# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
RYOSUKE HIRAMATSU	02/13/2018
KEIKO ALBESSARD	02/08/2018
NAOTOSHI MATSUDA	02/13/2018
MASAHIRO KATO	02/13/2018

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State/Country:	JAPAN
Name:	TOSHIBA MATERIALS CO., LTD.
Name: Street Address:	TOSHIBA MATERIALS CO., LTD.  8, SHINSUGITA-CHO, ISOGO-KU
	· ·

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14850168

### CORRESPONDENCE DATA

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NAME OF SUBMITTER:	MARA VUKOVIC
SIGNATURE:	/Mara Vukovic/
DATE SIGNED:	03/05/2018

PATENT REEL: 045101 FRAME: 0507

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# Total Attachments: 3

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PATENT REEL: 045101 FRAME: 0508

Toshiba Ref.: 13G90067050-US-A

# Assignment of Application

WHEREAS, I (WI	E) (1) Ryosuke HIRA	MATSU		
·	(2) Keiko ALBES	SARD		
	(3) Naotoshi MAT	SUDA		•
	(4) Masabiro KAT	О;		
	(1) to (4) c/o Intell	ectual Property Division	ı, Toshiba Corporation,	
	1-1,1	Shibaura 1-chome, Min	ito-ku, Tokyo, Japan	
e de la distribución de la company de la				
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		***************************************		*************************
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				·
				, respectively
have invented cor	tain new and useful in	nprovements in: PHOS	PHOR. MANUFACTURING ME	THOD THEREOF.
(Application No.	14/850,168	, filed	September 10, 2015	), and
WHEREAS,	1) KABUSHIKI KA	ISHA TOSHIBA and 2	TOSHIBA MATERIALS CO., I	TTD.
			, , , , , , , , , , , , , , , , , , , ,	
	have invented cor AND LIGHT-EM	(2) Keiko ALBES. (3) Naotoshi MAT (4) Masabiro KAT (1) to (4) c/o Intell 1-1,  have invented certain new and useful in AND LIGHT-EMITTING DEVICE US	1-1, Shibaura 1-chome, Mins have invented certain new and useful improvements in: PHOSI AND LIGHT-EMITTING DEVICE USING THE PHOSPHOR (Application No. 14/850,168 , filed	(2) Keiko ALBESSARD  (3) Naotoshi MATSUDA  (4) Masabiro KATO;  (1) to (4) c/o Intellectual Property Division, Toshiba Corporation,  1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan  have invented certain new and useful improvements in: PHOSPHOR, MANUFACTURING MEAND LIGHT-EMITTING DEVICE USING THE PHOSPHOR  (Application No. 14/850,168 , filed September 10, 2015

(hereinafter referred to as "ASSIGNEES") having places of business at: 1) 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan and 2) 8, Shinsugita-cho, Isogo-ku, Yokohama-shi, Kanagawa-ken, Japan, respectively are desirous of jointly acquiring interests in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignces of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEES or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: Feb. 13, 2018	Ryssuke Hiranatry
	(Signature (Minventor) Ryosuke HIRAMATSU
Date:	(Signature of Inventor) Keiko ALBESSARD
Date: Feb. 13, 2018	Nactoshi Matanda
Date: Feb. 13, 20/8	(Signature of Leventor) Naotoshi MATSUDA
Date: 1-26.17/2-0/84	(Signature of Inventor) Masahiro KATO
Date:	
	(Signature of Inventor)
Date:	(Signature of Inventor)
	(BESIGNOC OF INVENCOL)

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 Further, I (WE) agree that I (WE) will communicate to said ASSIGNEES or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:		
	(Signature of Inventor)	Ryosuke HIRAMATSU
Date: February 8, 2018	Ke	riko Albessavol
7	(Signature of Inventor)	Keiko ALBESSARD
Date:		
	(Signature of Inventor)	Naotoshi MATSUDA
Date:		
	(Signature of Inventor)	Masahiro KATO
Date:		
Name of the second seco	(Signature of Inventor)	
Date:		
	(Signature of Inventor)	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

07/09