

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>Norichika ASAOKA</td> <td>03/08/2012</td> </tr> <tr> <td>Masanobu SHIRAKAWA</td> <td>03/08/2012</td> </tr> <tr> <td>Kiyotaro ITAGAKI</td> <td>03/08/2012</td> </tr> </tbody> </table>		Name	Execution Date	Norichika ASAOKA	03/08/2012	Masanobu SHIRAKAWA	03/08/2012	Kiyotaro ITAGAKI	03/08/2012
Name	Execution Date								
Norichika ASAOKA	03/08/2012								
Masanobu SHIRAKAWA	03/08/2012								
Kiyotaro ITAGAKI	03/08/2012								
RECEIVING PARTY DATA									
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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>13419953</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13419953				
Property Type	Number								
Application Number:	13419953								
CORRESPONDENCE DATA									
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NAME OF SUBMITTER:	Jessica Abarca								
Total Attachments: 2 source=396475USAssignment#page1.tif source=396475USAssignment#page2.tif									

OP \$40.00 13419953

Assignment of Application

INSERT NAMES AND RESIDENCE ADDRESS OF THE INVENTORS:

WHEREAS, I (WE) Norichika ASAOKA of c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN; Masanobu SHIRAKAWA of c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN; Kiyotaro ITAGAKI of c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN;

_____, respectively,

INSERT TITLE OF INVENTION:

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

(Application No. _____, filed _____), and

INSERT NAME AND ADDRESS OF COMPANY OR OTHER ASSIGNEE:

WHEREAS, KABUSHIKIKAISHA TOSHIBA

(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.

12/04

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: March 8, 2012

Norichika Asuoka
(Signature of Inventor) Norichika ASAOKA

Date: March 8, 2012

Masanobu Shirakawa
(Signature of Inventor) Masanobu SHIRAKAWA.

Date: March 8, 2012

Kiyotaro Itagaki
(Signature of Inventor) Kiyotaro ITAGAKI

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.
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1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314