

## 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>Takahiro Morikawa</td> <td>02/05/2013</td> </tr> <tr> <td>Toshimichi Shintani</td> <td>02/04/2013</td> </tr> </tbody> </table>		Name	Execution Date	Takahiro Morikawa	02/05/2013	Toshimichi Shintani	02/04/2013
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Takahiro Morikawa	02/05/2013						
Toshimichi Shintani	02/04/2013						
RECEIVING PARTY DATA							
Name:	National Institute of Advanced Industrial Science and Technology						
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City:	Tokyo						
State/Country:	JAPAN						
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>13773799</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13773799		
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Application Number:	13773799						
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Date:	05/10/2013						
Total Attachments: 2 source=79420007assign#page1.tif source=79420007assign#page2.tif							

OP \$40.00 13773799

ASSIGNMENT

THIS INSTRUMENT OF ASSIGNMENT WITNESSETH THAT:

WHEREAS, we, Takahiro MORIKAWA and Toshimichi SHINTANI

residents of

National Institute of Advanced Industrial Science and Technology, 16-1, Onogawa,

Tsukuba-shi, Ibaraki 305-8569, Japan

respectively, have invented improvements in

SEMICONDUCTOR MEMORY DEVICE  
AND MANUFACTURING METHOD OF THE SAME

for which we have executed on even date herewith an application for Letters Patent of the United States, and

WHEREAS, National Institute of Advanced Industrial Science and Technology  
a corporation of the Japan  
having a place of business at 3-1, Kasumigaseki 1-chome, Chiyoda-ku, Tokyo 100-8921,  
Japan  
is desirous of acquiring an interest in said invention, said application and the Letters Patent to be issued therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of ONE DOLLAR to each in hand paid and other good and valuable consideration, the receipt whereof is hereby acknowledged, we have sold, assigned and set over, and do hereby sell, assign and set over to said corporation, its successors or assigns, the entire right, title and interest to and in said invention in the United States and in all foreign countries, said United States application for Letters Patent therefor and the Letters Patent when issued; and we do hereby authorize and request the Commissioner of Patent and Trademarks to issue the Letters Patent based upon said

application to said corporation as the assignees of our entire right, title and interest to and in the same, for the sole use and behoof of said corporation, its successors or assigns.

And we also hereby covenant and agree to sign all proper papers including divisional and other applications for patents and assignments thereof in the United States and application for patents and assignments in all foreign countries, and to execute all rightful oaths and to take any other proper action that may in the judgment of the said corporation be necessary for securing thereto full rights to said invention, all of the foregoing to be at the expense of said corporation.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals.

5th / Feb / 2013  
Date

By Takahiro Morikawa  
Takahiro MORIKAWA

4th / Feb / 2013  
Date

By Toshimichi Shintani  
Toshimichi SHINTANI