보낸 사람: Garbo, Shigemi <SGarbo@CantorColburn.com>
보낸 날짜: 2026년 1월 24일 토요일 오전 1:59
받는 사람: pan-email
참조: Overseas; Chu, Summer; Beninati, Christine
제목: FILED - New-U.S. Patent Application - Serial No. 19/457,437,Your Ref.: OPP20250987US,Cantor Colburn Ref.: PNK2863US
첨부 파일: FeeSheet_ New Application Small entity.pdf; Submission Receipt - New Application.pdf; AS FILED ADS.pdf; AS FILED OPP20250987US_DecAssignment for filing.pdf; AS FILED POA Transmittal.pdf; POA UIF.pdf; AS FILED Specification original.pdf; AS FILED OPP20250987US_DR_260112 Drwings original.pdf; AS FILED IDS.pdf

범주: 자주색 범주

PRIVILEGED AND CONFIDENTIAL

January 23, 2026

VIA EMAIL ONLY

PanKorea PATENT & LAW FIRM
13F, Sanhak Foundation Bldg.
329 Gangnam-daero Seosho-gu
Seoul 06627 Korea

Re: FILED - New-U.S. Patent Application - Serial No. 19/457,437
For: METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE
Your Ref.: OPP20250987US
Applicant UIF (University Industry Foundation), Yonsei University – small entity
Cantor Colburn Ref.: PNK2863US

Dear Sirs:

Attached hereto are the following documents that were electronically filed with the United States Patent & Trademark Office on January 23, 2026, for the above-referenced application:

1. Application Data Sheet
2. Specification
3. Figures
4. Declaration/Assignment
5. Power of Attorney
6. POA Transmittal
7. Information Disclosure Statement

A debit note for our legal services will follow at a later date.

Please be advised that under 37 C.F.R. § 1.56, there is a duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of the above-identified invention. In order to comply with this duty, please notify our firm of any information that is material to the patentability of the above-identified invention. Such information includes but is not limited to publications and patents, such as any material references developed by any search; references cited in related applications; published related foreign applications; and related United States applications or patents. The failure to comply with this duty leaves the validity and/or enforceability of any patent issuing on this application open to challenge by others.

If you are aware of any information that should be submitted in an Information Disclosure Statement, please forward it to us at your earliest convenience for filing with the PTO.

Should you have any questions regarding this matter, please do not hesitate to contact us.

Please confirm receipt of this email and the attachments with a return email to the sender.

Very truly yours,

Summer Chu

SC/sg

Attachments:

Shigemi U. Garbo

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Work: 860-286-2929, ext. 1147 | Fax: 860-286-0115
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HARTFORD WASHINGTON, D.C. ATLANTA HOUSTON DETROIT

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UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
19/457,437	**01/23/2026 11:45:44 AM Z ET**	**PNK2863US**

Title of Invention

METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5705	FILED BY	Shigemi Garbo
PATENT CENTER #	74106956	FILING DATE	-
CUSTOMER #	23413	FIRST NAMED INVENTOR	Wooyoung SHIM
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Eunhye Chu

Documents

TOTAL DOCUMENTS: 20

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
AS FILED ADS.pdf	9	Application Data Sheet	2174 KB
AS FILED OPP20250987US_DecAssignment for filing.pdf	2	Oath or Declaration filed	1651 KB
POA UIF.pdf	1	Power of Attorney	43 KB
AS FILED POA Transmittal.pdf	1	Transmittal Letter	69 KB
AS FILED Specification original-APP.TEXT.docx	58	Application body structured text document	75 KB
Warning: Bookmarks were found and have been removed.			
AS FILED	24	Drawings-only black and white	1547 KB

OPP20250987US_DR_2601 12 Drwings original.pdf		line drawings	
AS FILED IDS.pdf	6	Information Disclosure Statement (IDS) Form (SB08)	1318 KB
5. KR 10-2022-0110496 A.pdf	66	Foreign Reference	3317 KB
NPL 12.pdf	22	Non Patent Literature	13837 KB
NPL 13.pdf	20	Non Patent Literature	11329 KB
NPL 14.pdf	20	Non Patent Literature	9340 KB
NPL 1.pdf	6	Non Patent Literature	3617 KB
NPL 2.pdf	9	Non Patent Literature	1524 KB
NPL 3.pdf	14	Non Patent Literature	2704 KB
NPL 4.pdf	9	Non Patent Literature	1527 KB
NPL 6.pdf	39	Non Patent Literature	17704 KB
NPL 7.pdf	19	Non Patent Literature	6756 KB
NPL 8.pdf	12	Non Patent Literature	3561 KB
NPL 9 ori.pdf	9	Non Patent Literature	4643 KB
9SG2387.pdf	58	Auxiliary PDF of Application	212 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
AS FILED ADS.pdf	6E181A37F0E443CF3D319EA142471694BD8D457B93CB8E646 41E2318B2633E573D524EA4DB588DA731C14BC4299F203AAD CACA978D71F696E702083BB503FAD8
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AS FILED Specification original-APP.TEXT.docx	1B7C53AD0375F3C830463D306D64301DA191C1BA6F469EE4D85EA1E888AA1C2ABC574B7CC8302BE05B8282BF5CBD304DC4DA7D13AF78490AF1B16BDACC1FD38D
AS FILED OPP20250987US_DR_260112 Drwings original.pdf	69EAF99321D964EF43209544502A1A31C0BF1BD6157F2CEA044628F312E342AE95BD9879520FC6D61C51669E1C705739E510D7B39EC4DE3DACD9E62AF1285311
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5. KR 10-2022-0110496 A.pdf	AA5845168ACEA32C7F3156045551140EE69F64C8C8AEAF8FC93A77BE5ABC1C407AFC0E9C735FFFEE4E7B22972979290F7972BD55548165ECB7ACD5CDCD0E86A1
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9SG2387.pdf	381EE7FFA406765A0837B8DAAC9AA0A3B85EBBAB3DBD0C5 ACA69E225F96CEFE9B51B00D608BA0B02025B94226C5F2753 284B1AF8CDD893C28832457605BE2757

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

DECLARATION AND ASSIGNMENT

Title of Invention: **METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE**

As a below named inventor, I hereby declare that:

This declaration is directed to:

[X] the attached application (Attorney Docket Number or

[ ] United States application or PCT international application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

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

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, **UIF (University Industry Foundation), Yonsei University**, a foundation of Country of Korea having a place at **50 Yonsei-ro, Seodaemun-gu, Seoul 03722, Republic of Korea** (herein referred to as "ASSIGNEE"),

desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the INVENTION, to ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE,

its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

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

The undersigned hereby grant(s) the law firm of **Cantor Colburn LLP** the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Legal Name of Inventor: Wooyoung Shim

Signature: _____ Date: January 9, 2026

Legal Name of Inventor: Jae-Min Myoung

Signature: _____ Date: January 9, 2026

Legal Name of Inventor: JiHun Yeom

Signature: Jihun Yeom Date: January 9, 2026

Legal Name of Inventor: Min Seong Kim

Signature: Min seong kim Date: January 9, 2026

Legal Name of Inventor: Jae Youn Jeong

Signature: Jae Youn Jeong Date: January 9, 2026

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

Application No.: Not Yet Assigned

Filing Date: **January 23, 2026**

First Named Inventor: **Wooyoung SHIM**

Title: METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE

Art Unit: Not Yet Assigned

Examiner Name: Not Yet Assigned

Attorney Docket No.: **PNK2863US**

SIGNATURE of Applicant or Patent Practitioner

/Summer Chu/ Date: January 23, 2026

Signature

Summer Chu Reg. No. 800,086

Name

(860) 286 - 2929

Telephone

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

I hereby appoint the Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office in connection therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

CUSTOMER NUMBER

23413

CANTOR COLBURN LLP
20 Church Street, 22nd Floor
Hartford, CT 06103-3207
Phone (860) 286-2929

Please recognize or change the correspondence address for the application referenced in the attached transmittal letter to the address associated with the above-mentioned Customer Number.

I am the Applicant, being the Assignee or Person to Whom the Inventor is Under an Obligation to Assign. The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature: Jihyun F. Kim Date: June 19, 2023

KIM, Jihyun F. (Title: president)

Name: Telephone: 82-2-2123-5757

Title and Company: **UIF (University Industry Foundation), Yonsei University**

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	PNK2863US
	Application Number	
Title of Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Wooyoung		SHIM	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Seoul	Country of Residence [i]	KR

Mailing Address of Inventor:

Address 1	502-906, 30, Myeongdal-ro 4-gil, Seocho-gu		
Address 2			
City	Seoul	**State/Province**	
Postal Code	06713	**Country** [i]	KR

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jae-Min		MYOUNG	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Seoul	Country of Residence [i]	KR

Mailing Address of Inventor:

Address 1	302-4301, Worldgoyang-ro 21, Ilsandong-gu		
Address 2			
City	Goyang-si, Gyeonggi-do	**State/Province**	
Postal Code	10416	**Country** [i]	KR

Inventor 3 Remove

Legal Name

PTO/AIA/14 (01-22)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	PNK2863US
	Application Number	
Title of Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE	

Prefix	Given Name	Middle Name	Family Name	Suffix
	JiHun		YEOM	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Seoul	Country of Residence [i]	KR

Mailing Address of Inventor:

Address 1	#303, 7-33, Seongsan-ro 17-gil, Seodaemun-gu		
Address 2			
City	Seoul	State/Province	
Postal Code	03726	Country [i]	KR

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Min Seong		KIM	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Seoul	Country of Residence [i]	KR

Mailing Address of Inventor:

Address 1	109-412, 15, Anhyeon-ro		
Address 2			
City	Gwangmyeong-si, Gyeonggi-do	State/Province	
Postal Code	14245	Country [i]	KR

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jae Youn		JEONG	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Seoul	Country of Residence [i]	KR

Mailing Address of Inventor:

Address 1	#204, 34, Sinchon-ro 7an-gil, Seodaemun-gu		
Address 2			
City	Seoul	State/Province	
Postal Code	03782	Country [i]	KR

PTO/AIA/14 (01-22)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	PNK2863US
	Application Number	
Title of Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE	

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	23413		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE		
Attorney Docket Number	PNK2863US	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	12	**Suggested Figure for Publication (if any)**	1

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., “Domestic Benefit/National Stage Information” and “Foreign Priority Information”).

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

PTO/AIA/14 (01-22)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	PNK2863US
	Application Number	
Title of Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE	

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	23413		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the “Application Number” field blank.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the[i] information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)
10-2025-0022561	KR	2025-02-20	B0D1

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	PNK2863US
	Application Number	
Title of Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	PNK2863US
	Application Number	
Title of Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	UIF (University Industry Foundation), Yonsei University

Mailing Address Information For Applicant:

Address 1	50 Yonsei-ro, Seodaemun-gu		
Address 2			
City	Seoul	**State/Province**	
Country KR		Postal Code	03722
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	PNK2863US
	Application Number	
Title of Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country [i]		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet must be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Summer Chu/			Date (YYYY-MM-DD)	2026-01-23
First Name	Summer	Last Name	Chu	Registration Number	800086

Additional Signature may be generated within this form by selecting the Add button. Add

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Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	PNK2863US
	Application Number	
Title of Invention	METHOD OF MANUFACTURING MICROSTRUCTURE ARRAY AND MICRO LIGHT-EMITTING DIODE AND METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE	

This collection of information is required by 37 CFR 1.76. 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 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number	
Filing Date	
First Named Inventor	Wooyoung SHIM
Art Unit	NYA
Examiner Name	NYA
Attorney Docket Number	PNK2863US

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Inventor of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Inventor or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20140141167	A1	2014-05-22	BRAUNSCHWEIG, ADAM B et al.	
	2	20240170061	A1	2024-05-23	MIRKIN, CHAD A. et al.	

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	1	20220110496	KR	A	2022-08-08	NORTHWESTERN UNIVERSITY		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Application Number	
	Filing Date	
	First Named Inventor	Wooyoung SHIM
	Art Unit	NYA
	Examiner Name	NYA
	Attorney Docket Number	PNK2863US

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	DAN LIU et al., "Direct optical patterning of perovskite nanocrystals with ligand cross-linkers", Sci. Adv. 8, 2022, eabm8433	☐
	2	Gwang Heon Lee et al., "Recent Advances in Patterning Strategies for Full□Color Perovskite Light□Emitting Diodes",Nano-Micro Lett. (2024) 16:45	☐
	3	Hanleem Lee et al., "Design of Chemically Stable Organic Perovskite Quantum Dots for Micropatterned Light-Emitting Diodes through",Adv. Mater. 2021, 33, 2007855	☐
	4	Hongjin Li et al., "Nanosurface-reconstructed perovskite for highly efficient and stable active-matrix light-emitting diode display",Nature Nanotechnology. Volume 19. May 2024. 638–645	☐
	5	Jinghui Li et al., "Efficient all-thermally evaporated perovskite light-emitting diodes for active-matrix displays",Nature Photonics, Volume 17, May 2023, 435–441	☐
	6	Jong Ik Kwon et al., "Ultrahigh-resolution full-color perovskite nanocrystal patterning for ultrathin skin-attachable displays".Sci. Adv. 8, eadd0697, 2022	☐
	7	Kang Wang et al.,"Wettability-Guided Screen Printing of Perovskite Microlaser Arrays for Current-Driven Displays",Adv. Mater. 2020, 32, 2001999	☐
	8	Shu-Yu Liang et al., "High-Quality Patterning of CsPbBr3 Perovskite Films through Lamination-Assisted Femtosecond Laser Ablation toward Light-Emitting Diodes", ACS Appl. Mater. Interfaces 2022, 14, 46958−46963	☐
	9	Ya Li et al., "Coffee-Stain-Free Perovskite Film for Efficient Printed Light-Emitting Diode".Adv. Optical Mater. 2021, 9, 2100553	☐
	10	Yaxiao Lian et al., "Downscaling micro- and nano-perovskite LEDs:",Nature,.62. Vol 640. 3 April 2025	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Application Number	
	Filing Date	
	First Named Inventor	Wooyoung SHIM
	Art Unit	NYA
	Examiner Name	NYA
	Attorney Docket Number	PNK2863US

	11	Yun Gao et al., "Microsecond-response perovskite light-emitting diodes for active-matrix displays",Nature Electronics | Volume 7 | June 2024 | 487–496	☐

If you wish to add additional non-patent literature document citation information, please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered and whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Application Number	
	Filing Date	
	First Named Inventor	Wooyoung SHIM
	Art Unit	NYA
	Examiner Name	NYA
	Attorney Docket Number	PNK2863US

TIMING STATEMENT

Please see 37 CFR 1.97(e) to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached timing statement under 37 CFR 1.97(e).

☒ A timing statement under 37 CFR 1.97(e) is not submitted herewith.

TIMING FEE

☐ The fee set forth in 37 CFR 1.17(p) has been submitted herewith.

COPIES

☐ An identification of an earlier application pursuant to 37 CFR 1.98(d)(1) is attached.

SIZE FEE ASSERTION

Please see 37 CFR 1.17(v) and the IDS Auto-Load Instructions for completing this form to make the appropriate selection of an assertion under 37 CFR 1.98. For the information disclosure statement (IDS) submitted herewith, the applicant or patent owner certifies the following with respect to the cumulative number of applicant-provided or patent-owner provided items of information submitted to date including those in the accompanying IDS (select only one):

☐ No IDS size fee is required under 37 CFR 1.17(v) at this time.

☐ The IDS is accompanied by the IDS size fee under 37 CFR 1.17(v)(1).

☐ The IDS is accompanied by the IDS size fee under 37 CFR 1.17(v)(2).

☐ The IDS is accompanied by the IDS size fee under 37 CFR 1.17(v)(3).

SIGNATURE

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Summer Chu/	Date (YYYY-MM-DD)	2026-01-23
Name/Print	Summer Chu	Registration Number	800086

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Application Number	
	Filing Date	
	First Named Inventor	Wooyoung SHIM
	Art Unit	NYA
	Examiner Name	NYA
	Attorney Docket Number	PNK2863US

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1.14. This collection is estimated to take 1 hour 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.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.