

# PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hisaaki NISHIMURA</td> <td>10/01/2009</td> </tr> <tr> <td>Katsuhiko HOYA</td> <td>10/01/2009</td> </tr> </tbody> </table>		Name	Execution Date	Hisaaki NISHIMURA	10/01/2009	Katsuhiko HOYA	10/01/2009				
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Kabushiki Kaisha Toshiba</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Shibaura 1-chome, Minato-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>105-8001</td> </tr> </table>		Name:	Kabushiki Kaisha Toshiba	Street Address:	1-1, Shibaura 1-chome, Minato-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	105-8001
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (949)760-9502</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 9497600404</p> <p>Email: efiling@kmob.com</p> <p>Correspondent Name: Knobbe Martens Olson &amp; Bear LLP</p> <p>Address Line 1: 2040 Main Street, 14th Floor</p> <p>Address Line 4: Irvine, CALIFORNIA 92614</p>											
ATTORNEY DOCKET NUMBER:	KISTOSH.008AUS										
NAME OF SUBMITTER:	Irfan A. Lateef										
<p>Total Attachments: 2</p> <p>source=KISTOSH-008AUS_Assignment#page1.tif</p> <p>source=KISTOSH-008AUS_Assignment#page2.tif</p>											

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**PATENT**  
**REEL: 023375 FRAME: 0867**

Application No.: 12/566,398  
Filing Date: September 24, 2009

PATENT  
Client Code: KISTOSH.008 AUS  
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### ASSIGNMENT

WHEREAS, We, Hisaaki NISHIMURA, a Japanese citizen, having an address at Tokyo, JAPAN, Katsuhiko HOYA, a Japanese citizen, having an address at Tokyo, JAPAN, have invented certain new and useful improvements in a SEMICONDUCTOR MEMORY DEVICE for which we have filed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, KABUSHIKI KAISHA TOSHIBA. (hereinafter "ASSIGNEE"), a Japanese Corporation, with its principal place of business at 1-1-1, Shibaura, Minato-ku, Tokyo, JAPAN, desires to acquire the entire right, title, and interest in and to said improvements and said Application:

NOW, THEREFORE, in return for good and valuable consideration, the receipt of which is hereby acknowledged, I, said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under said improvements, and said application including all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE DO HEREBY sell, assign, transfer, and convey to ASSIGNEE, his successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND WE HEREBY covenant and agree that we will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Application No.: 12/566,398  
Filing Date: September 24, 2009

PATENT  
Client Code: KISTOSH.008AUS  
Page 2

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 1 day of  
October, 2009.

Hisaaki Nishimura  
Hisaaki NISHIMURA

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 1 day of  
October, 2009.

Katsuhiko Hoya  
Katsuhiko HOYA

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of  
\_\_\_\_\_, 20\_\_.

\_\_\_\_\_

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