

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yoshiaki FUKUZUMI</td> <td>02/13/2008</td> </tr> <tr> <td>Hideaki AOCHI</td> <td>02/14/2008</td> </tr> <tr> <td>Ryota KATSUMATA</td> <td>02/13/2008</td> </tr> </tbody> </table>		Name	Execution Date	Yoshiaki FUKUZUMI	02/13/2008	Hideaki AOCHI	02/14/2008	Ryota KATSUMATA	02/13/2008
Name	Execution Date								
Yoshiaki FUKUZUMI	02/13/2008								
Hideaki AOCHI	02/14/2008								
Ryota KATSUMATA	02/13/2008								
RECEIVING PARTY DATA									
Name:	KABUSHIKI KAISHA TOSHIBA								
Street Address:	1-1, Shibaura 1-chome, Minato-Ku								
City:	Tokyo								
State/Country:	Japan								
Postal Code:	105-8001								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12013672</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12013672				
Property Type	Number								
Application Number:	12013672								
CORRESPONDENCE DATA									
Fax Number:	(703)413-2220								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(703) 413-3000								
Email:	mdo@oblon.com								
Correspondent Name:	Oblon, Spivak, et al.								
Address Line 1:	1940 Duke Street								
Address Line 4:	Alexandria, VIRGINIA 22314								
ATTORNEY DOCKET NUMBER:	320763US2								
NAME OF SUBMITTER:	Mai Do								
Total Attachments: 2 source=320763USAssignment#page1.tif source=320763USAssignment#page2.tif									

OP \$40.00 12013672

PATENT

500504783

REEL: 020749 FRAME: 0728

Assignment of Application

WHEREAS, I (WE) Yoshiaki FUKUZUMI of c/o Intellectual Property Division, Toshiba Corporation,
1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN; Hideaki AOCHI of
c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku,
Tokyo 105-8001, JAPAN; and Ryota KATSUMATA of c/o Intellectual Property Division,
Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN

INSERT NAMES
AND RESIDENCE
ADDRESS OF
THE INVENTORS:

_____, respectively,

have invented certain new and useful improvements in: SEMICONDUCTOR MEMORY DEVICE

INSERT TITLE
OF INVENTION:

for which an application for Letters Patent was executed on _____

(Application No. 12/013,672, filed January 14, 2008), and

INSERT DATE IN-
VENTORS SIGNED
DECLARATION:

WHEREAS, KABUSHIKI KAISHA TOSHIBA

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____

1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

10/01

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: Feb. 13, 2008

(Signature of Inventor) 
Yoshiaki FUKUZUMI

Date: Feb 14, 2008

(Signature of Inventor) 
Hideaki AOCHI

Date: Feb 13, 2008

(Signature of Inventor) 
Ryota KATSUMATA

Date: _____

(Signature of Inventor) _____

Date: _____

(Signature of Inventor) _____

Date: _____

(Signature of Inventor) _____

Date: _____

(Signature of Inventor) _____

Date: _____

(Signature of Inventor) _____

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

10/01