

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5485091

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JONG HYEON CHAE	08/04/2016
	JOON SUP LEE	08/01/2016
	WON YOUNG ROH	08/04/2016
	MIN WOO KANG	08/04/2016
	JONG MIN JANG	08/01/2016
	SE HEE OH	08/04/2016
	HYUN A KIM	08/04/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	SEOUL VIOSYS CO., LTD.	
<b>Street Address:</b>	65-16, SANDAN-RO 163 BEON-GIL	
<b>Internal Address:</b>	DANWON-GU, GYEONGGI-DO	
<b>City:</b>	ANSAN-SI	
<b>State/Country:</b>	KOREA, REPUBLIC OF	
<b>Postal Code:</b>	15429	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15838264
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(206)359-9000	
<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>		
<b>Phone:</b>	(206) 359-8000	
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<b>Correspondent Name:</b>	PERKINS COIE LLP / VINAY SATHE	
<b>Address Line 1:</b>	P.O. BOX 1247	
<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98111-1247	
<b>ATTORNEY DOCKET NUMBER:</b>	114896-8056.US03	
<b>NAME OF SUBMITTER:</b>	MICHAIAH COPP	
<b>SIGNATURE:</b>	/Michaiah Copp/	

<b>DATE SIGNED:</b>	04/22/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 8</b> source=Executed_Assign-Dec_114896-8056.US03#page1.tif source=Executed_Assign-Dec_114896-8056.US03#page2.tif source=Executed_Assign-Dec_114896-8056.US03#page3.tif source=Executed_Assign-Dec_114896-8056.US03#page4.tif source=Executed_Assign-Dec_114896-8056.US03#page5.tif source=Executed_Assign-Dec_114896-8056.US03#page6.tif source=Executed_Assign-Dec_114896-8056.US03#page7.tif source=Executed_Assign-Dec_114896-8056.US03#page8.tif	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Jong Hyeon Chae et al.

Application No.: Not Yet Assigned

Conf. No.: Not Yet Assigned

Filed: Herewith

For: LIGHT EMITTING DIODE AND LIGHT EMITTING  
DEVICE INCLUDING THE SAME

**DECLARATION AND ASSIGNMENT BY THE INVENTOR**  
**UNDER RULE 37 C.F.R. § 1.63 EFFECTIVE ON SEPTEMBER 16, 2012**

As a below named inventor, I hereby declare that:

I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

**LIGHT EMITTING DIODE AND LIGHT EMITTING DEVICE INCLUDING THE SAME**

filed on December 30, 2015, and assigned U.S. Application Number 14/985,162; the specification of which is attached hereto and identified as Attorney Docket No. 114896-8056.US02. I authorize and request an attorney appointed in the above-identified U.S. application to hereafter insert above the filing date and application number of the above-identified U.S. patent application when known.

I believe the following persons are original joint inventors of the above-identified U.S. patent application:

Jong Hyeon Chae;

Joon Sup Lee;

Daewoong Suh;

Won Young Roh;

Min Woo Kang;

Jong Min Jang;

Se Hee Oh; and

Hyun A. Kim.

Inventors : Jong Hyeon Chae et al.  
Appl. No. : Not Yet Assigned  
Filed : Herewith  
Page : 2 of 5

Docket No.: 114896-8056.US02

I made, authorized to make, or will make or authorize to make the above-identified patent application at the U.S. Patent and Trademark Office.

I have reviewed and understand the contents of the above-identified patent application including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

#### ASSIGNMENT

I hereby assign to Seoul Viosys Co., Ltd., a corporation, having a place of business at 65-16, Sandan-ro 163beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do 425-851, Republic of Korea, and its successors and assigns (collectively "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in the above-identified application, and prior PCT Application No. PCT/KR2014/00690 of the same title and filed in the Republic of Korea Receiving Office on July 29, 2014, prior Korean Patent Application No. 10-2013-0089414 filed in the Republic of Korea on July 29, 2013, prior Korean Patent Application No. 10-2013-0089415 filed in the Republic of Korea on July 29, 2013, prior Korean Patent Application No. 10-2014-0195162 filed in the Republic of Korea on December 31, 2014, and prior Korean Patent Application No. 10-2015-0165706, from which the above-identified U.S. patent application claims priorities and benefits.

This assignment includes the entire right, title and interest in the above-identified U.S. and Korean patent applications, all legal equivalents thereof in any country, any and all United States, Patent Cooperation Treaty, Republic of Korea and other foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said applications and patents of the United States, Patent Cooperation Treaty and Republic of Korea, all other foreign patents, utility models, and design registrations, and the right to claim priority based on the filing dates of

Inventors : Jong Hyeon Chae et al.  
Appl. No. : Not Yet Assigned  
Filed : Herewith  
Page : 3 of 5

Docket No.: 114896-8056.US02

the above-identified U.S. and Republic of Korea patent applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes, and the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignee to apply in all countries in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

The foregoing assignments, sale and transfer have been made for good and valuable consideration in accordance with the aforementioned employment agreement.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

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Inventors : Jong Hyeon Chae et al.  
Appl. No. : Not Yet Assigned  
Filed : Herewith  
Page : 4 of 5

Docket No.: 114896-8056.US02

I hereby authorize and request the Commissioner of Patents and Trademarks to issue one or more patents in the United States for said inventions and improvements to Seoul Viosys Co., Ltd. as assignee of the entire interest, for the sole use and benefit of Assignee, its successors and assigns.

I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of first inventor: Jong Hyeon Chae

Inventor's signature: 정혜원

Date: 2016. 8. 17

Full name of joint inventor: Joon Sup Lee

Inventor's signature: 이준수

Date: 2016. 8. 1

Full name of joint inventor: Daewoong Suh

Inventor's signature: \_\_\_\_\_

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

Full name of joint inventor: Won Young Roh

Inventor's signature: \_\_\_\_\_

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

Full name of joint inventor: Min Woo Kang

Inventor's signature: 강민우

Date: 2016. 8. 1

Full name of joint inventor: Jong Min Jang

Inventor's signature: 장종민

Inventors : Jong Hyeon Chae et al.  
Appl. No. : Not Yet Assigned  
Filed : Herewith  
Page : 5 of 5

Docket No.: 114896-8056.US02

Date: 16.8.1

Full name of joint inventor: Se Hee Oh

Inventor's signature: [Signature]

Date: 16.08.04

Full name of joint inventor: Hyun A. Kim

Inventor's signature: [Signature]

Date: 16.8.4

Perkins Coie LLP  
P.O. Box 1247  
Seattle, Washington 98111-1247  
Telephone: (858) 720-5700  
Facsimile: (206) 359-7198

Inventors : Jong Hyeon Chae et al.  
Appl. No. : Not Yet Assigned  
Filed : Korea  
Page : 4 of 5

Docket No.: 114896-8036.0312

I hereby authorize and request the Commissioner of Patents and Trademarks to issue one or more patents in the United States for said inventions and improvements to Seoul Viosys Co., Ltd. as assignee of the entire interest, for the sole use and benefit of Assignee, its successors and assigns.

I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of first inventor: Jong Hyeon Chae

Inventor's signature: \_\_\_\_\_

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

Full name of joint inventor: Joan Sup Lee

Inventor's signature: \_\_\_\_\_

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

Full name of joint inventor: Daeueng Suh

Inventor's signature: \_\_\_\_\_

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

Full name of joint inventor: Won Young Roh

Inventor's signature: WY Roh

Date: 11.08.04

Full name of joint inventor: Min Woo Kang

Inventor's signature: \_\_\_\_\_

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

Full name of joint inventor: Jong Min Jang

Inventor's signature: \_\_\_\_\_

139126338.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY  
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

<b>Title of Invention</b>	LIGHT EMITTING DIODE AND LIGHT EMITTING DEVICE INCLUDING THE SAME		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/985,162</u> filed on <u>December 30, 2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Daewoong Suh			
Residence (except for a deceased or legally incapacitated inventor):			
City	Ansan-si	State	Country KR
Mailing Address (except for a deceased or legally incapacitated inventor):			
65-16, Sandan-ro 163 beon-gil, Danwon-gu, Gyeonggi-do			
City	Ansan-si	State	Zip Country KR
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only).			
<input checked="" type="checkbox"/> Assignee.			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign.			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint Inventor.			

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,
- ☐ Inventor is under legal incapacity,
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

**WARNING:**

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: **Woncheol Seo** Date (Optional):

Signature: *Woncheol Seo*

**APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

**Seoul Viosys Co., Ltd.**

Applicant Name:

Title of Person Executing  
This Substitute Statement: **Manager of IP Department**

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City **Ansan-si** State Country **KR**

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

**1B-36, 727-5 Wonsi-dong, Danwon-gu, Gyeonggi-do**

City **Ansan-si** State Zip **425-851** Country **KR**

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.