

# PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yasumasa KASUYA</td> <td>07/31/2007</td> </tr> <tr> <td>Motoharu HAGA</td> <td>07/31/2007</td> </tr> <tr> <td>Hiroaki MATSUBARA</td> <td>07/31/2007</td> </tr> </tbody> </table>		Name	Execution Date	Yasumasa KASUYA	07/31/2007	Motoharu HAGA	07/31/2007	Hiroaki MATSUBARA	07/31/2007		
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>ROHM CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto-shi</td> </tr> <tr> <td>City:</td> <td>Kyoto</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>615-8585</td> </tr> </table>		Name:	ROHM CO., LTD.	Street Address:	21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto-shi	City:	Kyoto	State/Country:	JAPAN	Postal Code:	615-8585
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (202)408-0924  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-371-8976</p> <p>Email: firm@rabinberdo.com</p> <p>Correspondent Name: Rabin &amp; Berdo, P.C.</p> <p>Address Line 1: 1101 14th St. N.W.</p> <p>Address Line 2: Suite 500</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20005</p>											
ATTORNEY DOCKET NUMBER:	AI-497NPD1										
NAME OF SUBMITTER:	Alun L. Palmer										
<p>Total Attachments: 1</p> <p>source=AI-497NPD1_ASSIGNMENT#page1.tif</p>											

OP \$40.00 13036869

**PATENT**

501451611

REEL: 025873 FRAME: 0582

## ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Yasumasa KASUYA, Motoharu HAGA and Hiroaki MATSUBARA  
hereinafter referred to collectively as the assignor, has invented a certain improvement  
relating to SEMICONDUCTOR DEVICE, SUBSTRATE AND SEMICONDUCTOR DEVICE MANUFACTURING METHOD  
[ ] the inventor's declaration for said application being executed concurrently with the execution of this  
instrument; said application to be filed in the United States Patent and Trademark Office;

[ ] said application having been filed in the United States Patent and Trademark Office on \_\_\_\_\_,  
authorization being hereby given to my attorneys, Steven M. Rabin (Reg. No. 29,102), Robert H. Berdo, Jr. (Reg.  
No. 38,075), Phillip G. Avruch (Reg. No. 46,076) and Allen Wood (Reg. No. 28,134),  
of RABIN & BERDO, P. C., 1101, 14th Street, N.W., Suite 500, Washington, D.C. 20005, to insert here in  
parentheses (Application Serial No. \_\_\_\_\_) the application serial number of said application when known;

[X] said application having been filed under the Patent Cooperation Treaty on June 1, 2006,  
Serial No. PCT/JP2006/311014, the United States of America being designated;

AND WHEREAS ROHM CO., LTD. of 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto-shi, Kyoto 615-8585, Japan,  
hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and  
to said application, including any and all divisions and continuations thereof, and in and to said invention  
and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations  
thereof:

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable  
consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor  
hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and  
exclusive right, title and interest in and to said application, including any and all divisions and continuations  
thereof, and in and to said invention and any and all patents which may be granted therefor, including any and  
all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns,  
to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof,  
and the said invention and any and all patents which may be granted therefor, including any and all renewals,  
reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising  
from or appertaining thereof, for and during the term or terms of any and all such patents when granted, including  
any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said  
assignees successors and assigns, in as ample and beneficial a manner as the said assignor might or could have  
held and enjoyed the same, if this assignment had not been made;

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors  
or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and  
all renewals, reissues and prolongations thereof;

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent  
on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignees  
successors and assigns, in accordance herewith.

EXECUTED, this 31 day of July, 2007.

## WITNESSES:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR: Yasumasa Kasuya  
Signature: \_\_\_\_\_  
Name: Yasumasa KASUYA

Signature: Motoharu Haga  
Name: Motoharu HAGA

Signature: Hiroaki Matsubara  
Name: Hiroaki MATSUBARA