

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hiroaki KIKUCHI</td> <td>03/16/2011</td> </tr> <tr> <td>Katsunori KONDO</td> <td>03/16/2011</td> </tr> <tr> <td>Shigeru SHINOHARA</td> <td>03/16/2011</td> </tr> <tr> <td>Osamu TAKAHASHI</td> <td>03/16/2011</td> </tr> <tr> <td>Tomoaki YAMABAYASHI</td> <td>03/16/2011</td> </tr> </tbody> </table>		Name	Execution Date	Hiroaki KIKUCHI	03/16/2011	Katsunori KONDO	03/16/2011	Shigeru SHINOHARA	03/16/2011	Osamu TAKAHASHI	03/16/2011	Tomoaki YAMABAYASHI	03/16/2011
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Osamu TAKAHASHI	03/16/2011												
Tomoaki YAMABAYASHI	03/16/2011												
RECEIVING PARTY DATA													
Name:	MITSUMI ELECTRIC CO., LTD.												
Street Address:	2-11-2, Tsurumaki, Tama-Shi												
City:	Tokyo												
State/Country:	JAPAN												
Postal Code:	206-8567												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13071083</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13071083								
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Application Number:	13071083												
CORRESPONDENCE DATA													
Fax Number:	(202)797-8188												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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ATTORNEY DOCKET NUMBER:	11MM-003												
NAME OF SUBMITTER:	Martin A. Weeks												
Total Attachments: 3 source=11MM-003AssignmentRecordation#page1.tif source=11MM-003AssignmentRecordation#page2.tif source=11MM-003AssignmentRecordation#page3.tif													

CH \$40.00 13071083

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Hiroaki KIKUCHI, Katsunori KONDO, Shigeru SHINOHARA,
Osamu TAKAHASHI, Tomoaki YAMABAYASHI

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

2. Name and address of receiving party(ies)

Name: MITSUMI ELECTRIC CO., LTD.

Internal Address: _____

Street Address: 2-11-2, Tsurumaki, Tama-Shi,

City: Tokyo

State: _____

Country: Japan Zip: 206-8567

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) March 16, 2011

- Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: IPUSA, PLLC

Internal Address: _____

Street Address: 1054 31st Street, N.W., Suite 400

City: Washington

State: DC Zip: 20007

Phone Number: 202-797-4181

Fax Number: 202-797-8188

Email Address: ipusa@ipusapat.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 60-4424

Authorized User Name Marlin A. Weeks

9. Signature: Marlin A. Weeks

Signature

3/24/2011

Date

Marlin A. Weeks

Name of Person Signing

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

3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

THIS ASSIGNMENT, by (1) Hiroaki KIKUCHI, (2) Katsunori KONDO, (3) Shigeru SHINOHARA, (4) Osamu TAKAHASHI and (5) Tomoaki YAMABAYASHI, (hereinafter referred to as "Assignors"), residing at (1) Tama-shi, Tokyo, Japan, (2) Tama-shi, Tokyo, Japan, (3) Tama-shi, Tokyo, Japan, (4) Tama-shi, Tokyo, Japan and (5) Tama-shi, Tokyo, Japan, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in

SEMICONDUCTOR DEVICE MANUFACTURING METHOD

set forth in a patent application for Letters Patent of the United States, executed concurrently herewith; and

WHEREAS, MITSUMI ELECTRIC CO., LTD. (hereinafter referred to as "Assignee"), having offices at 2-11-2, Tsurumaki, Tama-Shi, Tokyo 206-8567 Japan, is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuation-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles, and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

AND Assignors hereby grant the following individuals 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: All practitioners associated with the Customer Number 77464.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

<u>March 16, 2011</u> Date	<u>Hiroaki Kikuchi'</u> Hiroaki KIKUCHI
<u>March 16, 2011</u> Date	<u>Katsunori Kondo</u> Katsunori KONDO
<u>March 16, 2011</u> Date	<u>Shigeru Shinohara</u> Shigeru SHINOHARA
<u>March 16, 2011</u> Date	<u>Osamu Takahashi</u> Osamu TAKAHASHI
<u>March 16, 2011</u> Date	<u>Tomoaki Yamabayashi'</u> Tomoaki YAMABAYASHI