505334206 02/19/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5380987

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
AKIFUMI YAO	02/14/2019
KUNIHIRO YAMAUCHI	02/14/2019
TATSUO MIYAZAKI	02/14/2019
JUN LIN	02/14/2019
SUSUMU YAMAUCHI	02/14/2019
KAZUAKI NISHIMURA	02/14/2019

## **RECEIVING PARTY DATA**

Name:	CENTRAL GLASS COMPANY, LIMITED
Street Address:	5253, OAZA OKIUBE, UBE-SHI
City:	YAMAGUCHI
State/Country:	JAPAN
Postal Code:	755-0001
Name:	TOKYO ELECTRON LIMITED
Name: Street Address:	TOKYO ELECTRON LIMITED  3-1, AKASAKA 5-CHOME, MINATO-KU
Street Address:	3-1, AKASAKA 5-CHOME, MINATO-KU

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16316128

## CORRESPONDENCE DATA

**Fax Number:** (202)721-8250

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:** 2027218200

**Email:** wlp@wenderoth.com

Correspondent Name: WENDEROTH, LIND & PONACK, L.L.P.

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Address Line 2: SUITE 400 EAST

Address Line 4: WASHINGTON, D.C. 20005

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ATTORNEY DOCKET NUMBER:	2018-2225A
NAME OF SUBMITTER:	KELLY GREENE
SIGNATURE:	/KELLY GREENE/
DATE SIGNED:	02/19/2019
Total Attachments: 4	
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PATENT REEL: 048366 FRAME: 0025 Wenderoth, Lind & Ponack, LLP Attorney Docket No.: 2018-2225A

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION	
Title of Invention	ETCHING METHOD AND ETCHING DEVICE
4444	DECLARATION
As a below nar	ned inventor, I hereby declare that:
This declaration is directed to:	n The attached application, or
	X United States application or PCT international application
	number <u>PCT/JP2017/020237</u> filed on <u>May 31, 2017.</u>
The above-ide	ntified 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.
	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 isonment of not more than five (5) years, or both.
unless that pers	or: 37 C.F.R. § 1.63(c) states: "A person may not execute an oath or declaration for an application on has reviewed and understands the contents of the application, including the claims, and is aware isclose to the Office all information known to the person to be material to patentability as defined in
3 1.001	ASSIGNMENT
In consideration	of the good and valuable consideration paid, I hereby sell and assign to
(1) CENTRAL	GLASS COMPANY, LIMITED
(2) TOKYO E (Name of As	LECTRON LIMITED
(Manife of Ma	signee)
of (1) 5253, O	aza Okiube, Ube-shi, Yamaguchi 755-0001, Japan
(address of A	asaka 5-chome, Minato-ku, Tokyo 1076325, Japan Assignee)
	ignated as the Assignee) my entire right, title and interest for the United States as defined in 35 USC rention set forth in the above-identified application.
and any continu	ate all papers necessary in connection with this application for patent in the USPTO for the invention, ation, divisional or reissue applications thereof and also to execute separate assignments in connection ations as the Assignee may deem necessary or expedient.
with this applic	tte all papers necessary in connection with any post-grant proceeding which may occur in connection ation or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way ning evidence and going forward with such post-grant proceeding.
The undersigne connection with	d agree(s) to execute all papers and documents and perform any act which may be necessary in claims or provisions of the International Convention for Protection of Industrial Property or similar

**PATENT** 

REEL: 048366 FRAME: 0026

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): Akifumi YAO Signature:	Date:FEB, 1 4, 2019	
Second Inventor (Legal Name): <u>Kunihiro YAMAUCHI</u> Signature: <u>kunihiro Yamauchi</u>	Date:FEB, 1 4, 2019	
Third Inventor (Legal Name): Tatsuo MTYAZAKI Signature: Atom Myazaki	Date:FEB, 1 4, 2019	
Fourth Inventor (Legal Name): <u>Jun LIN</u>		
Signature:	Date:	
Fifth Inventor (Legal Name): Susumu YAMAUCHI		
Signature:	Date:	
Sixth Inventor (Legal Name): <u>Kazuaki NISHIMURA</u>		
Signature: Date:		

Wenderoth, Lind & Ponack, LLP Attorney Docket No.: 2018-2225A

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION	
Title of Invention	ETCHING METHOD AND ETCHING DEVICE
	DECLARATION
As a below na	med inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application
	number <u>PCT/JP2017/020237</u> filed on <u>May 31, 2017.</u>
The above-ide	ntified 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	n of the good and valuable consideration paid, I hereby sell and assign to
	L GLASS COMPANY, LIMITED ELECTRON LIMITED
(Name of A	
(2) 3-1, Al-	Daza Okiube, Ube-shi, Yamaguchi 755-0001, Japan  asaka 5-chome, Minato-ku, Tokyo 1076325, Japan
(address of	
(hereinafter de 100, for any in	signated as the Assignee) my entire right, title and interest for the United States as defined in 35 USC vention 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 undersign connection wit	ed agree(s) to execute all papers and documents and perform any act which may be necessary in h claims or provisions of the International Convention for Protection of Industrial Property or similar

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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 Assignce.		
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): Akifumi YAO		
Signature:	Date:	
Second Inventor (Legal Name): Kunihiro YAMAUCHI		
Signature:	Date:	
Third Inventor (Legal Name): <u>Tatsuo MIYAZAKI</u>		
Signature:	Date:	
Fourth Inventor (Legal Name): Jun LIN Signature: Jun Lin	Date: FEB, 1 4, 2019	
Fifth Inventor (Legal Name): Susumu YAMAUCHI Signature:	Date: FEB. 1 4. 2019	
Sixth Inventor (Legal Name): <u>Kazuaki NISHIMURA</u> Signature: <u>Kazuaki Vishimura</u>	Date: FEB. 1 4. 2019	