

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7272747

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JIE TANG	03/22/2022
SHUAI TANG	03/22/2022
TA-WEI CHIU	04/05/2022
TADAKATSU OHKUBO	03/22/2022
JUN UZUHASHI	03/22/2022
KAZUHIRO HONO	03/23/2022
LUCHANG QIN	03/25/2022
RECEIVING PARTY DATA	
Name:	NATIONAL INSTITUTE FOR MATERIALS SCIENCE
Street Address:	2-1, SENGEN 1-CHOME, TSUKUBA-SHI
City:	IBARAKI
State/Country:	JAPAN
Postal Code:	305-0047
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17768017
CORRESPONDENCE DATA	
Fax Number:	(202)721-8250
<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>	
Phone:	2027218210
Email:	WLP@WENDEROTH.COM
Correspondent Name:	WENDEROTH, LIND & PONACK L.L.P
Address Line 1:	1025 CONNECTICUT AVENUE NW
Address Line 2:	SUITE 500
Address Line 4:	WASHINGTON, D.C. 20036
ATTORNEY DOCKET NUMBER:	2022-0683A
NAME OF SUBMITTER:	KELLY GREENE
SIGNATURE:	/Kelly Greene/
DATE SIGNED:	04/11/2022

Total Attachments: 4

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Wenderoth, Lind & Ponack, LLP
Attorney Docket No.:

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION	
Title of Invention	EMITTER, ELECTRON GUN IN WHICH SAME IS USED, ELECTRONIC DEVICE IN WHICH SAME IS USED, AND METHOD FOR MANUFACTURING SAME
DECLARATION	
As a below named inventor, I hereby declare that:	
This declaration is directed to:	
<input type="checkbox"/> The attached application, or	
<input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/JP2020/039310</u> filed on <u>October 20, 2020</u>	
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 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.	
Note to Inventor: 37 C.F.R. § 1.63(c) states: "A person may not execute an oath or declaration for an application unless that person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in § 1.56."	
ASSIGNMENT	
In consideration of the good and valuable consideration paid, I hereby sell and assign to	
<u>NATIONAL INSTITUTE FOR MATERIALS SCIENCE</u>	
(Name of Assignee)	
of <u>2-1, Sengen 1-chome, Tsukuba-shi, Ibaraki, 305-0047 JAPAN</u>	
(Address of Assignee)	
(hereinafter designated as the Assignee) my entire right, title and interest for the United States as defined in 35 USC 100, for any invention set forth in the above-identified application.	
I agree to execute all papers necessary in connection with this application for patent in the USPTO for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.	
I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.	

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

I hereby authorize and request the USPTO to issue any and all Letters Patents of the United States resulting from the application or any continuation, divisional or reissue applications thereof to the Assignee, as Assignee of my entire interest, and covenant that I have not executed, and will not execute, any agreement in conflict herewith.

First Inventor (Legal Name): Jie TANG

Signature: Jie Tang

Date: 2021/3/22

Second Inventor (Legal Name): Shuai TANG

Signature: Shuai Tang

Date: 2021/3/22

Third Inventor (Legal Name): Ta-Wei CHIU

Signature: _____

Date: _____

Fourth Inventor (Legal Name): Tadakatsu OHKUBO

Signature: Tadakatsu Ohkubo

Date: 2022/3/22

Fifth Inventor (Legal Name): Jun UZUHASHI

Signature: Jun Uzuhashi

Date: 2022/3/22

Sixth Inventor (Legal Name): Kazuhiro HONO

Signature: Kazuhiro Hono

Date: 2022/3/23

Seventh Inventor (Legal Name): Luchang QIN

Signature: Luchang Qin

Date: 2022/3/25

Eighth Inventor (Legal Name): _____

Signature: _____

Date: _____

PATENT

REEL: 059560 FRAME: 0434

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION	
Title of Invention	EMITTER, ELECTRON GUN IN WHICH SAME IS USED, ELECTRONIC DEVICE IN WHICH SAME IS USED, AND METHOD FOR MANUFACTURING SAME
DECLARATION	
<p>As a below named inventor, I hereby declare that:</p> <p>This declaration is directed to:</p> <p><input type="checkbox"/> The attached application, or</p> <p><input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/JP2020/039310</u> filed on <u>October 20, 2020</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p>Note to Inventor: 37 C.F.R. § 1.63(c) states: "A person may not execute an oath or declaration for an application unless that person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in § 1.56."</p>	
ASSIGNMENT	
<p>In consideration of the good and valuable consideration paid, I hereby sell and assign to</p> <p><u>NATIONAL INSTITUTE FOR MATERIALS SCIENCE</u> (Name of Assignee)</p> <p>of <u>2-1, Sengen 1-chome, Tsukuba-shi, Ibaraki, 305-0047 JAPAN</u> (Address of Assignee)</p> <p>(hereinafter designated as the Assignee) my entire right, title and interest for the United States as defined in 35 USC 100, for any invention set forth in the above-identified application.</p> <p>I agree to execute all papers necessary in connection with this application for patent in the USPTO for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.</p> <p>I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.</p>	

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

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First Inventor (Legal Name): Jie TANG

Signature: _____

Date: _____

Second Inventor (Legal Name): Shuai TANG

Signature: _____

Date: _____

Third Inventor (Legal Name): Ta-Wei CHIU

Signature: Ta Wei CHIU

Date: 2022/4/5

Fourth Inventor (Legal Name): Tadakatsu OHKUBO

Signature: _____

Date: _____

Fifth Inventor (Legal Name): Jun UZUHASHI

Signature: _____

Date: _____

Sixth Inventor (Legal Name): Kazuhiro HONO

Signature: _____

Date: _____

Seventh Inventor (Legal Name): Luchang QIN

Signature: _____

Date: _____

Eighth Inventor (Legal Name): _____

Signature: _____

Date: _____