

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT4660446

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KABUSHIKI KAISHA TOSHIBA	10/04/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TOSHIBA MEMORY CORPORATION
<b>Street Address:</b>	1-1, SHIBAURA 1-CHOME, MINATO-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	105-0023
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	10441726
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	083396-000009
<b>NAME OF SUBMITTER:</b>	TERESA A LAVENUE
<b>SIGNATURE:</b>	/Teresa A Lavenue/
<b>DATE SIGNED:</b>	10/26/2017
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

WHEREAS, KABUSHIKI KAISHA TOSHIBA (hereafter "**Assignor**"), a Japanese Corporation, having an address of 1-1, Shibaura 1-Chome, Minato-ku, Tokyo 105-8001, JAPAN, is the owner of or has an ownership interest in the patents set forth on Exhibit A attached hereto (hereafter the "**Patents**"); and

WHEREAS, TOSHIBA MEMORY CORPORATION (hereafter "**Assignee**"), a Japanese Corporation, having an address of 1-1, Shibaura 1-Chome, Minato-ku, Tokyo 105-0023, JAPAN, is desirous of securing the entire right, title and interest in and to the Patents in all countries throughout the world, as further set forth herein.

NOW, THEREFORE, be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, Assignor's entire right, title and interest in and to the: (a) Patents; (b) reissues, reexaminations, continuations, requests for continuing examinations, or continuing prosecution applicaions, and design registrations of any Patent; (c) all national (of any country of origin) and regional counterparts to which any of the items identified in clause (a) or (b) above claims priority (directly or indirectly), and (d) all patents issuing on any of the items identified in clause (a), (b), or (c) above (collectively, "**Assigned Patents**"), the same to be held and enjoyed by Assignee for its own use and benefit, and ro the use and benefit of its successors, assigns, or legal representatives, to the end of the term or terms for which such Assigned Patents may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made.

AND, ASSIGNOR HEREBY assigns unto Assignee all equitable and legal claims for damages by reason of infringement prior to, at or after the assignment date of the Assigned Patents throughout the world, with the right to sue for and collect and retain both such past, present and future damages for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives.

AND, ASSIGNOR HEREBY covenants that it has the full right to convey the interest assigned by this Assignment, and that Assignor has not executed and will not execute any agreement in conflict with this Assignment;

AND, ASSIGNOR HEREBY further covenants and agrees that it will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to it respecting the Assigned Patents, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title of the Assigned Patents in the Assignee, its successors or assigns, execute all non-provisional, divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for the Assigned Patents in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by Assignee, it successors and assigns.

IN TESTIMONY WHEREOF, Assignor has signed on the date indicated.

[Signature Page Follows]

**ASSIGNOR**

KABUSHIKI KAISHA TOSHIBA

  
\_\_\_\_\_

Printed Name: Ikuko SHIMOGAWARA

Title: General Manager,  
Intellectual Property Division

Date: October 4, 2017

**ASSIGNEE**

TOSHIBA MEMORY CORPORATION

  
\_\_\_\_\_

Printed Name: Michihito HATSUMI

Title: General Manager,  
Intellectual Property Division

Date: Oct. 10, 2017

[Signature Page to Assignment]

# **EXHIBIT A**

<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>
10/441726	2003/5/20	7,524,108	2009/4/28
12/402357	2009/3/11	7,789,558	2010/9/7