To the Honorable Commissioner of Patents and Trademarks:

1. Name of conveying party(ies):
   Shunpei YAMAZAKI
   Toru TAKAYAMA
   Junya MARUYAMA
   Yumiko OHNO
   Additional name(s) of conveying party(ies) attached? □ Yes □ No

2. Name and address of receiving party(ies):
   Name: Semiconductor Energy Laboratory Co., Ltd.
   Internal Address: ____________________________
   Street Address: 398 Hase
   Atsugi-shi, Kanagawa-ken
   Country: Japan Postal Code: 243-0036
   Additional name(s) & address(es) attached? □ Yes □ No

3. Nature of conveyance:
   □ Assignment □ Merger
   □ Security Agreement □ Change of Name
   □ Other

   Execution Date: October 20, 2003; October 21, 2003;
   October 22, 2003; October 22, 2003

4. Application number(s) or patent number(s);
   If this document is being filed together with a new application, the execution date of the application is:
   A. Patent Application No.(s)
      10/1694803
   Additional numbers attached? □ Yes □ No

5. Name and address of party to whom correspondence
   concerning document should be mailed:
   Attorney Name: ____________________________
   Firm Name: Robinson Intellectual Property Law
   Office, P.C.
   Internal Address: PMB 955
   Street Address: 21010 Southbank Street
   City: Potomac Falls State: VA Zip: 20165

6. Submission Type
   □ New
   □ Resubmission (Non-Recordation)
   Document ID#
   □ Correction of PTO Error
   Reel #_________ Frame #_________
   □ Corrective Document
   Reel #_________ Frame #_________

7. Total number of applications and patents involved: ____________

8. Total fee (37 CFR 3.41)........... $40.00
   □ Enclosed
   □ Authorized to be charged to deposit account

9. Deposit account number: 50-2280
   (Attach duplicate copy of this page if paying by deposit account)
   10/31/2003 MARRED 000000045 1061208
   02 PC:8921
   01: 10

10. Statement and signature.
    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.

    Eric J. Robinson
    Name of Person Signing
    Signature
    October 29, 2003
    Date

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

CERTIFICATE OF MAILING
     I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on ____________________________

Name

Mail documents to be recorded with required cover sheet information to:
Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450

PATENT
REEL: 014659 FRAME: 0629
ATTORNEY DOCKET NO. __________________________

ASSIGNMENT

Serial No. __________________________
Filed __________________________

WHEREAS, Shunpei YAMAZAKI, Toru TAKAYAMA, Junya MARUYAMA and
Yumiko OHNO (hereinafter designated as the undersigned) has (have) invented certain new and
useful improvements in ___________SEMIICONDUCTOR 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 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 of ROBINSON INTELLECTUAL PROPERTY LAW OFFICE 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 10/20/2003
Signature
Name Shunpei YAMAZAKI

Date 10/21/2003
Signature Toru TAKAYAMA
Name Toru TAKAYAMA

Date 10/22/2003
Signature Junya MARUYAMA
Name Junya MARUYAMA

Date 10/22/2003
Signature Yumiko OHNO
Name Yumiko OHNO

Date
Signature
Name

Date
Signature
Name

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
Signature

Witness
Signature

Witness
Signature