

## 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>Genji Nakamura</td> <td>10/18/2012</td> </tr> <tr> <td>Toshio Hasegawa</td> <td>10/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Genji Nakamura	10/18/2012	Toshio Hasegawa	10/18/2012				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Tokyo Electron Limited</td> </tr> <tr> <td>Street Address:</td> <td>Akasaka Biz Tower, 3-6 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, 3-6 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: 4805392100  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 4805392106        Email: audunn.ludviksson@us.tel.com        Correspondent Name: Audunn Ludviksson        Address Line 1: 2545 W. Frye Road        Address Line 2: Suite 1        Address Line 4: Chandler, ARIZONA 85224</p>											
ATTORNEY DOCKET NUMBER:	TTCA-415										
NAME OF SUBMITTER:	Audunn Ludviksson										
	This document serves as an Oath/Declaration (37 CFR 1.63).										
<p>Total Attachments: 2        source=TTCA-415_Exec_Decl_Assignm#page1.tif        source=TTCA-415_Exec_Decl_Assignm#page2.tif</p>											

CH \$40.00 13632101

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**

**Title of Invention:** DUAL WORKFUNCTION SEMICONDUCTOR DEVICES AND  
METHODS FOR FORMING THEREOF

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As a below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or  
☒ United States application number or PCT international application number  
13632101 filed on September 30, 2012

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

**Assignor(s):** The Assignor(s) is/are the undersigned inventor(s). The undersigned inventor(s) has/have made certain inventions, improvements, and/or discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application.

**Assignee:** The Assignee is **Tokyo Electron Limited**, a corporation of Japan having a place of business at Tokyo, Japan (herein referred to as the "ASSIGNEE"). The term "ASSIGNEE" used herein includes successors, legal representatives, and assigns of the ASSIGNEE. The ASSIGNEE desires to acquire the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents obtained from the Invention.

As an undersigned inventor, I hereby assign to the ASSIGNEE my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefrom in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, granted for the invention, to the ASSIGNEE, and I authorize and request foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE. The entire

worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made. I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, for the ASSIGNEE, whenever requested by the ASSIGNEE.

As an undersigned inventor, I acknowledge prior and ongoing obligations to sell, assign, and/or transfer my rights in the Invention to the ASSIGNEE. I have not sold, assigned, or otherwise transferred my rights in the Invention to another, and I am under no obligation to sell, assign, or otherwise transfer my rights in the Invention to another. I also hereby grant the ASSIGNEE, the right to insert in this Declaration and Assignment any further identification (including, but not limited to, patent application number and filing date) which may be necessary or desirable for recording this Declaration and Assignment.

(1) Legal name of Inventor: Genji Nakamura  
Inventor's Signature: Genji Nakamura Date: 10/18/2012  
Residence City/State/Country: Delmar / NY / US  
Mailing Address: 60 Mansion Blvd, Apt N, Delmar, NY 12054, US  
Citizenship: JP

(2) Legal name of Inventor: Toshio Hasegawa  
Inventor's Signature: Toshio Hasegawa Date: Oct. 18, 2012  
Residence City/State/Country: Delmar / NY / US  
Mailing Address: 59 Mansion Blvd, Apt J, Delmar, NY 12054, US  
Citizenship: JP