

<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p style="font-size: 1.5em; margin: 0;">12-19-03</p> <p style="margin: 0;">RECC</p> </div> <div style="text-align: center;"> <p style="font-size: 1.2em; margin: 0;">12-30-2003</p> <p style="font-size: 1.2em; margin: 0;">102634568</p> </div> <div style="text-align: right;"> <p style="font-size: 0.8em; margin: 0;">U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Docket No. 740756-2690</p> </div> </div>	
To the Honorable Commissioner of Patent	
<p>1. Name of conveying party:</p> <p>(1) Hideto OHNUMA</p> <p>(2) Yukie NEMOTO</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>3. Nature of conveyance:</p> <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Assignment  <input type="checkbox"/> Security Agreement  <input type="checkbox"/> Other         </div> <div> <input type="checkbox"/> Merger  <input type="checkbox"/> Change of Name         </div> </div> <p>Execution Date(s):</p> <p>1<sup>st</sup> Inventor: November 28, 2003</p> <p>2<sup>nd</sup> Inventor: December 12, 2003</p>	<p>2. Name and address of receiving party:</p> <p>Name: <u>Semiconductor Energy Laboratory Co., Ltd.</u></p> <p>Street Address: <u>398, Hase,</u></p> <p>City: <u>Atsugi-shi</u> State: <u>Kanagawa-ken</u> Zip: _____</p> <p>Country: <u>Japan</u> Postal Code: <u>243-0030</u></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>4. Application number(s) or patent number(s);</p> <p>If this document is being filed together with a new application, the filing date of the application is: <u>November 28, 2003 and December 12, 2003</u></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>A. Patent Application No.(s) <u>10739155</u></p> </div> <div style="width: 45%;"> <p>B. Patent No.(s)</p> </div> </div> <p style="text-align: center;">Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Attorney Name: <u>Jeffrey L. Costellia</u></p> <p>Firm Name: <u>Nixon Peabody LLP</u></p> <p>Internal Address: <u>Suite 900</u></p> <p>Street Address: <u>401 Ninth Street, N.W.</u></p> <p>City: <u>Washington</u> State: <u>D.C.</u> Zip: <u>20004</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) .....\$40.00</p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number:</p> <p style="text-align: center;"><u>19-2380 (740756-2690)</u></p> <p style="text-align: center;">(Attach duplicate copy of this page if paying by deposit account)</p>
<b>DO NOT USE THIS SPACE</b>	
<p>9. Statement and signature.</p> <p><i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i></p> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 40%;"> <p><u>Jeffrey L. Costellia</u></p> <p>Name of Person Signing</p> </div> <div style="width: 30%; text-align: center;"> <p>Signature</p> </div> <div style="width: 30%;"> <p><u>December 19, 2003</u></p> <p>Date</p> </div> </div> <p style="text-align: right;">Total number of pages including cover sheet, attachments, and documents: <u>3</u></p>	

Mail documents to be recorded with required cover sheet information to:  
Mail Stop Assignment Recordation Services, Director of the US Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450

12/29/2003 6TON11 00000086 192380 10739155

01 FC:8021 40.00 DA

**NIXON PEABODY LLP**  
United States Patent Rights

Attorney Docket No. \_\_\_\_\_

**ASSIGNMENT**

Serial No. \_\_\_\_\_

Filed \_\_\_\_\_

WHEREAS, Hideto OHNUMA and Yukie NEMOTO  
(hereinafter designated as the undersigned) has (have) invented certain new and useful  
improvements in FIELD EMISSION DEVICE AND MANUFACTURING METHOD  
THEREOF for which an application for Letters Patent of the United States of America has been  
executed by the undersigned on \_\_\_\_\_ and;

WHEREAS, Semiconductor Energy Laboratory Co., Ltd. of 398, Hase, Atsugi-shi,  
Kanagawa-ken 243-0036 Japan and its heirs, successors, legal representatives and assigns  
(hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest  
in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the  
United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the  
undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and  
valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these  
presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said  
invention in the United States of America and its territories and for all foreign countries,  
dependencies and possessions and the entire right, title and interest in and to any and all Letters  
Patent(s) which may be granted therefor in the United States of America and its territories,  
dependencies and possessions, and in and to any and all divisions, reissues, continuations and  
extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) 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(s) to execute all papers necessary in connection with any  
interference which may be declared concerning this application or any continuation, division or  
reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the  
Assignee in every way possible in obtaining and producing evidence and proceeding with such  
interference.

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

The undersigned agree(s) to perform all affirmative acts which may be necessary to

obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America 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 covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm Nixon Peabody LLP 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 U.S. Patent and Trademark Office for recordation of this document.

*In witness thereof*, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 11/28/2003, Name of Inventor Hideto Ohnuma (SEAL)  
Hideto OHNUMA

Date 12/12/2003, Name of Inventor Yukie Nemoto (SEAL)  
Yukie NEMOTO

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_ (SEAL)

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_ (SEAL)

(This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed by at least two other persons who should sign here.)

Witness	(name)	(signature)
Witness	(name)	(signature)
Witness	(name)	(signature)