\$40,00 12233(

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Tsunehiro INO	09/18/2008	
Naoki YASUDA	09/18/2008	
Koichi MURAOKA	09/18/2008	
Jun FUJIKI	09/18/2008	
Shoko KIKUCHI	09/18/2008	
Keiko ARIYOSHI	09/18/2008	

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

Property Type	Number
Application Number:	12233073

CORRESPONDENCE DATA

Fax Number: (703)413-2220

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (703) 413-3000

Email: mkassaye@oblon.com
Correspondent Name: Oblon, Spivak, et al.
Address Line 1: 1940 Duke Street

Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 332182US

NAME OF SUBMITTER: Mesfin Kassaye

500698293 REEL: 021802 FRAME: 0731

9 GO_____ Total Attachments: 2 source=332182USAssignment#page1.tif source=332182USAssignment#page2.tif

PATENT REEL: 021802 FRAME: 0732

Assignment of Application

ERT NAMES	WHEREAS, I (WE) 1) Tsunehiro INO, 2) Naoki YASUDA, 3) Koichi MURAOKA, 4) Jun FUJIKI,			
D RESIDENCE DRESS OF E INVENTORS.	5) Shoko KIKUCHI and 6) Keiko ARIYOSHI of:			
E INVENTORS.	1) Fujisawa-shi, Kanagawa-ken, Japan;			
	2) Yokohama-shi, Kanagawa-ken, Japan;			
	3) Sagamihara-shi, Kanagawa-ken, Japan;			
	4) Yokohama-shi, Kanagawa-ken, Japan;			
	5) Kawasaki-shi, Kanagawa-ken, Japan; and			
	6) Yokohama-shi, Kanagawa-ken, Japan			
		, respectively,		
SERT TITLE OF	have invented certain new and useful improvements in: SEMICONDUCTOR MEMORY ELEMENT			
VENTION:				
	(Application No. 12/233,073 , filed <u>September 18, 2008</u>), and		
	WHEREAS, KABUSHIKI KAISHA TOSHIBA			
SERT NAME				

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

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 so le 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.

Page 2 of 2

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 rule s of the United States Patent and Trademark Office for recordation of this document.

Date:	September 18, 2008	Townships Ino
_		(Signature of Inventor) Tsunchiro INO
Date: _	September 18, 2008	Nactice Gamala (Signature of Inventor) Nacki YASUDA
Date: _	September 18, 2008	Kouli Munoka (Signaluce of lavendor) Koichi MURAOKA
Date:	September 18, 2008	Jun Fujik ((Signature of Inventor) Jun FUJIKI
Date:	September 18, 2008	Shoko Kikuchi
Date:	September 18, 2008	Keika Uriyoshi
		(Signature of Inventor) Keiko ARIYOSIII

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

12/04

RECORDED: 11/07/2008