

## 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>Shinji MORI</td><td>04/14/2008</td></tr><tr><td>Tsutomu SATO</td><td>04/16/2008</td></tr><tr><td>Koji MATSUO</td><td>04/14/2008</td></tr></tbody></table>	Name	Execution Date	Shinji MORI	04/14/2008	Tsutomu SATO	04/16/2008	Koji MATSUO	04/14/2008	
Name	Execution Date								
Shinji MORI	04/14/2008								
Tsutomu SATO	04/16/2008								
Koji MATSUO	04/14/2008								
RECEIVING PARTY DATA									
Name:	KABUSHIKI KAISHA TOSHIBA								
Street Address:	1-1, Shibaura 1-chome								
City:	Minato-ku, Tokyo								
State/Country:	JAPAN								
Postal Code:	105-8001								
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>12056909</td></tr></tbody></table>	Property Type	Number	Application Number:	12056909					
Property Type	Number								
Application Number:	12056909								
CORRESPONDENCE DATA									
Fax Number:	(202)408-4400								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Email:	CREMEANR@FINNEGAN.COM								
Correspondent Name:	FINNEGAN HENDERSON								
Address Line 1:	901 NEW YORK AVENUE, NW								
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20001								
ATTORNEY DOCKET NUMBER:	04329.4330								
NAME OF SUBMITTER:	R.CREMEANS								
Total Attachments: 2 source=ASSIGNMENT#page1.tif source=ASSIGNMENT#page2.tif									

OP \$40.00 12056909

500564557

PATENT  
REEL: 021084 FRAME: 0160

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

## SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF

have sold and assigned and do hereby sell and assign to  
KABUSHIKI KAISHA TOSHIBA  
a Japanese corporation, having a business address at  
1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) ☒ executed concurrently herewith  
☐ executed on \_\_\_\_\_ ;  
☒ Application No. 12/056,909 , filed March 27, 2008 ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm 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.

Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., 901 New York Avenue, NW  
Washington, D.C. 20001-4413

# ASSIGNMENT

APG046329-USA-A  
(08S0088)


## [1st Inventor]

Residence Address: Yokohama-shi, Japan

Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,  
Minato-ku, Tokyo 105-8001, Japan

Citizenship: Japan

Apr. 14, 2008 S.M.

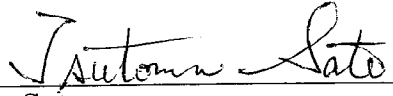
 Shinji Mori April 14, 2008  
Shinji Mori Date:

## [2nd Inventor]

Residence Address: Oita-shi, Japan

Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,  
Minato-ku, Tokyo 105-8001, Japan

Citizenship: Japan

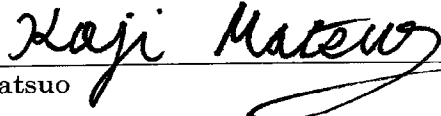
 Tsutomu Sato April 16, 2008  
Tsutomu Sato Date:

## [3rd Inventor]

Residence Address: Yokohama-shi, Japan

Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,  
Minato-ku, Tokyo 105-8001, Japan

Citizenship: Japan

 Koji Matsuo April 14, 2008  
Koji Matsuo Date: