

11-07-2007



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SHEET

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08244.0101  
Attorney Customer Number: 22,852

To the Director of the U.S. Patent

the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Jin-Hyock KIM
- 2) Jae-Sung ROH
- 3) Seung-Jin YEOM
- 4) Kee-Jeung LEE
- 5) Han-Sang SONG
- 6) Deok-Sin KIL
- 7) Young-Dae KIM

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

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

Name: HYNIX SEMICONDUCTOR INC.

U.S. PTO  
11/978604  
10/30/2007

Internal Address:

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

Execution Date: October 25, 2007

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

Street Address: *San 136-1, Ami-ri, Bubal-eub,  
Ichon-shi, Kyoungki-do 467-860,  
Republic of Korea*

City:

State:

Zip Code:

Additional name(s) & Address(es) attached?

☐ Yes ☒ No

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

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

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached?

☐ Yes ☒ No

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

Name: Mr. Ernest F. Chapman

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40

- ☐ Authorized to be charged by credit card
- ☐ Authorized to be charged to deposit account
- ☒ Enclosed (Please charge deficiency to deposit account)
- ☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
b. Deposit Account No.: 06-0916

Authorized User Name \_\_\_\_\_

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT  
& DUNNER, L.L.P.

Street Address: 901 New York Avenue, NW

City: Washington, D.C.

State: Zip: 20001-4413

9. Statement and signature.

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.

Ernest F. Chapman  
Reg. No. 25,961

Signature

October 30, 2007  
Date

Total number of pages including cover sheet, attachments and documents: 4

PATENT

REEL: 020088 FRAME: 0563

Attorney Docket No. 08244, \_\_\_\_\_

**ASSIGNMENT**

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled: SEMICONDUCTOR DEVICE INCLUDING RUTHENIUM ELECTRODE AND METHOD FOR FABRICATING THE SAME for which I/We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on \_\_\_\_\_ (Serial No. \_\_\_\_\_); and

WHEREAS, HYNIX SEMICONDUCTOR INC., a corporation of REPUBLIC OF KOREA whose post office address is San 136-1, Ami-ri, Bubal-eub, Ichon-shi, Kyoungki-do 467-860, Republic of Korea (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, provisional application Serial No. \_\_\_\_\_, filed \_\_\_\_\_ (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

County of \_\_\_\_\_

State of \_\_\_\_\_

Name KIM, Jin-Hyock  
Address San 136-1, Ami-ri, Bubal-eub, Ichon-shi  
Kyoungki-do 467-860, Republic of Korea

SIGNATURE KIM, Jin Hyock  
DATE October 25, 2007

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2007.  
\_\_\_\_\_, Notary Public

Attorney Docket No. 08244, \_\_\_\_\_

County of \_\_\_\_\_

State of \_\_\_\_\_

Name ROH, Jae-SungAddress San 136-1, Ami-ri, Bubal-eub, Ichon-shi  
Kyongki-do 467-860, Republic of KoreaSIGNATURE [Signature]  
DATE October 25, 2007Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2007  
\_\_\_\_\_, Notary Public

County of \_\_\_\_\_

State of \_\_\_\_\_

Name YEOM, Seung-JinAddress San 136-1, Ami-ri, Bubal-eub, Ichon-shi  
Kyongki-do 467-860, Republic of KoreaSIGNATURE [Signature]  
DATE October 25, 2007Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2007  
\_\_\_\_\_, Notary Public

County of \_\_\_\_\_

State of \_\_\_\_\_

Name LEE, Kee-JeungAddress San 136-1, Ami-ri, Bubal-eub, Ichon-shi  
Kyongki-do 467-860, Republic of KoreaSIGNATURE [Signature]  
DATE October 25, 2007Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2007  
\_\_\_\_\_, Notary Public

County of \_\_\_\_\_

State of \_\_\_\_\_

Name SONG, Han-SangAddress San 136-1, Ami-ri, Bubal-eub, Ichon-shi  
Kyongki-do 467-860, Republic of KoreaSIGNATURE [Signature]  
DATE October 25, 2007Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2007  
\_\_\_\_\_, Notary Public

Attorney Docket No. 08244. \_\_\_\_\_

County of \_\_\_\_\_

State of \_\_\_\_\_

Name KIL, Deok-Sin  
Address San 136-1, Ami-ri, Bubal-eub, Ichon-shi  
Kyongki-do 467-860, Republic of Korea

SIGNATURE Kil, Deoksin  
DATE October 25, 2007

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2007  
\_\_\_\_\_, Notary Public

County of \_\_\_\_\_

State of \_\_\_\_\_

Name KIM, Young-Dae  
Address San 136-1, Ami-ri, Bubal-eub, Ichon-shi  
Kyongki-do 467-860, Republic of Korea

SIGNATURE Youngdae Kim  
DATE October 25, 2007

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2007  
\_\_\_\_\_, Notary Public