

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|---|---|---------------|---|---------------------|------------------|--------------|------------|----------------|------------|-------------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaomin Duan</td> <td>02/28/2012</td> </tr> <tr> <td>Xiaoxiong Gu</td> <td>02/23/2012</td> </tr> <tr> <td>Yong Liu</td> <td>02/27/2012</td> </tr> <tr> <td>Joel A. Silberman</td> <td>02/27/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Xiaomin Duan | 02/28/2012 | Xiaoxiong Gu | 02/23/2012 | Yong Liu | 02/27/2012 | Joel A. Silberman | 02/27/2012 |
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| Xiaomin Duan | 02/28/2012 | | | | | | | | | | |
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| Joel A. Silberman | 02/27/2012 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>INTERNATIONAL BUSINESS MACHINES CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>New Orchard Road</td> </tr> <tr> <td>City:</td> <td>Armonk</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10504</td> </tr> </table> | | Name: | INTERNATIONAL BUSINESS MACHINES CORPORATION | Street Address: | New Orchard Road | City: | Armonk | State/Country: | NEW YORK | Postal Code: | 10504 |
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| State/Country: | NEW YORK | | | | | | | | | | |
| Postal Code: | 10504 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13408300</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13408300 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13408300 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | YOR920110757US1 (163-469) | | | | | | | | | | |
| NAME OF SUBMITTER: | James J. Bitetto | | | | | | | | | | |
| Total Attachments: 5 | | | | | | | | | | | |

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PATENT
 REEL: 027783 FRAME: 0332

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ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: **THROUGH SILICON VIA NOISE SUPPRESSION USING BURIED INTERFACE CONTACTS**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Serial Number: 13/408,300 (insert series code and serial number here if/when available)

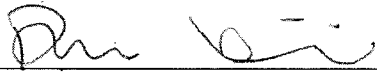
Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

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Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent application Serial Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

[Inventor Signature Pages Follow]


Executed by Inventor 1 of 4

Signature:  Date: 02/28/2012
(Xiaomin Duan)

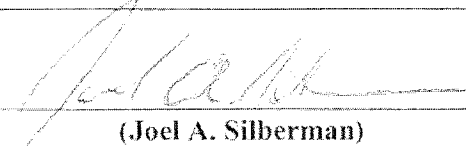
Executed by Inventor 2 of 4

Signature:  Date: 02/23/2012
(Xiaoxiong Gu)

Executed by Inventor 3 of 4

Signature:  Date: 02/27/2012
(Yong Liu)

Executed by Inventor 4 of 4

Signature:  Date: 2-27-12
(Joel A. Silberman)