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U.S. Patent and Trademark Office

Attorney Docket No. 740756-2493

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying parties:

Setsuo NAKAJIMA
Aiko SHIGA
Naoki MAKITA
Takuya MATSUO

04/29/02

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: April 24, 23, 16, 2002

2. Name and address of receiving party(ies)

(1st) Name: Semiconductor Energy Laboratory Co., Ltd.Internal Address: 398, Hase, Atsugi-shi,Kanagawa-ken, 243-0036 Japan(2nd) Name: Sharp Kabushiki KaishaInternal Address: 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-0013 JapanAdditional name(s) & address(es) attached? ☐ Yes ☒ No

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: April 24, 23, 16, 2002

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

Attorney Name: Eric J. RobinsonFirm Name: Nixon Peabody LLPInternal Address: Suite 800Street Address: 8180 Greensboro Drive,City: McLean State: VA Zip: 22102

7. Total number of applications and patents involved: 1

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

6. Submission Type

- ☒ New
☐ Resubmission (Non-Recordation)
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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

April 29, 2002

Date

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04/29/02

PATENT
REEL: 12849 FRAME: 0765

ASSIGNMENT

WHEREAS, Setsuo NAKAIIMA, Aiko SHIGA, Naoki MAKITA and Takuya MATSUO (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE AND SEMICONDUCTOR MANUFACTURING APPARATUS 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 Sharp Kabushiki Kaisha of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-0013 Japan; their heirs, successors, legal representatives and assigns (hereinafter designated as the Assignees) are 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 Assignees 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 Assignees 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 Assignees 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 Assignees and to vest all rights therein hereby conveyed to said Assignees 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 said Assignees, as Assignees 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 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 04/24/2002, Name of Inventor Setsuo Nakajima (SEAL)
Setsuo NAKAJIMA

Date 04/23/2002, Name of Inventor Aiko Shiga (SEAL)
Aiko SHIGA

Date 04/16/2002, Name of Inventor Naoki Makita (SEAL)
Naoki MAKITA

Date 04/16/2002, Name of Inventor Takuya Matsuo (SEAL)
Takuya MATSUO

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) |