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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 parties:

Seung Wook Kwack (08/10/2005) and Ki Chang Kwean (08/10/2005)

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

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

Execution Dates: in parentheses after inventor name

- ☒ Assignment ☐ Merger ☐ Change of Name  
☐ Security Agreement ☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

### 2. Name and address of receiving party(ies)

Name: HYNIX SEMICONDUCTOR INC.

Street Address:

San 136-1, Ami-ri, Bubal-eup

City: Icheon-shi

State: Gyeonggi-do

Country: Republic of Korea Zip: \_\_\_\_\_

Additional name(s) & address(es) attached: ☐ Yes ☒ No

### 4. Application or patent number(s):

A. Patent Application No. 11/162,171

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Randall G. Rueth  
MARSHALL, GERSTEIN & BORUN LLP

Internal Address: Atty. Dkt.: 29925/41487

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Sears Tower

City: Chicago

State: IL Zip: 60606-6357

Phone Number: (312) 474-6300

Fax Number: (312) 474-0448

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

### 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 \_\_\_\_\_  
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b. Deposit Account Number 13-2855  
Authorized User Name Randall G. Rueth

### 9. Signature:

Signature

Randall G. Rueth - 45,887

Name of Person Signing

October 31, 2005

Date

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

3

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, facsimile no. 571-273-0140, on the date shown below.

Dated: October 31, 2005

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

(Randall G. Rueth)

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MARSHALL, GERSTEIN &amp; BORUN LLP, 233 S. Wacker Drive, Suite 6300, Sears Tower, Chicago, Illinois 60606-6357

## ASSIGNMENT

Serial No: 11/162,171

Filed: August 31, 2005

Title: DATA OUTPUT DEVICE AND METHOD OF SEMICONDUCTOR DEVICE

For \$10.00 (Ten Dollars) and other good and sufficient consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to Hynix Semiconductor Inc., of San 136-1, Ami-ri, Bubal-eup, Icheon-shi, Gyunggi-do, Republic of Korea hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, executed by the undersigned on, August 30, 2005 and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for the aforesaid consideration the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, 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 the undersigned if this assignment and sale had not been made.

Date: 2005. 08. 10

Signature: Kwack Seung Wook  
KWACK, Seung Wook

Date: 2005. 08. 10

Signature: Kwean Ki Chang  
KWEAN, Ki Chang

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

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