

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>Ki Hong LEE</td> <td>05/18/2012</td> </tr> <tr> <td>Seung Ho PYI</td> <td>05/18/2012</td> </tr> <tr> <td>Sung Chul SHIN</td> <td>05/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Ki Hong LEE	05/18/2012	Seung Ho PYI	05/18/2012	Sung Chul SHIN	05/18/2012
Name	Execution Date								
Ki Hong LEE	05/18/2012								
Seung Ho PYI	05/18/2012								
Sung Chul SHIN	05/18/2012								
RECEIVING PARTY DATA									
Name:	SK HYNIX INC.								
Street Address:	2091, Gyeongchung-daero, Bubal-eub, Icheon-si								
City:	Gyeonggi-do								
State/Country:	KOREA, REPUBLIC OF								
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>13477632</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13477632				
Property Type	Number								
Application Number:	13477632								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	PO120007HD								
NAME OF SUBMITTER:	Jung H. Kim								
Total Attachments: 2 source=Po120007HD-Assignment#page1.tif source=Po120007HD-Assignment#page2.tif									

OP \$40.00 13477632

ASSIGNMENT OF PATENT APPLICATION

WHEREAS I/We, the below named inventor(s) has made an invention entitled:

3-DIMENSIONAL NON-VOLATILE MEMORY DEVICE AND METHOD OF MANUFACTURING THE SAME

For which I/We executed an application for Letters Patent of the United States concurrently herewith; and/or
For which I/We filed an application for Letters Patent of the United States on _____ (Application No. _____),

BE IT KNOWN that, for good and valuable consideration, the receipt of which 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 **SK HYNIX INC.**, a corporation of the Republic of Korea, whose post office address is **2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, REPUBLIC OF KOREA** (hereinafter referred to as Assignee), its lawful successors and assigns my/our entire right, title, and interest in and to this application and the invention(s) and improvement(s) set forth therein; and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent and any and all Letters Patent of the United States and of countries foreign thereto, which may be granted thereon or therefore; and any reissues, reexaminations, or extensions of all such Letters Patent.

I/WE HEREBY authorize the Assignee, its lawful successors and assigns to apply for Letters Patent in all countries foreign to the United States directly in its own name, and to claim priority of the filing date of any of the above-mentioned applications for Letters Patent of the United States and of countries foreign thereto under the provisions of any and all international conventions and treaties.

I/WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States and official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as foresaid, to issue all Letters Patent for this invention to the 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 said 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 and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and in countries foreign thereto, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been known to them by the United States Patent and Trademark Office.

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

Signature of first assignor:
Name of first assignor:
Address

KI HONG LEE Date May 18, 2012
KI HONG LEE
Artvill 307, 170-7, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do,
Republic of Korea

Attorney Docket No.

Signature of second assignor:

Name of second assignor:

Address:

SEUNG HO PYI

Date

May 18, 2012

Seung Ho PYI

509-1302, Nokwon Maeul Sacheonmyeon Greenville Apt., Singal-dong,
Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

Signature of third assignor:

Name of third assignor:

Address:

SUNG CHUL SHIN

Date

May 18, 2012

Sung Chul SHIN

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Ilsanseo-gu, Goyang-si, Gyeonggi-do, Korea

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