

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>Merritt Funk</td> <td>03/29/2012</td> </tr> <tr> <td>Lee Chen</td> <td>03/29/2012</td> </tr> <tr> <td>Barton Lane</td> <td>03/29/2012</td> </tr> <tr> <td>Jianping Zhao</td> <td>03/29/2012</td> </tr> <tr> <td>Radha Sundararajan</td> <td>03/29/2012</td> </tr> </tbody> </table>		Name	Execution Date	Merritt Funk	03/29/2012	Lee Chen	03/29/2012	Barton Lane	03/29/2012	Jianping Zhao	03/29/2012	Radha Sundararajan	03/29/2012
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<table border="1"> <tr> <td>Name:</td> <td>Tokyo Electron Limited</td> </tr> <tr> <td>Street Address:</td> <td>Akasaka Biz Tower</td> </tr> <tr> <td>Internal Address:</td> <td>3-1 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	Internal Address:	3-1 Akasaka 5-chome	City:	Minato-ku, Tokyo	State/Country:	JAPAN	Postal Code:	107-6325
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PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13433078</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13433078								
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CORRESPONDENCE DATA													
<p>Fax Number: (513)241-6234 Phone: 5132412324 Email: lbyrd@whe-law.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Chastity D.S. Whitaker, Ph.D. Address Line 1: 441 Vine Street Address Line 2: Suite 2700 Address Line 4: Cincinnati, OHIO 45202</p>													
ATTORNEY DOCKET NUMBER:	TEA-084												

OP \$40.00 13433078

NAME OF SUBMITTER:

Chastity D.S. Whitaker

Total Attachments: 2

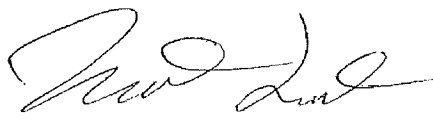
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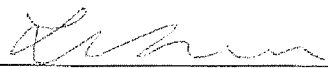
ASSIGNMENT OF INVENTION AND PATENTS THEREON

For valuable consideration, we, **Merritt Funk, Lee Chen, Barton Lane, Jianping Zhao, and Radha Sundararajan**, 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"), our entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent filed herewith, entitled **METHODS OF ELECTRICAL SIGNALING IN AN ION ENERGY ANALYZER** and filed on March 28, 2012 as Patent Application No. 13/433,078 preparatory to obtaining Letter Patent of the U.S. thereof, this assignment including said application, any continuation, division or continuation-in-part thereof and/or substitute therefor, 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 our 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 ourselves and our respective 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.

We hereby authorize and request any one of the attorneys of Wood, Herron & Evans L.L.P., 2700 Carew Tower, 441 Vine Street, Cincinnati, OH 45202, to insert herein the filing date and application serial number of said application when known.

Inventor's Signature  Date 3/29/2012

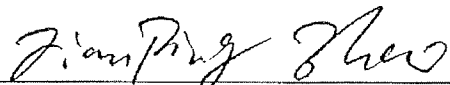
Full Name: Merritt Funk
Residence: Austin, Texas

Inventor's Signature  Date 3/29/2012

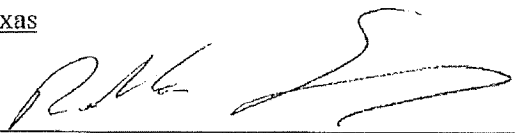
Full Name: Lee Chen
Residence: Cedar Creek, Texas

Inventor's Signature  Date 3/29/2012

Full Name: Barton Lane
Residence: Austin, Texas

Inventor's Signature  Date 3/29/2012

Full Name: Jianping Zhao
Residence: Austin, Texas

Inventor's Signature  Date 3/29/2012

Full Name: Radha Sundararajan
Residence: Dripping Springs, Texas