

## 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>Han-Sub Yoon</td> <td>03/21/2011</td> </tr> <tr> <td>Jong-Suk Lee</td> <td>03/21/2011</td> </tr> <tr> <td>Kae-Dal Kwack</td> <td>03/21/2011</td> </tr> </tbody> </table>		Name	Execution Date	Han-Sub Yoon	03/21/2011	Jong-Suk Lee	03/21/2011	Kae-Dal Kwack	03/21/2011
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RECEIVING PARTY DATA									
<table border="1"> <tr> <td>Name:</td> <td>Industry-University Cooperation Foundation Hanyang University</td> </tr> <tr> <td>Street Address:</td> <td>17 Haengdang-dong, Seongdong-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> </table>		Name:	Industry-University Cooperation Foundation Hanyang University	Street Address:	17 Haengdang-dong, Seongdong-gu	City:	Seoul	State/Country:	KOREA, REPUBLIC OF
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PROPERTY NUMBERS Total: 1									
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CORRESPONDENCE DATA									
<p>Fax Number: 7132288778</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 4087270600</p> <p>Email: klalata@oshaliang.com</p> <p>Correspondent Name: Robert P. Lord</p> <p>Address Line 1: 909 Fannin Street</p> <p>Address Line 2: Suite 3500</p> <p>Address Line 4: Houston, TEXAS 77010</p>									
ATTORNEY DOCKET NUMBER:	37574/033001								
NAME OF SUBMITTER:	Robert P. Lord								
Signature:	/Robert P. Lord/								
Date:	07/23/2013								
<p>Total Attachments: 2</p> <p>source=37574_033001_Assignment#page1.tif</p> <p>source=37574_033001_Assignment#page2.tif</p>									

OP \$40.00 13063274

## ASSIGNMENT – U. S. RIGHTS ONLY

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

**INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY**

having the following address:

17 Haengdang-dong  
Seongdong-gu, Seoul  
REPUBLIC OF KOREA

(referred to herein as "UNIVERSITY"), its successors, and assigns, the entire right, title, and interest for the United States of America (including without limitation its territories and possessions) in and to the invention known by the following title:

### **NAND FLASH MEMORY OF USING COMMON P-WELL AND METHOD OF OPERATING THE SAME**

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all United States Letters Patent which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by UNIVERSITY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to UNIVERSITY;
2. To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to UNIVERSITY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to UNIVERSITY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

March 21, 2011 1<sup>st</sup> Inventor Signature: [Signature]  
Date Print or Type Name: YOON, Han-Sub

March 21, 2011 2<sup>nd</sup> Inventor Signature: [Signature]  
Date Print or Type Name: LEE, Jong-Suk

March 21, 2011 3<sup>rd</sup> Inventor Signature: [Signature]  
Date Print or Type Name: KWACK, Kae-Dal

\_\_\_\_\_  
Date 4<sup>th</sup> Inventor Signature: \_\_\_\_\_  
Print or Type Name: \_\_\_\_\_

\_\_\_\_\_  
Date 5<sup>th</sup> Inventor Signature: \_\_\_\_\_  
Print or Type Name: \_\_\_\_\_

WITNESSES	_____ Date	Signature of Witness: _____ Print or Type Name: _____
	_____ Date	Signature of Witness: _____ Print or Type Name: _____

When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:  
U.S. Application Serial No.: 13/063,274  
Filing Date: May 23, 2011

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Page 2

OSHA LIANG LLP