505477103 05/15/2019

EPAS ID: PAT5523907

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
TATSUYA KANZAKI	02/26/2019
YUICHIRO IGUCHI	03/06/2019
MASAAKI UMEHARA	02/26/2019

RECEIVING PARTY DATA

Name:	TORAY INDUSTRIES, INC.
Street Address:	1-1, NIHONBASHI-MUROMACHI 2-CHOME
Internal Address:	CHUO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	1038666

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16338841

CORRESPONDENCE DATA

Fax Number: (610)407-0701

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.

Phone: (610) 407-0700

Email: fpetrillo@ratnerprestia.com

Correspondent Name: RATNERPRESTIA

Address Line 1: 2200 RENAISSANCE BOULEVARD

Address Line 2: SUITE 350

Address Line 4: KING OF PRUSSIA, PENNSYLVANIA 19406

ATTORNEY DOCKET NUMBER:	TORA-119US
NAME OF SUBMITTER:	JAYA SHARMA, REG. NO. 57373
SIGNATURE:	/Jaya Sharma/
DATE SIGNED:	05/15/2019

Total Attachments: 3

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PATENT 505477103 REEL: 049183 FRAME: 0083

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PATENT REEL: 049183 FRAME: 0084

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dol inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) TORAY INDUSTRIES, INC.	lar (\$1.00), and of other good and valueb	le consideration paid to the undersigned
1-1, Nihonbashi-Muromachi 2-cho	me, Chuo-ku, Tokyo 103-8666	Japan
(hereinafter, "ASSIONEE"), the receipt of which is I ASSIONEE the entire and exclusive right, title and is (Title of Invention)	nereby acknowledged, the undersigned ASSI interest to the invention entitled	GNOR hereby sells, assigns and transfers to
LIGHT SOURCE UNIT, AND DISPL	AY AND LIGHTING DEVICE E	ACH INCLUDING SAME
relating to International Patent Application PCT/JF executed on even date herewith or, if not so executed (a) executed on February 26, 2019	, was:	
	: (Insert date of execution of app	offication, if not concurrent) .
(b) filed onApril 2, 2019 Serial No16/338,841 ;	Assignee's attorney is here data, when known.	by authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application based including any extensions thereof (collectively, herein	thereon, for the full term or terms for which taffer, "said application(s) and Letters Patent(he said Leiters Patent(s) may be granted and s)").
The ASSIGNOR agree(s), when requested by said which the ASSIGNEE may deem necessary, desirable including in the preparation and prosecution of said a reexamination, or public use proceeding, and in any life acts to include but not be limited to executing all papsworn testimony, and obtaining and producing eviden	e or expedient, for securing, maintaining and pplication(s) and the issuance of said Letters tigation or other legal proceeding which may ars, including separate assignments and deals	enforcing protection for said invention, Patent(s), in any interference, reissue, prise or be declared in relation to same such
IN WITNESS WHEREOF, the undersigned inventor	tor(s) has (have) affixed his/her/their signatu	ro(s).
1) Tatsuya Kanzaki	Tatsuya KANZAKI	2019, 2, 26
(Signature) 2)	(Type Name) Yuichiro IGUCHI	(Date)
(Signature)	(Type Name) Masaaki UMEHARA	(Date)
(Signature)	(Type Name)	(Date)
(Signature)	(Type Name)	(Date)
(Signature)	(Type Name)	(Date)

PATENT REEL: 049183 FRAME: 0085

U.S. ASSIGNMENT

in CONSIDERATION of the sum of One Do inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) TORAY INDUSTRIES, INC.	ollar (\$1.00), and of other good and valua	ble consideration paid to the undersigned
1-1, Nihonbashi-Muromachi 2-ch	ome, Chuo-ku, Tokyo 103-8660	3 Japan
(hereinafter, "ASSIGNEE"), the receipt of which is ASSIGNEE the entire and exclusive right, title and (Title of Invention)	hereby acknowledged, the undersigned ASS interest to the invention entitled	IGNOR hereby sells, assigns and transfers to
LIGHT SOURCE UNIT, AND DISP	LAY AND LIGHTING DEVICE I	EACH INCLUDING SAME
relating to International Patent Application PCT/J executed on even date herewith or, if not so execute	P2017/029689 and/or for which applicati	on for Letters Patent of the United States was
(a) executed on March 6, 2019	; (Insert date of execution of a	oplication, if not concurrent)
(b) filed on April 2, 2019		
Serial No16/338,841;		eby authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application base including any extensions thereof (collectively, hereing the ASSIGNOR agree(s), when requested by said which the ASSIGNEE may deem necessary, desirable including in the preparation and prosecution of said reexamination, or public use proceeding, and in any lacts to include but not be limited to executing all passworn testimony, and obtaining and producing evidential in the preparation of the limited to executing all passworn testimony, and obtaining and producing evidential in the preparation of the limited to executing all passworn testimony, and obtaining and producing evidential in the preparation in the limited to executing all passworn testimony, and obtaining and producing evidential in the preparation in	d thereon, for the full term or terms for which nafter, "said application(s) and Letters Paten id ASSIGNEE and without charge to but at the ole or expedient, for securing, maintaining an application(s) and the issuance of said Letter litigation or other legal proceeding which may pers, including separate assignments and decence.	the said Letters Patent(s) may be granted and t(s)"). ne expense of said ASSIGNEE, to do all acts d enforcing protection for said invention, as Patent(s), in any interference, reissue, y arise or be declared in relation to same, such larations, taking all rightful oaths, providing
1)	Tatsuya KANZAKI	
Juiles Lguel.	(Type Name) Yuichiro IGUCHI	Mar. 6. 2019
(Signature)	<i>(Type Name)</i> Masaaki UMEHARA	(Date)
(Signature)	(Type Name)	(Date)
(Signature)	(Type Name)	(Date)
(Signature)	(Type Name)	(Date)

PATENT REEL: 049183 FRAME: 0086

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dinventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) TORAY INDUSTRIES, INC.	Pollar (\$1.00), and of other good and valuable	e consideration paid to the undersigned
1-1, Nihonbashi-Muromachi 2-ci	nome, Chuo-ku, Tokyo 103-8666 .	lapan
- Chairmann and a second a second and a second a second and a second a second and a		
(hereinafter, "ASSIGNEE"), the receipt of which i ASSIGNEE the entire and exclusive right, title an (Title of Invention)	is hereby acknowledged, the undersigned ASSIG d interest to the invention entitled	NOR hereby sells, assigns and transfers to
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relating to International Patent Application PCT/cecuted on even date herewith or, if not so execu	JP2017/029689 and/or for which application	for Letters Patent of the United States was
(a) executed on February 26, 20		ication, if not concurrent)
(b) filed onApril 2, 2019		
Scrial No16/338,841	; Assignee's autorney is nereo; data, when known.	o authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of substitute, reissue or reexamination application bas including any extensions thereof (collectively, here. The ASSIGNOR agree(s), when requested by substitute the ASSIGNEE may deem necessary, desirationally in the preparation and prosecution of said reexamination, or public use proceeding, and in any acts to include but not be limited to executing all pasworn testimony, and obtaining and producing evice.	ted thereon, for the full term or terms for which the sinafter, "said application(s) and Letters Patent(s) and ASSIGNEE and without charge to but at the cable or expedient, for securing, maintaining and capplication(s) and the issuance of said Letters is litigation or other legal proceeding which may are applications senamic assignments and declarations.	esaid Letters Patent(s) may be granted and "). expense of said ASSIGNEE, to do all acts afforcing protection for said invention, atent(s), in any interference, reissue, iscor he declared in relation to same such
	tence. entor(s) has (have) affixed his/her/their signature	(s).
1)	Tatsuya KANZAKI	
(Signature) 2)	(Type Name) Yulchiro IGUCHI	(Date)
(Signature)	(Type Name)	(Date)
3) Masaaki Umehara (Signature)	Masaaki UMEHARA (Type Name)	2019.2.26
4)	(1ype Name)	(Date)
(Signature)	(Type Name)	(Date)
(Signature)	(Type Name)	(Date)

PATENT REEL: 049183 FRAME: 0087

RECORDED: 05/15/2019