

## PATENT ASSIGNMENT COVER SHEET

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<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	05/31/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TDK CORPORATION
<b>Street Address:</b>	3-9-1, SHIBAURA
<b>City:</b>	MINATO-KU, TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	108-0023
<b>PROPERTY NUMBERS Total: 6</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14564752
Application Number:	14564760
Application Number:	14749106
Application Number:	14753865
Application Number:	14748888
Application Number:	14850245
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
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<b>Correspondent Name:</b>	JOHN M MULCAHY
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<b>ATTORNEY DOCKET NUMBER:</b>	12389.0111 ET AL.
<b>NAME OF SUBMITTER:</b>	JULIANNA C. SHIN
<b>SIGNATURE:</b>	/julianna c. shin/
<b>DATE SIGNED:</b>	07/22/2016
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**

WHEREAS, Kabushiki Kaisha Toshiba, a corporation of Japan having a place of business at 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan (hereinafter referred to as "KKT"), owns all right, title and interest in the U.S. patent applications listed in attached Exhibit A, and any inventions claimed therein ("the Applications");

WHEREAS, TDK Corporation, a corporation of Japan having a place of business at 3-9-1, Shibaura, Minato-ku, Tokyo 108-0023, Japan (hereinafter referred to as "TDK"), desires to own KKT's entire right, title, and interest in and to the Applications and any 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 TDK, its lawful successors and assigns, KKT's entire right, title, and interest in and the Applications, and all patents, reissues, reexaminations and extensions thereof;

AND, KKT HEREBY further covenants that KKT 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 TDK, its successors and assigns, any facts known to KKT and its officers and employees respecting the Applications 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 Applications in TDK, its successors and assigns, make all rightful oaths and generally do everything possible to aid TDK, its successors and assigns, to maintain and enforce the Applications in the United States, it being understood that any expense incident to the execution of such papers shall be borne by TDK, its successors and assigns;

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

KABUSHIKI KAISHA TOSHIBA

By: \_\_\_\_\_

Name: Hideo KUMAGAI

Title: General Manager, Intellectual Property Div.

Date: \_\_\_\_\_

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EXHIBIT A

PATENT APPLICATION NO.	APPLICATION FILING DATE
14/564752	12/9/2014
14/564760	12/9/2014
14/749106	6/24/2015
14/753865	6/29/2015
14/748888	6/24/2015
14/850245	9/10/2015