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Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies):
Shunpei Yamazaki, Toshiji Hamatani and
Koichiro Tanaka
Additional name(s) attached? Yes No

2. Name and address of receiving party(ies):
Semiconductor Energy Laboratory Co., Ltd.
398 Hase Atsugi-shi
Kanagawa-ken 243-0036
JAPAN
Additional names/addresses attached? Yes No

3. Nature of conveyance:
 Assignment
 Merger
 Security Agreement
 Change of Name
 Other:
Execution Date: 10/24/1997; 10/24/1997/
10/23/1997

4. Application number(s) or patent number(s):
If this document is being filed with a new application, the execution date of the application is:
A. Patent Application No(s):
New Continuation Filed September 9, 2005
Additional numbers attached? Yes No

B. Patent No(s):

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

Customer No.: 26171

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR §3.41): \$40
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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.*

John F. Hayden
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Name of Person Signing

Signature

September 9, 2005
Date

Total number of pages including coversheet, attachments and document: 3

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FISH & RICHARDSON P.C.

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign(s), transfer(s) and set(s) over to:

Semiconductor Energy Laboratory Co., Ltd.

having the address:

398, Hase, Atsugi-shi, Kanagawa-ken 243 Japan

(hereinafter designated as the "ASSIGNEE"), its successors and assigns, the entire right, title, and interest for the United States in the invention, and all applications for patent and any Letters Patent which may be granted therefor, including said application, and all United States Letters Patents which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of said Letters Patent when granted to be held by said ASSIGNEE, its successors, assigns or their legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been and enjoyed by Assignor(s) if this assignment had not been made, the application being known by the Title:

APPARATUS AND METHOD FOR DOPING

Attorney Docket No: 07977/150001

for which the undersigned has/have executed an application for patent in the United States of America on the same day herewith. Where this instrument is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No. 08/855,818

Filing Date: May 12, 1997

1. The undersigned hereby agree(s) to sign and execute any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue application or in any amendments, extension or interference proceedings, or otherwise to secure the title thereto to the ASSIGNEE.

2. The undersigned agree(s) 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 Protection of Industrial Property or similar agreements.

Page 1 of 2

PATENT
REEL: 016973 FRAME: 0010


3. 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.

4. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents in the United States to issue any and all Letters Patents resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE.


5. The undersigned hereby grant(s) to the firm of Fish & Richardson P.C. 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(s) opposite the undersigned name(s).

October 24, 1997
Date


Typed Name: Shunpei YAMAZAKI

October 24, 1997
Date


Typed Name: Toshiji HAMATANI

October 23, 1997
Date

Koichiro TANAKA
Typed Name: Koichiro TANAKA

This assignment may be signed before a U.S. Notary Public or before at least two witnesses who also sign here:

Date

Typed Name:

Date

Typed Name: