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Commissioner for Patents, Washington,
D.C. 20231, on September 20, 2000

In re application of: Ogawa et al.

Serial No: 09/550,828

Filed: April 18, 2000

For: Semiconductor Device And Manufacturing Method Thereof

Art Unit:

Examiner:

PATENT ASSIGNMENT COVER SHEET

Cristine m. noll
September 19, 2000

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

Date 9/20/2000

Please record the attached original document or copy thereof. Total number of pages (with cover sheet): 2

<p>1. Name of Conveying Party(ies): <u>Hiroyuki OGAWA, Kazuhide TOMIYASU, Ritsuko KAWASAKI, Hidehito KITAKADO, Kenji KASAHARA and Shunpei YAMAZAKI</u></p> <p>2a. Name and Address of Receiving Party(ies): Name: <u>Semiconductor Energy Laboratory Co., Ltd.</u> Address: <u>398, Hase, Atsugi-shi, Kanagawa-ken 243-0036 Japan</u></p> <p>2b. Name and Address of Receiving Party(ies): Name: <u>Sharp Kabushiki Kaisha</u> Address: <u>22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-0013 Japan</u></p> <p>3. Nature of Conveyance <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Execution Date: <u>8/18/00; 8/22/00; 8/29/00; 8/31/00</u></p> <p>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: _____)</p> <p>4a. Patent Application No.(s) <u>09/550,828</u></p> <p>4b. Patent No.(s) _____</p>	<p>5. Name and Address of Party to Whom Correspondence Concerning Document Should be Mailed: <u>Edward D. Manzo, Esq.</u> <u>COOK, ALEX, McFARRON, MANZO, CUMMINGS & MEHLER, LTD.</u> <u>200 West Adams Street, Suite 2850</u> <u>Chicago, Illinois 60606</u></p> <p>6. Total Number of Applications and Patents Involved: <u>1</u></p> <p>7. Total Fee (37 CFR 3.41): <u>\$40.00</u> 7a. <input checked="" type="checkbox"/> Enclosed 7b. <input checked="" type="checkbox"/> Authorized to be Charged to Deposit Account For Any Deficiency</p> <p>8. Deposit Account Number: <u>50/1039</u> (A duplicate copy of this page is attached)</p> <p>9. Statement and Signature: <i>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.</i></p> <p><u>Mark J. Murphy</u> Name of Person Signing Signature Reg. No. 34,225</p> <p>Date: September 19, 2000</p>
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PATENT
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ASSIGNMENT

Identity Of The Patent Application. I am the inventor (or one joint inventor) of a patent application that I am assigning. The patent application I am assigning is entitled SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF which I executed herewith. If the patent application has already been filed, it received serial number 09/550,828 and bears a filing date of April 18, 2000.

The Assignee and The Assignment. I assign my patent rights to Semiconductor Energy Laboratory Co., Ltd. a corporation organized according to the laws of Japan, having a place of business at 398, Hase, Atsugi-shi, Kanagawa-ken 243-0036 Japan and Sharp Kabushiki Kaisha, a corporation organized according to the laws of Japan, having a place of business at 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-0013 Japan (hereinafter "the Assignee"). The rights I assign are my entire right, title and interest in the invention or improvements disclosed in the patent application and any and all other applications for United States Letters Patent which I may file, either solely or jointly with others, on the invention or improvements, including all continuations, divisionals, and continuations-in-part, and in any and all United States Letters Patent which may be obtained on any of said applications, and in any reissue or extension thereof. I also assign to the Assignee all priority rights under the International Convention. I agree to execute, at the request of the Assignee, all documents in connection with any application for United States letters patent therefor.

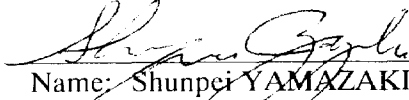
Payment Received. I am making this assignment in consideration of One Dollar and other good and valuable consideration. I acknowledge the receipt and sufficiency of the consideration.

Authorizations. I request the U.S. Commissioner of Patents and Trademarks to issue the Letters Patent to the Assignee. I authorize the attorney(s) of record in the application to insert in this assignment document the date and serial number of the application.

Further Acts. I agree, upon the request and at the expense of the Assignee, to execute any divisional, continuation or substitute application for the invention or improvements, and any oath, declaration or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon the application. I agree to perform, upon request, any affirmative acts to obtain said Letters Patent of the United States and to vest in the Assignee all rights therein, so that the Letters Patent will be held and enjoyed by the Assignee, 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 held and enjoyed by me if this assignment had not been made.

Interference. In the event that any application or Letters Patent that I now assign becomes involved in interference, I agree to cooperate to the best of my ability in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof.

<u>Hiroyuki OGAWA</u>	<u>08/31/2000</u>	<u>Kenji Kasahara</u>	<u>08/22/2000</u>
Name: Hiroyuki OGAWA	Date	Name: Kenji KASAHARA	Date

<u>Kazuhide TOMIYASU</u>	<u>08/29/2000</u>		<u>08/22/2000</u>
Name: Kazuhide TOMIYASU	Date	Name: Shunpei YAMAZAKI	Date

<u>Ritsuko Kawasaki</u>	<u>08/22/2000</u>
Name: Ritsuko KAWASAKI	Date

<u>Hidehito Kitakado</u>	<u>08/18/2000</u>
Name: Hidehito KITAKADO	Date