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**FORM PTO-1595** 

## RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

| (Rev.6-93) PAT Trademark Office  | ENTS ONLY Patent and  |
|--|---|
| To the Honorable Commissioner of Patents and Trademarks  | : Please record the attached original documents or copy thereof.  |
| 1. Name of conveying party(ies):  Louis C. Hsu, Rajiv V. Joshi, Jack Allan Mandelman and Chih-Chao Yang 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:   |
| 3. Nature of conveyance:  X Assignment Merger  Security Agreement Change of Name  Other  Execution Date: July 24, 2006, July 20, 2006  July 24, 2006, July 24, 2006  | Street Address: New Orchard Road  City: Armonk State: NY ZIP: 10504  Additional name(s) & address(es) attached?Ycs_X_No   |
| <ul> <li>4. Application number(s) or patent number(s): If this document is being filed together with a new</li> <li>A. Patent Application No.(s) 11/491,721, Filed July</li> <li>Additional numbers attached?Yes X No</li> </ul>                   | application, the execution date of the application is:  24, 2006 B. Patent No.(s)   |
| 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Paul J. Otterstedt, Esq. Internal Address: Ryan, Mason & Lewis, LLP Street Address: 1300 Post Road, Suite 205 City: Fairfield State: CT ZIP: 06824 | 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 |
| DO NOT USE THIS SPACE  | <b>A</b>  |
| 9. Statement and signature.  To the best of my knowledge and belief, the foregoing is a true copy of the original document.  Paul J. Otterstedt  Reg. No. 37,411  Signature.  Signature.  Signature.  Signature.  Signature.                       | information is true and correct and any attached copy  Other September 14, 2006  ore Date   |
| Pox Ass  | sheet, attachments, and document:   |

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Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, DC, 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, DC 20503. PATENT

**REEL: 018266 FRAME: 0027** 

Attorney Docket No.: YOR920060202US1

## ASSIGNMENT

|  | Wherea        | s, we   |  |
|--|---------------|---|--|
| Inventor<br>and City                               | (1)<br>County | Louis C. Hsu of Dutchess                      | of Fishkill<br>and State of New York         |
|  |               | Rajiv V. Joshi<br>of Westchester              | of Yorktown Heights<br>and State of New York |
|  | (3)<br>County | Jack Allan Mandelman<br>of Henderson          | of Flat Rock<br>and State of North Carolina  |
|  | (4)<br>County | Chih-Chao Yang<br>of Dutchess                 | of Poughkeepsie<br>and State of New York     |
|  | have in       | vented certain improvements in                |  |
| TIILE  |               | ANTI-FUSE STRUCTURE AND METHO<br>RAMMING SAME | DDS OF MAKING AND                            |
|  | execute       | d by me on even date herewith,                |  |
| DATE IHAT<br>INVENTORS<br>SIGNED IHE<br>DECLARATIO |               | 7/24,2006 (2)                                 | , 2006 (3), 2006.                            |

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

CITY (I) at Fishkill, NY SIGNATURE On 1/24, 2002 (Louis C. Hsu) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME

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PATENT

REEL: 018266 FRAME: 0028

Attorney Docket No.: YOR920060202US1

| CITY | and         | Signed (2) at Yorktown Height  | ts, NY                             |                          |           | SIGNATURE  |
|------|-------------|--------------------------------|------------------------------------|--------------------------|-----------|------------|
| DATE |             |                                | (Rajiv V. Joshi) INVE              | NTOR                     | •         |            |
|      |             |                                | FIRST NAME                         | MIDDLE INITIAL           | LAST NAME |            |
| CITY | and         | Signed<br>(3) at Raleigh, NC   |                                    |                          |           | SIGNA IURE |
| DAIE | and         |                                | (Jack Allan Mandelma               | n) INVENTOR              |           | BIONATORS  |
|      |             |                                | FIRST NAME                         | MIDDLE INITIAL           | LASI NAME |            |
| CITY | an <u>d</u> | Signed<br>(4) at Fishkjill, NY | Chit Cls                           | ی۔                       | Las       | SIGNATURE  |
| DATE |             | on 1/2.4, 200 <b>6</b> ,       | (Chih-Chao Yang) INV<br>FIRST NAME | /ENTOR<br>MIDDLE INITIAL | LAST NAME |            |

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Attorney Docket No: YOR920060202US1

## ASSIGNMENT

|  | Wheres      | 15, WC                                |             |                 |               |                                  |                    |  |
|--|-------------|---------------------------------------|-------------|-----------------|---------------|----------------------------------|--------------------|--|
| Inventor   |             |                                       |             |                 |               |                                  |                    |  |
| and City   | (1)         | Louis C. Hs                           | u           |                 |               | of Fishkill                      |                    |  |
|  | County      | of Dutchess                           |             |                 |               | and State of                     | New York           |  |
|  |             |                                       |             |                 |               |                                  |                    |  |
|  | (2)         | Rajiv V. Jos                          |             |                 |               | of Yorktown                      |                    |  |
|  | County      | of Westcheste                         | i           |                 |               | and State of I                   | New York           |  |
|  | (3)         | Jack Allan M                          | ondelmo     | n               |               | of Flat Rock                     |                    |  |
|  |             | of Henderson                          | AMACINIA    | <b>a1</b>       |               |                                  | North Carolina     |  |
|  |             | or rability (VV)                      |             |                 |               | and State of                     | HOLITI CATOMILA    | ,  |
|  | (4)         | Chih-Chao X                           | ang         |                 |               | of Poughkeen                     | osie               |  |
|  | County      | of Dutchess                           | _           |                 |               | and State of                     |                    |  |
|  |             |                                       |             |                 |               |                                  |                    |  |
|  | have inv    | vented certain i                      | mprovem     | ents in         |               |                                  |                    | ď  |
|  | E127/120/   |                                       |             |                 |               |                                  |                    |  |
| TITLE  |             | ANTI-FUSE                             |             | TURE AND        | METHO         | DDS OF MA                        | KING AND           |  |
|  | PROG        | RAMMING                               | SAME        |                 |               |                                  |                    |  |
|  | execute     | d by me on eve                        | n date he   | ewith.          |               |                                  |                    |  |
|  |             | ,                                     |             |                 |               |                                  |                    |  |
| DATE THAT  | (1)         |                                       | _,2006      | (2)             | •             | , 2006 (3)_                      | 20 July            | , 2006.  |
| INVENTORS  |             |                                       |             |                 |               | . ,                              | "                  | ,  |
| SIGNED THE   |             |                                       | ,2006       |                 |               |                                  |                    |  |
| DECLARATIO   | N           |                                       |             |                 |               |                                  |                    |  |
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| a place of busin   | eee at Ne   | v, iiv i Ekiva i iv<br>v: Orchard Pos | olvan bu    | JSINESS MAC     | JAUNES CU     | JRPORATIO:                       | N, a corporation   | of New York, having<br>to acquire the entire     |
| right, title and i   | nterest is  | w Orenard Roz                         | ication an  | d invention a   | nd to any     | Icinanter cauje<br>United States | and foreign v      | s to acquire the entire<br>atents to be obtained |
| therefor.  | TITOL OF ME | * *no one appr                        | remital Mi  | o mvenaon, a    | in in any     | Office States                    | and totaku b       | Richis to de obtained                            |
|  |             |                                       |             |                 |               |                                  |                    |  |
|  | Now the     | rofore, for a va                      | luable cor  | sideration, rec | cipt where    | of is hereby a                   | cknowledged.       | we the above named,                              |
| hereby sell, assi;   | gn, and ir: | ansfer to IBM,                        | its succes  | sors and assign | is, the entit | e right, title ar                | nd interest in the | e said application and                           |
| invention theren   | n disclose  | d for the United                      | d States ar | id foreign cour | stries, and a | ul rights of pri                 | ority resulting:   | from the filing of said                          |
| United States ap   | plication,  | , and we reques                       | t the Com   | missioner of P  | atents to is  | sue any Letter                   | s Patent grante    | d upon the inventions.                           |
| set forth in said  | applicatio  | on to IBM, its s                      | niccessors  | and assigns; a  | and we here   | eby agree that                   | IBM may app        | ly 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 upo  | n to do s   | o by IBM                              |             |                 |               |                                  |                    |  |
|  | Signed      |                                       |             |                 |               |                                  |                    |  |
|  |             | hkill, NY                             |             |                 |               |                                  |                    | aran i a eseme                                   |
|  |             | , 2006,                               | (Louis C    | Hett) TATA      | מרצדו         |                                  |                    | SIGNATURE  |
| art t tar  | wil         | , 2000,                               | FIRST N     |                 |               | EINITIAL                         | LAST NAM           | TD   |
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**PATENT** 

**REEL: 018266 FRAME: 0030** 

Attorney Docket No.: YOR920060202US1

| CIIY         | and | (2) at Yorktown Height                                 |   |   |                          | _SIGNATURE |
|--------------|-----|--|---|---|--------------------------|------------|
| DATE         |     | on, 2006,  | (Rajiv V. Joshi) IN<br>FIRST NAME                     | VENTOR<br>MIDDLE INITIAL                      | LAST NAME                | ļ          |
| CITY<br>DATE | and | Signed<br>(3) at <u>FLAT Rock</u><br>on July 24, 2006, | , NC <u>(Jack</u><br>(Jack Allah Mandel<br>FIRST NAME | allen Wino<br>man) INVENTOR<br>MIDDLE INITIAL | <i>llma</i><br>Lasi name | SIGNATURE  |
| CITY<br>DATE | and | Signed (4) at Fishkill, NY on, 2006,                   | (Chih-Chao Yang) I                                    | NVENTOR<br>MIDDLE INITIAL                     | I AST NAME               | SIGNATURE  |

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Attorney Docket No.: YOR920060202US\

## ASSIGNMENT

|  | Whercas, we   |   |  |
|--|---|---|--|
| Inventor<br>and City   | (i) Louis C. Hsu<br>County of Dutchess  |   | of Fishkill<br>and State of New York   |
|  | (2) Rajiv V. Josh<br>County of Westchester  | ń   | of Yorktown Hoights<br>and State of New York   |
|  | (3) Jack Allan Ma<br>County of Flenderson   | andelman  | of Flat Rock<br>and State of North Carolina  |
|  | (4) Chih-Chao Ya<br>County of Dutchess  | eng   | of Poughkeepsic<br>and State of New York   |
|  | have invented certain it  | mprovements in  |  |
| ILLF   | FUSE/ANTI-FUSE<br>PROGRAMMING   | STRUCTURE AND MET<br>SAME   | HODS OF MAKING AND   |
|  | executed by me on eve   | n date herewith,  |  |
| DATE THAT  | (1)   | ,2006 (2)   | , 2006 (3)   |
| TAILUTER COVIDE  | (4)   |   |  |
| a place of busi<br>right, title and<br>therefor.                         | ness at New Orchard Ro<br>interest in the said appl                                 | lication and invention, and to  | S CORPORATION, a corporation of New York, having , (hereinafter called IBM) desires to acquire the entire any United States and foreign patents to be obtained   |
| invention ther<br>United States a<br>set forth in said<br>Patent on said | sign, and hausfer to IBM<br>ein disclosed for the Unit<br>application, and we reque | i, its successors and assigns, und<br>icd States and foreign countries,<br>est the Commissioner of Patent | whereof is hereby acknowledged, we the above named, entire right, title and interest in the said application and and all rights of priority resulting from the filling of said is to issue any Letters Patent granted upon the inventions to hereby agree that IBM may apply for foreign Letters meetion with the United States and foreign applications |
|  | Signed  |   | SIGNATURE  |
| DATE<br>DATE   | (1) at Fishkill, NY<br>on   | 5, (Louis C Hsu) INVENTOR<br>FIRST NAME MI  | R<br>DDLE INITIAL LAST NAME  |

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| ĊĮŢŸ         | and | Signed<br>(2) at Yorktown Heigh            | s. NY Rajin                      | I V. Joshi                      | \$1G?     | NATURE |
|--------------|-----|--|----------------------------------|---------------------------------|-----------|--------|
| DATE         |     | on 74, 2006                                | (Rajiv V Joshi) IN<br>FIRST NAME | VENTOR<br>MIDDLE INITIAL        | LAST NAME |        |
| CIIY         | and | Signed<br>(3) at Raleigh, NC               |                                  |                                 | SIGN      | NATURE |
| DAIE         |     | 1 / Tr                                     | (Jack Alian Mandel<br>FIRST NAME | man) INVENTOR<br>MIDDLE INITIAL | LAST NAME |        |
| CITY<br>DA18 | and | Signed<br>(4) at Fishkill, NY<br>on, 2005, | (Chih-Chao Yang) I               |                                 |           | NATURE |

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