

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                              |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
|---|---|---------------|----------------|----------------------|------------|--------------------------|------------|-----------------------|------------|----------------------|------------|-----------------------|------------|
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                                  |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>CONVEYING PARTY DATA</b>   |   |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Susann Marie Keohane</td> <td>02/19/2008</td> </tr> <tr> <td>Gerald Francis McBrearty</td> <td>02/19/2008</td> </tr> <tr> <td>Jessica Carol Murillo</td> <td>02/18/2008</td> </tr> <tr> <td>Shawn Patrick Mullen</td> <td>02/19/2008</td> </tr> <tr> <td>Johnny Meng-Han Shieh</td> <td>02/18/2008</td> </tr> </tbody> </table> |   | Name          | Execution Date | Susann Marie Keohane | 02/19/2008 | Gerald Francis McBrearty | 02/19/2008 | Jessica Carol Murillo | 02/18/2008 | Shawn Patrick Mullen | 02/19/2008 | Johnny Meng-Han Shieh | 02/18/2008 |
| Name  | Execution Date                              |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| Susann Marie Keohane  | 02/19/2008                                  |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| Gerald Francis McBrearty  | 02/19/2008                                  |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| Jessica Carol Murillo   | 02/18/2008                                  |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| Shawn Patrick Mullen  | 02/19/2008                                  |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| Johnny Meng-Han Shieh   | 02/18/2008                                  |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>RECEIVING PARTY DATA</b>   |   |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Name:</b>  | International Business Machines Corporation |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Street Address:</b>  | New Orchard Road                            |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>City:</b>  | Armonk                                      |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>State/Country:</b>   | NEW YORK                                    |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Postal Code:</b>   | 10504                                       |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12034350</td> </tr> </tbody> </table>   |   | Property Type | Number         | Application Number:  | 12034350   |                          |            |                       |            |                      |            |                       |            |
| Property Type   | Number                                      |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| Application Number:   | 12034350                                    |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>CORRESPONDENCE DATA</b>  |   |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Fax Number:</b>  | (512)823-1036                               |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
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| <b>Phone:</b>   | 5128230950                                  |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Email:</b>   | pspears@us.ibm.com                          |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Correspondent Name:</b>  | David A. Mims, Jr.                          |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Address Line 1:</b>  | 11400 Burnet Road                           |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Address Line 2:</b>  | IBM- Intellectual Property Law              |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>Address Line 4:</b>  | Austin, TEXAS 78758                         |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>ATTORNEY DOCKET NUMBER:</b>  | AUS920070294US1                             |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |
| <b>NAME OF SUBMITTER:</b>   | David A. Mims, Jr.                          |               |                |                      |            |                          |            |                       |            |                      |            |                       |            |

CH \$40.00 12034350

Total Attachments: 2

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ASSIGNMENT

Whereas, I/ we,

- (1) **Susann Marie Keohane** City of: Austin  
County of: Travis State of: Texas
- (2) **Gerald Francis McBrearty** City of: Austin  
County of: Travis State of: Texas
- (3) **Jessica Carol Murillo** City of: Round Rock  
County of: Williamson State of: TX
- (4) **Shawn Patrick Mullen** City of: Buda  
County of: Hays State of: TX
- (5) **Johnny Meng-Han Shieh** City of: Austin  
County of: Travis State of: Texas

have invented certain improvements in

**Preventing Replay Attacks in Encrypted File Systems**

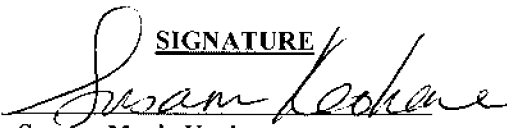
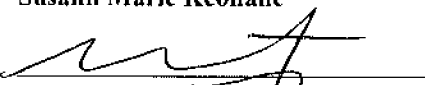
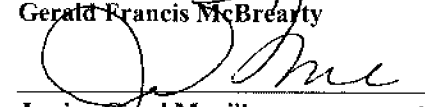

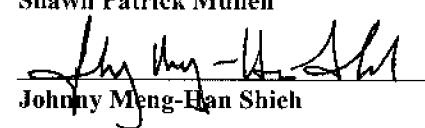
and executed a United States patent application therefor on the following date(s):

- (1) 2/19/2008 (Date)
- (2) 2-19-2008 (Date)
- (3) 2/18/2008 (Date)
- (4) 2/19/08 (Date)
- (5) 2/18/08 (Date)

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 therefore;

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 in all 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.

Signed and sealed:

|     | <u>CITY/STATE</u> | <u>DATE</u>      | <u>SIGNATURE</u>  |
|-----|-------------------|------------------|---|
| (1) | <u>Austin, TX</u> | <u>2/19/2008</u> | <u></u><br>Susann Marie Keohane     |
| (2) | <u>Austin TX</u>  | <u>2-19-2008</u> | <u></u><br>Gerald Francis McBrearty |
| (3) | <u>Austin, TX</u> | <u>2/18/2008</u> | <u></u><br>Jessica Carol Murillo    |
| (4) | <u>Austin, TX</u> | <u>2/19/08</u>   | <u></u><br>Shawn Patrick Mullen     |
| (5) | <u>Austin, TX</u> | <u>2/18/08</u>   | <u></u><br>Johnny Meng-Han Shieh    |