

05-25-2004

5/21/04



102752182

Form PTO-1595 (Rev. 03/01)

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 5/31/2002)

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

<p>1. Name of conveying party(ies): Yong-soo Kim</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>HYNIX SEMICONDUCTOR INC.</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>San 136-1, Ami-Ri, Bubal-Eub, Ichon-Si</u></p> <p>City: <u>Kyongki-Do</u></p> <p>Country: <u>Korea, Republic of</u> Zip: <u>467-860</u></p> <p>Additional name(s) &amp; address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: <u>June 30, 2003</u></p>	

OFFICE OF PATENT RECORDS  
JUN 21 10 09 52  
FINANCE SECTION

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

If this document is being filed together with a new application, the execution date of the new application is: June 30, 2003

A. Patent Application No.(s): 10/615,038

B. Patent No.(s): \_\_\_\_\_

Additional numbers attached?  Yes  No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Michael R. Hull</u> <u>MARSHALL, GERSTEIN &amp; BORUN</u></p> <p>Internal Address: <u>Atty. Dkt.: 29926/39505</u></p> <p>Street Address: <u>233 S. Wacker Drive, Suite 6300</u> <u>Sears Tower</u></p> <p>City: <u>Chicago</u> State: <u>IL</u> Zip: <u>60606-6357</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p><input type="checkbox"/> Authorized to be charged to credit card (Form 2038 enclosed)</p> <p>8. Deposit account number: <u>13-2855</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

DO NOT USE THIS SPACE

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.*

Michael R. Hull - 35,902 May 18, 2004  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 6

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail, in an envelope addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date shown below.

Dated: May 18, 2004 Signature: (Signature) (Michael R. Hull)

05/24/2004 NGETACHE 00000069 10615038

01 FC:8021

40.00 DP

PATENT REEL: 015351 FRAME: 0297

10615038

7-8-03

08-06-2003



102517502

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Young-Soo Kim

Additional name(s) of conveying party(ies) attached? [ ] Yes [x] No

2. Name and address of receiving party(ies)

Name: HYNIX SEMICONDUCTOR INC.

Internal Address:

Street Address:

San 136-1, Ami-Ri, Bubal-Eub, Ichon-Shi

City: Kyoungki-Do

Country: Korea, Republic of Zip: 467-860

Additional name(s) & address(es) attached: [ ] Yes [x] No

3. Nature of Conveyance:

[x] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other

Execution Date: June 30, 2003

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

If this document is being filed together with a new application, the execution date of the new application is: June 30, 2003

A. Patent Application No.(s):

This application 10,615038

B. Patent No.(s):

Additional numbers attached? [ ] Yes [x] No

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

Name: Michael R. Hull MARSHALL, GERSTEIN & BORUN

Internal Address: Atty. Dkt.: 29926/39505

Street Address: 233 S. Wacker Drive, Suite 6300 Sears Tower

City: Chicago State: IL Zip: 60606-6357

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

[x] Enclosed [ ] Authorized to be charged to deposit account [ ] Authorized to be charged to credit card (Form 2038 enclosed)

8. Deposit account number:

13-2855 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Keith R. Jarosik - 47,683 Name of Person Signing

[Signature]

July 8, 2003 Date

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

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV323774982US, in an envelope addressed to: U.S. Patent and Trademark Office, Office of Public Records, Crystal Gateway 4, Room 335, Washington, DC 20231, on the date shown below.

Dated: July 8, 2003

Signature: [Signature] (Richard Zimmermann)

08/06/2003 6TON11 00000102 10615038

01 FE:0021 40.00 EP

## ASSIGNMENT

Serial No: \_\_\_\_\_

Filed: \_\_\_\_\_

Title: ATOMIC LAYER DEPOSITION OF TITANIUM NITRIDE USING BATCH TYPE CHAMBER  
AND METHOD FOR FABRICATING CAPACITOR BY USING THE SAME

---

For good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign(s) to Hynix Semiconductor Inc. (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, and in said application and any and all other U.S. applications 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 which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee. The undersigned also hereby authorizes the attorneys of Marshall, Gerstein & Borun to insert the filing date and serial number of this application in the blanks above when they become known.

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

For said consideration the undersigned hereby agree(s), 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 that said assignee, its successors or assigns, may deem necessary or expedient, and for the aforesaid consideration the undersigned further agree(s) 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 in the United States and to 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.

SIGNED:

Date: June 30, 2003

*Kim, Yong Soo*  
Name: KIM, YONG-SOO

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

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

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

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

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

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