## 505481804 05/17/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT5528608 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KUNIHIRO YAMAUCHI	04/12/2019
TAKASHI MASUDA	04/17/2019
AKIFUMI YAO	04/12/2019

#### **RECEIVING PARTY DATA**

Name:	CENTRAL GLASS COMPANY, LIMITED
Street Address:	5253, OAZA OKIUBE
City:	UBE-SHI, YAMAGUCHI
State/Country:	JAPAN
Postal Code:	755-0001

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

Property Type	Number
Application Number:	16461600

#### **CORRESPONDENCE DATA**

**Fax Number:** (202)628-8844

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:** 2026242500

**Email:** edocket@crowell.com, jburger@crowell.com

Correspondent Name: CROWELL & MORING LLP

Address Line 1: PO BOX 14300

Address Line 4: WASHINGTON, D.C. 20044

ATTORNEY DOCKET NUMBER:	038788.PC303US
NAME OF SUBMITTER:	MICHAEL H. JACOBS
SIGNATURE:	/Michael H. Jacobs/
DATE SIGNED:	05/17/2019

### **Total Attachments: 3**

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PATENT 505481804 REEL: 049210 FRAME: 0159

Attorney Docket No.:	***************************************	U.S. Rights
ASSIGNMEN'	T AND DECLARATION	ON UNDER 37 C.F.R. 1.63
Title of Invention: ETCHING ME	THOD AND ETCHING DEVICE	
the attached application ide	ntified by the attorney docket no. and lication or PCT International Applicat	title of invention given above; ion No. <u>PCT/JP2017/045708</u> filed
	ASSIGNMEN	${f T}$
		ncy of which are hereby schnowledged, as a
Name of Assignee:	CENTRAL GLASS COMPANY, I	<del>,</del>
Address of Assignce:	5253, Ozza Okiube, Ube-shi Yamaguchi 755-0001 Japan	
the above-identified invent thereof, and in and to any a said invention, including a successors or assigns to th	ion and United States patent application and all Letters Patent of the United State ny and all reissues or extensions thereo	ted States, its territories and possessions in and to it, including any and all divisions or continuations is which may issue on any such application or for f, to be held and enjoyed by said ASSIGNEE, its h any and all such Letters Patent may be granted ad this Assignment not been made.
	quest the Director of the U.S. Patent a GNEE, its successors or assigns in acco	and Trademark Office to issue any and all such reance herewith.
		ht to sell and assign the interests herein sold and ument or instrument in conflict herewith.
assigns all information kn deliver any papers, make deemed necessary or desire said invention, to said app which may be granted the assigns, or to assist said	own to me relating to said invention of all rightful caths, testify in any legal able by said ASSIGNEE, its successors, dication including divisions and continu- refore or thereon, including reissues or	SIGNEE, its successors, legal representatives or parent application and that I will execute and proceedings and perform all other lawful acts legal representatives or assigns to perfect title to uations thereof and to any and all Letters Patent extensions, in said ASSIGNEE, its successors or esentatives or assigns in obtaining, reissuing or
	<b>DECLARATIO</b>	<u> N</u>
As a below named inventor	r, I hereby declare that:	
The above-identified applic	cation was made or authorized to be mad	le by me.
believe that I am the origi	nel inventor or an original joint invento	r of a claimed invention in the application,
	any willful false statement made in things more than five (5) years, or both.	s declaration is punishable under 18 U.S.C. 1001
Signature:	kunihin Yama	wchi 04/12/2019
Inventor:	Kunihire YAMAUCHI	DATE

Attorney Docket No.:	U.S. Rights
ASSIGNMEN	T AND DECLARATION UNDER 37 C.F.R. 1.63
Title of Invention: ETCHING ME	THOD AND ETCHING DEVICE
the attached applied the application id	entified by the attorney docket no. and title of invention given above; plication or PCT International Application No. <u>PCT/JP2017/045708</u> filed
	<u>ASSIGNMENT</u>
	consideration, the receipt and sufficiency of which are hereby acknowledged, as a have sold and assigned, and by these presents hereby sell and assign, unto:
Name of Assignee:	CENTRAL GLASS COMPANY, LIMITED
Address of Assignee:	5253, Oaza Okiube, Ube-shi Yamaguchi 755-0001 Japan
the above-identified inver thereof, and in and to any said invention, including successors or assigns to ti	all my right, title and interest for the United States, its territories and possessions in and to all my right, title and interest application, including any and all divisions or continuations and all Letters Patent of the United States which may issue on any such application or for any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its be full end of the term or terms for which any and all such Letters Patent may be granted suld have been held and enjoyed by me had this Assignment not been made.
	equest the Director of the U.S. Patent and Trademark Office to issue any and all such EGNEE, its successors or assigns in accordance berewith.
I warrant and covenant the assigned and that I have n	at I have the full and unencumbered right to sell and assign the interests herein sold and of executed and will not execute any document or instrument in conflict herewith.
I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect the to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefore or thereon, including reissues or extensions, in said ASSIGNEE, its successors or assigns, or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention.	
	<u>DECLARATION</u>
As a below named invente	or, I hereby declare that:
The above-identified appl	ication was made or authorized to be made by me.
I believe that I am the orig	ginal inventor or an original joint inventor of a claimed invention in the application.
I hereby acknowledge that by fine or imprisonment of	it any willful fulse statement made in this declaration is punishable under 18 U.S.C. 1001 foot more than five (5) years, or both.

Signature: Jahoshi Mosuda. 04/17/2019
Inventor: Takashi MASUDA DATE

Attorney Docket No.:	 U.S. Rights

# ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. 1.63

#### Title of Invention:

#### ETCHING METHOD AND ETCHING DEVICE

This as	signment and declaration are directed to (check one):
	the strached application;
	the application identified by the attorney docket no. and title of invention given above;
$\boxtimes$	United States Application or PCT International Application No. PCT/JP2017/045708 filed
	December 20, 2017.

## ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

Name of Assignee: CENTRAL GLASS COMPANY, LIMITED

Address of Assignee: 5253, Oaza Okinbe, Ube-shi

Yamaguchi 755-0001 Japan

(hereinafter ASSIGNEE) all my right, title and interest for the United States, its territories and possessions in and to the above-identified invention and United States patent application, including any and all divisions or continuations thereof, and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors or assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith.

I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.

I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefore or thereon, including reissues or extensions, in said ASSIGNEE, its successors or assigns, or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention.

### DECLARATION

As a below named inventor, I hereby declare that:

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

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

I hereby seknowledge 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.

Signature: Inventor:

Asifumi yao 04/12/2019
DATE