#### 11/06/2014 503051464

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RYOHEI TAKEDA	10/27/2014
MITSUHIRO TOMURA	10/27/2014
AKINORI KITAMURA	10/27/2014
SHINJI HIGASHITSUTSUMI	10/26/2014
HIROTO OHTAKE	10/27/2014
TAKASHI TSUKAMOTO	10/29/2014

### **RECEIVING PARTY DATA**

Name:	TOKYO ELECTRON LIMITED
Street Address:	3-1, AKASAKA 5-CHOME, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	107-6325

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14399360

#### **CORRESPONDENCE DATA**

Fax Number: (202)783-6031

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 202-783-6040 Email: mshirai@rfem.com

ROTHWELL, FIGG, ERNST & MANBECK, P.C. **Correspondent Name:** 

607 14TH STREET, N.W. Address Line 1:

Address Line 2: SUITE 800

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	4030-0446US
NAME OF SUBMITTER:	STEVEN P. WEIHROUCH
SIGNATURE:	/Steven P.Weihrouch/
DATE SIGNED:	11/06/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

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**REEL: 034121 FRAME: 0280** 503051464

# **Total Attachments: 3** source=4030-0446ASN#page1.tif source=4030-0446ASN#page2.tif

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PATENT REEL: 034121 FRAME: 0281

#### DECLARATION AND ASSIGNMENT

Title of Invention: PL	ASMA ETCHING METHOD
As a below named inv	entor, I hereby declare that:
This declaration	on is directed to:
[] the	attached application (Attorney Docket Number), or
	Inited States application or PCT international application number T/JP2013/064916 filed on May 29, 2013.
The above-ide	ntified application was made or authorized to be made by me.
I believe that I the application.	am the original inventor or an original joint inventor of a claimed invention in
I have reviewe	ed and understand the contents of the 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 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, <u>TOKYO ELECTRON LIMITED</u>, a corporation of Japan having a place of business at 3-1 Akasaka 5-chome, Minato-ku, Tokyo 107-6325, Japan (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, continuations-in-part, 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, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the INVENTION, to ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns 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; and each undersigned inventor agrees 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, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

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.

Legal Name of Inventor: Ryohei TAKEDA	
Signature: Ryohei Takada	Date: 2014/10/27
Legal Name of Inventor: Mitsuhiro TOMURA	
Signature: Mitsuhiro Tomura	Date: 2014/10/27
Legal Name of Inventor: Akinori KITAMURA	
Signature: Aki novi Kitamuna	Date: 2014/10/29
Legal Name of Inventor: Shinji HIGASHITSUTSUMI	
Signature:	Date:
Legal Name of Inventor: Hiroto OHTAKE	
Signature:	Date:
Legal Name of Inventor: <b>Takashi TSUKAMOTO</b> 塚 オコル	
Signature: 1 a ka shi Tsu kamoto	Date: 2-14/10/29

had this Assignment not been made; and each undersigned inventor agrees 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, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

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.

Legal Name of Inventor: Ryonel TAREDA	
Signature:	Date:
Legal Name of Inventor: Mitsuhiro TOMURA	
Signature:	Date:
Legal Name of Inventor: Akinori KITAMURA	Į.
Signature:	Date:
Legal Name of Inventor: Shinji HIGASHITSUTSUMI	
Signature: Shingi Higashi tsu Tsu me	Date: 10/26 /2014
Legal Name of Inventor: Hiroto OHTAKE	
Signature: Las Care	Date! 10/27/14
Legal Name of Inventor: Takashi TSUKAMOTO	
Signature:	Date:

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