

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>Eui-Young CHUNG</td> <td>01/23/2013</td> </tr> <tr> <td>Sang-Hoon PARK</td> <td>01/24/2013</td> </tr> </tbody> </table>		Name	Execution Date	Eui-Young CHUNG	01/23/2013	Sang-Hoon PARK	01/24/2013						
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<table border="1"> <tr> <td>Name:</td> <td>SK hynix Inc.</td> </tr> <tr> <td>Street Address:</td> <td>2091, Gyeongchung-daero, Bubal-eub</td> </tr> <tr> <td>City:</td> <td>Icheon</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>467-734</td> </tr> </table>		Name:	SK hynix Inc.	Street Address:	2091, Gyeongchung-daero, Bubal-eub	City:	Icheon	State/Country:	KOREA, REPUBLIC OF	Postal Code:	467-734		
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<table border="1"> <tr> <td>Name:</td> <td>Industry-Academic Cooperation Foundation, Yonsei University</td> </tr> <tr> <td>Street Address:</td> <td>1st floor Yonsei Engineering Research Park</td> </tr> <tr> <td>Internal Address:</td> <td>Yonsei University 50 Yonsei-ro, Seodaemun-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>120-749</td> </tr> </table>		Name:	Industry-Academic Cooperation Foundation, Yonsei University	Street Address:	1st floor Yonsei Engineering Research Park	Internal Address:	Yonsei University 50 Yonsei-ro, Seodaemun-gu	City:	Seoul	State/Country:	KOREA, REPUBLIC OF	Postal Code:	120-749
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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>13753447</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13753447								
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Application Number:	13753447												
CORRESPONDENCE DATA													
Fax Number:	4253483299												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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OP \$40.00 13753447

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ATTORNEY DOCKET NUMBER:

100KP-037100US

NAME OF SUBMITTER:

Steve Y. Cho

Total Attachments: 2

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ASSIGNMENT OF PATENT APPLICATION

WHEREAS, the below named individual, hereinafter referred to as "ASSIGNOR," is the inventor of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: DATA I/O CONTROLLER AND SYSTEM
INCLUDING THE SAME

Filing Date: January 29, 2013

Application No.: 13/753,447

WHEREAS, SK Hynix Inc., located at 2091, Gyeongchung-daero, Bubal-eup, Gyeonggi-do, Icheon-si, Republic of Korea, 467-734, and Industry-Academic Cooperation Foundation, Yonsei University, located at 1st floor Yonsei Engineering Research Park, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749 Republic of Korea, hereinafter referred to as "ASSIGNEES," are desirous of acquiring Assignor's interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

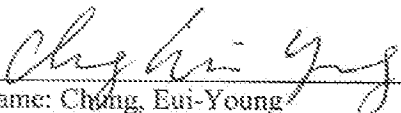
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignees, and Assignees' successors and assigns, all right, title and interest in and to the said invention and application including any corresponding foreign application, and in and to any Letters Patent which may hereafter be granted on the same in the United States and any corresponding foreign application, the said interest to be held and enjoyed by said Assignees as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he or she will, without charge to Assignees, but at Assignees' expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignees lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in Assignees, or Assignees' successors and assigns.

Assignor hereby authorizes and requests AMPACC Law Group, PLLC, 6100 219th Street SW, Suite 580, Mountlake Terrace, WA 98043, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignor has signed his/her name on the date indicated.

Jan. 25, 2013
Date: _____


Name: Chung, Eui-Young _____

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, the below named individual, hereinafter referred to as "ASSIGNOR," is the inventor of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: DATA IO CONTROLLER AND SYSTEM
INCLUDING THE SAME
Filing Date: January 29, 2013
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WHEREAS, SK Hynix Inc., located at 2091, Gyeongchung-daero, Bubal-eup, Gyeonggi-do, Icheon-si, Republic of Korea, 467-734, and Industry-Academic Cooperation Foundation, Yonsei University, located at 1st floor Yonsei Engineering Research Park, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749 Republic of Korea, hereinafter referred to as "ASSIGNEES," are desirous of acquiring Assignor's interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

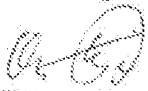
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignees, and Assignees' successors and assigns, all right, title and interest in and to the said invention and application including any corresponding foreign application, and in and to any Letters Patent which may hereafter be granted on the same in the United States and any corresponding foreign application, the said interest to be held and enjoyed by said Assignees as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

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Assignor hereby authorizes and requests AMPACC Law Group, PLLC, 6100 219th Street SW, Suite 580, Mountlake Terrace, WA 98043, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignor has signed his/her name on the date indicated.

Jan 24, 2013
Date: _____


Name: Park, Sang-Hoon