

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Makoto WADA</td><td>02/10/2009</td></tr><tr><td>Akihiro KAJITA</td><td>02/10/2009</td></tr><tr><td>Kazuyuki HIGASHI</td><td>02/10/2009</td></tr></tbody></table>		Name	Execution Date	Makoto WADA	02/10/2009	Akihiro KAJITA	02/10/2009	Kazuyuki HIGASHI	02/10/2009
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<table border="1"><tr><td>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></table>		Name:	KABUSHIKI KAISHA TOSHIBA	Street Address:	1-1, Shibaura 1-chome, Minato-ku	City:	Tokyo	State/Country:	JAPAN
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PROPERTY NUMBERS Total: 1									
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CORRESPONDENCE DATA									
Fax Number: (703)413-2220 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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NAME OF SUBMITTER:	Mesfin Kassaye								
Total Attachments: 2 source=337933USAssignment#page1.tif source=337933USAssignment#page2.tif									

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PATENT
REEL: 022646 FRAME: 0023

PTBF-08114US (ACG048815-USA-A)

Assignment of ApplicationINSERT NAMES
AND RESIDENCE
ADDRESS OF
THE INVENTORSWHEREAS, I (WE) (1) Makoto WADA, (2) Akihiro KAJITA, (3) Kazuyuki HIGASHIall of c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku,
Tokyo, Japan

, respectively,

INSERT TITLE OF
INVENTIONhave invented certain new and useful improvements in: SEMICONDUCTOR DEVICE(Application No. 12/361,979 , filed on January 29, 2009), andINSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEEWHEREAS, Kabushiki Kaisha Toshiba, 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan(hereinafter referred to as "ASSIGNEE") having a place of business at: 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: February 10, 2009

Makoto Wada

(Signature of Inventor) Makoto WADA

Date: February 10, 2009

Akihiro Kajita

(Signature of Inventor) Akihiro KAJITA

Date: February 10, 2009

Kazuyuki Higashi

(Signature of Inventor) Kazuyuki HIGASHI

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