

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Sung Hyun JO</td> <td>07/19/2011</td> </tr> <tr> <td>Tanmay KUMAR</td> <td>07/20/2011</td> </tr> </tbody> </table>		Name	Execution Date	Sung Hyun JO	07/19/2011	Tanmay KUMAR	07/20/2011
Name	Execution Date						
Sung Hyun JO	07/19/2011						
Tanmay KUMAR	07/20/2011						
RECEIVING PARTY DATA							
Name:	Crossbar, Inc.						
Street Address:	3200 Patrick Henry Drive, Suite 110						
City:	Santa Clara						
State/Country:	CALIFORNIA						
Postal Code:	95054						
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>13426869</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13426869		
Property Type	Number						
Application Number:	13426869						
CORRESPONDENCE DATA							
Fax Number:	(425)968-9795						
Phone:	425-348-3500						
Email:	docketing@ampacc.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	AMPACC LAW GROUP, PLLC						
Address Line 1:	6100 219th St. SW						
Address Line 2:	Suite 580						
Address Line 4:	Mountlake Terrace, WASHINGTON 98043						
ATTORNEY DOCKET NUMBER:	936SP-004700US						
NAME OF SUBMITTER:	Steve Y. Cho						
Total Attachments: 1 source=2012_03_27_ASSGMT_936SP-004700US#page1.tif							

OP \$40.00 13426869

ASSIGNMENT OF PATENT APPLICATION

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

Title of Invention: Multi-Level Cell Operation Using Zinc Oxide Switching Material in Non-Volatile Memory Device

Filing Date: March 22, 2012

Application No.: 13/426,869

WHEREAS, Crossbar, Inc. of 3200 Patrick Henry Drive, Suite 110, Santa Clara California, 95054, United States, hereinafter referred to as "ASSIGNEE," is desirous of acquiring ASSIGNORS' 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 Assignors, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignees, and Assignees' successors and assigns, all their right, title and interest in and to the said invention and application, and in and to any Letters Patent which may hereafter be granted on the same in the United States, 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 Assignors 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.

Assignors further agree that they will, without charge to Assignee, but at Assignee's 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 Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request at AMPACC Law Group, PLLC, 6100 219th Street SW, STE 580 Mountlake Terrace, WA 98043, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

07/19/2011
Date

Sung Hyun Jo
Name: Sung Hyun Jo

07/20/2011
Date

Tanmay Kumar
Name: Tanmay Kumar