total number of pages including cover sheet, attachments, and document: 9

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YOR920050091US1

700217891

PATENT
REEL: 016884 FRAME: 0374

CH \$40.00 500510 11190542

Attorney Docket No. YOR920050091US1**ASSIGNMENT**

Whereas, we

Inventor
and City(1) **John Edward Barth, Jr.**
County of Chittendenof Williston
and State of Vermont(2) **Paul C. Parries**
County of Dutchessof Wappingers Falls
and State of New York(3) **William Robert Reohr**
County of Fairfieldof Ridgefield
and State of Connecticutand (4) **Matthew R. Wordeman**
County of Mauiof Kula
and State of Hawaii

have invented certain improvements in

TITLE

DIFFERENTIAL AND HIERARCHICAL SENSING FOR MEMORY CIRCUITS

described in United States patent application Serial No. 11/190,542, filed on July 27, 2005 and executed on

DATE THAT INVENTORS SIGNED THE DECLARATION (1) October 11, 2005 (2) _____ 2005 (3) _____ 2005 and (4) _____ 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.

Page 1 of 2

PATENT
REEL: 016884 FRAME: 0375

Attorney Docket No. YOR920050091US1

CITY Signed
DATE (1) at Williston, VT John E. Barth, Jr. SIGNATURE
on 10/11 2005, (John Edward Barth, Jr.) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

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

CITY and Signed
DATE (3) at _____, NY _____ SIGNATURE
on _____ 2005, (William Robert Reobr) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed
DATE (4) at _____, _____ SIGNATURE
on _____ 2005, (Matthew R. Wordeman) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

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

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and City(1) John Edward Barth, Jr.
County of Chittendenof Williston
and State of Vermont(2) Paul C. Parries
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Page 1 of 2

Attorney Docket No. YOR920050091US1

CITY Signed
DATE (1) at _____, _____ SIGNATURE
on _____ 2005, _____
(John Edward Barth, Jr.) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed
DATE (2) at Pskhikill, NY _____ SIGNATURE
on Oct. 14 2005, _____
(Paul C. Parries) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY and Signed
DATE (3) at _____, NY _____ SIGNATURE
on _____ 2005, _____
(William Robert Reehr) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed
DATE (4) at _____, _____ SIGNATURE
on _____ 2005, _____
(Matthew R. Wordeman) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

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Page 2 of 2

PATENT
REEL: 016884 FRAME: 0378

Attorney Docket No. YOR920050091US1**ASSIGNMENT**

Whereas, we

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and City(1) **John Edward Barth, Jr.**
County of Chittendenof Williston
and State of Vermont(2) **Paul C. Parries**
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Page 1 of 2

PATENT
REEL: 016884 FRAME: 0379

Attorney Docket No. YOR920050091US1

CITY Signed
DATE (1) at _____, _____ SIGNATURE
on _____ 2005, (John Edward Barth, Jr.) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

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

CITY and Signed
DATE (3) at Yorktown, NY _____ SIGNATURE
on Aug. 18, 2005, (William Robert Reohr) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed
DATE (4) at _____, _____ SIGNATURE
on _____ 2005, (Matthew R. Wordeman) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

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CITY Signed
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on _____ 2005,
(Paul C. Parries) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY and Signed
DATE (3) at _____, NY SIGNATURE
on _____ 2005,
(William Robert Reohr) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed
DATE (4) at Kula, HI SIGNATURE
on Aug. 18 2005,

(Matthew R. Wordeman) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

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Page 2 of 2