PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4577380

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE POSTAL CODE previously recorded on Reel 042798 Frame 0179. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
KABUSHIKI KAISHA TOSHIBA	06/12/2017

RECEIVING PARTY DATA

Name:	TOSHIBA MEMORY CORPORATION	
Street Address:	1-1, SHIBAURA 1-CHOME	
City:	MINATO-KU, TOKYO	
State/Country:	JAPAN	
Postal Code:	105-0023	

PROPERTY NUMBERS Total: 17

Property Type	Number
Application Number:	14139985
Application Number:	14305320
Application Number:	15056133
Application Number:	15252982
Application Number:	14630672
Application Number:	14633263
Application Number:	14636424
Application Number:	14641740
Application Number:	14645978
Application Number:	14793848
Application Number:	14840625
Application Number:	14844538
Application Number:	14844050
Application Number:	14848075
Application Number:	15059625
Application Number:	15064940
Application Number:	15255298

CORRESPONDENCE DATA

PATENT

REEL: 043747 FRAME: 0316 504530674

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.

Email: julianna.shin@finnegan.com

Correspondent Name: JOHN M MULCAHY

Address Line 1: 901 NEW YORK AVE, NW Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	14296.0999-00000
NAME OF SUBMITTER:	JULIANNA C. SHIN
SIGNATURE:	/julianna c. shin/
DATE SIGNED:	09/01/2017

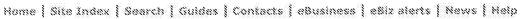
Total Attachments: 4

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> PATENT REEL: 043747 FRAME: 0317



United States Patent and Trademark Office





Electronic Patent Assignment System

Confirmation Receipt

Your assignment has been received by the USPTO. The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	

Name	Execution Date
KABUSHIKI KAISHA TOSHIBA	06/12/2017

RECEIVING PARTY DATA

Name:	TOSHIBA MEMORY CORPORATION
Street Address:	1-1, SHIBAURA 1-CHOME
City:	MINATO-KU, TOKYO
State/Country:) (
Postal Code:	105-8001

PROPERTY NUMBERS Total: 17

Property Type	Number
Application Number:	14139985
Application Number:	14305320
Application Number:	15056133
Application Number:	15252982
Application Number:	14630672
Application Number:	14633263

Application Number:	14636424
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Application Number:	14844538
Application Number:	14844050
Application Number:	14848075
Application Number:	15059625
Application Number:	15064940
Application Number:	15255298

CORRESPONDENCE DATA

Fax Number:

Email:

julianna.shin@finnegan.com

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 Mall.

Correspondent Name:

JOHN M MULCAHY

Address Line 1:

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ATTORNEY DOCKET NUMBER:	08411.0999-00000
NAME OF SUBMITTER:	JULIANNA C. SHIN
Signature:	/julianna c. shin/
Date:	06/23/2017

Total Attachments: 2

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RECEIPT INFORMATION

EPAS ID:

PAT4475601

Receipt Date:

06/23/2017

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PATENT

ASSIGNMENT

WHEREAS, KABUSHIKI KAISHA TOSHIBA, a corporation of Japan, whose post office address is 1-1. Shibaura 1-chome, Minato-Ku, Tokyo 105-8001, JAPAN (hereinafter referred to as "KKT"), owns by assignment, all right, title and interest in the U.S. patent(s) and/or patent application(s) listed in attached Exhibit A, and in any inventions claimed therein ("the patent properties"); and

WHEREAS, TOSHIBA MEMORY CORPORATION (hereinafter referred to as "Assignee") desires to own KKT's entire right, title, and interest in and to the patent properties and the inventions claimed therein;

NOW THEREFORE, be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, KKT hereby sells, assigns, transfers and sets over to Assignee, its lawful successors and assigns, KKT's entire right, title, and interest in and to the patent properties, the inventions claimed therein and all reissues, reexaminations and extensions thereof;

AND, KKT HEREBY further covenants that Assignees has the full right to convey the interest assigned by this Assignment, KKT will take all action and execute all documents necessary to perfect the interest assigned hereby, and KKT has not executed and will not execute any agreement in conflict with this Assignment;

AND, KKT HEREBY further covenants and agrees that KKT, through its officers and employees, will, without further consideration, communicate with the Assignee, its successors and assigns, any facts known to KKT and its officers and employees respecting the patent properties and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to the patent properties in Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid the Assignee, its successors and assigns, to obtain and enforce the patent properties in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, each party has caused its authorized representative to execute this Assignment.

KABUSHIKI KAISHA TOSHIBA

By: <u>Ada King</u>awa Name: ikuko SHIMOGAWARA

Title: General Manager, Intellectual Property Division

Date: June 12, 2017

TOSHIBA MEMORY CORPORATION

Name: Michihito HATSUMI

Title: General Manager, Intellectual Property Division

Date: June 19, 20/7

PATENT

REEL: 043747 FRAME: 0320

EXHIBIT A U.S. PATENT APPLICATION NOS.

14/139,985

14/305,320

15/056,133

15/252,982

14/630,672

14/633,263

14/636,424

14/641,740

14/645,978

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14/840,625

14/844,538

14/844,050

14/848,075

15/059,625

15/064,940

15/255,298

PATENT REEL: 043747 FRAME: 0321

RECORDED: 09/01/2017