

## PATENT ASSIGNMENT

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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>Alok Ranjan</td> <td>02/28/2012</td> </tr> <tr> <td>Kaushik Arun Kumar</td> <td>02/28/2012</td> </tr> </tbody> </table>		Name	Execution Date	Alok Ranjan	02/28/2012	Kaushik Arun Kumar	02/28/2012				
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<table border="1"> <tr> <td>Name:</td> <td>Tokyo Electron Limited</td> </tr> <tr> <td>Street Address:</td> <td>Akasaka Biz Tower, 3-1 Akasaka 5-chome</td> </tr> <tr> <td>City:</td> <td>Minato-ku, Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>107-6325</td> </tr> </table>		Name:	Tokyo Electron Limited	Street Address:	Akasaka Biz Tower, 3-1 Akasaka 5-chome	City:	Minato-ku, Tokyo	State/Country:	JAPAN	Postal Code:	107-6325
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (480)539-2100</p> <p>Phone: (480) 539-2102</p> <p>Email: TEHIPDocket@us.tel.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Tokyo Electron U.S. Holdings, Inc.</p> <p>Address Line 1: 2545 W. Frye Rd.</p> <p>Address Line 2: Suite 1</p> <p>Address Line 4: Chandler, ARIZONA 85224</p>											
ATTORNEY DOCKET NUMBER:	TTCA-391										
NAME OF SUBMITTER:	Eric Strang										
<p>Total Attachments: 1</p> <p>source=TTCA-391_PRI_assign#page1.tif</p>											

CH \$40.00 13413878

ASSIGNMENT OF INVENTION AND PATENTS THEREON

For valuable consideration, I/we, **Alok RANJAN & Kaushik Arun KUMAR**, hereby assign to **Tokyo Electron Limited**, a Corporation of Japan and having a place of business at **Akasaka Biz Tower, 3-1 Akasaka 5-chome, Minato-ku, Tokyo 107-6325, Japan**, and its successors and assigns (collectively hereinafter called "the Assignee"), my entire right, title and interest throughout the world in the inventions and improvements which are subject of an application of United States Patent entitled **FORMATION OF SiOCI-CONTAINING LAYER ON EXPOSED LOW-K SURFACES TO REDUCE LOW-K DAMAGE**, and filed on 03/06/2012 as Patent Application No. 13/413,878 preparatory to obtaining Letters Patent of the United States therefore, this assignment including said application, any continuation, division or continuation-in-part thereof and/or substituted therefore, any and all United States 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 my 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 myself and my 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. I hereby authorize and request that any one of the attorneys or agents of Tokyo Electron U.S. Holdings, 2400 Grove Boulevard, Austin, Texas 78741, to insert herein the filing date and application serial number of said application when known.

Inventor's Signature: Alok Ranjan Date: 2/28/2012

Full Name: Alok RANJAN

Residence: 200 Blessing Road, Apartment 67, Slingerlands, NY 12159

Inventor's Signature: Kaushik Date: 2/28/2012

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