

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| | |
|---|----------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Masanobu SHIRAKAWA | 09/27/2011 |
| 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: | 13235396 |
| CORRESPONDENCE DATA | |
| Fax Number: | (703)413-2220 |
| Phone: | (703) 413-3000 |
| Email: | bpalmer@oblon.com |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Correspondent Name: | Oblon, Spivak, et al. |
| Address Line 1: | 1940 Duke Street |
| Address Line 4: | Alexandria, VIRGINIA 22314 |
| ATTORNEY DOCKET NUMBER: | 386868US2S |
| NAME OF SUBMITTER: | Brian Palmer |
| Total Attachments: 2 source=386868USASSIGNMENT#page1.tif source=386868USASSIGNMENT#page2.tif | |

OP \$40.00 13235396

501738931

PATENT
REEL: 027299 FRAME: 0062

ASSIGNMENT

ACG060672-USA-A
(11S0767)

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

NONVOLATILE SEMICONDUCTOR MEMORY DEVICE CAPABLE OF SPEEDING UP
WRITE OPERATION

have sold and assigned and do hereby sell and assign to
KABUSHIKI KAISHA TOSHIBA
a Japanese corporation, having a business address at
1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) ☒ executed concurrently herewith
☐ executed on _____ ;
☒ Application No. 13/235,396 , filed September 18, 2011 ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P., 1940 Duke Street Alexandria, VA
22314

ASSIGNMENT

ACG060672-USA-A
(11S0767)

[1st Inventor]

Residence Address: Chigasaki-shi, Japan

Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,
Minato-ku, Tokyo 105-8001, Japan

Citizenship: Japan

Masanobu Shirakawa

Masanobu Shirakawa

Sept 27, 2011

Date: