#### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Tetsuya NISHIZUKA	05/13/2011
Masahiko TAKAHASHI	05/13/2011
Toshihisa OZU	06/08/2011

## 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:	13128951

### CORRESPONDENCE DATA

Fax Number: (202)797-8188

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202 797 4181

Email: IPUSA@IPUSAPAT.COM

Correspondent Name: IPUSA, P.L.L.C

Address Line 1: 1054 31ST STREET, N.W.

Address Line 2: Suite 400

Address Line 4: Washington, DISTRICT OF COLUMBIA 20007

ATTORNEY DOCKET NUMBER:	11EL-006
NAME OF SUBMITTER:	Martin A. Weeks

#### Total Attachments: 5

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PATENT REEL: 026481 FRAME: 0012 H \$40.00 13128

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Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008) U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office RECORDATION FORM COVER SHEET PATENTS ONLY To the Director of the U.S. Patent and Trademark Office; Please record the attached documents or the new address(es) below. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies) Tetsuya NISHIZUKA, Masahiko TAKAHASHI, Toshihisa OZU Name: TOKYO ELECTRON LIMITED Internal Address: Additional name(s) of conveying party(les) attached? Yes 🗹 No 3. Nature of conveyance/Execution Date(s): Street Address: 3-1, Akasaka 5-Chome, Minato-Ku, Execution Date(s) May 13 and June 8, 2011 ✓ Assignment Merger City: Tokyo \_\_\_ Security Agreement Change of Name Joint Research Agreement State: \_ Government Interest Assignment Zip:107-6325 Country: Japan Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? 🔲 Yes 🗹 No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 13/128,951 Additional numbers attached? Yes V No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be malled: involved: 1 Name: IPUSA, PLLC 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Internal Address:\_\_ ✓ Authorized to be charged to deposit account Enclosed Street Address: 1054 31st Street, N.W. Suite 400 None required (government interest not affecting title) 8. Payment Information City: Washington a. Credit Card Last 4 Numbers \_\_ State: DC \_Zip:20007 Expiration Date \_\_ Phone Number: 202-797-4181 b. Deposit Account Number 50-4424 Fax Number: 202-797-8188 Authorized User Name Martin A. Weeks Email Address: jpusa@jpusapat.com 9. Signature: Martin a. We 6/20/2011 Total number of pages including cover

> Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1460, Alexandria, V.A. 22313-1450

Martin A. Weeks

Name of Person Signing

sheet, attachments, and documents:

# **ASSIGNMENT**

THIS ASSIGNMENT, by (1) Tetsuva NISHIZUKA, (2) Masahiko TAKAHASHI and (3) Toshihisa OZU (hereinafter referred to as "Assignors"), residing at (1) Beaverton, Oregon, (2) Beaverton Oregon and (3) Amagasaki-Shi, Hyogo, Japan respectively;

WHEREAS, Assignors have invented certain new and useful improvements in

# PLASMA ETCHING METHOD AND PLASMA ETCHING APPARATUS

set forth in a patent application for Letters Patent of the United States, executed concurrently herewith; and

WHEREAS, TOKYO ELECTRON LIMITED (hereinafter referred to as "Assignee"), having offices at 3-1, Akasaka 5-Chome, Minato-Ku, Tokyo 107-6325

Japan, is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuation-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles, and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignce, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document: All practitioners associated with the Customer Number 77464.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

	5/13/11	Idronya Nishizula
Date		Tetsuya NISHIZUKA
	5/13/11	Mosalisko Tapahashi
Date		Masahiko TAKAHASHI
		•
Date		Toshihisa OZU

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WHEREAS, Assignors have invented certain new and useful improvements in

## PLASMA ETCHING METHOD AND PLASMA ETCHING APPARATUS

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Japan, is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuation-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles, and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

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AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

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AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date	Tetsuya NISHIZUKA
Date	Masahiko TAKAHASHI
2011, 6,8	Toshihisa Ozy
Date	Toshihisa OZU