PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEIRI NAKANISHI	01/23/2017
SHO KODAMA	01/24/2017
KOHEI OIKAWA	01/23/2017
KOJIRO SUZUKI	01/23/2017

RECEIVING PARTY DATA

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State/Country:	JAPAN	
Postal Code:	105-8001	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15422100

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Address Line 4: NEW YORK, NEW YORK 10036-3744

ATTORNEY DOCKET NUMBER:	16139	
NAME OF SUBMITTER:	AMIT KULKARNI	
SIGNATURE:	/ak/	
DATE SIGNED: 02/01/2017		
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

PATENT REEL: 041148 FRAME: 0809

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PATENT REEL: 041148 FRAME: 0810

Combined Declaration and Assignment for Utility or Design Application Title of MEMORY CONTROLLER, METHOD OF CONTROLLING NONVOLATILE Invention MEMORY AND MEMORY SYSTEM As the below named inventor, I hereby declare that: This declaration [X] The attached application, or is directed to: [] United States application or PCT international application number ______ filed on _____. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. In consideration of value received, I sell and assign to Kabushiki Kaisha Toshiba, 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, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. 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 proceeding, sign all lawful papers, execute all divisional, continuing, 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 in all countries. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both, LEGAL NAME OF INVENTOR

Holtz, Holtz & Volek PC 630 Ninth Avenue, Suite 1010, New York, NY 10036-3744 Tel. (212) 319-4900 Fax. (212) 319-5101

Signature

(Cein: Nohamlin

PATENT REEL: 041148 FRAME: 0811

Jan, 23, 2017

Date

Keiri NAKANISHI

Inventor (printed name)

Combined Declaration and Assignment for Utility or Design Application					
Title of Invention					
As the below	w named inventor, I he	reby declare that:			
This declaration [X] The attached application, or is directed to:					
[] United States application or PCT International application number filed on					
The above-identified application was made or authorized to be made by me.					
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.					
In consideration of value received, I sell and assign to <u>Kabushiki Kaisha Toshiba</u> , having a business address at <u>1-1</u> , <u>Shibaura 1-chome</u> , <u>Minato-ku</u> , <u>Tokyo 105-8001 Japan</u> , its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications.					
I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee.					
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 proceeding, sign all lawful papers, execute all divisional, continuing, 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 in all countries.					
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
LEGAL NAME OF INVENTOR					
Sh	o KODAMA	Sho Kudama	Jan. 24. 2017		
Invento	r (printed name)	Signature	Date		

Holtz, Holtz & Volek PC 630 Ninth Avenue, Suite 1010, New York, NY 10036-3744 Tel. (212) 319-4900 Fax. (212) 319-5101

> PATENT REEL: 041148 FRAME: 0812

Combined Declaration and Assignment for Utility or Design Application Title of MEMORY CONTROLLER, METHOD OF CONTROLLING NONVOLATILE Invention MEMORY AND MEMORY SYSTEM As the below named inventor, I hereby declare that: This declaration [X] The attached application, or is directed to: [] United States application or PCT international application number ______ filed on ______. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the In consideration of value received, I sell and assign to Kabushiki Kaisha Toshiba, 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, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, relssues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. 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 proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful caths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR Kohei OIKAWA Kohen Ordowe Jan 23, 2017 Inventor (printed name) Signature Date

Holtz, Holtz & Volek PC 630 Ninth Avenue, Suite 1010, New York, NY 10036-3744 Tel. (212) 319-4900 Fax. (212) 319-5101

> PATENT REEL: 041148 FRAME: 0813

Combined Declaration and Assignment for Utility or Design Application Title of MEMORY CONTROLLER, METHOD OF CONTROLLING NONVOLATILE Invention MEMORY AND MEMORY SYSTEM As the below named inventor, I hereby declare that: This declaration [X] The attached application, or is directed to: [] United States application or PCT international application number _____ filed on _____. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. In consideration of value received, I sell and assign to Kabushiki Kaisha Toshiba, 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, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. 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 proceeding, sign all lawful papers, execute all divisional, continuing, 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 in all countries. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR

Holtz, Holtz & Volek PC 630 Ninth Avenue, Suite 1010, New York, NY 10036-3744 Tel. (212) 319-4900 Fax. (212) 319-5101

Signature

Koziis Smil

PATENT REEL: 041148 FRAME: 0814

Jan. 23, 2017

Date

1048003845 RECORDED: 02/01/2017

Kojiro SUZUKI

Inventor (printed name)