

PATENT ASSIGNMENT

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| Name | Execution Date |
| Kazuhito Tohnoe | 03/29/2010 |
| Frank M Cerio Jr. | 03/29/2010 |
| RECEIVING PARTY DATA | |
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| City: | Minato-ku, Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 107-6325 |
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| Application Number: | 12749782 |
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ASSIGNMENT OF INVENTION AND PATENTS THEREON

For valuable consideration, I/we, **Kazuhito Tohnoe and Frank M. Cerio, Jr.** 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 **SURFACE CLEANING AND SELECTIVE DEPOSITION OF METAL-CONTAINING CAP LAYERS FOR SEMICONDUCTOR DEVICES**, and filed on MARCH 30, 2010 as Patent Application No. 12749782 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: Kazuhito Tohnoe Date: 3/29/10.
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Attorney Docket No. TTCA-329

Inventor's Signature: Frank M Cerio Jr Date: 3/29/10

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