

PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Yuki Chiba	06/21/2012
RECEIVING PARTY DATA	
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
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13530546
CORRESPONDENCE DATA	
Fax Number:	(480)539-2100
Phone:	(480) 539-2102
Email:	TEHIPDocket@us.tel.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Tokyo Electron U.S. Holdings, Inc.
Address Line 1:	2545 W. Frye Rd.
Address Line 2:	Suite 1
Address Line 4:	Chandler, ARIZONA 85224
ATTORNEY DOCKET NUMBER:	TTCA-395
NAME OF SUBMITTER:	Eric Strang
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ASSIGNMENT OF INVENTION AND PATENTS THEREON

For valuable consideration, I/we, **Yuki Chiba**, 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 **Sidewall Protection of Low-k Material During Etching and Ashing**, and filed on 6/22/2012 as Patent Application No. 13/530,546 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: Yuki Chiba Date: 06/21/2012

Full Name: Yuki Chiba

Residence: 16 Rockrose Drive, East Greenbush, New York 12061 USA