

09-14-2000



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Docket No.: 0756-2205

*Mr. P...
8.30.00*

U.S. PTO
09/651889
08/30/00

To the Honorable Assistant Commissioner for Patent. Please record the attached original documents or copy thereof.

1. Name of conveying parties: Ritsuko KAWASAKI, Kenji KASAHARA, Shunpei YAMAZAKI
Additional name(s) of conveying party(ies) attached? [] Yes [X] No

2. Name and address of receiving party:
Name: Semiconductor Energy Laboratory Co., Ltd.
Street Address: 398, Hase, Atsugi-shi, Kanagawa-ken 243-0036 Japan
City _____ State _____ ZIP _____
Additional name(s) & addresses(es) attached? [] Yes [] No

3. Name of Conveyance:
[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other _____
Execution Dates: August 21, 2000

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: August 21, 2000
Title: SEMICONDUCTOR DEVICE, MANUFACTURING METHOD THEREOF, AND ELECTRONIC DEVICE
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:
Name: NIXON PEABODY LLP *09/651889*
Street Address: 8180 Greensboro Drive, Suite 800
City: McLean State: Virginia ZIP 22102

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$40.00
[X] Enclosed
[] Authorized to be changed to deposit account

8. Deposit Account Number: _____
(Attach duplicate copy of this page if paying by deposit account)

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9. 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.

Jeffrey L. Costellia
Name of Person Signing

Jeffrey L. Costellia
Signature

8/30/00
Date

Total number of pages including cover sheet, attachments, and document: 3

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03 FC:581

PATENT
REEL: 011056 FRAME: 0448

NIXON PEABODY LLP
United States Patent Rights

Attorney Docket No.

ASSIGNMENT

Serial No. _____

Filed

WHEREAS, Ritsuko KAWASAKI, Kenji KASAHARA and Shunpei YAMAZAKI
(hereinafter designated as the undersigned) has (have) invented certain new and useful
improvements in SEMICONDUCTOR DEVICE, MANUFACTURING METHOD
THEREOF, AND ELECTRONIC DEVICE 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 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 08/21/2000, Name of Inventor Ritsuko Kawasaki (SEAL)
Ritsuko KAWASAKI

Date 08/21/2000, Name of Inventor Kenji Kasahara (SEAL)
Kenji KASAHARA

Date 08/21/2000, Name of Inventor Shunpei Yamazaki (SEAL)
Shunpei YAMAZAKI

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)