

## 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>Tsuyoshi MORIYA</td> <td>03/27/2012</td> </tr> <tr> <td>Syunsuke TOYOIZUMI</td> <td>03/27/2012</td> </tr> <tr> <td>Katsuyuki TAKAHIRO</td> <td>03/27/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tsuyoshi MORIYA	03/27/2012	Syunsuke TOYOIZUMI	03/27/2012	Katsuyuki TAKAHIRO	03/27/2012		
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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, 3-1, Akasaka 5-chome, Minato-ku</td> </tr> <tr> <td>City:</td> <td>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, 3-1, Akasaka 5-chome, Minato-ku	City:	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>13428614</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13428614						
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CORRESPONDENCE DATA											
<p>Fax Number: (703)413-2220          Phone: (703) 413-3000          Email: bpalmer@oblon.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: Oblon, Spivak, et al.          Address Line 1: 1940 Duke Street          Address Line 4: Alexandria, VIRGINIA 22314</p>											
ATTORNEY DOCKET NUMBER:	396911US41										
NAME OF SUBMITTER:	Brian Palmer										
Total Attachments: 2 source=396911USASSN#page1.tif source=396911USASSN#page2.tif											

OP \$40.00 13428614

## Assignment of Application

INVENTOR NAMES  
AND RESIDENCE  
ADDRESSES OF  
THE INVENTORS:

WHEREAS, I (WE) 1. Tsuyoshi MORIYA of c/o TOKYO ELECTRON LIMITED, Akasaka Biz Tower,  
3-1 Akasaka 5-chome, Minato-ku, Tokyo 107-6325 Japan;  
2. Syunsuke TOYOIZUMI of c/o TOKYO ELECTRON FE LIMITED, 30-7 Sumiyoshi-cho,  
2-chome, Fuchu City, Tokyo 183-8705 Japan; and  
3. Katsuyuki TAKAHIRO of c/o TOKYO ELECTRON FE LIMITED, 30-7 Sumiyoshi-cho,  
2-chome, Fuchu City, Tokyo 183-8705 Japan

, respectively,

INVENT TITLE OF  
INVENTION:

have invented certain new and useful improvements in: PARTICLE CAPTURE UNIT, METHOD FOR  
MANUFACTURING THE SAME, AND SUBSTRATE PROCESSING APPARATUS

(Application No. 13/428,614, filed March 23, 2012), and

INVENTOR NAME  
AND ADDRESS OF  
COMPANY OR  
OTHER ASSIGNEE:

WHEREAS, TOKYO ELECTRON LIMITED

(hereinafter referred to as "ASSIGNEE") having a place of business at: Akasaka Biz Tower, 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 invention  
 and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in  
 any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby  
 acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer  
 unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial  
 possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which  
 may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in  
 and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions  
 and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the  
 assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE,  
 its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and  
 entirely as the same would have been held by me (us) had this Assignment and sale not been made.

12/04

03/28/2012 10:16PM (GMT-04:00)

**PATENT**  
**REEL: 028336 FRAME: 0900**

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: March 27, 2012

Tsuyoshi Moriya  
(Signature of Inventor) Tsuyoshi MORIYA

Date: March 27, 2012

Syunsuke Toyozumi  
(Signature of Inventor) Syunsuke TOYOIZUMI

Date: March 27, 2012

Katsuyuki Takahiro  
(Signature of Inventor) Katsuyuki TAKAHIRO

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.  
ATTORNEYS AT LAW  
1940 DUKE STREET  
ALEXANDRIA, VIRGINIA 22314

12/04

03/28/2012 10:16PM (GMT-04:00)

RECORDED: 06/07/2012

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REEL: 028336 FRAME: 0901