

## 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>Chun-Seok JEONG</td><td>06/27/2008</td></tr><tr><td>Kee-Teok PARK</td><td>06/27/2008</td></tr></tbody></table>	Name	Execution Date	Chun-Seok JEONG	06/27/2008	Kee-Teok PARK	06/27/2008	
Name	Execution Date						
Chun-Seok JEONG	06/27/2008						
Kee-Teok PARK	06/27/2008						
RECEIVING PARTY DATA							
Name:	HYNIX SEMICONDUCTOR, INC.						
Street Address:	San 136-1, Ami-ri, Bubal-eub, Ichon-shi						
City:	Kyoungki-do						
State/Country:	REPUBLIC OF KOREA						
Postal Code:	467-860						
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>12165101</td></tr></tbody></table>	Property Type	Number	Application Number:	12165101			
Property Type	Number						
Application Number:	12165101						
CORRESPONDENCE DATA							
Fax Number:	(202)408-0924						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	202-371-8976						
Email:	firm@rabinberdo.com						
Correspondent Name:	Rabin & Berdo, P.C.						
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Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005						
ATTORNEY DOCKET NUMBER:	SHIN-217						
NAME OF SUBMITTER:	Steven M. Rabin - Reg. 29,102						
Total Attachments: 2 source=SHIN217-Ass#page1.tif source=SHIN217-Ass#page2.tif							

OP \$40.00 12165101

PATENT

500586444

REEL: 021204 FRAME: 0448

**ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT**

WHEREAS JEONG, Chun-Seok and PARK, Kee-Teok

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to \_\_\_\_\_

OUTPUT DRIVER CIRCUIT, SEMICONDUCTOR MEMORY DEVICE INCLUDING  
THE OUTPUT DRIVER CIRCUIT, AND METHOD FOR OPERATING THE  
SEMICONDUCTOR MEMORY DEVICE

[X] 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;

[x] said application having been filed in the United States Patent and Trademark Office on June 30, 2008, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr., Phillip G. Avruch, and Allen Wood of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (Application Serial No. 12/165,101) the application serial number of said application when known;

AND WHEREAS Hynix Semiconductor, Inc. of San 136-1, Ami-ri, Bubal-eub, Ichon-shi, Kyoungki-do 467-860, Republic of Korea, 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 thereto, 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 assignee's 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 assignee's successors and assigns, in accordance herewith.

EXECUTED, this 27 day of June, 2008.

**WITNESSES:**

Signature: [Signature]

Name: Hwang, Ji-Yeon

Address: Seoul

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

**ASSIGNOR:**

Signature: [Signature]

Name: JEONG, Chun-Seok

RABIN & BERDO, P.C., Washington, D.C.

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Page 2 of 2

**WITNESSES:**

Signature: [Signature]  
Name: HWANG, Ji-Yeon  
Address: Seoul

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

**WITNESSES:**

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

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

**WITNESSES:**

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

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

**ASSIGNOR:**

Signature: PARK, Kee Teok  
Name: PARK, Kee-Teok

**ASSIGNOR:**

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

**ASSIGNOR:**

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

RABIN & BERDO, P.C., Washington, D.C.