

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Kenji Suzuki | 10/15/2007 |
| Ishizaka Tadahiro | 10/15/2007 |
| Miho Jomen | 10/15/2007 |
| Jonathan Rullan | 10/15/2007 |
| RECEIVING PARTY DATA | |
| Name: | Tokyo Electron Limited |
| Street Address: | 3-6 Akasaka 5-Chome, Minato-Ku |
| Internal Address: | TBS Broadcast Center |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 107 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 11864566 |
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| Address Line 2: | 2700 Carew Tower |
| Address Line 4: | Cincinnati, OHIO 45202 |
| ATTORNEY DOCKET NUMBER: | TTCA-229 |
| NAME OF SUBMITTER: | Kristi L. Davidson |

OP \$40.00 11864566

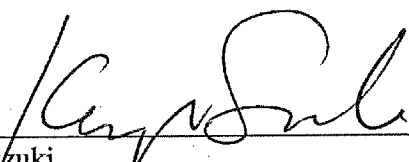
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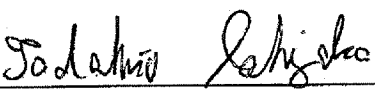
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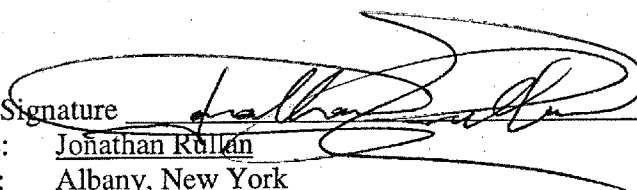
ASSIGNMENT OF INVENTION AND PATENTS THEREON

For valuable consideration, we, **Kenji Suzuki, Ishizaka Tadahiro, Miho Jomen, Jonathan Rullan**, hereby assign to **Tokyo Electron Limited**, a Corporation of Japan and having a place of business at **TBS Broadcast Center, 3-6 Akasaka 5-Chome, Minato-ku, Tokyo, 107 JAPAN** and its successors and assigns (collectively hereinafter called "the Assignee"), our entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for U.S. Patent entitled **VOID-FREE COPPER FILLING OF RECESSED FEATURES FOR SEMICONDUCTOR DEVICES**, and filed on **September 28, 2007** as Patent Application No. **11/864,566** preparatory to obtaining Letters Patent of the U.S. therefor, this assignment including said application, any continuation, division or continuation-in-part thereof and/or substitute therefor, any and all U.S. and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. **We hereby authorize and request any one of the attorneys of Wood, Herron & Evans, L.L.P., 2700 Carew Tower, 441 Vine Street, Cincinnati, OH 45202, to insert herein the filing date and application serial number of said application when known.**

Inventor's Signature  Date 09 15, 2007
Full Name: Kenji Suzuki
Residence: Guilderland, New York

Inventor's Signature  Date Oct./15/07
Full Name: Ishizaka Tadahiro
Residence: Watervliet, New York

Inventor's Signature  Date Oct. 15. 2007
Full Name: Miho Jomen
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Inventor's Signature  Date OCTOBER 15, 2007
Full Name: Jonathan Kellan
Residence: Albany, New York