

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Tatsuru Kuramoto</td> <td>02/20/2012</td> </tr> <tr> <td>Makoto Aoshima</td> <td>02/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tatsuru Kuramoto	02/20/2012	Makoto Aoshima	02/17/2012				
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Tatsuru Kuramoto	02/20/2012										
Makoto Aoshima	02/17/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>JEOL Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>1-2, Musashino 3-chome, Akishima</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>196-8558</td> </tr> </table>		Name:	JEOL Ltd.	Street Address:	1-2, Musashino 3-chome, Akishima	City:	Tokyo	State/Country:	JAPAN	Postal Code:	196-8558
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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>13424808</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13424808						
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Application Number:	13424808										
CORRESPONDENCE DATA											
<p>Fax Number: (412)945-5933          Phone: 412-471-8815          Email: assignments@webblaw.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: The Webb Law Firm          Address Line 1: One Gateway Center          Address Line 2: 420 Ft. Duquesne Blvd., Ste 1200          Address Line 4: Pittsburgh, PENNSYLVANIA 15222</p>											
ATTORNEY DOCKET NUMBER:	0116-120154										
NAME OF SUBMITTER:	David C. Hanson										
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif											

OP \$40.00 13424808

**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.

**1. Name of conveying party(ies)**

Tatsuru Kuramoto  
Makoto Aoshima

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) February 20, 2012, February 17, 2012

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: JEOL Ltd.

Internal Address: \_\_\_\_\_

Street Address: 1-2, Musashino 3-chome, Akishima

City: Tokyo

State: \_\_\_\_\_

Country: JAPAN

Zip: 196-8558

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)

13/424,808

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: David C. Hanson

Internal Address: The Webb Law Firm

Street Address: One Gateway Center  
420 Ft. Duquesne Blvd., Ste 1200

City: Pittsburgh

State: PA Zip: 15222

Phone Number: 412-471-8815

Fax Number: 412-945-5933

Email Address: assignments@webblaw.com

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☒ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

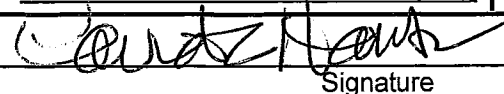
**8. Payment Information**

a. Credit Card Last 4 Numbers 4775  
Expiration Date 05/2012

b. Deposit Account Number 23-0650

Authorized User Name \_\_\_\_\_

**9. Signature:**

  
Signature

March 21, 2012  
Date

David C. Hanson, Reg. No. 23,024

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to the undersigned, said undersigned, TATSURU KURAMOTO and MAKOTO AOSHIMA, hereby sell and assign to JEOL LTD. of 1-2, Musashino 3-chome, Akishima, Tokyo 196-8558, Japan (hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention known as ELECTRON DETECTING MECHANISM AND CHARGED PARTICLE BEAM SYSTEM EQUIPPED THEREWITH for which we have this day executed an application for United States Letters Patent.

The undersigned agree to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize and request the Commissioner for Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenant that they have full right to convey the entire interest herein assigned, and that they have not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant David C. Hanson (Registration No. 23,024); Richard L. Byrne (Registration No. 28,498) and Randall L. Notzen (Registration No. 36,882), whose address is One Gateway Center, 420 Ft. Duquesne Blvd., Suite 1200, Pittsburgh, Pennsylvania 15222, (Telephone No. 412-471-8815) 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.

In witness whereof, executed by the undersigned on the date opposite the undersigned's names.

Date February 20, 2012 Inventor Tatsuru Kuramoto  
Tatsuru KURAMOTO

Date February 17, 2012 Inventor Makoto Aoshima  
Makoto AOSHIMA