

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT												
NATURE OF CONVEYANCE:	Corrective Assignment to correct the name of the second Assignor from Ishizaka Tadahiro to Tadahiro Ishizaka previously recorded on Reel 020139 Frame 0549. Assignor(s) hereby confirms the correct name of the second Assignor is Tadahiro Ishizaka as signed on the original Assignment Document.												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kenji Suzuki</td><td>10/15/2007</td></tr><tr><td>Tadahiro Ishizaka</td><td>10/15/2007</td></tr><tr><td>Miho Jomen</td><td>10/15/2007</td></tr><tr><td>Jonathan Rullan</td><td>10/15/2007</td></tr></tbody></table>		Name	Execution Date	Kenji Suzuki	10/15/2007	Tadahiro Ishizaka	10/15/2007	Miho Jomen	10/15/2007	Jonathan Rullan	10/15/2007		
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<table border="1"><tr><td>Name:</td><td>Tokyo Electron Limited</td></tr><tr><td>Street Address:</td><td>3-1 Akasaka 5-chome, Minato-ku</td></tr><tr><td>Internal Address:</td><td>Akasaka Biz Tower</td></tr><tr><td>City:</td><td>Tokyo</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>107</td></tr></table>		Name:	Tokyo Electron Limited	Street Address:	3-1 Akasaka 5-chome, Minato-ku	Internal Address:	Akasaka Biz Tower	City:	Tokyo	State/Country:	JAPAN	Postal Code:	107
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number: (513)241-6234 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 513-241-2324													
Email: kdavidson@whepatent.com													
Correspondent Name: Kristi L. Davidson													
Address Line 1: 441 Vine Street													
Address Line 2: Suite 2700 Carew Tower													
Address Line 4: Cincinnati, OHIO 45202													
ATTORNEY DOCKET NUMBER:	TTCA-229												

OP \$40.00 11864566

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PATENT
REEL: 025053 FRAME: 0268

NAME OF SUBMITTER:

Debbie C. Goodman

Total Attachments: 6

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J:KRISTI L. DAVIDSON COMPA :441 VINE STREET

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.111/20/2007
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
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OP \$40.00 11864566

O:KRISTI L. DAVIDSON COMPA :441 VINE STREET

Total Attachments: 2

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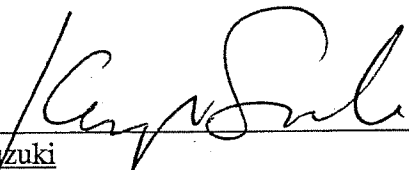
ASSIGNMENT OF INVENTION AND PATENTS THEREON


Handwritten: JES 9/28/10


Handwritten: Tadahiro Ishizaka

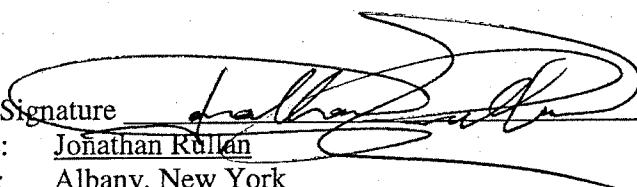
For valuable consideration, we, **Kenji Suzuki, ~~Ishizaka Tadahiro~~, Miho Jomen,**

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 Ishizaka
Residence: Watervliet, New York *had 9/29/10*

Inventor's Signature  Date Oct. 15. 2007
Full Name: Miho Jomen
Residence: Watervliet, New York

Inventor's Signature  Date OCTOBER 15, 2007
Full Name: Jonathan Rollan
Residence: Albany, New York